



T.C.
ANTALYA BÜYÜKŞEHİR BELEDİYE BAŞKANLIĞI
Dış İlişkiler Dairesi Başkanlığı



Sayı : E-40184468-105.04-311606
Konu : Cermoni Projesi

01.09.2023

BAŞKANLIK MAKAMINA

EIT Urban Mobility Ağı'nın açmış olduğu "Hedeflenen Proje Çağrısı (targeted project call)" kapsamında Antalya Büyükşehir Belediyesi, Parabol (Türkiye) yazılım firması ve Vignola Belediyesi (İtalya) ortaklığı ile proje başvurusu yapılmış ve "Cermoni" adlı proje hibe almaya hak kazanmıştır.

Projede, Parabol firması tarafından geliştirilen yazılım sayesinde Antalya'da ve Vignola'da toplu taşıma operatörlerinin farklı senaryoları analiz etmesi, talep değişimlerinde hizmet seviyelerini optimize ederek finansal kayıpları en aza indirmesi ve operatörlerin finansal olarak olumsuz etkilenmemesinin sağlanması amaçlanmaktadır. 01 Ağustos 2023 - 30 Nisan 2024 tarihleri arasında yürütülecek olan bu proje kapsamında Antalya Büyükşehir Belediyesine ayrılan proje bütçesi 75.250,00 Euro'dur.

Proje için Antalya Büyükşehir Belediyesi adına sözleşmelerin imzalanması, zeyilnamelerin düzenlenmesi ve projenin uygulanması aşamalarında Belediye Başkanı Muhittin BÖCEK'e temsil ve ilzam yetkisi verilmesi hususunun görüşülmek üzere,

Büyükşehir Belediye Meclisine havalesini arz ederim.

Zeynep Tuğçe ÇİFTÇİBAŞI GÜÇ
Dış İlişkiler Dairesi Başkanı

Uygun görüşle arz ederim.
Mustafa GÜRBÜZ
Genel Sekreter Yardımcısı

BÜYÜKŞEHİR BELEDİYE MECLİSİNE
Cansel TUNCER
Başkan a.
Genel Sekreter

Ek:

- 1- Cermoni Projesi Hibe Sözleşmesi
- 2- Cermoni Projesi Bilgi Notu

Bu belge, güvenli elektronik imza ile imzalanmıştır.

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Tarih: 28.08.2023

Konu: Cermoni Projesi

Program Hakkında

EIT Urban Mobility Ağı – Hibe Kazanan Cermoni Proje

EIT Urban Mobility Ağı'nın açmış olduğu "Hedeflenen Proje Çağrısı (targeted project call)" kapsamında Antalya Büyükşehir Belediyesi, ODTÜ Teknokent'te yer alan yazılım firması Parabol ve Vignola Belediyesi (İtalya) ortaklığı ile 27 Nisan 2023 tarihinde proje başvurusu yapılmış, proje hibe almaya hak kazanmıştır. Cermoni adlı projede, Parabol firması tarafından geliştirilen yazılım sayesinde toplu taşıma operatörlerinin farklı senaryoları analiz etmesi, talep değişimlerinde hizmet seviyelerini optimize ederek finansal kayıpları en aza indirmesi ve operatörlerin finansal olarak olumsuz etkilenmemesini sağlaması amaçlanmaktadır. Bu yazılım, Antalya'da ve Vignola'da toplu taşıma sistemlerinde uygulanacaktır. Proje kapsamında kazanılan Antalya Büyükşehir Belediyesi hibi 48.913 Euro'dur. Proje, 01 Ağustos 2023 tarihinde başlamış olup 30 Nisan 2024 tarihinde sona erecektir. 9 Ağustos 2023 tarihinde proje açılış toplantısı EIT Urban Mobility yetkilileri ve proje ortaklarının katılımıyla çevrimiçi olarak gerçekleştirilmiştir. Projenin koordinasyonu, raporlanması ve teknik ziyaretler İngilizce olarak gerçekleştirileceğinden projede görevlendirilecek personellerin iyi derecede İngilizce bilmesi beklenmektedir. Proje süresince Antalya'da ve İtalya'da olmak üzere tüm ortakların katılacağı toplantılar ve saha ziyaretleri gerçekleştirilecektir. Ayrıca projenin tanıtımı ve yaygınlaştırılması için sunum yapmak ve interaktif soru-cevap oturumlarına katılmak üzere "Barselona Akıllı Şehir Expo ve Kongresi"ne Antalya Büyükşehir Belediyesi adına bu projede görevli olan personellerin katılım sağlaması beklenmektedir.

Dış İlişkiler Dairesi Başkanı
Zeynep Tuğçe ÇİFTÇİBAŞI GÜÇ

DECLARATION OF HONOUR FOR BENEFICIARIES (DoH)

(To be filled out by the applicant and signed by its legal representative directly in the system.)

I, the undersigned:

for natural persons: in my own name

or

for legal persons¹: representing the following entity:

Antalya Büyükşehir Belediyesi

Yüksekalan Mahallesi Adnan Menderes Bulvarı No:20, 07310, Antalya, TURKEY,
with VAT number 1670053347

hereby confirm

that (subject to the additional declarations below):

- 1 — The **information** provided for any relevant action/project is **correct and complete**.
- 2 — The information concerning the legal status in the [Participant Register](#) for my organisation is correct and complete.
- 3 — I/my organisation commit to comply² with the **eligibility** criteria and all other conditions set out in the call conditions — for the entire duration of the action.
- 4 — I/my organisation:
 - are committed to participate in the action
 - have stable and sufficient sources of funding to maintain the activities throughout the action and to provide any counterpart funding necessary
 - have or will have the necessary resources needed to implement the action
 - acknowledge to be fully responsible for my affiliated entities which participate in the action
 - for research actions: are committed to comply with the highest standards of ethical principles and research integrity and confirm that the work is free of plagiarism

¹ This includes 'entities without legal personality' under Article 197(2) of Regulation (EU, Euratom) 2018/1046 of the European Parliament and of the Council of 18 July 2018 on the financial rules applicable to the general budget of the Union, amending Regulations (EU) No 1296/2013, (EU) No 1301/2013, (EU) No 1303/2013, (EU) No 1304/2013, (EU) No 1309/2013, (EU) No 1316/2013, (EU) No 223/2014, (EU) No 283/2014, and Decision No 541/2014/EU and repealing Regulation (EU, Euratom) No 966/2012 ('[EU Financial Regulation](#)') (OJ L 193, 30.7.2018, p. 1).

² 'Commit to comply' means complying now and for the duration of the grant.

- for actions involving EU classified information (EUCI): acknowledge that any sensitive information or material that qualifies as EU classified information under Commission Decision [2015/444](#)³ must be handled in accordance with specific rules and follow the instructions given by the EU
- for coordinators of multi-beneficiary actions: are committed to act as the coordinator for this action.

5 — For applicants from non-EU countries: I/my organisation

- undertake to comply with the obligations under the agreement and to:
 - respect general principles (including fundamental rights, values and ethical principles, environmental and labour standards, rules on classified information, intellectual property rights, visibility of funding and protection of personal data)
 - for the submission of financial certificates under the agreement: use qualified external auditors which are independent and comply with comparable standards as those set out in EU Directive 2006/43/EC
 - for controls under the agreement: allow for checks, reviews, audits and investigations (including on-the-spot checks, visits and inspections) by the granting authority, the European Anti-Fraud Office (OLAF), the European Prosecutor’s Office (EPPO) and the European Court of Auditors (ECA) and any persons mandated by them
- and confirm that:
 - we can be subject to the jurisdiction of the Belgian courts.

6 — I/my organisation:

- are NOT subject to an **administrative sanction** (i.e. exclusion or financial penalty decision)⁴

I/my organisation (or persons with unlimited liability for debts):

- are NOT in one of the following **exclusion situations**⁵:
 - **bankrupt**, being wound up, having the affairs administered by the courts, entered into an arrangement with creditors, suspended business activities or subject to any other similar proceedings or procedures
 - in breach of **social security** or **tax** obligations

I/my organisation (or persons having powers of representation, decision-making or control, beneficial owners or persons who are essential for the award/implementation of the action):

³ See Commission Decision 2015/544/EU, Euratom of 13 March 2015 on the security rules for protecting EU classified information (OJ L 72, 17.3.2015, p. 53).

⁴ See Article 136 [EU Financial Regulation](#).

⁵ See Articles 136 and 141 [EU Financial Regulation](#).

- are NOT in one of the following **exclusion situations**⁶:
 - guilty of grave professional **misconduct**⁷
 - committed fraud, corruption, links to a **criminal** organisation, money laundering, terrorism-related crimes (including terrorism financing), child labour or human trafficking
 - shown significant deficiencies in complying with main obligations under an **EU procurement contract**, grant agreement, prize, expert contract, or similar
 - guilty of **irregularities** within the meaning of Article 1(2) of Regulation No 2988/95
 - created under a different jurisdiction with the intent to circumvent fiscal, social or other legal obligations in the country of origin (including creation of another entity with this purpose).

7 — I/my organisation are NOT subject to a **conflict of interest** in connection with this grant and will notify — without delay — any situation which could give rise to a conflict of interests.

8 — I/my organisation have NOT and will NOT, neither directly nor indirectly, grant, seek, obtain or accept any advantage in connection with this grant that would constitute an illegal practice or involve **corruption**.

9 — I/my organisation have **not received** any **other EU grant** for this action and will give notice of any future EU grants related to this action AND of any EU operating grant(s)⁸ given to my organisation.

10 — I/my organisation are aware that **false declarations** may lead to rejection, suspension, termination or reduction of the grant and to administrative sanctions (i.e. financial penalties and/or exclusion from all future EU procurement contracts, grants, prizes and expert contracts).

and acknowledge

that:

1 — The grant will be signed and managed electronically, through the Funding & Tenders Portal Electronic Exchange System (accessible via your [Funding & Tenders Portal account](#)⁹).

2 — Access and use of this system is subject to the [Funding & Tenders Portal Terms & Conditions](#)¹⁰.

⁶ See Articles 136 and 141 [EU Financial Regulation](#).

⁷ Professional misconduct includes: violation of ethical standards of the profession, wrongful conduct with impact on professional credibility, false declarations/misrepresentation of information, participation in a cartel or other agreement distorting competition, violation of IPR, attempting to influence decision-making processes or obtain confidential information from public authorities to gain an advantage.

⁸ See Article 180 [EU Financial Regulation](#).

⁹ Available at <https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/myarea/projects>.

¹⁰ Available at https://ec.europa.eu/info/funding-tenders/opportunities/docs/2021-2027/common/ftp/tc_en.pdf.

- 3 — Personal data submitted or otherwise collected by the EU will be subject to the [Funding & Tenders Portal Privacy Statement](#)¹¹.
- 4 — Payments under the grant are done at consortium-level, through the coordinator, and that payments will be automatically lowered if one of the consortium members has outstanding debts towards the EU (granting authority or other EU bodies). Such debts will be offset in accordance with the conditions set out in the grant agreement.

SIGNATURE

For the applicant

Zeynep Tuğçe Çiftçibasi Güç

[Position]

Signature: Zeynep Tuğçe Çiftçibasi Güç
Zeynep Tuğçe Çiftçibasi Güç (Aug 4, 2023 10:21 GMT+3)

Email: disiliskiler@antalya.bel.tr

Title: Head of International Affairs

¹¹ Available at <https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/support/legalnotice>.

EIT Urban Mobility
Financial support agreement

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This financial support agreement, hereinafter the **“Agreement”**, shall have retroactive¹ () effect as of 1 January 2023 (**“Effective Date”**) and is entered into by and between:

EIT KIC Urban Mobility, S.L.U., established in Avinguda Diagonal, 211, 08018, Barcelona, Spain, VAT number B67513630, represented by Maria Tsavachidis, hereinafter referred to as **“KIC LE”**;

And

Antalya Büyükşehir Belediyesi, registered in Yüksekalan Mahallesi Adnan Menderes Bulvarı No:20, 07310, Antalya, TURKEY, with VAT number 1670053347, represented by Zeynep Tuğçe Çiftçibasi Güç as [Position], hereinafter referred to as the **“Recipient”**;

Hereinafter, jointly or individually, referred to as **“Parties”** or **“Party”**;

WHEREAS:

The KIC LE has entered into a Partnership Agreement (**“PA”**) with the European Institute of Innovation and Technology (**“EIT”**), with the effective date of 1 January 2021, establishing a long-term cooperation laying down the general terms and conditions under which KIC LE must operate as an institutionalised European partnership under the Horizon Europe Programme.

Under the terms of the PA, the KIC LE has been awarded a grant for the action Business Plan 2023-2025 by the EIT, to carry out a series of KAVAs in accordance with the EIT Regulation, contributing to the integration of the knowledge triangle of education, business, research and innovation, in a thematically focused innovation system (the **“Knowledge Triangle Activities”**), and contributing to the overall objectives of the EIT and, for this purpose, has entered into a Grant Agreement with the EIT (the **“GA”**), with effective date of 1 January 2023, laying down the provisions concerning the implementation of the activities through grants, which, among others, allows the KIC LE to provide financial support to third parties for projects and actions related to KAVAs (the **“Financial Support to Third Parties”**).

The Recipient is willing to implement one or more KAVAs. Subject to the selection procedure and criteria of the KIC LE, the KIC LE may select one or more proposals for KAVAs of the Recipient.

Besides **KAVAs** funded by the EIT grant, the Recipient may also be involved in additional activities, projects and prizes with or via the KIC LE that are not funded under the grant (Non-EIT Funded Activities or **“NEFAs”**). Such NEFAs fall outside the scope of this Agreement and will be dealt with via separate arrangements between the Recipient and the KIC LE.

The Recipient may be involved in such KAVAs as a **Third Party Receiving Financial Support**.

The KIC LE, in its capacity of beneficiary under the GA, must respect certain conditions in terms of transparency, non-discrimination, sound financial management and no conflict of interest. The KIC LE must further ensure that other conditions in terms of eligibility of costs, financial control and audit mechanism, intellectual property rules, communication, dissemination and visibility rules, standards for monitoring and reporting and rights for EIT, OLAF and Court of Auditors and other similar institutions, as provided for in the GA, are put in place with the Recipient.

¹ Retroactive effects if Agreement is signed after 1st January 2023.

In this Agreement the Parties wish to lay down the contractual arrangements between them regarding their respective rights and obligations for the implementation by the Recipient of KAVAs, transposing to the extent needed the provisions of the GA.

NOW, THEREFORE, IT IS HEREBY AGREED AS FOLLOWS:

Article 1: Definitions

1.1 Definitions

Words beginning with a capital letter shall have the meaning defined either herein or in the Horizon Europe Programme, the EIT Regulation, in the Partnership Agreement or Grant Agreement, including their respective Annexes.

1.2 Additional Definitions

“Authorised Representative” shall mean the person or persons duly authorised to sign this Agreement, including its Annexes, on behalf of a Party.

“Co-funding” is the Recipient’s contribution to a Project.

“Effective Date” shall mean the date first referenced above.

“EIT” or **“granting authority”** shall mean the European Institute of Innovation and Technology, currently regulated by Regulation (EU) 2021/819 of the European Parliament and of the Council of May 20, 2021 (**“EIT Regulation”**).

“Force Majeure” shall mean any situation or event that

- prevents either Party from fulfilling their obligations under this Agreement,
- was unforeseeable, exceptional situation and beyond the Parties’ control,
- was not due to error or negligence on their part (or on the part of other participants involved in the action), and
- proves to be inevitable in spite of exercising all due diligence.

“Grant Agreement” or **“GA”** shall mean the agreement signed by the EIT and the KIC LE, setting out the rights and obligations applicable to the EIT grant awarded for the implementation of the KIC Business Plan, which is available on EIT UM’s website and as altered, amended, re-instated or replaced from time to time.

“Horizon Europe Programme” shall mean Regulation (EU) 2021/695 of the European Parliament and of the Council of 28 April 2021 establishing Horizon Europe – the Framework Programme for Research and Innovation, laying down its rules for participation and dissemination, and repealing Regulations (EU) No 1290/2013 and (EU) No 1291/2013.

“Implementation Handbook” shall mean the guidance and KIC LE’s internal process for the implementation of Projects publicly available at KIC LE’s website.

“IP Policy” shall mean the KIC LE’s IP Policy as available on KIC LE’s website.

“KIC Added Value Activity” or “KAVA” shall mean activities carried out by the KIC LE, contributing to the integration of the knowledge triangle, including the establishment, administrative and coordination activities of the KIC, and contributing to the overall objectives of the EIT.

“KIC Business Plan” shall mean the KIC Business Plan as defined in the PA. The KIC Business Plan is attached as Part B of the grant application submitted by KIC LE.

“Partnership Agreement” or “PA” shall mean the agreement laying down the general terms and conditions under which the KIC LE must operate as an institutionalised European partnership, entered into by and between the EIT and the KIC LE, with an effective date of 1 January 2021, as altered, amended, re-instated or replaced from time to time.

“Project(s)” shall mean the actions contributing to the KIC Business Plan, which the Recipient shall implement, as described in the relevant Project Plan and according to the Project Schedule as part of the Project Agreement. A Project may consist of KAVA(s) and/or NEFA(s). The Recipient may be involved in multiple Projects under the KIC Business Plan, being described each of them in Project Agreement(s) to be attached to this Agreement.

“Project Agreement” shall mean the legally binding arrangements, including the expected results, work plan, and budget and any other specific provisions to be attached to this Agreement as an Annex, laying down the specific terms and conditions concerning these Project(s).

“Third Party Receiving Financial Support” shall mean a recipient of financial support to third parties, in the form of grants, prizes or similar forms of support as described in Article 9.4 and Annex V of the GA.

Article 2: Purpose

The purpose of this Agreement is to lay down the contractual arrangements between the Parties regarding their respective rights and obligations pertaining to the implementation by the Recipient of KAVAs or Projects. For the implementation of the KAVA the Recipient will act as a Third Party Receiving Financial Support from KIC LE.

The contractual arrangements will in particular pertain to monitoring and reporting, IPR rules, communication, dissemination and visibility rules, information obligations, checks, reviews, audits and investigations, financial provisions (including eligibility rules for KAVAs), division of roles and responsibility, inter alia liability, non-disclosure of information and dispute resolution.

The Recipient acknowledges and agrees that in this Agreement, the conditions of the GA are transposed in the legal arrangement between the KIC LE and the Recipient, in order to ensure that the KIC LE shall meet its obligations and exercise its rights (including those towards the EIT) under the GA.

The Parties agree that the terms and conditions set forth by virtue of this Agreement shall regulate the Project Agreements that may be executed during the period of enforcement of this Agreement.

Article 3: Entry into force, duration, and termination

3.1 Entry into force and duration

This Agreement shall have effect from the Effective Date until the end date of the GA.

However, this Agreement may be terminated in accordance with Article 3.2 of this Agreement.

The duration of this Agreement does not determine the duration of a Project, which may be longer or shorter. If the duration of a Project is longer than the duration of this Agreement, the continuation may be subject to EIT funding being available.

3.2 Termination

3.2.1. *Breach by KIC LE -Termination by the Recipient*

3.2.1.1. In the event that the KIC LE is in breach of its obligations under this Agreement, the Recipient may give formal notice to the KIC LE requiring that such breach will be remedied within 90 calendar days of this formal notice, unless such breach cannot be remedied.

If such breach is substantial and is not remedied within that period of 90 calendar days or, is not capable of remedy, the Recipient may decide to terminate the Agreement upon written notice.

3.2.1.2. The Recipient may terminate this Agreement with immediate effect through written notice to the KIC LE, if the KIC LE is subject to an event of Force Majeure, which prevents the KIC LE from correct performance of its obligations hereunder and such circumstances have lasted, or can reasonably be expected to last more than 120 calendar days.

3.2.2. *Breach by Recipient - Termination by the KIC LE*

3.2.2.1. In the event that the Recipient is in breach of its obligations under this Agreement, the KIC LE may give formal notice to the Recipient requiring that such breach will be remedied within 14 calendar days of this formal notice, unless such breach cannot be remedied.

If such breach is substantial and is not remedied within that period or, is not capable of remedy, the KIC LE may decide to declare the Recipient to be a defaulting Party and to decide on the consequences thereof which may include termination of this Agreement upon notice and other measures (see Article 3.3.2 of this Agreement). Such serious breaches are for example improper implementation of the Project(s), non-compliance with the call conditions, submission of false information or incomplete information, failure to provide required information, breach of ethics or security rules (if applicable).

3.2.2.2. The KIC LE may terminate this Agreement with immediate effect through written notice to the Recipient, if the Recipient is subject to an event of Force Majeure, which prevents the Recipient from correct performance of its obligations hereunder and such circumstances have lasted, or can reasonably be expected to last more than 120 calendar days.

3.2.2.3. The KIC LE may terminate this Agreement if the Recipient is in breach of any of its material obligations under any binding regulation or agreement with the KIC LE, including those stemming from its condition of partner of the KIC LE (if apply), always provided that such breach is duly notified to the Recipient, has not been cured and results in a termination due to breach in accordance with the applicable provisions for such termination. Following a default under this Agreement, the KIC LE may also terminate any other agreement it may have with the defaulting Recipient.

3.2.2.4. If the GA is terminated by the EIT or the KIC LE, the KIC LE shall have right to terminate this Agreement upon notice to the Recipient, subject to the provisions surviving the expiration of termination under Article 3.3.1 of this Agreement.

3.2.2.5. The KIC LE may at any time terminate this Agreement immediately upon notice if one of the following events occurs:

- a change to the legal, financial, technical, organisational or ownership situation of the Recipient is likely to substantially affect or delay the implementation of the Project(s) it is involved in or calls into question the decision to select the Project(s) (including changes linked to one of the exclusion grounds listed in the declaration of honour, signed by the time of the signature of this Agreement);
- the Recipient is subject to bankruptcy proceedings or similar (including insolvency, winding-up, administration by a liquidator or court, arrangement with creditors, suspension of business activities, etc.);
- the Recipient is in breach of social security or tax obligations;
- the Recipient (or person having powers of representation, decision-making or control, or person essential for the implementation of the projects) has been found guilty of grave professional misconduct;
- the Recipient (or person having powers of representation, decision-making or control, or person essential for the implementation of the projects) has committed fraud, corruption, or is involved in a criminal organisation, money laundering, terrorism related crimes (including terrorism financing), child labour or human trafficking or there are reasonable evidences supporting it;
- the Recipient (or person having powers of representation, decision-making or control, or person essential for the implementation of the projects) was created under a different jurisdiction with the intent to circumvent fiscal, social or other legal obligations in the country of origin (or created another entity with this purpose);
- the Recipient (or person having powers of representation, decision-making or control, or person essential for the implementation of the Projects) has committed substantial errors, irregularities or fraud.

3.3 Effects of termination

3.3.1. Survival of rights and obligations

After termination, the Recipient's obligations (in particular Articles 6.3 (Reporting), 10 (IPR), 11 (Communication, dissemination and visibility rules), 13 (Checks, reviews, audits and investigations), 16 (Liability), 17 (Non-disclosure of information), 19.7 (Applicable law) of this Agreement; and Articles 26 (Impact evaluation), 27 (Rejections), 28 (Grant reduction) and 42 (Assignment of claims) of the GA continue to apply.

Termination shall not affect any rights or obligations of the Parties incurred prior to the date of termination, unless otherwise stipulated herein or agreed between the Parties. This includes the obligation to provide all input, deliverables, and documents for the period that the Agreement was still in force and effect.

3.3.2. Measures towards defaulting Recipient

KIC LE shall have the right to stop or reorient the scope of the KAVA(s) in which the defaulting Recipient is involved. KIC LE shall also have the right to suspend any payment towards the defaulting Recipient and to request the defaulting Recipient to return the funds received (recovery or withdrawal of funds) without prejudice to its right to claim compensation for damages caused by Recipient's breach. Specific details of the process are laid down in the Implementation Handbook.

For the avoidance of doubt, KIC LE may decide to recover funds if and to the extent the Project implemented so far has not started or rendered any substantial innovation or other benefit, or in the situations referred to in Article 7.4.1 of this Agreement.

3.3.3. Termination report

The Recipient must – within 60 days from when termination takes effect – submit a termination report, for the open reporting period under the Project(s) until termination, containing an overview of the progress of the work, the financial statement, the explanation on the use of resources, and if applicable, the certificate on the financial statements to the KIC LE. Specific details of the process are laid down in the Implementation Handbook.

The KIC LE will calculate the amount that might be due to the Recipient on the basis of the report submitted and taking into account the costs incurred and contributions for KAVAs implemented before the end of work date (see Article 7 of this Agreement). Costs relating to contracts due for execution only after the end of works are not eligible.

If the KIC LE does not receive the termination report within the deadline, only costs and contributions which are included in an approved report by KIC LE will be taken into account (no costs/contributions if no periodic report was ever approved).

For the avoidance of doubt, after termination the Recipient shall also be obliged to provide further information, records and supporting documents in the context of checks, reviews, audits or investigations.

3.3.4. Other agreement(s)

For the avoidance of doubt, termination of this Agreement shall not automatically release the Parties from their obligations under other agreement(s) they have concluded, unless they have also been terminated.

Article 4: Project(s)

4.1 General Principles

The Recipient is fully responsible towards the KIC LE for implementing its tasks in the Project(s).

The Recipient must:

- a. implement this Agreement and the Project Agreements (that might be eventually added as an Annex to the Agreement) to the best of its abilities, in good faith and in accordance with all the obligations and terms and conditions it sets out.
- b. ensure that its employees or representatives hold enough and sufficient capacity to act on behalf of the Recipient to (i) operate in EIT UM's partners site platform and (ii) accept the inclusion of the Project Agreement(s) as an Annex to this Agreement. The inclusion of Project Agreement(s) as an Annex to this Agreement will bind the Recipient by the time the acceptance by the Recipient is produced at EIT UM's Partner's site.

- c. have the appropriate resources to implement the Project(s) under its own responsibility. [If the Recipient relies on its affiliated entities or other third parties (see Article 4.4 of this Agreement), the Recipient retains sole responsibility towards EIT, the KIC LE and the other Recipients involved in the Project(s). If the KIC LE expressly requires joint and several liability of affiliated entities they must sign the declaration set out in Annex 5 and may be held liable in case of enforced recoveries against their Recipients (see Article 22.2 and 22.4 of the GA).
- d. remain eligible under the Horizon Europe programme funding for the entire duration of this Agreement. Costs and contributions will be eligible only as long as the Recipient and the Projects are eligible.
- e. promptly notify to the KIC LE any significant information, fact, problem or delay likely to affect its participation in the Project(s), especially relating to the events mentioned in Article 3.2.5.5 of this Agreement.
- f. promptly provide all information reasonably required by the KIC LE for the implementation of the Projects (including mid-term reviews, if any) and the reporting of the costs.

4.2 Proper implementation of the Project(s)

The Recipient must implement the Project(s) as described in the relevant Project Plan and according to the Project Schedule of the Project Agreement.

Recipients involved in the same Project will regulate in their consortium agreements their operation and co-ordination, to ensure that the Project is implemented properly. The consortium agreements may include:

- a. the internal organisation of the consortium,
- b. financial and technical responsibilities,
- c. additional rules on rights and obligations related to background and results,
- d. settlement of internal disputes,
- e. liability, indemnification, and confidentiality arrangements between the consortium Recipients involved in the same Project.

4.3 Consequences of not properly implementing a Project

The Recipient acknowledges that the KIC LE, in accordance with the PA, must follow EIT's sound portfolio management principles and implement systemic, effective and reliable monitoring of progress towards KIC strategic objectives, allowing KIC LE to fast-track, re-orient or stop KIC activities.

In the event of an improper implementation of the Project by the Recipient in accordance with the Project Agreement, the KIC LE, at its own discretion and following the KIC LE's Implementation Handbook, may:

1. re-orient the scope of the Project,
2. reduce the amount of grant and/or
3. stop a Project pursuant to the Go / no Go process published in applicable KIC Projects Implementation Handbook.

Further details may be further developed and included in the Project Agreement.

4.4 Involvement of third parties (including affiliated entities, subcontractors)

4.4.1 The affiliated entities which will participate in a Project are further described in the Project Agreement.

For further involvement of third parties in a Project, the Recipient will have to comply with the applicable KIC Projects implementation rules and guidelines included in the Implementation Handbook.

4.4.2 Subcontracting

Subcontracting costs/purchase costs for the Projects (including related duties, taxes and charges, such as non-deductible or non-refundable value added tax (VAT)) are eligible, if they are calculated on the basis of the costs actually incurred, fulfil the general eligibility conditions and are awarded using the Recipient's usual purchasing practices — provided these ensure subcontracts/purchase costs with best value for money (or if appropriate the lowest price) and that there is no conflict of interests.

Recipients that are 'contracting authorities/entities' within the meaning of the EU Directives on public procurement must also comply with the applicable national law on public procurement. The tasks to be subcontracted, the estimated cost for each subcontract and the total estimated costs of subcontracting per Recipient must be set out in the Project Agreement.

4.4.3 The Recipient must ensure that its contractual obligations under Articles 4.2 (Proper implementation of the Project), 11 (Visibility rules), 12 (Information, record keeping), 14 (Conflict of interest), 17 (non-disclosure of information), 15 (Ethics), of this Agreement and any other specific rules for carrying out Project as described in the Agreement and the relevant Project Agreement, also apply to the involved subcontractors.

The Recipient must ensure that the KIC LE, the EIT, and/or the European Commission, the European Anti-Fraud Office (OLAF), European Public Prosecutor's Office (EPPO) and the European Court of Auditors (ECA), can exercise their rights also towards the involved third parties (see Article 13 of this Agreement).

Article 5: Project Contribution – KAVA

5.1 Project contribution

5.1.1. The KIC LE and the Recipient shall each make certain contributions to each Project. These contributions are set out in the Project Budget of the Project Agreement.

5.1.2. The Recipient shall receive a financial contribution by the KIC LE only for its tasks in the Project(s), carried out in accordance with this Agreement and the relevant Project Agreement.

5.1.3. The Recipient shall use the financial support transferred by the KIC LE only for the implementation and execution of the relevant Project as reflected in the Project Agreement.

5.2 Cost eligibility rules

For EIT funded Actions ("KAVAs"), the eligibility rules of Article 6 of the GA are hereby transposed in this Agreement. The eligibility rules are further described in the Annex 1 to this Agreement.

If the Recipient declares costs or contributions that are ineligible, they will be rejected.

The KIC LE shall be under no obligation to distribute EIT funding to the Recipient unless the eligibility rules of Article 6 of the GA are complied with and Recipient has fulfilled all its other obligations pertaining to the implementation of EIT funded KAVA's under this Agreement.

Article 6: Monitoring and reporting

6.1 General monitoring and reporting obligation

6.1.1. The Recipient acknowledges and agrees that the following standards for the monitoring are to be put in place:

- systematic monitoring and review of the Project(s) (e.g. staff management, procurement, financial management, quality control, risk management, distribution and provision of support to final recipients, outputs, activity, financial reports etc.), in the format and timing specified by the KIC LE;
- effective and reliable monitoring and reporting of the Project(s) (including information on indicators, EIT Impact Framework, progress towards financial sustainability, KIC partnership, legality and regularity of the expenditure claimed, etc.), in the format and timing specified by the KIC LE;
- provisions for re-orienting or stopping underperforming Project(s) (with regular 'go'/'no go' decision points, including a payment system linked to milestone achievements) and, for stopped activities, quarterly information of the KIC LE;
- a mechanism to evaluate high potential project outcomes and fast track them towards further investment and rapid development;
- ensure the legality and regularity of the expenditure claimed.

6.1.2. In order to ensure the standards as referred to above, the Recipient acknowledges and agrees that monitoring and reporting is of the essence for the KIC LE, this Agreement and the financial support provided by the KIC LE.

6.1.3. The Recipient shall:

- comply with any reporting policy and instructions issued by the KIC LE, in accordance with the timing and conditions it sets out as may be amended/modified by the KIC LE;
- comply with any and all other monitoring and reporting requirements, including any future requirements by the KIC LE and/or as may be established by the KIC LE, as the case may be pursuant to requirements of EIT;
- proactively report any developments which may seriously affect the Project(s) including the achievement of the overall Project target, any milestone thereunder and/or the purpose of the financial support immediately upon their respective occurrence.

6.2 Monitoring

The Parties agree to comply with the specific monitoring and evaluation principles as further detailed in the relevant Project Agreement(s) and in the Implementation Handbook available at KIC LE's website.

6.3 Reporting

Without prejudice to the generality of the foregoing, the Recipient shall comply with the reporting requirements as set out in the Project Agreement, if included therein.

Article 7: Financial provisions

7.1 Payment Schedule

7.1.1. Payment terms

The KIC LE will complete the relevant payments via instalments linked to milestones / deliverables / acceptance conditions and relevant documents in accordance with the in the Project Agreement(s) and the Implementation Handbook, available at KIC LE's website and subject to the availability of funds stemming from EIT.

7.2.2. Payment of the balance

The payment of the balance reimburses the remaining part of the eligible costs (in accordance with Article 5.2 of this Agreement) and contributions for the implementation of the Project(s).

The payment is subject to the approval of the final periodic report. Its approval does not imply recognition of compliance, authenticity, completeness or correctness of its content.

7.2 Eligibility for funding

The Recipient is eligible for any financial support from KIC LE, if all the following provisions are complied with on a continuous basis during the term of this Agreement:

- the relevant Project Agreement has been accepted;
- all relevant eligibility criteria under the Agreement and the Project Agreement are fulfilled;
- the Recipient is not in default under this Agreement, the Project Agreement or another relevant agreement;
- all cost reporting obligations and milestones are complied with up to and including the date of the assessment of the Recipient's eligibility;
- the KIC LE has received the relevant pre-financing, interim payment (if applicable) or payment of the balance from EIT.

7.3 Payments

Payment by the KIC LE to the Recipient hereunder, shall be made to the following bank account:

Name of the account holder: ANTALYA BÜYÜKŞEHİR BELEDİYESİ
Bank: Türkiye Vakıflar Bankası Türk Anonim Ortaklığı
IBAN: TR080001500158048022932070

or any other bank account details as may be provided by the Recipient to the KIC LE after the execution of this Agreement or any Project Agreement, which new details shall only be effective five working days after receipt by the KIC LE of written notice from Recipient in that respect.

Payments will be made from the KIC LE account. Any recoveries shall be made to KIC LE's bank account.

7.4 Recovery – Setoff

7.4.1. Recovery by KIC LE

In the event the Recipient did not use the financial support from KIC LE for the purpose of the Projects or not in accordance with the terms and conditions of this Agreement or the Project Agreement, it is under the obligation to return the unused or unjustified amounts within 30 calendar days upon notification from the KIC LE.

The KIC LE shall have the right to recover any undue financial support of KIC LE, if the eligibility rules of Article 6 of the GA are not complied with, or if the Recipient has not fulfilled all its other obligations pertaining to the implementation of EIT funded KAVA's under this Agreement.

7.4.2. Setoff

KIC LE shall have the right to setoff payments for any present or future claims KIC LE may have against the Recipient.

Article 8: Financial sustainability

The Recipient acknowledges that KIC LE has a financial sustainability strategy including diversified revenue streams.

Therefore, the Recipient shall make their best efforts to ensure that at least a project partner (the "commercialisation partner") signs a financial sustainability agreement with the KIC LE if required in the relevant Project Agreement(s).

The commercialisation partner(s) is responsible and liable for the execution of the financial sustainability agreement. The Recipient will facilitate the execution of the financial sustainability agreement by the commercialisation partner according to the role and functions agreed in the relevant Project Agreement.

Article 9: Responsibility

9.1. Either Party shall comply with its obligations towards the other Party under this Agreement and its Annexes, and the Project Agreement(s).

9.2. The Recipient has individual financial responsibility for its own financial obligations under this Agreement and the co-funding agreed upon ("**financial responsibility**").

9.3. The Recipient acknowledges the joint and several responsibility for the technical implementation of each Project the Recipient is involved in ("**technical responsibility**"), therefore it applies at the level of each Project, even though consortium partners may agree to differently distribute the responsibility amongst the consortium partners in their consortium agreements.

The Recipients involved in the same Project are jointly and severally **responsible** for the technical implementation of the relevant Project. If a Recipient fails to implement its part of the Project or in case it withdraws from the Project, the other Recipients in that Project become responsible for implementing this part or completing the Project, without being entitled to any additional funding at Project level for doing so, unless the KIC LE expressly relieves them of this obligation or unless the failure to implement the part of the Project is due to gross negligence of the KIC LE. For the avoidance of doubt, the remaining budget share of the failing or withdrawing Recipient may be reallocated to the

remaining Recipients of that Project to enable them to complete the failing or withdrawing Recipient's part of the Project.

For the avoidance of doubt, when executing coordination or monitoring tasks as required by the PA or the GA, for example, coordinating of reporting (i.a. final reporting, progress monitoring, ...), the KIC LE is not deemed to be jointly and severally **responsible** for the technical implementation of the Projects.

Article 10: Intellectual Property Rules

Under this Agreement, the (i) Horizon Europe Regulation and EIT regulatory IP rules as defined in GA, (ii) the IPR rules as provided for in Section 1 of Annex 3 to this Agreement, (iii) the KIC LE's IP Policy, as available on KIC LE's website, apply.

Further specific IPR rules for the Project(s) may be set out in the relevant Project Agreement or other agreements pertaining to IP aspects.

Moreover, the IPR provisions of Section 1 of Annex 3 to this Agreement and the KIC LE's IP Policy may be supplemented further in a consortium agreement with the Recipient and other parties involved.

Article 11: Communication, dissemination and visibility rules

Under this Agreement and the Project Agreements, the Communication, dissemination and visibility rules as provided for in Section 2 of Annex 3 to this Agreement apply.

This obligation shall last during the execution of the Project and for a period of one (1) year from the end of the GA under which the financial support has been awarded to the Recipient.

Article 12: Information obligations – record keeping

12.1 General information obligations

12.1.1. Information requests

The Recipient must provide — during the Project(s) or afterwards — any information requested, including Sensitive Information, if necessary, in order to verify eligibility of the costs or contributions declared, proper implementation of the Project(s) and compliance with the other obligations under this Agreement. The information provided must be accurate, precise and complete and in the format requested, including electronic format.

12.1.2. Participant Register data updates

The Recipient must keep — at all times, during the Project(s) or afterwards — their information stored in the Portal Participant Register up to date, in particular, their name, address, legal representatives, legal form and organization.

12.1.3. Information about events and circumstances which impact the Project

The Recipient must immediately inform the KIC LE of any of the following:

(a) events which are likely to affect or delay the implementation of the Project(s) or affect the EU's financial interests, in particular changes in their legal, financial, technical, organisational or ownership situation (including changes linked to one of the exclusion grounds listed in the declaration of honour signed before the signature of this Agreement)

(b) circumstances affecting: (i) the decision to select the Project(s) or (ii) compliance with requirements under the Agreement.

12.2 Record keeping

12.2.1. Keeping records and supporting documents

The Recipient must — at least until the time-limit set out in the Project Agreement(s) — keep records and other supporting documents to prove the proper implementation of the Project in line with the accepted standards in the respective field (if any).

Further details are set out in Section 3 of Annex 3 to this Agreement.

Article 13: Checks, reviews, audits and investigations

The Recipient acknowledges and agrees that enabling checks, reviews, audits and investigations is of the essence for the KIC system. As a consequence thereof, the Recipient shall allow and support any checks, reviews, audits and investigations during the implementation of the Project(s) and afterwards, by the KIC LE, the EIT, and/or the European Commission, the European Anti-Fraud Office (OLAF), European Public Prosecutor's Office (EPPO) and the European Court of Auditors (ECA), deemed necessary by the foregoing in their reasonable discretion to satisfy themselves of the compliance with the obligations under the Agreement, including the proper use of the EIT funding.

Further details are set out in Section 4 of Annex 3 to this Agreement.

Article 14: Conflict of interest

14.1 The Recipient acknowledges and agrees:

- to take all measures to prevent any situation where the impartial and objective implementation of the Agreement could be compromised for reasons involving family, emotional life, political or national affinity, economic interest or any other direct or indirect interest ('conflict of interests').
- to avoid any conflict of interest in the purchase of services and goods in pursuit of the Project(s).

They must formally notify the KIC LE without delay of any situation constituting or likely to lead to a conflict of interests and immediately take all the necessary steps to rectify this situation.

The KIC LE may verify that the measures taken are appropriate and may require additional measures to be taken by a specified deadline.

14.2 The Recipient acknowledges and agrees to comply with the principles of transparency, non-discrimination and sound financial management.

Article 15: Ethics and values

The projects must be carried out in line with the ethics and values requirements further described in Section 5 of Annex 3 to this Agreement.

Article 16: Liability towards each other

16.1 Limitations of contractual liability

The Parties shall take all the necessary steps to limit or mitigate any damage.

No Party shall be responsible to the other Party for any indirect or consequential loss or similar damage such as, but not limited to, loss of profit, loss of revenue or loss of contracts, provided such damage was not caused by a wilful act, gross negligence or by a breach of confidentiality.

The terms of this Agreement shall not be construed to amend or limit either Party's statutory liability.

16.2 Damage caused to third parties

Each Party shall be solely liable for any loss, damage or injury to third parties resulting from the performance of the said Party's obligations by it or on its behalf under this Agreement.

16.3 Hold harmless

The Recipient shall hold the KIC LE and its respective assigns and employees, officers and directors harmless from and against all losses, costs, liabilities, claims, damages and expenses, resulting from or relating to or arising out of the breach or default in the performance of any obligation on the Recipient's part under this Agreement through a legal action, including any counterclaim, that has proceeded to final judgment by a court of competent jurisdiction, in either case to the extent it determined a breach or default by the Recipient in the performance of this Agreement, provided it is not caused by the KIC LE's wilful act or gross negligence. The Recipient will be entitled to make observations towards the KIC LE, regarding the Recipient's obligation to hold the KIC LE harmless and the KIC LE shall reasonably consider such observations by the Recipient. The KIC LE shall take into account the reasonable requests of the Recipient with regard to the defence and the settlement of such claims, including the selection of counsels, and it is understood that KIC LE shall not settle any claim without the consent of the the Recipient.

16.4 Force Majeure

No Party shall be considered to be in breach of the Agreement if it is prevented from fulfilling its obligations under the Agreement by Force Majeure.

Each Party will notify the other Party of any Force Majeure without undue delay.

Article 17: Confidentiality

The Parties must keep confidential any data, documents or other material (in any form) that is identified as sensitive in writing, or when disclosed orally has been identified as confidential at the

time of disclosure and has been confirmed and designated in writing within 15 calendar days from oral disclosure at the latest as confidential information by the disclosing Party, is "Sensitive Information". Unless otherwise agreed between the Parties, they may use Sensitive Information only to implement the Agreement.

The Parties may disclose Sensitive Information to its personnel or other participants in the same Projects only if they:

- (a) need to know it in order to implement the Agreement and
- (b) are bound by an obligation of confidentiality.

It may moreover disclose Sensitive Information to third parties, if:

- (a) this is necessary to implement the Agreement or safeguard the EU financial interests and
- (b) the receiving parties of the information are bound by an obligation of confidentiality.

The confidentiality obligations no longer apply if:

- (a) the disclosing Party agrees to release the other Party
- (b) the information becomes publicly available, without breaching any confidentiality obligation
- (c) the disclosure of the Sensitive Information is required or permitted by EU, international or national law.
- (d) A time period of 5 years after the disclosure of the Sensitive Information has passed, unless otherwise agreed upon between the Parties
- (e) The Sensitive Information is subsequently independently developed by or on behalf of the receiving Party without use of the disclosing Party's Sensitive Information.

If and when the confidentiality obligations no longer apply, the receiving party of the information undertakes to return to the disclosing Party, or to destroy, on request all Sensitive Information that has been disclosed to the receiving parties including all copies thereof and to delete all information stored in a machine readable form to the extent practically possible. The receiving parties may keep a copy to the extent it is required to keep, archive or store such Sensitive Information because of compliance with applicable laws and regulations or for the proof of on-going obligations provided that the receiving party comply with the confidentiality obligations herein contained with respect to such copy.

If either Party becomes aware that it will be required, or is likely to be required, to disclose Sensitive Information in order to comply with applicable laws or regulations or with a court or administrative order, it shall, to the extent it is lawfully able to do so, prior to any such disclosure

- notify the disclosing Party, and
- comply with the disclosing Party's reasonable instructions to protect the confidentiality of the information.

Article 18: Miscellaneous

18.1 Inconsistencies and severability

Should any provision of this Agreement become invalid, illegal or unenforceable, it shall not affect the validity of the remaining provisions of this Agreement. In such a case, the Parties shall be entitled to request that a valid and practicable provision be negotiated which fulfils the purpose of the original provision.

18.2 No representation, partnership or agency

No Party shall be entitled to act or to make legally binding declarations on behalf of the other Party.

Nothing in this Agreement shall be deemed to constitute a joint venture, agency, partnership, interest grouping or any other kind of formal business grouping or entity between the Parties.

18.3 Notices and other communication

Any notice to be given under this Agreement shall be in writing to the addresses and recipients as listed below.

Formal notices:

If it is required in this Agreement that a formal notice, consent or approval shall be given, such notice shall be signed by a Party's Authorised Representative(s) and shall either be served personally or sent by mail with recorded delivery or e-mail with receipt acknowledgement.

Other communication:

Other communication between the Parties may also be affected by other means such as e-mail with acknowledgement of receipt, which fulfils the conditions of written form.

Any change of persons or contact details shall be notified immediately by the respective Party to the other Party.

18.4 Assignment and amendments

No rights or obligations of the Parties arising from this Agreement may be assigned or transferred, in whole or in part, to any third party without the other Party's prior formal approval.

Amendments and modifications to the text of this Agreement require a separate written agreement to be signed by Authorized Representatives of both Parties.

18.5 Language

This Agreement is drawn up in English, which language shall govern all documents, notices, meetings, arbitral proceedings and processes relative thereto.

18.6 Mandatory national law

Nothing in this Agreement shall be deemed to require a Party to breach any mandatory statutory law under which the Party is operating.

18.7 Applicable law

This Agreement shall be construed in accordance with and governed by the laws of Belgium.

18.8 Settlement of disputes

The Parties shall endeavour to settle their disputes amicably.

All disputes arising out of or in connection with this Agreement, which cannot be solved amicably, shall be finally settled before the courts of Brussels.

18.9 Data Protection

The Recipient ensures that any processing of personal data shall be performed in accordance with Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 on the protection of natural persons with regard to the processing of personal data and on the free movement of such data, and repealing Directive 95/46/EC (General Data Protection Regulation).

The collected personal data will be used solely for the implementation, follow-up, reporting and management of this Agreement by the Recipient and its subsidiaries and for dissemination of information and communication purposes foreseen for this Agreement. Data subjects have the right to access, rectify or delete their personal data. Data subjects can also object to its processing. To exercise these rights, data subjects can contact Recipient at info@eiturbanmobility.eu.

Article 19: Annexes

The following annexes are attached to this Agreement:

Annex 1 – Cost eligibility rules

Annex 2 – Project Agreement(s) (as added during the enforcement of the Agreement)

Annex 3 – General provisions of the Grant Agreement

Annex 4 – Declaration of honour

Annex 5 – Declaration on joint and several liability of affiliated entities

In case of conflict between the provisions of this Agreement and its Annexes, the provisions of this Agreement will prevail.

Signatures

The Parties have caused this Agreement to be duly signed by the undersigned Authorised Representatives.

The signature of a Party via a scanned or digitized image of a handwritten signature (e.g. scan in PDF format) or an electronic signature (e.g. via DocuSign, Signaturit, AdobeSign), shall have the same force and effect as an original handwritten signature for the purposes of validity, enforceability and admissibility. Each Party receives a fully executed copy of the Agreement. Delivery of the fully executed copy via e-mail or via an electronic signature system shall have the same force and effect as delivery of an original hard copy.

For KIC LE

Name:

Title :

In :

On :

Signature _____

Recipient:

Name:

Title:

In:

On:

Signature: Zeynep Tuğçe Çiftçibaşı Güç
Zeynep Tuğçe Çiftçibaşı Güç (Aug 4, 2023 10:21 GMT+3)

Email: disiliskiler@antalya.bel.tr

Title: Head of International Affairs

Signature _____

Annex 1 – Cost eligibility rules**ARTICLE 6 — ELIGIBLE AND INELIGIBLE COSTS AND CONTRIBUTIONS**

In order to be eligible, costs and contributions must meet the eligibility conditions set out in this Article.

6.1 General eligibility conditions

The general eligibility conditions are the following:

(a) for actual costs:

- (i) they must be actually incurred by the beneficiary
- (ii) they must be incurred in the period set out in Article 4 (with the exception of costs relating to the submission of the final periodic report, which may be incurred afterwards; see Article 21)
- (iii) they must be declared under one of the budget categories set out in Article 6.2 and Annex 2
- (iv) they must be incurred in connection with the action as described in Annex 1 and necessary for its implementation
- (v) they must be identifiable and verifiable, in particular recorded in the beneficiary's accounts in accordance with the accounting standards applicable in the country where the beneficiary is established and with the beneficiary's usual cost accounting practices
- (vi) they must comply with the applicable national law on taxes, labour and social security and
- (vii) they must be reasonable, justified and must comply with the principle of sound financial management, in particular regarding economy and efficiency

(b) for unit costs or contributions (if any):

- (i) they must be declared under one of the budget categories set out in Article 6.2 and Annex 2
- (ii) the units must:

- be actually used or produced by the beneficiary in the period set out in Article 4 (with the exception of units relating to the submission of the final periodic report, which may be used or produced afterwards; see Article 21)
 - be necessary for the implementation of the action and
- (iii) the number of units must be identifiable and verifiable, in particular supported by records and documentation (see Article 20)
- (c) for flat-rate costs or contributions (if any):
- (i) they must be declared under one of the budget categories set out in Article 6.2 and Annex 2
 - (ii) the costs or contributions to which the flat-rate is applied must:
 - be eligible
 - relate to the period set out in Article 4 (with the exception of costs or contributions relating to the submission of the final periodic report, which may be incurred afterwards; see Article 21)
- (d) for lump sum costs or contributions (if any):
- (i) they must be declared under one of the budget categories set out in Article 6.2 and Annex 2
 - (ii) the work must be properly implemented by the beneficiary in accordance with Annex 1
 - (iii) the deliverables/outputs must be achieved in the period set out in Article 4 (with the exception of deliverables/outputs relating to the submission of the final periodic report, which may be achieved afterwards; see Article 21)
- (e) for unit, flat-rate or lump sum costs or contributions according to usual cost accounting practices (if any):
- (i) they must fulfil the general eligibility conditions for the type of cost concerned
 - (ii) the cost accounting practices must be applied in a consistent manner, based on objective criteria, regardless of the source of funding
- (f) for financing not linked to costs (if any): the results must be achieved or the conditions must be fulfilled as described in Annex 1.

In addition, for direct cost categories (e.g. personnel, travel & subsistence, subcontracting and other direct costs) only costs that are *directly* linked to the action implementation and can therefore be attributed to it *directly* are eligible. They must not include any *indirect* costs (i.e. costs that are only indirectly linked to the action, e.g. via cost drivers).

In-kind contributions provided by third parties free of charge may be declared as eligible direct costs by the beneficiaries which use them (under the same conditions as if they were their own, provided that they concern only direct costs and that the third parties and their in-kind contributions are set out in Annex 1 (or approved ex post in the periodic report, if their use does not entail changes to the Agreement which would call into question the decision awarding the grant or breach the principle of equal treatment of applicants; 'simplified approval procedure').

6.2 Specific eligibility conditions for each budget category

For each budget category, the specific eligibility conditions are as follows:

Direct costs

A. Personnel costs

A.1 Costs for employees (or equivalent) are eligible as personnel costs if they fulfil the general eligibility conditions and are related to personnel working for the beneficiary under an employment contract (or equivalent appointing act) and assigned to the action.

They must be limited to salaries (including net payments during parental leave), social security contributions, taxes and other costs linked to the remuneration, if they arise from national law or the employment contract (or equivalent appointing act) and be calculated on the basis of the costs actually incurred, in accordance with the following method:

{daily rate for the person
multiplied by
number of day-equivalents worked on the action (rounded up or down to the nearest half-day)}.

The daily rate must be calculated as:

{annual personnel costs for the person
divided by
215}

The number of day-equivalents declared for a person must be identifiable and verifiable (see Article 20).

The actual time spent on parental leave by a person assigned to the action may be deducted from the 215 days indicated in the above formula.

The total number of day-equivalents declared in EU grants, for a person for a year, cannot be higher than 215 minus time spent on parental leave (if any).

For personnel which receives supplementary payments for work in projects (project-based remuneration), the personnel costs must be calculated at a rate which:

- corresponds to the actual remuneration costs paid by the beneficiary for the time worked by the person in the action over the reporting period

- does not exceed the remuneration costs paid by the beneficiary for work in similar projects funded by national schemes ('national projects reference')
- is defined based on objective criteria allowing to determine the amount to which the person is entitled

and

- reflects the usual practice of the beneficiary to pay consistently bonuses or supplementary payments for work in projects funded by national schemes.

The national projects reference is the remuneration defined in national law, collective labour agreement or written internal rules of the beneficiary applicable to work in projects funded by national schemes.

If there is no such national law, collective labour agreement or written internal rules or if the project-based remuneration is not based on objective criteria, the national project reference will be the average remuneration of the person in the last full calendar year covered by the reporting period, excluding remuneration paid for work in EU actions.

If the beneficiary uses average personnel costs (unit cost according to usual cost accounting practices), the personnel costs must fulfil the general eligibility conditions for such unit costs and the daily rate must be calculated:

- using the actual personnel costs recorded in the beneficiary's accounts and excluding any costs which are ineligible or already included in other budget categories; the actual personnel costs may be adjusted on the basis of budgeted or estimated elements, if they are relevant for calculating the personnel costs, reasonable and correspond to objective and verifiable information

and

- according to usual cost accounting practices which are applied in a consistent manner, based on objective criteria, regardless of the source of funding.

A.2 and A.3 Costs for natural persons working under a direct contract other than an employment contract and costs for seconded persons by a third party against payment are also eligible as personnel costs, if they are assigned to the action, fulfil the general eligibility conditions and:

- (a) work under conditions similar to those of an employee (in particular regarding the way the work is organised, the tasks that are performed and the premises where they are performed) and
- (b) the result of the work belongs to the beneficiary (unless agreed otherwise).

They must be calculated on the basis of a rate which corresponds to the costs actually incurred for the direct contract or secondment and must not be significantly different from those for personnel performing similar tasks under an employment contract with the beneficiary.

A.4 The work of SME owners for the action (i.e. owners of beneficiaries that are small and medium-sized enterprises⁷ not receiving a salary) or natural person beneficiaries (i.e. beneficiaries that are natural persons not receiving a salary) may be declared as personnel costs, if they fulfil the general eligibility conditions and are calculated as unit costs in accordance with the method set out in Annex 2a.

B. Subcontracting costs

Subcontracting costs for the action (including related duties, taxes and charges, such as non-deductible or non-refundable value added tax (VAT)) are eligible, if they are calculated on the basis of the costs actually incurred, fulfil the general eligibility conditions and are awarded using the beneficiary's usual purchasing practices — provided these ensure subcontracts with best value for money (or if appropriate the lowest price) and that there is no conflict of interests (see Article 12).

Beneficiaries that are 'contracting authorities/entities' within the meaning of the EU Directives on public procurement must also comply with the applicable national law on public procurement.

Subcontracting may cover only a limited part of the action.

The tasks to be subcontracted and the estimated cost for each subcontract must be set out in Annex 1 and the total estimated costs of subcontracting per beneficiary must be set out in Annex 2 (or may be approved ex post in the periodic report, if the use of subcontracting does not entail changes to the Agreement which would call into question the decision awarding the grant or breach the principle of equal treatment of applicants; 'simplified approval procedure').

C. Purchase costs

Purchase costs for the action (including related duties, taxes and charges, such as non-deductible or non-refundable value added tax (VAT)) are eligible if they fulfil the general eligibility conditions and are bought using the beneficiary's usual purchasing practices — provided these ensure purchases with best value for money (or if appropriate the lowest price) and that there is no conflict of interests (see Article 12).

⁷ For the definition, see Commission Recommendation 2003/361/EC: micro, small or medium-sized enterprise (SME) are enterprises

- engaged in an economic activity, irrespective of their legal form (including, in particular, self-employed persons and family businesses engaged in craft or other activities, and partnerships or associations regularly engaged in an economic activity) and
- employing fewer than 250 persons (expressed in 'annual working units' as defined in Article 5 of the Recommendation) and which have an annual turnover not exceeding EUR 50 million, and/or an annual balance sheet total not exceeding EUR 43 million.

Beneficiaries that are 'contracting authorities/entities' within the meaning of the EU Directives on public procurement must also comply with the applicable national law on public procurement.

C.1 Travel and subsistence

Purchases for travel, accommodation and subsistence must be calculated as follows:

- travel: on the basis of the costs actually incurred and in line with the beneficiary's usual practices on travel
- accommodation: on the basis of the costs actually incurred and in line with the beneficiary's usual practices on travel
- subsistence: on the basis of the costs actually incurred and in line with the beneficiary's usual practices on travel.

C.2 Equipment

Purchases of equipment, infrastructure or other assets used for the action must be declared as depreciation costs, calculated on the basis of the costs actually incurred and written off in accordance with international accounting standards and the beneficiary's usual accounting practices.

Only the portion of the costs that corresponds to the rate of actual use for the action during the action duration can be taken into account.

Costs for renting or leasing equipment, infrastructure or other assets are also eligible, if they do not exceed the depreciation costs of similar equipment, infrastructure or assets and do not include any financing fees.

Moreover, if the following conditions are met

- equipment, infrastructure or other assets are purchased specifically for the action (or developed as part of the action tasks),
- purchase costs are claimed by the coordinator or co-location centres (CLCs)⁸ for the area "management and coordination of the KIC", for KIC added value activities⁹ identified in Annex 1,
- the purpose of incurring the relevant costs is limited to the set-up and development of the coordinator and CLCs,

⁸ As defined in Article 2(3) of the EIT Regulation, a 'co-location centre' means a physical hub, established in an open and transparent manner, which promotes links between and active collaboration among knowledge triangle actors and acts as a focal point for knowledge exchange and through which the KICs' partners are able to access facilities and the expertise needed to pursue their common objectives.

⁹ As defined in Article 2(13) of the EIT Regulation, 'KIC added-value activities' means activities carried out by partner organisations in accordance with the KIC business plan, contributing to the integration of the knowledge triangle of higher education, research and innovation, including the establishment, administrative and coordination activities of the KICs, and contributing to the overall objectives of the EIT.

- the relevant costs are claimed up to EUR 750 000 per KIC Business Plan per year,

costs may exceptionally be declared as full capitalised costs, if they fulfil the cost eligibility conditions applicable to their respective cost categories.

'Capitalised costs' means:

- costs incurred in the purchase or for the development of the equipment, infrastructure or other assets and
- which are recorded under a fixed asset account of the beneficiary in compliance with international accounting standards and the beneficiary's usual cost accounting practices.

If such equipment, infrastructure or other assets are rented or leased, full costs for renting or leasing are eligible, if they do not exceed the depreciation costs of similar equipment, infrastructure or assets and do not include any financing fees.

C.3 Other goods, works and services

Purchases of other goods, works and services must be calculated on the basis of the costs actually incurred.

Such goods, works and services include, for instance, consumables and supplies, promotion, dissemination, protection of results, translations, publications, certificates and financial guarantees, if required under the Agreement.

D. Other cost categories

D.1 Financial support to third parties

Costs for providing financial support to third parties (in the form of grants, prizes or similar forms of support; if any) are eligible, if and as declared eligible in the call conditions, if they fulfil the general eligibility conditions, are calculated on the basis of the costs actually incurred and the support is implemented in accordance with the conditions set out in Annex 1.

These conditions must ensure objective and transparent selection procedures and include at least the following:

- (a) for grants (or similar):
 - (i) the maximum amount of financial support for each third party ('recipient'); this amount may not exceed the amount set out in the Data Sheet (see Point 3) or otherwise agreed with the granting authority
 - (ii) the criteria for calculating the exact amount of the financial support
 - (iii) the different types of activity that qualify for financial support, on the basis of a closed list
 - (iv) the persons or categories of persons that will be supported and

- (v) the criteria and procedures for giving financial support
- (b) for prizes (or similar):
- (i) the eligibility and award criteria
 - (ii) the amount of the prize and
 - (iii) the payment arrangements.

This cost will not be taken into account for the indirect cost flat-rate./

D.2 Internally invoiced goods and services

Costs for internally invoiced goods and services directly used for the action may be declared as unit cost according to usual cost accounting practices, if and as declared eligible in the call conditions, if they fulfil the general eligibility conditions for such unit costs and the amount per unit is calculated:

- using the actual costs for the good or service recorded in the beneficiary's accounts, attributed either by direct measurement or on the basis of cost drivers, and excluding any cost which are ineligible or already included in other budget categories; the actual costs may be adjusted on the basis of budgeted or estimated elements, if they are relevant for calculating the costs, reasonable and correspond to objective and verifiable information
- and
- according to usual cost accounting practices which are applied in a consistent manner, based on objective criteria, regardless of the source of funding.

'Internally invoiced goods and services' means goods or services which are provided within the beneficiary's organisation directly for the action and which the beneficiary values on the basis of its usual cost accounting practices.

This cost will not be taken into account for the indirect cost flat-rate.

Indirect costs

E. Indirect costs

Indirect costs will be reimbursed at the flat-rate of 25% of the eligible direct costs (categories A-D, except volunteers costs, subcontracting costs, financial support to third parties and exempted specific cost categories, if any). In case of the KIC LE and CLCs, as they were established with the objective of managing and coordinating the KIC partnership, all costs incurred can be directly linked to the implementation of the action and shall be declared as direct costs in the appropriate cost category instead of applying flat-rate indirect costs.

Contributions

6.3 Ineligible costs and contributions

The following costs or contributions are ineligible:

- (a) costs or contributions that do not comply with the conditions set out above (Article 6.1 and 6.2), in particular:
- (i) costs related to return on capital and dividends paid by a beneficiary
 - (ii) debt and debt service charges
 - (iii) provisions for future losses or debts
 - (iv) interest owed
 - (v) currency exchange losses
 - (vi) bank costs charged by the beneficiary's bank for transfers from the granting authority
 - (vii) excessive or reckless expenditure
 - (viii) deductible or refundable VAT (including VAT paid by public bodies acting as public authority)
 - (ix) costs incurred or contributions for activities implemented during grant agreement suspension (see Article 32)
 - (x) in-kind contributions by third parties: not applicable
- (b) costs or contributions declared under other EU grants (or grants awarded by an EU Member State, non-EU country or other body implementing the EU budget), except for the following cases:
- (i) Synergy actions: not applicable
 - (ii) if the action grant is combined with an operating grant¹⁰ running during the same period and the beneficiary can demonstrate that the operating grant does not cover any (direct or indirect) costs of the action grant
- (c) costs or contributions for staff of a national (or regional/local) administration, for activities that are part of the administration's normal activities (i.e. not undertaken only because of the grant)
- (d) costs or contributions (especially travel and subsistence) for staff or representatives of EU institutions, bodies or agencies
- (e) other:
- (i) costs or contributions for activities that do not take place in the eligible countries or target countries set out in the call conditions — unless approved by the granting authority

¹⁰ For the definition, see Article 180(2)(b) EU Financial Regulation 2018/1046: 'operating grant' means an EU grant to finance "the functioning of a body which has an objective forming part of and supporting an EU policy".

- (ii) costs or contributions declared specifically ineligible in the call conditions.

6.4 Consequences of non-compliance

If a beneficiary declares costs or contributions that are ineligible, they will be rejected (see Article 27).

This may also lead to other measures described in Chapter 5.

Annex 2 - Project Agreement(s)

[the Project Agreements will be attached hereto.]

Annex 3 – General provisions of the Grant Agreement

Annex 3 - Section 1: Intellectual Property Rights rules

1.1 General

Further to Article 10 of the Agreement, the Recipients involved in the same Project may supplement the provisions of Article 1.2 of this Section 1 of this Annex 3 and the IP Policy in a consortium agreement and set specific IPR rules for the Project(s).

1.2. IPR rules

1.2.1. Definitions

Under this Article 1.2.1 of Section 1 and Article 2.2. of Section 2 of this Annex 3, the following definitions apply.

“Access rights” shall mean the rights to use results or background (including licenses).

“Background” shall mean any data, know-how or information — whatever its form or nature (tangible or intangible), including any rights such as intellectual property rights — that is (i) held by the Recipients before they acceded to the Agreement and (ii) needed to implement the Project or exploit the results. If Background is subject to rights of a third party, the Recipient concerned must ensure that it is able to comply with its obligations under the Agreement or financial sustainability agreements (if apply).

“Dissemination” shall mean the public disclosure of the results by appropriate means, other than resulting from protecting or exploiting the results, including by scientific publications in any medium.

“Exploitation” shall mean the use of results in further research and innovation activities other than those covered by the Project concerned, including among other things, commercial exploitation such as developing, creating, manufacturing and marketing a product or process, creating and providing a service, or in standardisation activities.

“Fair and reasonable conditions” shall mean appropriate conditions, including possible financial terms or royalty-free conditions, taking into account the specific circumstances of the request for access, for example the actual or potential value of the results or background to which access is requested and/or the scope, duration or other characteristics of the exploitation envisaged.

“FAIR principles” shall mean ‘findability’, ‘accessibility’, ‘interoperability’ and ‘reusability’.

“Open access” shall mean online access to research outputs provided free of charge to the end-user.

“Open science” shall mean an approach to the scientific process based on open cooperative work, tools and diffusing knowledge.

“Research data management” shall mean the process within the research lifecycle that includes the organisation, storage, preservation, security, quality assurance, allocation of persistent identifiers (PIDs) and rules and procedures for sharing of data including licensing.

“Research outputs” shall mean results to which access can be given in the form of scientific publications, data or other engineered results and processes such as software, algorithms, protocols, models, workflows and electronic notebooks.

1.2.2. Scope of the obligations

For this section, references to ‘Recipient’ do not include affiliated entities (if any).

1.2.3. Agreement on background — Background free from restrictions

The Recipient together with the other Recipients involved in the same Project must identify in a written agreement the background as needed for implementing the Project or for exploiting its results.

1.2.4. Ownership of results

Results are owned by the Recipient that generates them. However, two or more Recipients own results jointly if they have jointly generated them and - it is not possible to:

- establish the respective contribution of each Recipient, or
- separate them for the purpose of applying for, obtaining or maintaining their protection.

The joint owners must agree — in writing — on the allocation and terms of exercise of their joint ownership (‘joint ownership agreement’), including, among others: (i) the specific conditions related to IPR Protection, (ii) the costs of IPR protection, and (iii) the potential sharing of the revenues to ensure compliance with their obligations under the Agreement.

Unless otherwise agreed in the joint ownership agreement or consortium agreement, each joint owner may grant non-exclusive licences to third parties to exploit the jointly-owned results (without any right to sub-license), if the other joint owners are given:

- at least 45 days advance notice and
- fair and reasonable compensation.

The joint owners may agree — in writing — to apply another regime than joint ownership. If third parties (including employees and other personnel) may claim rights to the results, the Recipient must ensure that those rights can be exercised in a manner compatible with its obligations under the Agreement. The Recipient must indicate the owner(s) of the results (results ownership list) in the final periodic report.

1.2.5. Protection of results

The Recipient must adequately protect its results before, during and after the Financial Support Agreement — for an appropriate period and with appropriate territorial coverage — if protection is possible and justified, taking into account all relevant considerations, including the prospects for commercial exploitation, the legitimate interests of the other Recipients in the same Project and any other legitimate interests.

1.2.6. Exploitation of results

The Recipient must — up to four years after the end of the Project — use its best efforts to exploit its results directly or to have them exploited indirectly by another entity, in particular through transfer or licensing. If, despite the Recipient’s best efforts, the results are not exploited within one year after the end of the Project, the Recipient must (unless otherwise agreed in writing with the KIC LE) use the Horizon Results Platform to find interested parties to exploit the results. If results are incorporated in

a standard, the Recipient must (unless otherwise agreed with the KIC LE or unless it is impossible) ask the standardisation body to include the funding statement (see Article 2.3.1. of Section 2 of this Annex 3) in (information related to) the standard.

1.2.7. Transfer and licensing of results

1.2.7.1. Transfer of ownership

The Recipient may transfer ownership of its results, provided this does not affect compliance with its obligations under the Agreement. The Recipient must ensure that its obligations under the Agreement regarding its results are passed on to the new owner and that this new owner has the obligation to pass them on in any subsequent transfer. Moreover, it must inform the other Recipients involved in the same Project with access rights of the transfer at least 45 days in advance (or less if agreed in writing), unless agreed otherwise in writing for specifically identified third parties including affiliated entities or unless impossible under the applicable law. This notification must include sufficient information on the new owner to enable the other Recipients involved in the same Project to assess the effects on their access rights. The Recipients involved in the same Project may object within 30 days of receiving notification (or less if agreed in writing), if they can show that the transfer would adversely affect their access rights. In this case, the transfer may not take place until agreement has been reached between the Recipients concerned.

1.2.7.2. Granting licences

The Recipient may grant licences to its results (or otherwise give the right to exploit them), including on an exclusive basis, provided this does not affect compliance with their obligations. Exclusive licences for results may be granted only if all the other Recipients involved in the same Project concerned have waived their access rights.

1.2.8. Access rights to results and background

1.2.8.1. Exercise of access rights — Waiving of access rights — No sub-licensing

Requests to exercise access rights and the waiver of access rights must be in writing. Unless agreed otherwise in writing with the Recipient granting access, access rights do not include the right to sub-license. If a Recipient is no longer involved in the Project, this does not affect its obligations to grant access. If the Recipient defaults on its obligations, the other Recipients involved in the same Project may agree that that Recipient no longer has access rights

1.2.8.2. Access rights for implementing the action

The Recipient must grant to the other Recipients involved in the same Project access — on a royalty-free basis — to background needed to implement its own tasks under the Project, unless the Recipient that holds the background has — before acceding to the Project Agreement —:

- informed the other Recipients involved in the same Project that access to its background is subject to restrictions, or
- agreed with the other Recipients involved in the same Project that access would not be on a royalty-free basis.

The Recipients must grant to the other Recipients in the same Project other access — on a royalty-free basis — to results needed for implementing their own tasks under the action.

1.2.8.3. Access rights for exploiting the results

The Recipient must grant to the other Recipients in the same Project access — under fair and reasonable conditions — to results needed for exploiting their results. The Recipient must grant to the other Recipients in the same Project access — under fair and reasonable conditions — to background needed for exploiting their results, unless the Recipient that holds the background has — before acceding to the Project Agreement — informed the other Recipients in the same Project that access to its background is subject to restrictions. Requests for access must be made — unless agreed otherwise in writing — up to one year after the end of the Project.

1.2.8.4. Access rights for entities under the same control

Unless agreed otherwise in writing by the Recipients involved in the same Project, access to results and, subject to the restrictions referred to above (if any), background must also be granted — under fair and reasonable conditions — to entities that:

- are established in an EU Member State or Horizon Europe associated country
- are under the direct or indirect control of another Recipient, or under the same direct or indirect control as that Recipient or directly or indirectly controlling that Recipient and
- need the access to exploit the results of that Recipient.

Unless agreed otherwise in writing, such requests for access must be made by the entity directly to the Recipient concerned. Requests for access must be made — unless agreed otherwise in writing — up to one year after the end of the Project.

1.2.8.5. Access rights for the granting authority, EU institutions, bodies, offices or agencies and national authorities to results for policy purposes — Horizon Europe actions

In Horizon Europe actions, the Recipient [which have received funding under the grant] must grant access to its results — on a royalty-free basis — to the KIC LE, the EIT, EU institutions, bodies, offices or agencies for developing, implementing and monitoring EU policies or programmes. Such access rights do not extend to the Recipients' background. Such access rights are limited to non-commercial and non-competitive use.

1.2.8.6. Additional access rights

Where the call conditions impose additional access rights, the Recipients must comply with them.

1.3. Eligibility of IPR costs

The costs of IPR generated during the Project are eligible costs.

Annex 3 - Section 2: Communication, dissemination and visibility rules

2.1 General

Further to Article 11 of the Agreement, the following communication, dissemination and visibility rules as provided in this Section 2 of this Annex 3 apply.

Further specific communication, dissemination and visibility rules for the Project(s) may be set out in the relevant Project Agreement.

2.2 Communication and dissemination

2.2.1. Dissemination

2.2.1.1. Dissemination of results

The Recipient must disseminate its results as soon as feasible, in a publicly available format, subject to any restrictions due to the protection of intellectual property, security rules or legitimate interests. If Recipient intends to disseminate its results, it must give at least 15 days advance notice to KIC LE and the other Recipients involved in the same Project (unless agreed otherwise), together with sufficient information on the results it will disseminate.

The KIC LE or another Recipient involved in the same Project may object within (unless agreed otherwise) 15 days of receiving notification, if it can show that its legitimate interests in relation to the results or background would be significantly harmed. In such cases, the results may not be disseminated unless appropriate steps are taken to safeguard those interests.

2.2.1.2. Additional dissemination obligations

Where the call conditions impose additional dissemination obligations, the Recipient must also comply with those.

2.2.2. Open Science

2.2.2.1. Open science: open access to scientific publications

The Recipient must ensure open access to peer-reviewed scientific publications relating to its results. In particular, it must ensure that:

- at the latest at the time of publication, a machine-readable electronic copy of the published version, or the final peer-reviewed manuscript accepted for publication, is deposited in a trusted repository for scientific publications;
- immediate open access is provided to the deposited publication via the repository, under the latest available version of the Creative Commons Attribution International Public Licence (CC BY) or a licence with equivalent rights; for monographs and other long-text formats, the licence may exclude commercial uses and derivative works (e.g. CC BY-NC, CC BY-ND); and
- information is given via the repository about any research output or any other tools and instruments needed to validate the conclusions of the scientific publication.

The Recipient must retain sufficient intellectual property rights to comply with the open access requirements.

Metadata of deposited publications must be open under a Creative Common Public Domain Dedication (CC 0) or equivalent, in line with the FAIR principles (in particular machine actionable) and provide information at least about the following: publication (author(s), title, date of publication, publication venue); Horizon Europe or Euratom funding; grant project name, acronym and number; licensing terms; persistent identifiers for the publication, the authors involved in the action and, if possible, for their organisations and the grant. Where applicable, the metadata must include persistent identifiers for any research output or any other tools and instruments needed to validate the conclusions of the publication.

Only publication fees in full open access venues for peer-reviewed scientific publications are eligible for reimbursement.

2.2.2.2. Open science: research data management

The Recipient must manage the digital research data generated in the Project ('data') responsibly, in line with the FAIR principles and by taking all of the following actions:

- establish a data management plan ('DMP') (and regularly update it);
- as soon as possible and within the deadlines set out in the DMP, deposit the data in a trusted repository; if required in the call conditions, this repository must be federated in the EOSC in compliance with EOSC requirements;
- as soon as possible and within the deadlines set out in the DMP, ensure open access — via the repository — to the deposited data, under the latest available version of the Creative Commons Attribution International Public License (CC BY) or Creative Commons Public Domain Dedication (CC 0) or a licence with equivalent rights, following the principle 'as open as possible as closed as necessary', unless providing open access would in particular:
 - o be against the Recipient's legitimate interests, including regarding commercial exploitation, or
 - o be contrary to any other constraints, in particular the EU competitive interests or the Recipient's obligations under this Agreement; if open access is not provided (to some or all data), this must be justified in the DMP
- provide information via the repository about any research output or any other tools and instruments needed to re-use or validate the data.

Metadata of deposited data must be open under a Creative Common Public Domain Dedication (CC 0) or equivalent (to the extent legitimate interests or constraints are safeguarded), in line with the FAIR principles (in particular machine-actionable) and provide information at least about the following: datasets (description, date of deposit, author(s), venue and embargo); Horizon Europe or Euratom funding; and number; licensing terms; persistent identifiers for the dataset, the authors involved in the action, and, if possible, for their organisations and the grant. Where applicable, the metadata must include persistent identifiers for related publications and other research outputs.

2.2.2.3. Open science: additional practices

Where the call conditions impose additional obligations regarding open science practices, the Recipient must also comply with those.

Where the call conditions impose additional obligations regarding the validation of scientific publications, the Recipient must provide (digital or physical) access to data or other results needed for validation of the conclusions of scientific publications, to the extent that their legitimate interests or constraints are safeguarded (and unless they already provided the (open) access at publication).

Where the call conditions impose additional open science obligations in case of a public emergency, the Recipient must (if requested by the granting authority) immediately deposit any research output in a repository and provide open access to it under a CC BY licence, a Public Domain Dedication (CC 0) or equivalent. As an exception, if the access would be against the Recipient's legitimate interests, the Recipient must grant nonexclusive licenses — under fair and reasonable conditions — to legal entities that need the research output to address the public emergency and commit to rapidly and broadly exploit the resulting products and services at fair and reasonable conditions. This provision applies up to four years after the end of the action.

2.2.3. Plan for the exploitation and dissemination of results including communication activities

Unless excluded by the call conditions, the beneficiaries must provide and regularly update a plan for the exploitation and dissemination of results including communication activities.

2.3 Visibility rules

2.3.1. European flag and funding statement

When engaging in communication and promotion activities, the Recipient must follow the logos and guidelines provided in the EIT Community Brand Book published on the EIT website.

In particular, activities funded through EIT grants must follow the grant agreement and must display the European flag (emblem) and funding statement (translated into local languages, where appropriate) and the special logo(s) of EIT Urban Mobility:



and the following text:

“EIT Urban Mobility is supported by the European Institute of Innovation and Technology (EIT), a body of the European Union”

for all communication activities and infrastructure, equipment or major results.

In addition, the Recipient shall take into account and respect any co-branding guidelines and requirements provided and set by KIC LE (applying, to any promotional, marketing or informative content relating to the funded/supported activity, etc.). For clarification purposes, specific guidelines and requirements may be set for different kind of activities and results, such as KAVA and start-ups created.

The Recipient shall comply with these co-branding obligations in accordance with the monitoring processes as provided by EIT Urban Mobility.

The Recipient shall add co-branding to their websites/webpages no later than 3 months after the activity is started and during the term agreed in article 11 of the Agreement. For all other communications materials such as flyers, forms and videos, co-branding should be implemented before dissemination.

2.3.2. Quality of information - disclaimer

Any communication or dissemination activity related to the Project(s) must use factually accurate information.

Moreover, it must indicate the following disclaimer (translated into local languages where appropriate):

“Funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or the EIT. Neither the European Union nor the granting authority can be held responsible for them.”

2.3.3. Use of names, logos or trademarks

Nothing in this Agreement shall be construed as conferring rights to use in advertising, publicity or otherwise the name of the KIC LE and other Recipients or any of their logos or trademarks without their prior written approval.

Annex 3 - Section 3: Record keeping

In addition to the provisions of Article 12.2.1 of the Agreement, the Recipient must — for the same period — keep the following to justify the amounts declared:

- (a) for actual costs: adequate records and supporting documents to prove the costs declared (such as contracts, subcontracts, invoices and accounting records); in addition, the Recipient's usual accounting and internal control procedures must enable direct reconciliation between the amounts declared, the amounts recorded in their accounts and the amounts stated in the supporting documents;
- (b) for flat-rate costs and contributions (if any): adequate records and supporting documents to prove the eligibility of the costs or contributions to which the flat-rate is applied;
- (c) for the following simplified costs and contributions: the Recipient does not need to keep specific records on the actual costs incurred, but must keep:
 - for unit costs and contributions (if any): adequate records and supporting documents to prove the number of units declared;
 - (ii) for lump sum costs and contributions (if any): adequate records and supporting documents to prove proper implementation of the work as described in the relevant Project Agreement;
 - for financing not linked to costs (if any): adequate records and supporting documents to prove the achievement of the results or the fulfilment of the conditions as described in the relevant Project Agreement;
- (d) for unit, flat-rate and lump sum costs and contributions according to usual cost accounting practices (if any): the Recipient must keep any adequate records and supporting documents to prove that its cost accounting practices have been applied in a consistent manner, based on objective criteria, regardless of the source of funding, and that they comply with the eligibility conditions set out in Article 5.3 of the Agreement.
- (e) the following is needed for personnel costs: time worked for the Recipient under the Project must be supported by declarations signed monthly by the person and their supervisor, unless another reliable time-record system is in place; the granting authority may accept alternative evidence supporting the time worked for the action declared, if it considers that it offers an adequate level of assurance.

The records and supporting documents must be made available upon request (see Article 12.1 of the Agreement) or in the context of checks, reviews, audits or investigations (see Article 13 of the Agreement). If there are on-going checks, reviews, audits, investigations, litigation or other pursuits of claims under the Agreement (including the extension of findings; see Article 13 of the Agreement), the Recipient must keep these records and other supporting documentation until the end of these procedures. The Recipient must keep the original documents. Digital and digitalised documents are considered originals if they are authorised by the applicable national law. The KIC LE may accept non-original documents if they offer a comparable level of assurance.

Annex 3 - Section 4: Checks, reviews, audits and investigations

Further to Article 13 of the Agreement, the following shall apply:

4.1. The Recipient expressly agrees to cooperate diligently and provide all information requested (in addition to deliverables and reports already submitted, including information on the use of resources), concerning the compliance with its obligations under the Agreement, including the proper use of the EIT Funding. The foregoing includes the obligation to provide access to its sites, and premises (including to outside experts) and must ensure that information requested is readily available. Information provided must be accurate, precise, and provided in a complete manner and in the format requested including electronic format. The Recipient will also give access to data processing systems, bodies, staff and external persons or bodies.

4.2. The checks, reviews, audits and investigations pertain to:

- Project reviews: reviews on the proper implementation of the Project(s) and compliance with the obligations under the Agreement. Such Project reviews may be started during the implementation of the Project(s) and until the last month of the project implementation.
- External audits and internal cost reviews: on the eligibility of costs claimed for the Project(s) and compliance with the obligations under the Agreement. Such Project reviews may be started during the implementation of the Project(s) and until the time-limit set out in EU regulations.

4.3. The Recipient must keep all relevant information relating to the Project(s), at least five (5) years after the final payment (or three (3) for grants of not more than EUR 60 000).

Annex 3 - Section 5: Ethics and values

Further to Article 15 of the Agreement, the following shall apply:

5.1. Ethics

Ethics and research integrity

The Recipient must carry out the Projects in compliance with:

- ethical principles (including the highest standards of research integrity) and
- applicable EU, international and national law, including the Charter of Fundamental Rights of the European Union and the European Convention for the Protection of Human Rights and Fundamental Freedoms and its Supplementary Protocols.

No financial support/EIT funding can be granted, within or outside the EU, for activities that are prohibited in all Member States. No financial support/EIT funding can be granted in a Member State for an activity which is forbidden in that Member State.

The Recipient must pay particular attention to the principle of proportionality, the right to privacy, the right to the protection of personal data, the right to the physical and mental integrity of persons, the right to non-discrimination, the need to ensure protection of the environment and high levels of human health protection.

The Recipient must ensure that the KAVA(s)/Project(s) have an exclusive focus on civil applications.

The Recipient must ensure that the activities under the Projects do not:

- aim at human cloning for reproductive purposes
- intend to modify the genetic heritage of human beings which could make such modifications heritable (with the exception of research relating to cancer treatment of the gonads, which may be financed)
- intend to create human embryos solely for the purpose of research or for the purpose of stem cell procurement, including by means of somatic cell nuclear transfer, or
- lead to the destruction of human embryos (for example, for obtaining stem cells).

KAVA(s)/Project(s) involving research on human embryos or human embryonic stem cells may be carried out only if KIC LE has obtained explicit approval (in writing) from the EIT.

In addition, the Recipient must respect the fundamental principle of research integrity — as set out in the European Code of Conduct for Research Integrity.

This implies compliance with the following principles:

- reliability in ensuring the quality of research reflected in the design, the methodology, the analysis and the use of resources
- honesty in developing, undertaking, reviewing, reporting and communicating research in a transparent, fair and unbiased way
- respect for colleagues, research participants, society, ecosystems, cultural heritage and the environment
- accountability for the research from idea to publication, for its management and organisation, for training, supervision and mentoring, and for its wider impacts

and means that the Recipient must ensure that persons carrying out research tasks follow the good research practices including ensuring, where possible, openness, reproducibility and traceability and refrain from the research integrity violations described in the Code.

Projects raising ethical issues must comply with the additional requirements formulated by the ethics panels (including after checks, reviews or audits; see Article 13 of the Agreement).

Before starting a KAVA/Project task raising ethical issues, the Recipient must have obtained all approvals or other mandatory documents needed for implementing the KAVA/Project, notably from any (national or local) ethics committee or other bodies such as data protection authorities.

The documents must be kept on file and be submitted upon request by the KIC LE to the EIT. If they are not in English, they must be submitted together with an English summary, which shows that the documents cover the action tasks in question and includes the conclusions of the committee or authority concerned (if any).

5.2. Values

The Recipient must commit to and ensure the respect of basic EU values (such as respect for human dignity, freedom, democracy, equality, the rule of law and human rights, including the rights of minorities).

5.3 Gender mainstreaming

The Recipient must take all measures to promote equal opportunities between men and women in the implementation of the KAVA(s)/Project(s) and, where applicable, in line with the gender equality plan. They must aim, to the extent possible, for a gender balance at all levels of personnel assigned to the KAVA(s)/Project(s), including at supervisory and managerial level.

Annex 4 – Declaration of honour²

² HE template is available under the following link: <https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/how-to-participate/reference-documents;programCode=HORIZON>, „Grant agreement preparation templates”


Annex 5 – Declaration on joint and several liability of affiliated entities³

³ HE template: see Annex 3a of the GA under the following link: https://ec.europa.eu/info/funding-tenders/opportunities/docs/2021-2027/common/temp-form/gap/declaration-joint-and-several-liability-affiliated-entities_en.pdf

Signature: *Zeynep Tuğçe Çiftcibaş Güç*
Zeynep Tuğçe Çiftcibaş Güç (Aug 4, 2023 10:21 GMT+3)

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Title: Head of International Affairs

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0. START HERE

Area

Innovation

Intended Execution Period

Innovation targeted calls

Segment

2.16 Innovation Targeted Calls

Project Title

Public Transport Scenario-Based Decision Support Tool

Project Acronym

Cermoni

Generated ID

23569

Start / End Date

01-Aug-2023

30-Apr-2024

Project Description for public dissemination (max 1000 characters)

Cermoni is an innovative public transport product that has reached the TRL 7 level of development. However, public transport operators (PTO) in the market have expressed a need for scenario-based analysis capabilities and this is currently missing from the product. With the Activity, it is aimed to further develop and test Cermoni with scenario analysis feature to optimize public transport operations and improve the passenger experience and make the Product ready for the market. Via this tool, PTO can optimize operations based on different scenarios that affect public transport demand, such as regular and irregular events. The tool will provide insights to improve operations, minimize financial losses during demand changes, and enhance the overall passenger experience allowing them to adapt quickly and efficiently. The activity's objectives include developing an affordable and flexible tool for PTO, optimizing service levels, and minimizing financial losses during demand changes.

1. CONTACTS

Project Title

Public Transport Scenario-Based Decision Support Tool

Area - Segment

Innovation - Innovation Targeted Calls

Project Web Site (if applicable)

<https://www.cermoni.app/>

Lead Partner

Parabol EE250

Project Leader

Baris, MB (Metin) | Parabol |

Email Project Leader

metin.baris@paraboly.com

Specify all involved organisations including the lead partner and any Affiliated Entities.

Partner Description

441 - Antalya Metropolitan Municipality

EE1591 - Municipality of Vignola

EE250 - Parabol

Select to add it to your list of involved organisations / affiliated entities

Assign Co Editors

Editor Name

Please read the help (?) for guidelines on co-editors and functional considerations.

Aboulaich, MAA (Mohamed Adnan)

2. PROJECT OVERVIEW

The information provided in this page needs to be self-contained and must not refer to other parts of the submission. The information contained in this page is shared with EIT.

Project Title

Public Transport Scenario-Based Decision Support Tool

Generated ID

23569

Project Purpose: Aim and main objectives (max 3000 characters)

The aim of the Activity is to conduct a scenario analysis considering the variables affecting mobility in the city for public transport operators and to make vehicle and driver assignments based on the scenario analysis. The main objective is to minimize costs for large, medium, and small public transport operators while maximizing passenger satisfaction. The usage of this tool involves different stakeholders like operators, passengers, drivers, and municipalities who might have conflicting objectives. For example, passenger satisfaction and cost are inversely related. Therefore, this product aims to achieve the following outcomes in different scenarios, with different focuses:

- To report the cost situation and minimum cost increase in cases where the occupancy rate is improved by 10%, 20% and 30%.
- To report the decrease in cost in case of sacrifice at level 1 or 2 in load factor.
- To report the minimum reduction in cost without reducing the level of customer satisfaction by more than 1 level.
- To report timetable for a consistent load factor in different demand levels.
- To develop a plan for optimizing passenger satisfaction within existing fleet size constraints.
- To ensure a balanced distribution of driver work hours, with variations contained within a +/- 10% range.
- To evaluate and report on the highest level of passenger satisfaction attainable with the current fleet size.
- In response to demand fluctuations due to regular and irregular events, establish a frequency and timetable for each targeted service quality level (10%, 20%, 30%), secure vehicle and driver assignments, and report on carbon emissions.
- Achieve a 15% reduction in carbon emissions without a decrease in passenger satisfaction of more than one level.
- Improve vehicle idle time by 17%.

All these metrics will be measured with data such as occupancy rate through the Tool. For example, passenger satisfaction will be measured with the service level.

Scope of Project: relation of the project with the segment and challenge area (max 2000 characters)

The Activity is in direct alignment with the scope of activity defined by the EIT UM project call "Topic 2 – Democratisation of large-scale ICT solutions for smaller PT authorities in financially-constrained RIS cities". The Activity aims to provide a cost-effective software tool that is specifically tailored to the context of RIS cities, which face unique challenges due to outdated infrastructure, poor connectivity, and a lack of resources. The Activity will focus on developing a user-friendly, flexible tool for public transport operators in RIS cities, which will enable them to analyze and optimize different scenarios, such as regular events, irregular events, road closures, and public transportation priority roads. The tool will provide insights to improve operations, minimize financial losses during demand changes, and enhance the overall passenger experience.

Also, the activity has the potential to level the playing field for smaller public transport authorities in financially-constrained RIS cities, enabling them to benefit from the same technological advancements and insights as larger, more financially stable cities. The tool will enable smaller PT authorities to optimize their operations, improve the efficiency of their services, and enhance the overall passenger experience. Furthermore, the project aligns with the goals of EIT UM to promote sustainable mobility and reduce the reliance on private cars, which can have significant environmental and social impacts.

The tool, with advanced features that exceed the current state of the art, represents a major advancement in public transportation management, combining superior algorithms, data-driven insights, intuitive visualization, user-friendly interactions, and scalability to improve overall urban transportation efficiency and sustainability. The unique aspect of the software is its scenario-based planning

Outcome and Impact: expected environmental, economic and/or social impact (max 2000 characters)

module, which allows operators to simulate various scenarios for proactive planning.

The development and implementation of the tool will have a number of positive environmental, economic, and social impacts, particularly in financially-constrained RIS cities. These impacts include the following:

i. Environmental Impact:

- The deployment of optimal service levels given the current fleet size promotes the use of public transport and lessens dependence on private cars. This leads to improved air quality and reduced noise pollution. Specifically,
- With better demand forecasting under normal, regular, or irregular circumstances, it is expected to reduce carbon emissions between 10-20% over a 1-3 year period without affecting passenger satisfaction.

ii. Economic Impact:

- By making efficient driver and vehicle assignments at a fixed service level, there will be a projected 12% cost reduction over a 1-3 year period during demand changes and disruptions. This will contribute to enhanced financial stability for public transport systems.

iii. Social Impact:

- In tourist destinations like Antalya, demand exhibits seasonality. For instance, peak hours differ between summer and winter seasons. Or, like Vignola, with the establishment of a weekly market, the influx of visitors creates a change in demand. Maintaining service levels during these shifts is crucial to prevent any negative impact on the local community. By adjusting the timetable according to the changes in demand, the service level will remain consistent.
- Moreover, ensuring an equal distribution of driver assignments with a +/-10% change will enhance driver comfort.
- By including demand data from all sociodemographic groups in the city, particularly disadvantaged populations, in the planning process, the social exclusion will be reduced and public transport will become accessible for all. This can be measured through the system's service level and user profile data.

Briefly, project supports sustainable and accessible mobility solutions while addressing the financial challenges of RIS cities.

Workplan (max 12000 characters)

The Activity will consist of six tasks:

Task 1: Activity Management (Month 1 - Month 9): In the first task, the first step is to develop a comprehensive project plan that includes a clear scope, timeline, budget, risks, and resource allocation. This will provide a roadmap for the project and help ensure that it stays on track. The next step is to assign roles and responsibilities to team members, based on their skills and experience, to ensure that everyone knows what is expected of them. Throughout the project, progress will be regularly monitored and plans will be adjusted as needed to address emerging issues or changes. Finally, regular reporting of project status to stakeholders will ensure that everyone is up-to-date on progress and issues that may arise.

Task 2: Data Collection and Requirement Gathering (Month 1 - Month 2): Static and dynamic data such as demand for stops, routes, and passengers will be collected. The collected data will be converted to digital format and transformed into the GTFS format, an international standard. Infrastructure will be set up for data management and processing, and the data will be centralized. The research will be conducted to identify scenarios and functionality required by public transport operators. Input and feedback will be gathered from stakeholders, and a list of software requirements will be created and prioritized based on user needs. Use cases and user stories will be developed to clarify requirements and software requirements documentation will be finalized.

Also, the data to be collected will cater to the needs of a diverse range of sociodemographic groups. This data will facilitate an analysis that brings to light a broad array of societal necessities, such as accessibility, safety, and efficiency. The process will incorporate concerns from various societal segments, including the elderly, disabled, and other vulnerable populations. This approach will further societal inclusion and aim to enhance the public transportation system for all users.

Task 3: Design and Development (Month 2 - Month 9): In this task, the software tool's architecture and user interface will be designed for pilot implementations based on the requirements gathered in the previous phase. Once the design is completed, the software prototype will be built and pilot implementations will be started. The pilot tests of the software tool will be conducted in a real-world environment to gather feedback from users. Afterward, technical issues or bugs will be identified and addressed during the pilot implementations. Based on this feedback, continuous improvements and optimizations will be made to the software tool. The next

step is to implement modifications or improvements based on the results of the pilot testing and prepare the software tool for deployment to public transport operators. Ongoing technical support and maintenance will be provided to ensure the software tool functions properly after deployment. Finally, the software tool will be deployed to public transport operators at the end of the Activity. This task will be carried out in parallel with the pilot implementation tasks.

Task 4: Pilot Testing in Antalya (Month 2 - Month 9): The main objective of this task is to conduct pilot testing of the software tool in Antalya. First, potential pilot testing locations will be identified and selected. Specific scenarios for the pilot project will be developed to address seasonal variations (such as tourists), as well as certain activities (such as national holidays and special marathons). Coordination with local public transport operators will be established to ensure their participation in the pilot testing. The software tool will be installed and configured at the pilot locations, and public transport operators will be trained on how to use the software tool effectively. Data on the tool's performance and user experience will be collected during the pilot testing, and analyzed to identify any necessary modifications or improvements to the software tool. Additionally, training materials and documentation will be developed, and training sessions will be conducted for public transport operators and their staff. Ongoing technical support will be provided to address any issues or questions that arise, and training materials and documentation will be continuously updated based on user feedback.

Also, the Demo will be carried out in Antalya to validate the societal-centric features of the tool in real-world conditions. This will help assess the tool's capacity to respond to diverse societal needs and tailor public transportation planning accordingly, demonstrating its usefulness to all societal groups. Antalya, being a significant tourist city, experiences seasonal fluctuations in public transport demand. For instance, peak hours shift between the summer and winter seasons. Such changes, if not appropriately managed, could lead to a decline in the level of public transport services, negatively impacting local life. By considering these changes in demand and adjusting the timetable accordingly, the tool will help prevent a decrease in service levels. Therefore, we will ensure that the quality of life of the residents is not directly affected because of the change in demand with regular and irregular events and that the needs of both locals and tourists are taken into account in public transport planning.

Task 5: Pilot Testing in Vignola (Month 2 - Month 9): The first step in this task is to develop specific scenarios tailored to the needs of Vignola. These scenarios will be used to test the software tool during the pilot project. A meeting will be held to gather input and plan new routes that will be used as scenarios for testing. Once the scenarios are developed, potential pilot testing locations will be identified and Vignola will be selected as the pilot location. Local public transport operators will be coordinated to participate in the pilot testing. The software tool will be installed and configured at the pilot locations and public transport operators will be trained on how to use it effectively. During the pilot testing phase, data will be collected on the tool's performance and user experience. The data will be analyzed to identify any necessary modifications or improvements to the software tool. In addition to pilot testing, training and support will be provided to the public transport operators. Training materials and documentation for the software tool will be developed and training sessions will be conducted for public transport operators and their staff. Ongoing technical support will also be provided to address any issues or questions that arise. Training materials and documentation will be continuously updated based on user feedback.

Also, the Demo in Vignola will extend beyond assessing the technical competencies of the tool and will also evaluate its societal implications. In response to societal needs, the Comune di Vignola is implementing strategic measures, such as enforcing a maximum speed limit of 30 km/H in specified areas. This action carries substantial weight for the needs of end-users, particularly in areas like schools. Through the deployment of Cermoni, we will collect data on traffic patterns, peak hours, and distinct zones like schools to refine the tool's features and functionalities. Consequently, the Vignola demonstration will incorporate scenarios where the tool modifies public transport planning based on the 30KM/H speed limit in designated areas. To promote societal inclusion, we will take into account the needs of a broad range of potential end-users, including children, parents, school staff, and bus drivers. While planning the timetable, the tool will integrate local features, such as speed limit notifications, to ensure constant passenger satisfaction. Thus, by aligning the tool's functionalities with local societal needs, we aspire to deliver an inclusive, efficient, and safe public transport planning solution.

Additionally, Vignola's location between two major cities, Modena and Bologna, presents unique transportation challenges. The nearby industrial areas and weekly markets cause fluctuations in public transport demand, significantly impacting local life quality. Cermoni will conduct public transport planning based on scenarios accounting for these demand changes. This approach will allow us to

manage the impact of both regular and irregular events better, ultimately enhancing residents' overall quality of life. By considering changes in demand, we ensure our tool provides a consistent service level, preventing a potential decline in service levels that could adversely affect local life.

Task 6: Dissemination and Business Development (Month 2 - Month 9): This task involves sharing the knowledge and experience gained during the project with the relevant stakeholders. Also, it will support the commercialization of the product. The first step is to organize a lesson-learned meeting with project partners to identify the key takeaways and insights from the project. Based on this, a dissemination plan will be developed to promote the software tool to public transport operators. Marketing materials and promotional content for the software tool will be created, and industry events will be attended to showcase the software tool. In addition, best practices and success stories will be shared with other Public Transport Operators to inspire them to adopt the software tool. Finally, feedback from Public Transport Operators will be collected to identify areas for improvement and potential new features to enhance the software tool's functionality and effectiveness.

IPR and exploitation of results: Review how results will be developed over the proceeding 5 years after the end of the project (long-term strategy after the end of the project) (max 2000 characters)

Intellectual Property (IP) management is crucial for protecting and leveraging the commercial potential of the project. To ensure effective IP management, a framework will be established at the project's inception, clearly defining the ownership and usage rights of all developed IP. As the commercial partner, Parabol will retain all IP rights to the Tool, which they have developed for TRL7, safeguarding the technology against unauthorized use.

- At the start of the project, an IPR agreement will be signed among all partners. This agreement will establish explicit guidelines for the ownership, usage, and protection of all intellectual property generated throughout the project. It will ensure that all partners have a clear understanding of their respective roles and responsibilities concerning IP and that they comply with the agreed-upon terms.
- Patent Application: A patent application will be filed to protect the developed technology, giving Parabol an edge by preventing unauthorized use, sale, or replication. An attorney will be hired to ensure the application covers all aspects of the technology accurately.

- Trademark Registration: The product's brand identity will be safeguarded through trademark registration, preventing competitors from using similar branding that could confuse customers
- IP Strategy and Management: An ongoing strategy will be implemented to manage the IP portfolio effectively. This strategy will include routine IP asset reviews, monitoring for potential infringements, and taking enforcement actions as necessary.

Exploitation:

- Marketing and Outreach: A comprehensive marketing and outreach plan will be developed including event marketing (industry fairs and conferences), online marketing, and PoC (demos within the project and to be conducted after completion as success stories to showcase the benefits of the tool);
- Revenue Model: A sustainable revenue model will be developed to support ongoing research, development, and marketing efforts.

Partner roles, skills and expertise

Partner Description	Partner Role
441 - Antalya Metropolitan Municipality	<p>Antalya is a major city in Turkey and is known as the "capital of tourism" in the country due to its many resorts, historical sites, and natural beauty. As the fifth-most populous city in Turkey and the capital of Antalya Province, the municipality plays an important role in managing public transportation services for the city's residents and visitors.</p> <p>As a partner, the Antalya Metropolitan Municipality will be responsible for providing access to data related to public transport operations and helping to test the software tool in a real-world setting. Their expertise in managing public transportation services in a major city, particularly in a tourism-oriented context, will be valuable in assessing the effectiveness of the software tool and identifying areas for improvement. Additionally, their local knowledge of the unique challenges and opportunities in Antalya will help to ensure that the software tool is tailored to the specific needs of the city and its residents.</p>

Partner roles, skills and expertise

Partner Description	Partner Role
<p>EE1591 - Municipality of Vignola</p>	<p>Vignola currently has 25,698 inhabitants, of whom 12,846 are males and 13,212 are females, and performs the function of a gravitational center around which the other seven Municipalities of the Terre di Castelli Union revolve, to which it belongs. In fact, the city hosts numerous services for the community, both in the socio-health, social and cultural fields. In addition, in Vignola there are schools of all levels, from nursery schools, to the lower secondary school, to higher education institutions. Many young people from other Municipalities of the Union and beyond come to Vignola to study and also to take advantage of the numerous opportunities that the area offers, in terms of public spaces, sports and recreational facilities, commercial offer.</p> <p>Over the years, various participation paths have been organized and are still underway to involve citizens in local governance choices, on various thematic areas: environment and sustainable mobility, urban redevelopment, culture and social inclusion.</p> <p>Comune Di Vignola, the Municipality of Vignola, will be responsible for providing access to data related to public transport operations and helping to test the software tool in a real-world setting.</p>
<p>EE250 - Parabol</p>	<p>Parabol has specialized in data-driven decision support systems for multimodal mobility analytics and management solutions since 2011. We have proven scalability in 11 countries and 50+ cities on 3 continents. Lastly, EIT Urban Mobility invested in Parabol. Our main expertise is in big data, data analytics, AI-based mobility algorithms, cloud computing, mobility management, mobility analytics, freight mobility, optimization, urban planning, GIS, software development, traffic modeling, ITS, and traffic safety.</p> <p>Parabol is responsible for the implementation of the product in Antalya and Vignola and the technological development. In addition, Parabol will own the commercialisation process of the product.</p>

Key Outputs		
Code	Title	Description
OUT01	GTFS-formatted Data	<p>As part of the Project, we plan to take raw public transport supply data from the Antalya Metropolitan Municipality and the Comune Di Vignola, and convert it into the General Transit Feed Specification (GTFS) format. Recognizing the challenge posed by the diversity of municipal data formats, we intend to employ Parabol's GTFS-editor to achieve this standardization.</p> <p>By transforming the data format into GTFS, an international standard for public transit data, we aim to significantly enhance the quality of the data. The standardized format will enable easier, more effective analysis using the Tool, thereby increasing the potential for valuable insights to improve public transport services.</p>
OUT02	Demo in Antalya and Vignola	<p>The pilot implementation of the Public Transport Scenario-Based Decision Support Tool will be conducted in Antalya and Vignola with the cooperation of the Antalya Metropolitan Municipality and Comune Di Vignola.</p> <p>The pilot test will involve the following:</p>

Key Outputs

Code	Title	Description	Expected Date
OUT01	GTFS-formatted Data	<p>As part of the Project, we plan to take raw public transport supply data from the Antalya Metropolitan Municipality and the Comune Di Vignola, and convert it into the General Transit Feed Specification (GTFS) format. Recognizing the challenge posed by the diversity of municipal data formats, we intend to employ Parabol's GTFS-editor to achieve this standardization.</p> <p>By transforming the data format into GTFS, an international standard for public transit data, we aim to significantly enhance the quality of the data. The standardized format will enable easier, more effective analysis using the Tool, thereby increasing the potential for valuable insights to improve public transport services.</p>	29 Mar 2024
OUT02	Demo in Antalya and Vignola	<p>The pilot implementation of the Public Transport Scenario-Based Decision Support Tool will be conducted in Antalya and Vignola with the cooperation of the Antalya Metropolitan Municipality and Comune Di Vignola.</p> <p>The pilot test will involve the following:</p>	19 Apr 2024

Key Outputs

Code	Title	Description	Expected Date
OUT03	Public Transport Scenario-Based Decision Support Tool	<p>The collection and analysis of demand data and data related to regular and irregular events, road closures, and public transportation priority roads.</p> <ul style="list-style-type: none"> - Implementation of the tool's timetable, vehicle, and crew scheduling modules for public transport operations. - Evaluation of the tool by Antalya Metropolitan Municipality and Comune Di Vignola. <p>The tool will be ready for the market from TRL 7, so it will have gone through several stages of development, testing, and validation. The Tool will comprise 3 modules to be further enhanced to provide the scenario-based capability, which is not currently available and is the main focus of the Project:</p> <ol style="list-style-type: none"> 1. Timetable Module analyzes varying demands under diverse scenarios, then generates an optimized timetable that accommodates these changes. 2. Vehicle Scheduling Module optimizes the assignment of vehicles to maximize resource utilization and reduce operational costs. 3. Crew Scheduling Module ensures the optimal assignment of drivers, considering break times, to ensure operational efficiency and driver well-being. 	30 Apr 2024

Key Deliverables

Code	Title	Description	Expected Date
DEL01	The Commercial Agreement	This legal document is an agreement between Parabol and EIT Urban Mobility that outlines FSM.	04 Sep 2023
DEL02	The Business/Product Plan	This is a comprehensive document outlining the strategic direction, operational procedures, and financial projections of the product. It will define the market positioning, explore potential revenue streams, detail marketing strategies, and provide a detailed financial analysis. This deliverable is designed to provide a roadmap for the product's commercial success and guide its journey from development to market.	06 Oct 2023
DEL03	Study Visits Report	The Report, a vital project deliverable, encapsulates key findings from on-site visits to demo municipalities, aimed at testing the software tool in a live environment and gathering user feedback. The report will inform the tool's refinement and guide its real-world application, with insights from the demonstration phase providing practical knowledge for future use. The Report will also assess the tool's performance and provide a detailed analysis of Vignola's and Antalya's public transport systems, offering a broader context for its use. Ultimately, the Report serves as an essential resource combining user feedback, observational data, and practical lessons to facilitate the tool's development, demonstration, and wider application.	15 Mar 2024
DEL04	The Demonstration Report	This document provides a detailed account of the demonstration conducted in Antalya and Vignola. It captures essential data about the product's performance, issues encountered, and the subsequent resolution of those issues. The report will highlight the system's efficiency, adaptability, and performance under real-world conditions, informing further refinement and enhancement of the product.	30 Apr 2024

EIT Core KPI targets

KPI Code	KPI Title	Target Value 2023	Target Value 2024	Target Value 2025
EITHE02.4	Marketed Innovations	0	1	0

EIT Urban Mobility Specific KPI targets

KPI Code	KPI Title	Target Value 2023	Target Value 2024	Target Value 2025
KONHE11	Number of community events, external events and third-party events	2	1	0
KONHE03.2	City engagements in projects	2	0	0
KSN02	Demonstration/pilots/living labs within a project that actively involve citizens and/or local associ	2	0	0

Risk Management and Contingency Plan

Risk Category	Risk Title	Risk Likelihood	Risk Impact	Risk Description	Risk Mitigation
EXTERNAL	Incorrect or incomplete data	4	4	Solution quality of the timetable and scheduling algorithms depends on the quality of the demand data of the routes which either come from smart card records or manual insertion by user. Low quality of the input data may result in inaccurate results which may lead to a gap between the observed results and the outcome of the algorithm.	There will be a verification process by experts in the project team that will verify preprocessed data and correct the errors if any before giving as input to the optimization algorithms.
EXTERNAL	Competitors may enter the market with similar or superior software tools, making it difficult to disseminate the results..	3	3	Other companies may develop similar software tools, or competitors may enter the market with more advanced offerings, leading to a loss of lead generation during dissemination task.	To mitigate this risk, the competitive landscape, identify areas of differentiation, and focus on providing superior customer service and support to build customer loyalty will be continuously monitored and the tool will be developed further developed based on needs and demands. A qualified product manager will be mobilized and the product manager will stay up-to-date with the needs and demands of the market.
FINANCIAL	Lack of interest of public transport authority due to low purchase power and market fluctuations, changes in investment climate, or lack of funding.	3	4	Market fluctuations, changes in the investment climate, or lack of funding are all potential external factors that could impact the ability of public transport authorities to afford a software tool. These factors could make it more difficult to disseminate the tool and its benefits among the authorities to allocate funds toward	The product will be available in various packages and public transport authorities will be able to purchase it according to their needs. In addition, it is planned to be affordable and feasible compared to the current market.

Risk Management and Contingency Plan

Risk Category	Risk Title	Risk Likelihood	Risk Impact	Risk Description	Risk Mitigation
GOVERNANCE & MANAGEMENT	Lack of diversity in the management team, or weak governance structures, could affect decision-making and limit the startup's ability to respond to external risks and challenges.	1	5	Lack of diversity in the management team or weak governance structures could limit the ability to respond to external risks and challenges, affecting its ability to sustain its operations and grow its business.	To mitigate this risk, robust governance structures will be established, a diverse and experienced management team will be mobilized, and a culture of innovation and adaptability will be promoted. Also, a comprehensive project management plan will be prepared at the beginning of the Activity to track the process during the Activity.
OPERATIONAL	Changes in transportation infrastructure or public transport systems may affect the data sources used to generate insights, impacting the accuracy and reliability of the software tool.	3	1	Changes in transportation infrastructure, such as the introduction of new transit modes, changes in demand data collection method, and changes to public transport systems, may impact the data sources used to generate insights, affecting the accuracy and reliability of the Product.	The Product will be flexible enough to accommodate changes in transportation infrastructure or public transport systems. Accordingly, the Product to be easily configurable and adaptable, so that it can incorporate new data sources and adjust to changes in demand data collection methods.

KTI Integration: how your Project integrates education, innovation, business creation and cities (max 1000 characters)

The Product to be further developed and tested during the project is a significant innovation in the transportation industry, utilizing AI-based algorithms and HPC technology. It has the potential to trigger further innovation in the market by providing a new technological solution, which can lead to increased competition and technological advancements. The tool can provide an opportunity to integrate real-world transportation scenarios into transportation management and planning courses to improve the education and skills of the future transportation workforce. It also can create new business opportunities in complementary services or products. The activity will help to increase revenue and reduce costs in public transport operations, leading to the creation of new businesses and job opportunities. This can lead to improved economic opportunities and quality of life for residents, reduced congestion, and negative environmental impacts by improving public transportation operations.

Communication and Dissemination Plan/Strategy (max 2000 characters)

The first step is to identify the target audience to be reached in the short, medium, and long term between public transport operators, transportation planners, government officials, and researchers in the transportation field. Once the target audience is identified for different periods, the next step will be to develop key messages that will resonate with this audience. Key messages will include the benefits of using the software tool to optimize operations, improve the passenger experience, and reduce financial losses during demand changes.

Engaging with stakeholders is an important part of any communication and dissemination plan via conducting surveys, hosting focus groups, and conducting interviews with stakeholders to gather feedback on the project and its results. There are several communication channels to be used to reach the target audience, including social media, email marketing, events-especially Barcelona Smart City Expo- and trade publications. The communication channels will be matched with the target audience segments.

Another strategy for disseminating the project's results is to establish partnerships among the project partners. Each partner will use their own network to promote results and reach a wider audience. Also, information about the project, including updates on progress, key findings, and information on how to access the tool will be shared via partners' websites.

Finally, it's important to evaluate the effectiveness of the communication and dissemination plan. We will track website analytics, monitor social media engagement, and conduct surveys to gather feedback from the target audience. Based on this feedback, the communication and dissemination plan will be revised and refined to improve its effectiveness.

Commercialisation Strategy and project's contribution to EIT Urban Mobility Financial Sustainability (max. 2000 characters)

The target market of the project is public transport authorities and operators. The main commercialization strategy will be building a strategic or commercial partnership with established players in the transportation sector and collaborating with companies that offer related services or products as a complementary solutions. This will help to accelerate project penetration to the PT software market especially in the targeted area (first 3 years, financially-constrained cities in the Regional Innovation Scheme (RIS) of Europe and MENA region). For the partnership, we already started to discuss some companies (Modaxo, Dell, etc.) and we are a member of UJTP network (biggest network of public transport sector). We will also provide pilots to chosen public transportation authorities or operators to showcase the solution's efficiency. The initiative aim for 2024, starting 2 more pilots and create case studies from them to increase solutions credibility in the market.

Based on our SaaS based pricing strategy, in 2024, the expected revenue is min. 60K euros to the new customer with our team in Turkey & MENA and potential partners in MENA & Turkey, East Europe region. In 2025, we project to sell 3 more units and reach approximately 390K euro and in 2026 sell 6 more units and reach 780K euros. This revenue projection is also based on the usage of this solution in mobility planning projects (Sustainable Urban Mobility Plans, ITS projects, etc.).

The software tool will be marketed as a solution that improves efficiency, reduces financial losses, and enhances the passenger experience. The marketing strategy will include targeted digital marketing campaigns, participation in industry conferences and events, and engagement with key stakeholders in the public transport industry. Ongoing maintenance and support will be provided to ensure the software tool remains up-to-date and relevant. This will help to retain existing customers and attract new ones.

Gender and diversity dimension: please outline how the Project addresses the inclusion and diversity agenda - gender, ethnicity, accessibility for all, socio-economic status, etc. (max 1000 characters)

Gender equality will have high priority in every process. The project team will ensure that team members of all genders will work in positions appropriate to their competencies without any discrimination throughout the project. The project team has already taken steps to address gender equality by appointing women to key positions such as CFO, marketing director, general product manager, and business analyst. The project team recognizes the importance of ethnic diversity in creating a successful and innovative project. The team will ensure that all individuals, regardless of their ethnic background, are given equal opportunities to participate in the project. Accessibility for All: The project team will ensure that the software tool is accessible to all individuals, including those with disabilities. The team will work to incorporate accessibility features into the software tool, such as screen readers and keyboard shortcuts, to ensure that all individuals can use the tool effectively.



Ethic and security issues

Please explain if you are incurring in any **Ethic or security issue** (max 5000 characters)

There do not appear to be any obvious ethical or security issues related to the project. However, the project has been designed to prioritize ethical and security considerations from the outset. As part of this, we will take great care to ensure that all data used in the project is properly anonymized, and that sensitive data is protected by appropriate security measures. By using only anonymized data, we can ensure that the project is fully compliant with relevant data protection regulations, while also protecting the privacy of individuals. We will also regularly review our data handling practices to ensure that they continue to meet the highest ethical and security standards.



3. PROJECT SPECIFIC INFO

KEYWORDS FOR EUROPEAN COMMISSION

Self-defined Keywords (max 5)

Keyword	ID
Affordable and Flexible ICT for Public Transport	43453879
Big data	43458190
Decision Support System	43458193
Demand Analysis for Public Transport Management	43458196
Scenario Analysis for Public Transport Management	43458199

Pre-defined Keywords (max 5)

Please make sure to press the  to load the keywords before selecting
Regaining a sense of belonging

PROJECT SPECIFIC QUESTIONS

Business model and products/services/solutions to be developed (max. 2000 characters)

Please describe the product/service/solutions to be developed and any of their sub-elements. Also explain the business model (what value it brings to potential users/customers and what revenue streams it will generate).

The Global Public Transportation Market is forecast to grow by \$90.07 bn during 2022-2027, accelerating at a CAGR of 5.84% during the forecast period. The increasing demand for eco-friendly transportation options, coupled with government initiatives to reduce traffic congestion and pollution, is driving market growth. The market is highly fragmented, with several small and large players offering a range of products and services. The target market for the software tool is public transport operators in financially-constrained cities in the Regional Innovation Scheme (RIS) of Europe. These operators are facing difficulties in digitalization and visualizing their own public transport needs and operations. The software tool will provide them with an affordable solution to optimize their operations and improve the passenger experience.

The Product to be developed and tested is a data-driven decision support system that will enable public transport authorities to analyze and optimize various scenarios that may impact their operations. The business model will be a flexible, package-based, software-as-a-service (SaaS) model. Public transport operators will pay a subscription fee to access the software tool based on prepared packages according to their needs, fleet size, etc. The subscription fee will be based on the size of the operator and the number of vehicles in their fleet. Parabol will also offer customization services for the specific needs of the operator.

The marketing and sales strategy will be focused on building relationships with potential customers, attending industry conferences and events, and leveraging online marketing channels. Parabol will also partner with industry associations to increase brand visibility and credibility. Sales will be conducted through a direct sales team and an online platform.

Pilot Description Describe the pilot's real-life setting and activities. Who is the demo site liaison partner for the proposal? What is the scale of the testing area? Who are the (private/public) stakeholders involved? Also, please elaborate how the pilot success (including pilot requirements, licences, and collaboration) is ensured (max. 1000 characters)

Pilot Description
Describe the pilot's real-life setting and activities. Who is the demo site liaison partner for the proposal? What is the scale of the testing area? Who are the (private/public) stakeholders involved? Also, please elaborate how the pilot success (including pilot requirements, licences, and collaboration) is ensured (max. 1000 characters)

Market Assessment Name of the solution/ product (s) and how it/they meet TRL 7 and above. Highlight background work and projects. By the end of the proposal, what advances and completed innovations will take the product (s), solution and/or service(s) to what specific new TRL? Outline partners responsible for advance in the TRL." (max. 1000 characters)

Market Assessment
Name of the solution/ product (s) and how it/they meet TRL 7 and above. Highlight background work and projects. By the end of the proposal, what advances and completed innovations will take the product (s), solution and/or service(s) to what specific new TRL? Outline partners responsible for advance in the TRL." (max. 1000 characters)

For the proposed pilot testing, the real-life setting will be two locations - Antalya and Vignola - chosen as they are representative of different public transportation systems and scenarios. Thus, Antalya Metropolitan Municipality and Municipality of Vignola are the public transport authorities and demo site liaison partners to implement the software tool in their operations and gather data on its performance and user experience. The success of the pilot will be ensured through performance metrics to be determined development and design phase and feedback from stakeholders. Parabol, a tech-provider SME, will work closely with the demo site liaison partners in both municipalities to implement the pilot phase. In Antalya, the testing area will cover a significant portion of the city including the district with smart card data and demand data to be provided manually. In Vignola, the testing area will cover the urban and suburban areas of the municipality.

We have completed the software development stage of the public transportation optimization algorithms and verified the theoretical results under various simulations which bring to product on TRL7 level. Our goal in this project is to advance the TRL level up to 9 by implementing the results on the field by collaborating with municipalities that will be the partner in the project and verify the results. In other words, the prototype of our public transport application has been completed and our main purpose in this project is to test prototypes in different scenarios with public transport operators.

SUPPORTING FILE / ILLUSTRATION

Proposal Supporting File / Illustration (Optional)
(max 2 A4, max 5Mb, PDF format only)

4. SUSTAINABILITY

Estimated Contribution to EIT Urban Mobility Financial Sustainability (amounts)

Mechanism Type	Description	Responsible Partner	2023	2024	2025	2026	2027	2028	Total
Please use the '+' button to append a sustainability mechanism									
Mechanism Type	Description	Responsible Partner	Share (%)	Country of Incorporation	Projected Incorporation Date				
Equity share	It was decided that EIT UM will be receiving a number of shares equivalent to the value of the total Financial Support granted by EIT UM (EUR 147K) to Parabol at the date of investment. The number of shares received will be calculated based on the most current valuation of the Company at the date of investment at the full subscription price per share.	EE250 Parabol	0.00	TURKEY	15 Jan 2024				

Estimated Contribution to EIT Urban Mobility Financial Sustainability (equity)

5A. BUDGETS

TASKS

Task ID	A2301	
Task Title	Activity Management	
Task Description	Management of the Activity	
Task Type	Project and Programme Management	
Task Leader	Baris, MB (Metin) Parabol	
Start / End Date	01-Jun-2023 29-Feb-2024	
Deliverable Reference		
Total Costs	14,000 €	
Task ID	A2302	
Task Title	Dissemination and Business Model Development	
Task Description	The dissemination task aims to promote the project's outcomes and achievements to relevant stakeholders, including public transport operators, policymakers, and the general public. The dissemination strategy will include a range of activities: 2 study visits, 5 focus group meetings with related stakeholders including public transport authorities in Turkey and in Italy, 1 event attendance(Barcelona Smart City Expo), and online marketing activities. The study visits will be organized to showcase the benefits of the software tool developed during the project to potential users and stakeholders. These visits will be organized in collaboration with the pilot sites, and the demo site liaison partner will be responsible for coordinating the visits. Meetings with related stakeholders will be organized to provide updates on the project's progress and outcomes to relevant stakeholders. These meetings will be attended by project partners,	

public transport operators, policymakers, and other stakeholders involved in the project. Event marketing activity will be held in attendance to the Barcelona Smart City Expo in 2023. It will be organized to raise awareness of the project and its outcomes among the stakeholders who focused on sustainable mobility and digitalization in public transport. Online marketing activities will be used to reach a wider audience and promote the project's outcomes through social media, newsletters, and project websites. The project's partners will collaborate to create engaging content, including videos, infographics, and blog posts, to disseminate information about the project's progress and outcomes. The dissemination task will ensure that the project's achievements and outcomes are widely recognized, raising awareness of the benefits of sustainable mobility and digitalization in public transport. In this way, while the product is still in the test phase, it will be disseminated in the market with lead generation and business development activities.

Task Type Business Development

Task Leader Isik, TI (Tugce) | Parabol

Start / End Date 03-Jul-2023 29-Feb-2024

Deliverable Reference

Total Costs 75,937 €

Task ID A2303

Task Title Software Design and Development

Task Description This task focuses on the development and design of the software tool. It includes the preparation of the product, which is currently at TRL 7 level, in accordance with the pilot applications and upgrading it according to the feedback from the pilot applications. The following steps will be performed: 1. Software Tool Design: The software tool's architecture and user interface will be designed based on the requirements/data gathered in the previous task(Data Collection and Requirement Gathering). The design should be user-friendly and easy to understand for public transport operators for pilot implementation. 2. Further Development of the Product: Once the design is completed and pilot studies are started, the software prototype will be built, and any development will be conducted based on identified technical or usage issues.

Task Type Technology Maturation

Task Leader Baris, MB (Metin) | Parabol

Start / End Date 03-Jul-2023 15-Feb-2024

Deliverable Reference DEL02 The Business/Product Plan - EE250 Parabol

Total Costs 97,125 €

Task ID A2304

Task Title Data Collection and Requirement Gathering

Task Description This task involves collecting and processing static and dynamic data related to the demand for stops, routes, and passengers, transforming it into the General Transit Feed Specification (GTFS) format, and gathering requirements from stakeholders to develop a software solution for public transport operators. The task will include the following: - Collect static and dynamic data related to public transport demand using appropriate tools and methods - Convert collected data into digital format and transform it into the GTFS standard, - Set up infrastructure for data management and processing, and centralize the data, - Conduct research to identify scenarios and functionality required by public transport operators, - Gather input and feedback from stakeholders, including public transport operators, users, and other relevant parties, - Create a list of software requirements and prioritize them based on user needs, - Develop use cases and user stories to clarify requirements, - Finalize software requirements documentation to guide the software development process.

Task Type Technology Maturation

Task Leader Baris, MB (Metin) | Parabol

Start / End Date 14-Jun-2023 14-Jul-2023

Deliverable Reference DEL03 Study Visits Report - EE250 Parabol

Total Costs 5,937 €

Task ID	A2305
Task Title	Pilot Testing in Antalya
Task Description	In this task, the pilot implementation of the public transport decision support tool will be carried out in the city of Antalya. The first step will be to set up the necessary infrastructure, including hardware and software, to support the tool's operation. Next, the tool will be installed and configured to work with the data collected and processed in the previous phase. The pilot test will then be conducted, with public transport operators and other stakeholders using the tool in real-life scenarios. The performance and functionality of the tool will be monitored closely during the pilot phase, and any issues or bugs will be identified and addressed promptly. Feedback will be gathered from users, and continuous improvements and optimizations will be made to the tool based on this feedback. Once the pilot phase is completed, a comprehensive evaluation report will be prepared, outlining the results of the pilot test by Antalya Metropolitan Municipality, including feedback from users, and technical issues encountered. Also, based on feedback, Parabol will make improvements or modifications that are needed to the tool. The report will also include recommendations for further development and deployment of the tool to other cities.
Task Type	Technology Validation
Task Leader	Çiftçibasi Güç, (Zeynep Tugçe) Antalya Metropolitan Municipality
Start / End Date	01-Aug-2023 16-Feb-2024
Deliverable Reference	
Total Costs	88,750 €

Task ID	A2306
Task Title	Pilot Testing in Vignola
Task Description	This task involves the implementation of the pilot project in the city of Vignola. The following steps will be taken to ensure successful implementation: Tool Deployment and Testing: The developed decision support tool will be deployed in the pilot testing area in Vignola, and a scenario analysis will be conducted. The tool's technical performance, usability, and functionality will be tested, and bugs or technical issues will be identified and addressed. User Feedback and Continuous Improvement: Feedback from users, including public transport operators and passengers, will be gathered during the pilot implementation phase. Continuous improvements and optimizations will be made to the decision support tool based on user feedback by Parabol. Pilot Results Analysis: The results of the pilot implementation in Vignola will be analyzed to evaluate the performance of the decision support tool in a real-world environment. The results will be used to inform further improvements and refinements to the tool. Documentation and Reporting: Documentation will be prepared to report on the pilot implementation results and provide a comprehensive analysis of the tool's performance. The documentation will be used to inform the final report and other dissemination activities.
Task Type	Technology Validation
Task Leader	Quartieri, EQ Mrs (Elisa) Comune Di Vignola
Start / End Date	01-Aug-2023 26-Jan-2024
Deliverable Reference	
Total Costs	95,375 €

BUDGET OVERVIEW

	2023	2024	2025	Total
EIT Funding (€)	212,962.00 €	32,175.00 €	0.00 €	245,137.00 €
Co-Funding (€)	114,662.00 €	17,325.00 €	0.00 €	131,987.00 €

Total KAVA Funding (€)

327,624.00 € 49,500.00 € 0.00 € 377,124.00 €

Total FTE

10.90 FTE 2.00 FTE 0.00 FTE 12.90 FTE

BUDGET JUSTIFICATION

A. Personnel justification (max 1000 characters)

Total personnel costs to an amount of 249,850.00 €. The planned FTE for the entire project tasks sums up to 12.90 FTE FTE with an average cost of 19,368.22 € / FTE.

The personnel budget breakdown includes key roles such as a project manager, business developers, senior engineers, software developers, senior experts, and operators. Each role plays a critical part in ensuring the success of the project. By developing a multidisciplinary team, the development and demonstration will be successful and the product can achieve higher market penetration, faster growth, and meet the required standards.

The FTE related budget for the catalyst tasks is €249,850.00. The planned FTE for the catalysts tasks is 12.90 FTE, with an average cost of €19,368.22 / FTE. The following is a breakdown of FTE costs per skill level:

0.2 FTE for Project Manager at an average cost of €3,500 with a total cost of €6,300.

2.3 FTE for Business Developers at an average cost of €2,300 with a total cost of €47,610.

2.5 FTE for Senior Engineers at an average cost of €2,200 with a total cost of €49,500.

2.7 FTE for Software Developers at an average cost of €2,000 with a total cost of €48,600.

3 FTE for Senior Experts at an average cost of €2,500 with a total cost of €67,500.

2.2 FTE for Operators at an average cost of €1,500 with a total cost of €29,700.

This breakdown will help to allocate the personnel budget efficiently and ensure that the project can be completed successfully within the available budget.

C.1 Travel and subsistence justification (max 1000 characters)

Costs to an amount of 50,000.00 €.

The travel budget of 50,000.00 € includes several important activities such as attending the Smart City Expo for each partner representative and conducting study visits for pilot implementations in Vignola and Antalya.

For Smart City Expo:

- Ankara to Barcelona & Barcelona to Ankara (5 days/2 person)

- Antalya to Barcelona & Barcelona to Antalya(3 days/2 person)

- Vignola to Barcelona & Barcelona to Vignola (3 days/2 person)

For Pilot Study Visit in Vignola:

- Ankara to Vignola & Vignola to Ankara (3 days/2 person)

- Antalya to Vignola & Vignola to Antalya(3 days/2 person)

For Pilot Study Visit in Antalya:

- Ankara to Antalya & Antalya to Ankara (3 days/2 person)

- Vignola to Antalya & Antalya to Vignola (3 days/2 person)

It includes per diems, flight and bus tickets, and accommodation. These activities are critical for project dissemination and achieving project objectives. The Smart City Expo provides an opportunity for partners to showcase project outcomes, network with potential stakeholders, and gain insights into the latest smart city developments. The study visits will enable partners to understand the local context and test the pilot in real-world environments, which will provide valuable feedback for the project's success.

C.2 Equipment justification (max 1000 characters)

Costs to an amount of 16,900.00 €.

The purchase of two computers and cloud space is essential for the success of the project management and software development. To accomplish these tasks, it is imperative to have dedicated computers that are optimised for software development and project management.

One of the computers will be utilised by the project team for developing the software, testing and debugging the code, and managing project-related tasks. The team members will require access to powerful hardware that can efficiently run multiple software tools and programs simultaneously. The other one will be dedicated to the project management.

Furthermore, the project involves a considerable amount of data that needs to be stored securely. Cloud space is the best option for storing data as it provides flexibility, scalability, and high levels of security. With cloud storage, the project team will have access to the data from anywhere, at any time, and can collaborate with other team members and partner organizations easily. Lastly, it is worth noting that the computers and equipment required for other tasks will be provided by the organizations.

In summary, the purchase of two computers and cloud space is critical for the successful completion of the project. Without these essential tools, the project's progress and timelines will be affected, and the project team's efficiency and productivity will be compromised. Therefore, it is highly recommended that the purchase of these equipment be approved to ensure the project's success.

5B. BUDGET SUMMARIES

BUDGET BY YEAR

Budget Year	KAVA Costs	EIT Funding	Co Funding	EIT %	CO FUNDING %
2023	327,624.00 €	212,962.00 €	114,662.00 €	65 %	35 %
2024	48,500.00 €	32,175.00 €	17,325.00 €	65 %	35 %
Grand Total	377,124.00 €	245,137.00 €	131,987.00 €	65 %	35 %

BUDGET BY RESPONSIBLE PARTNER / YEAR

Partner	Budget Year	KAVA Costs	EIT Funding	Co Funding	EIT %	CO FUNDING %
▼ 441 Antalya Metropolitan Municipality	2023	75,250.00 €	48,913.00 €	26,337.00 €	65 %	35 %
441 Antalya Metropolitan Municipality Total		75,250.00 €	48,913.00 €	26,337.00 €	65 %	35 %
▼ EE1591 Comune Di Vignola	2023	75,312.00 €	48,955.00 €	26,357.00 €	65 %	35 %
EE1591 Comune Di Vignola Total		75,312.00 €	48,955.00 €	26,357.00 €	65 %	35 %
▼ EE250 Parabol	2023	177,062.00 €	115,094.00 €	61,968.00 €	65 %	35 %
2024	49,500.00 €	32,175.00 €	17,325.00 €	65 %	35 %	
EE250 Parabol Total		226,562.00 €	147,269.00 €	79,293.00 €	65 %	35 %
Grand Total		377,124.00 €	245,137.00 €	131,987.00 €	65 %	35 %

BUDGET BY COST CATEGORY

	2023	2024	Grand Total
A. Personnel	210,250.00 €	36,600.00 €	248,850.00 €
B. Subcontracting	.00 €	.00 €	.00 €
C.1 Travel and subsistence	50,000.00 €	.00 €	50,000.00 €

	2023	2024	Grand Total
C.2 Equipment	16,900.00 €	.00 €	16,900.00 €
C.3 Other goods, works and services	.00 €	.00 €	.00 €
D.1 Financial support to third parties	.00 €	.00 €	.00 €
D.2 Internally invoiced goods and services	.00 €	.00 €	.00 €
D.3 Access to research infrastructure	.00 €	.00 €	.00 €
E. Indirect Costs	50,474.00 €	9,900.00 €	60,374.00 €
Grand Total	327,624.00 €	49,800.00 €	377,424.00 €

BUDGET BY COST CATEGORY / RESPONSIBLE PARTNER

	2023	2024	Grand Total
▼ A. Personnel			
441 Antalya Metropolitan Municipality	61,750.00 €		61,750.00 €
EE1591 Comune Di Vignola	46,750.00 €		46,750.00 €
EE250 Parabol	101,750.00 €	39,600.00 €	141,350.00 €
A. Personnel Total	210,250.00 €	39,600.00 €	249,850.00 €
▼ B. Subcontracting			
441 Antalya Metropolitan Municipality	.00 €		.00 €
EE1591 Comune Di Vignola	.00 €		.00 €
EE250 Parabol	.00 €	.00 €	.00 €
B. Subcontracting Total	.00 €	.00 €	.00 €
▼ C.1 Travel and subsistence			
441 Antalya Metropolitan Municipality	13,500.00 €		13,500.00 €
EE1591 Comune Di Vignola	13,500.00 €		13,500.00 €
EE250 Parabol	23,000.00 €	.00 €	23,000.00 €
C.1 Travel and subsistence Total	50,000.00 €	.00 €	50,000.00 €
▼ C.2 Equipment			
441 Antalya Metropolitan Municipality	.00 €		.00 €
EE1591 Comune Di Vignola	.00 €		.00 €
EE250 Parabol	16,900.00 €	.00 €	16,900.00 €
C.2 Equipment Total	16,900.00 €	.00 €	16,900.00 €
▼ C.3 Other goods, works and services			
441 Antalya Metropolitan Municipality	.00 €		.00 €
EE1591 Comune Di Vignola	.00 €		.00 €
EE250 Parabol	.00 €	.00 €	.00 €
C.3 Other goods, works and services Total	.00 €	.00 €	.00 €
▼ D.1 Financial support to third parties			
441 Antalya Metropolitan Municipality	.00 €		.00 €
EE1591 Comune Di Vignola	.00 €		.00 €
EE250 Parabol	.00 €	.00 €	.00 €
D.1 Financial support to third parties Total	.00 €	.00 €	.00 €

	2023	2024	Grand Total
▼ D.2 Internally Invoiced goods and services			
441 Antalya Metropolitan Municipality	.00 €		.00 €
EE1591 Comune Di Vignola	.00 €		.00 €
EE250 Parabol	.00 €	.00 €	.00 €
D.2 Internally Invoiced goods and services Total	.00 €	.00 €	.00 €
▼ D.3 Access to research infrastructure			
441 Antalya Metropolitan Municipality	.00 €		.00 €
EE1591 Comune Di Vignola	.00 €		.00 €
EE250 Parabol	.00 €	.00 €	.00 €
D.3 Access to research infrastructure Total	.00 €	.00 €	.00 €
▼ E. Indirect Costs			
441 Antalya Metropolitan Municipality	.00 €		.00 €
EE1591 Comune Di Vignola	15,062.00 €		15,062.00 €
EE250 Parabol	35,412.00 €	9,900.00 €	45,312.00 €
E. Indirect Costs Total	50,474.00 €	9,900.00 €	60,374.00 €
Grand Total	327,624.00 €	49,500.00 €	377,124.00 €

BUDGET BY WORK PACKAGE / YEAR

Work Package	Budget Year	KAVA Costs	EIT Funding	Co Funding	EIT %	CO FUNDING %
▼ A2301 Activity Management	2023	14,000.00 €	9,100.00 €	4,900.00 €	65 %	35 %
A2301 Activity Management Total		14,000.00 €	9,100.00 €	4,900.00 €	65 %	35 %
▼ A2302 Dissemination and Business Model Development	2023	26,437.00 €	17,185.00 €	9,252.00 €	65 %	35 %
	2024	49,500.00 €	32,175.00 €	17,325.00 €	65 %	35 %
A2302 Dissemination and Business Model Development Total		75,937.00 €	49,360.00 €	26,577.00 €	65 %	35 %
▼ A2303 Software Design and Development	2023	97,125.00 €	63,132.00 €	33,993.00 €	65 %	35 %
A2303 Software Design and Development Total		97,125.00 €	63,132.00 €	33,993.00 €	65 %	35 %
▼ A2304 Data Collection and Requirement Gathering	2023	5,937.00 €	3,861.00 €	2,076.00 €	65 %	35 %
A2304 Data Collection and Requirement Gathering Total		5,937.00 €	3,861.00 €	2,076.00 €	65 %	35 %
▼ A2305 Pilot Testing in Antalya	2023	88,750.00 €	57,895.00 €	31,051.00 €	65 %	35 %
A2305 Pilot Testing in Antalya Total		88,750.00 €	57,895.00 €	31,051.00 €	65 %	35 %
▼ A2306 Pilot Testing in Vignola	2023	95,375.00 €	61,895.00 €	33,380.00 €	65 %	35 %
A2306 Pilot Testing in Vignola Total		95,375.00 €	61,895.00 €	33,380.00 €	65 %	35 %
Grand Total		377,124.00 €	245,137.00 €	131,987.00 €	65 %	35 %

6. FEEDBACK

Time Stamp: 14 July 2023 10:53 AM






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Final Audit Report

2023-08-04

Created:	2023-08-03
By:	Office EIT Urban Mobility (office@eiturbanmobility.eu)
Status:	Signed
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