Guide for Applicants

EIT Urban Mobility Scale-up Programme

EIT Urban Mobility
05 May 2022

Contents

1. GENERAL INFORMATION 2
2. OFFERING – TERMS AND CONDITIONS 2
3. TIMETABLE - DEADLINES 3
4. ELIGIBILITY 5
5. APPLICATION PROCESS 6
6. EVALUATION PHASES AND CRITERIA 7
7. COMMUNICATION OF RESULTS 7
8. SELECTED PILOTS AND STARTUPS 8
9. SUPPORT AND CONTACT 8
1. ANNEX 1 - Pilot Challenges information 9
    1. Hamburger Hochbahn AG: Real time information about occupancy of busses and trains. 10
    2. City of Tampere: Traffic Management. 11
    3. Prague 1 Municipal District: Digital regulation of mobility services. 12
    4. City of Munich: City Logistics Marketplace. 13
    5. Prague 1 Municipal District: EV Charging infrastructure. 15
    6. City of Madrid: Secure bicycle parking. 16
    7. Prague City Hall: Logistics Optimization. 17
    8. City of Helmond: Autonomous vehicles. 18
    9. City of Madrid: Parking and docking stations for micro-mobility. 20
    10. Wolfsburg AG: Mobility as a Service (parking). 21
    11. IDIADA: Charging Infrastructure / Digital product. 22
    12. TUSGSAL: Mobility patterns based on data collection. 23
    13. DB Station&Service AG: Positioning System. 24
    14. TUSGSAL: Monitoring electric buses. 25
    15. Prazska energetika, a.s.: Optimization charging infrastructure. 26
ANNEX 2 - Application form 27
ANNEX 3 - 1st phase – Online evaluation criteria 30

1. GENERAL INFORMATION

EIT Urban Mobility is an initiative supported by the European Institute of Innovation and Technology (EIT) acting to accelerate positive change on mobility to make urban spaces more liveable since January 2019. We aim to become the largest European initiative transforming urban mobility. Business Creation thematic area aims to become the reference in the market for supporting and funding gender-balanced start-ups within urban mobility.

EIT Urban Mobility Scale-up is a programme from Business Creation thematic area.

EIT Urban Mobility Scale-up identifies the 12 most promising start-ups with solutions for sustainable urban mobility. Their product should be in a mature state, which means a technological readiness level (TRL) of 7-9. The programme provides for the selected teams support for their international growth phase. One core offering of the program is the implementation of pilot projects. In total, seven pilots shall be conducted to tackle challenges provided by industries, cities and regions across Europe. The goal is to boost market penetration for their disruptive urban mobility solution with a recognizable impact on sustainability. The consortium will apply already proven methodologies, validated in previous KAVAs with a similar approach, for scouting, selection, mentoring and piloting their solution.
The participants are expected to increase their enterprise value by widening their stakeholder's networks, gaining experience with pilot projects and be more visible and recognized across Europe for both customers, clients, partners, and future employees. The EIT Urban Mobility community will benefit from a pool of disruptive solutions from the selected start-ups that contribute to solving their specific challenges or for cooperation or to invest in them, as achieved in previous KAVAs.

This Guide for Applicants provides the needed information for applicants of EIT Urban Mobility Scale-up call.

2. OFFERING – TERMS AND CONDITIONS

EIT Urban Mobility Scale-up programme will offer to 12 selected applicants distributed in two different Paths. 5 participants selected for Path A of the programme, 7 participants selected to Path B of the programme.

Benefits for selected teams in Path A

- Travel voucher of 2.500 EUR per team
- Participation at internal and high-level start-up events:
    - Future Mobility Summit 2022, Berlin, 7 - 8 September 2022
    - Start-up World Cup & Summit, Prague, 10-11 October 2022
    - Tomorrow.Mobility World Congress, Barcelona, 15 - 17 November 2022
- Coaching and mentoring by industry experts and experienced founders
- Up to €25.000 worth of support services provided by programme partners
- Support by the strong EIT Urban Mobility network to scale sustainable mobility
- Increased visibility via presentation on events, EIT Urban Mobility website, start-up and social media activities

- Access to investors via VC networking and pitches
- Access to EIT Urban Mobility investment initiatives and funding instruments

Benefits for selected teams in Path B

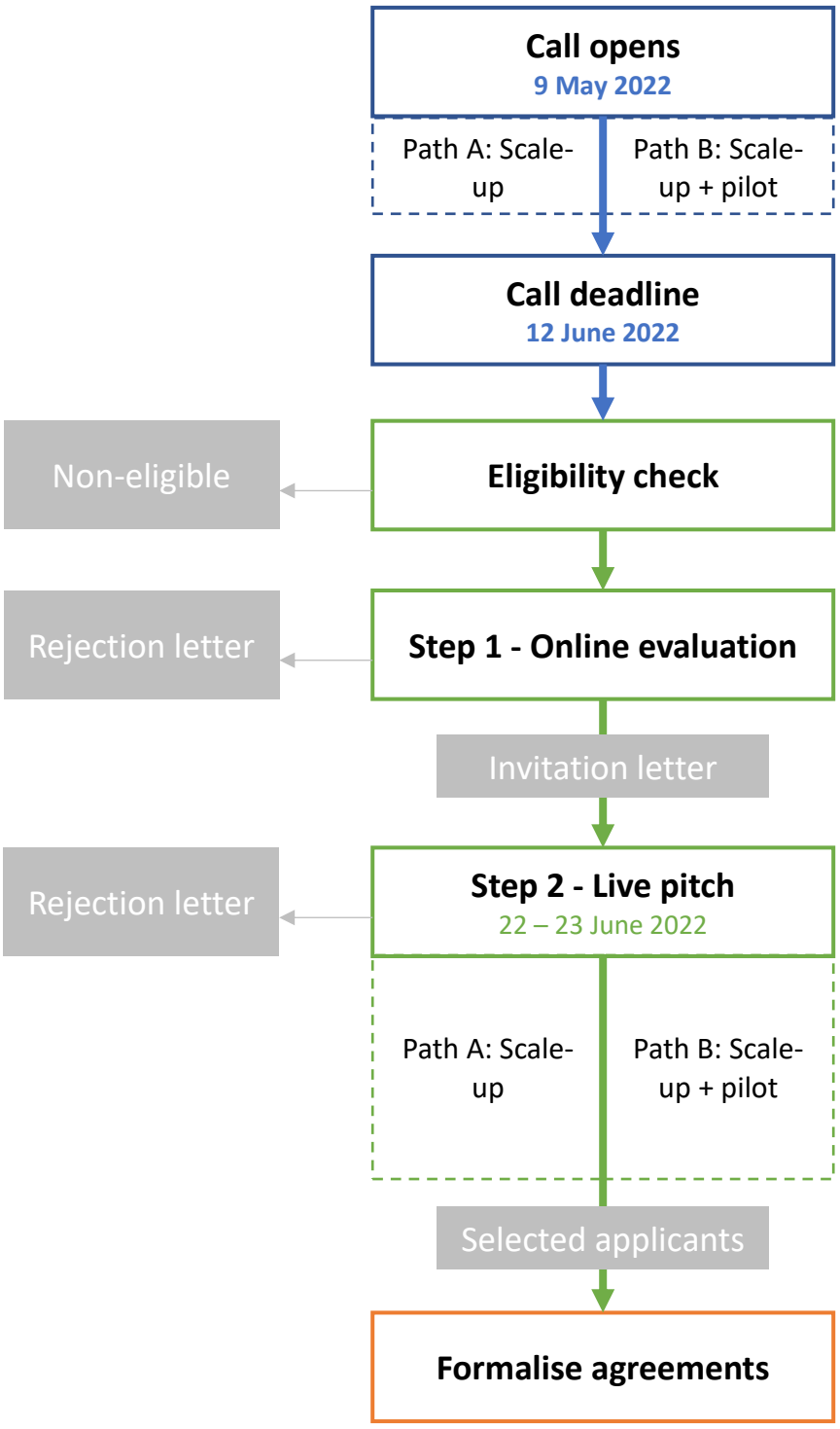
- Benefits from Path A
- Pilot project together with cities or industry partners to tackle a given challenge
- Personal support during the pilot project phase by EIT Urban Mobility network
- Access to co-working spaces and innovation labs (depending on challenge owner)
- Optional financial support up to 50.000 EUR during the pilot project phase in exchange for equity or equivalent.

EIT Urban Mobility offers to Scale-up pilot path B funding of up to €50.000 based on the applicant's offered contribution to EIT Urban Mobility Financial Sustainability contribution and upon acceptance of EIT Urban Mobility. Financial selection will be scheduled in a separated call.

3. TIMETABLE - DEADLINES

Stage of the call	Date
Call opens	9 May 2022
Deadline	12 June 2022
1st phase: evaluation of applications	13 June 2022 to 19 June 2022
Announcement of phase 2 shortlist.	20 June 2022
2nd phase: online pitch session	22-23 June 2022
Communication of results	24 June 2022
Formalization of agreements and Grant Receipt (only for path B: Scale-up + pilot)	24 -28 June 2022
Programme estimated start date	1 July 2022

Application process



Selection process

20 June 2022

28 June 2022

Communication of results, formalisation of agreements and start of programme

4. ELIGIBILITY

All applicants will have to comply with the following **eligibility criteria**:

- A clear, **scalable business idea**
- Duly justified, **minimum TRL 4, preferably TRL 7 – 9, a**ccording to TRL definition in Horizon Europe – Work Programme 2021-2022 General Annexes B – Eligibility (page 10)
- **STARTUP incorporated in EU or EU associated countries** according to the official list of countries by the European Union and third countries associated to Horizon Europe
- Start-ups should have received **less than 1 million EUR revenues** (accumulated over last fiscal year)
- **No more than 5% of your shares are held outside of the eligible countries** (no detailed cap table needed)
- A team with at least **3 FTE** (NOT a single founder): minimum 1 team member pursuing the start-up fulltime (not necessarily connected to monetary compensation)
- **Founders and employees** (e.g. Employee Stock Option Programme) should preferably still own more than **70% of total shares**
- **FIT with EIT Urban Mobility Scale-up Programme:** Teams will be asked to elaborate how they will engage and contribute to the Scale-up programme
- Applicants who participated in Scale-up Hub (2020) or ScaleTHENGlobal (2021) are **NOT** eligible for Scale-up call.
- **Contribute** to any of the **EIT Urban Mobility's challenge areas** for products (goods or services) or processes launched on the market;
    - Future Mobility
    - Active Mobility
    - Sustainable City Logistics
    - Mobility and Energy
    - Public Realm

Additional eligibility criteria for Path B Scale-up + Pilot applicants:

- Teams will be asked to elaborate on their fit to solve one of the city challenges and potential to execute a pilot.
- Information about the challenges is shown in ANNEX 1 - Pilot Challenges information.

5. APPLICATION PROCESS

Go to https://eiturbanmobility.awardsplatform.com/ (PLATFORM)

STARTUP representatives must **register and validate the account** if this is the first time accessing the platform. If STARTUP representative has already created an account, proceed to **log in**.

Once logged in, start a **new application,** in Chapter select EIT UM – Business Creation and **select EIT Urban Mobility Scale-Up Programme 2022** in Category as Shown in Figure 1.

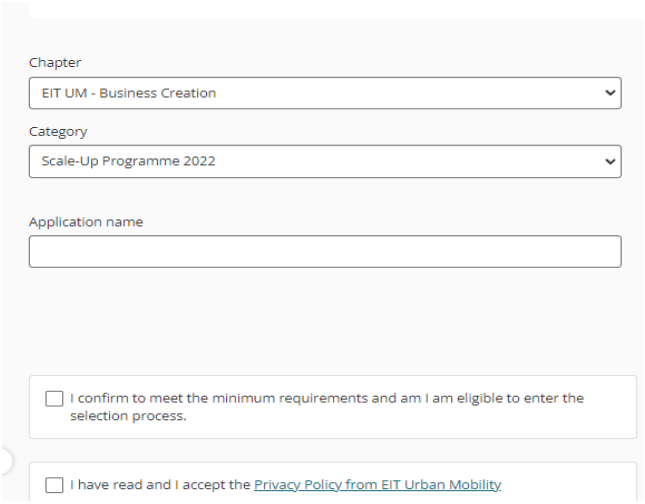


Figure 1: Selection of the EIT Urban Mobility Scale-up Programme 2022

During the application all compulsory fields must be filled. Details about the application form, sections and required information are included in ANNEX 2 – Application form, sections and required information.

Remember: **save and submit** your proposal before the call is closed. Only applications **submitted** before the call deadline will be evaluated.

Please be aware that an application should be submitted for every challenge selected with a maximum of 2 submissions per start-up.

6. EVALUATION PHASES AND CRITERIA

The evaluation of proposals and fit with the defined challenges will be conducted in **two steps**:

1st phase – Online evaluation

STARTUP applications will first be reviewed online by a **panel composed by at least 4 evaluators** with same weighting of scores:

- 1 member from EIT Urban Mobility – Business Creation area (1/4)
- 3 external experts nominated by consortium partners (1/4)

For evaluation criteria, see Annex 3. Top 24 ranked STARTUP applications by challenge will qualify to phase 2 – live pitch.

2nd phase – Live pitch

STARTUPs will pitch their pilot proposal to a **panel composed by at least 4 jury members**:

- 1 member from EIT Urban Mobility – Business Creation area
- 2 external experts nominated by consortium partners
- 1 person from the organisation, which submitted the challenge of each applicant or one external expert, e.g. researcher or industry expert

The format of the live pitch will be 3 minutes' presentation by the STARTUP and up to 5 minutes' questions from the jury panel.

Further information about the 2nd phase – Live pitch will be provided to selected start-ups in 1st phase – Online evaluation.

The final selection of the STARTUP will be agreed by the jury members in a consensus meeting.

7. COMMUNICATION OF RESULTS

Results will be communicated to the email of the STARTUP representative registered at the PLATFORM. *Note: Please, check your junk folder*.

Phase 1 results will include a rejection letter or invitation letter to phase 2 of the evaluation process and the scores obtained for each evaluation criteria as well as overall cut-off threshold.

Phase 2 results will include a rejection letter or the announcement to selected start-up according to the decision taken in the consensus meeting.

Individual scores and comments made by evaluators will remain confidential. There is no appeal process.

Please be aware that one start-up will ONLY be selected for conducting one pilot.

8. SELECTED PILOTS AND STARTUPS

Selected STARTUPs will have to diligently collaborate to:

- Drawing-up the Scale-up Programme Documentation (Sub-Granting Agreement)
- Agree on pilot project plan and agenda for implementation with city/industry representative
- Provide the documents required for reporting purposes of Scale-up Programme activities towards EIT.
- Actively promote the pilot to reach a public audience
- Attend to the programme events and activities

9. SUPPORT AND CONTACT

For any questions regarding **EIT Urban Mobility Guide for Applicants** you can contact business.creation@eiturbanmobility.eu
For any questions regarding the **PLATFORM**, please use the chat function https://eiturbanmobility.awardsplatform.com/

1. ANNEX 1 - Pilot Challenges information

Eligible Challenges to apply for pilots are shortly summarized below. Detailed information is described for each challenge in the following pages:

1. Hamburger HOCHBAHN: Services for mobility customers - Push the transport revolution by providing data to offer passengers as much information and comfort as possible.
2. City of Tampere: Traffic Management - Learn how to use and utilize drones automatically in traffic management and traffic jam situations.
3. Prague 1 Municipal District: Digital regulation of mobility services - Find a harmony between promoting active clean micro-mobility in cities and operating these sharing services in a way that is consistent with other users of the area.

4. City of Munich: City Logistics Marketplace - Gather insights and develop a digital B2B marketplace that brings together operators of private or commercial spaces.
5. Prague 1 Municipal District: EV Charging infrastructure - Develop evidence-based decision-making support tool aiding with the placement of new charging infrastructure while monitoring and evaluating their use.
6. City of Madrid: Secure bicycle parking - Implement safe and secured bicycle parking with the possibility of charging e-bikes, located in strategic points.
7. Prague City Hall: Logistics Optimization - Reduce the negative impacts of urban logistics on public space, reducing the number of vehicles parked on sidewalks.
8. City of Helmond: Autonomous vehicles - Advance the technologies for AVs Status quo by solving one of the detailed challenges in the support documentation.
9. City of Madrid: Parking and docking stations for micro-mobility - Implement parking and docking stations for micro-mobility (bikes, e-bikes, e-scooters) of private customers or sharing companies that need users to park or charge their devices
10. Wolfsburg AG: Mobility as a Service (parking) - Increase user experience and reduce parking searching times by working on reservation feature connected with indoor navigation to pre-reserve parking lots, based on existing parking sensors (RFID).
11. IDIADA: Charging Infrastructure / Digital product - Design a system to be installed between the charging station and vehicle that will allow data collection, viewing, evaluation and validation of the charging process.
12. TUSGSAL: Mobility patterns based on data collection - Evaluate the feasibility, time, cost, risk and performance of an automated passenger counting system in a bus line operated by TUSGSAL.
13. DB Station&Service AG: Positioning System - Solve GPS location inaccuracies of micro-mobility vehicles, especially present at railroad stations due to overhead wires.
14. TUSGSAL: Monitoring electric buses - Test an innovative solution into a sample of TUGSAL's electric vehicle to provide insights into the state-of-charge of the buses.
15. Prazska energetika, a.s.: Optimization charging infrastructure - Optimize the output of charging points in shared garages in residential areas.

1. Hamburger Hochbahn AG: Real time information about occupancy of busses and trains.

Name of your organization or city	Hamburger HOCHBAHN AG
Country where the pilot will take place.	Germany
City where the pilot will take place.	Hamburg
Sector that fits best the formulated challenge?	Services for mobility customers / public transport
Description of the challenge. Why is it relevant for your organization and the field of mobility?	To increase the modal split of public transportation and push the transport revolution we want to offer our passengers as much information and comfort as possible. Providing information about the occupancy of busses and trains brings many advantages for our passengers (p.e. higher chance for a seat, relaxed journey, keeping distance…) and for our company (p.e. shorter times for change of passengers, steady distribution throughout the day/train, data for replacement services…) as well.
What is your goal with regards to conducting a pilot, and what is the status quo concerning the challenge?	We want to find out whether the **analysis of videos of security cameras** in trains and/or busses are a convincing technology for the display of occupancies. Since the beginning of 2021 we are part of a nationwide team (BRAIN) who focusses on the definition of uniform standards for the display of occupancy for passengers in public transportation. Furthermore, we have a running pilot project which deals with the analysis of WIFI and Bluetooth signals to analyse the loading of busses.
How much time can you dedicate per month to a start-up to support them while developing a solution?	More than one day.
At which location do you plan to conduct the pilot project?	A specific living lab or test environment.
What is the specific location or area to conduct the pilot? You may add a link to map.	Busses or underground trains operating in Hamburg.
Who are the end users of the service provided in the pilot project?	End user of the product: passengers, employees in the control centre, traffic planner, stakeholder… In the pilot project: focus on internal analysis of the technology.
What will be the expected short-term impact of the pilot project? (less than one year)	We want to collect information and gain experience whether the analysis of videos of security cameras can be a suitable technology for a display of occupancies, decision for a technology, preparation of roll-out.
What will be the expected long-term impact of the pilot project? (more than one year)	Launch of a display of occupancies for the passenger in real time through various publishing channels (app, web, display at train/bus stops).
Which resources can you provide for start-ups to work on a solution to tackle your challenge?	Additional mentoring, testing facility or living lab environment, giving visibility by communication material; Due to the short notice in which we submitted our use case, we were honestly not able to coordinate this within the company.
Expected start date of pilot	August 2022
Expected end date of pilot	2023

2. City of Tampere: Traffic Management.

Name of your organization or city	City of Tampere
Country where the pilot will take place.	Finland
City where the pilot will take place.	Tampere
Sector that fits best the formulated challenge?	Traffic Management
Description of the challenge. Why is it relevant for your organization and the field of mobility?	How to use and utilize drones automatically in traffic management and traffic jam situations.
What is your goal with regards to conducting a pilot, and what is the status quo concerning the challenge?	Goal is that we have drone system which works automatically and is activates by data, such as warning messages or city tunnel closed status.
How much time can you dedicate per month to a start-up to support them while developing a solution?	Half a day one day.
At which location do you plan to conduct the pilot project?	The whole city.
What is the specific location or area to conduct the pilot? You may add a link to map.	Whole City, especially around Citytunnel.
Who are the end users of the service provided in the pilot project?	City council, traffic management center and citizens.
What will be the expected short-term impact of the pilot project? (less than one year)	More information about the traffic system during incidents.
What will be the expected long-term impact of the pilot project? (more than one year)	Automatic drone system for data collection.
Which resources can you provide for start-ups to work on a solution to tackle your challenge?	Mentoring and marketing, using traffic network as a testbed.
Expected start date of pilot	Not earlier than September 2022
Expected end date of pilot	End of year 2022

3. Prague 1 Municipal District: Digital regulation of mobility services.

Name of your organization or city	Prague 1 Municipal District
Country where the pilot will take place.	Czech Republic
City where the pilot will take place.	Prague
Sector that fits best the formulated challenge?	Digital regulation of mobility services primarily electric scooters
Description of the challenge. Why is it relevant for your organization and the field of mobility?	To find a harmony between promoting active clean micro-mobility in cities and operating this sharing services in a way that is consistent with other users of the area. The aim is to clearly define the parameters for the use of these services, which will also make it easier for their users to navigate.
What is your goal with regards to conducting a pilot, and what is the status quo concerning the challenge?	The city wants to regulate mobility services (bikesharing, e-scooter sharing) to ensure on the one hand effective support of these services, but also to regulate them on the territory of Prague 1 (parking, traffic slowdowns) and thus ensure harmony between users and other residents/visitors. Currently, traffic is regulated only by a voluntary memorandum with service providers, which is not effective because, for example, improperly dropped e-scooters gather in the streets.
How much time can you dedicate per month to a start-up to support them while developing a solution?	More than one day.
At which location do you plan to conduct the pilot project?	Prague 1 District city area
What is the specific location or area to conduct the pilot? You may add a link to map.	https://mapy.cz/zakladni?x=14.4114091&y=50.0861647&z=14&source=quar&id=87
Who are the end users of the service provided in the pilot project?	Users of shared services of e-bikes and e-scooters, and consequently all residents and visitors of Prague 1 District, who use public space.
What will be the expected short-term impact of the pilot project? (less than one year)	Rules for the regulation of digital mobility services and in particular bikesharing and e-scooter sharing, improving the movement and tracking of users of these services through the streets.
What will be the expected long-term impact of the pilot project? (more than one year)	Increase user and pedestrian awareness, reduce the number of accidents, improve the condition of public spaces (when parking these shared vehicles in designated spaces).
Which resources can you provide for start-ups to work on a solution to tackle your challenge?	Access to LivingLab Prague and use of support services of LivingLab members, joint promotion.
Expected start date of pilot	September 2022
Expected end date of pilot	Spring 2023

4. City of Munich: City Logistics Marketplace.

Name of your organization or city	City of Munich
Country where the pilot will take place.	Germany
City where the pilot will take place.	Munich
Sector that fits best the formulated challenge?	Online B2B Market Place for City Logistics Spaces, Online digital product.
Description of the challenge. Why is it relevant for your organization and the field of mobility?	In Munich, to enable sustainable city logistics, measures are needed to eliminate or shift truck-based delivery traffic. Promising solutions are cargo bike delivery schemes or cross-provider parcel lockers. To scale up such business models, spaces for micro depots or parcel lockers are required. However, Munich, similar to many cities, faces the challenge of scarcity of (logistics) space in city centres. In order to relieve high-density inner-city areas and boost innovative solutions, there is a need for a digital marketplace that brings together owners of private or commercial spaces (e.g. vacant storefronts, parking lots, parking garages) with potential tenants/users/logistics providers.
What is your goal with regards to conducting a pilot, and what is the status quo concerning the challenge?	The main goal is to gather insights into the required density or number of logistics spaces (multi-user micro-hubs) and on how to further develop a marketplace for logistics space (how to most effectively populate the database, appropriate marketing efforts, who are the customers, what do they need to optimize)? Establishment of a (prototype) digital marketplace for logistics space as a basis/enabler for the further development of urban logistics innovations. An evaluation of different sources of supply for space lessors as well as the suitability of different types of space will be carried out together with the logistics providers. Space regulatory demands are to be addressed by use cases.
How much time can you dedicate per month to a start-up to support them while developing a solution?	Half a day one day.
At which location do you plan to conduct the pilot project?	In an exemplary high density inner city district with lots of residential streets.
What is the specific location or area to conduct the pilot? You may add a link to map.	Establishment of at least one city district as a "real laboratory for sustainable urban logistics" (BA5 Au-Haidhausen is actively interested, BA2 Ludwigsvorstadt-Isarvorstadt has also signalled interest). https://stadt.muenchen.de/infos/bezirksausschuss5_au_haidhausen.html
Who are the end users of the service provided in the pilot project?	Industry, commerce, and trade will benefit from the possibility of marketing (temporarily) unused areas. People who operate and own the spaces, operators of commercial spaces (supply side) and Logistics providers (demand side), will be the users of the market place for logistics.
What will be the expected short-term impact of the pilot project? (less than one year)	Successful establishment of a logistics space database and marketplace promoting it to industry, commerce to lessors and tenants. Good read on feasibility on use of existing commercial spaces. Resulting in increase in customer bundled deliveries and reduction of CO2 pollution by parcel delivery, increase in the number of micro hubs, cross-provider packet stations/parcel stores in the living lab..

What will be the expected long-term impact of the pilot project? (more than one year)	The environmental benefit will be the reduction of emissions (air, noise) due to reduced truck deliveries, door-to-door deliveries and a shift to cargo bike or e-vehicle deliveries. Cargo bikes will replace the conventional logistics vehicles reducing vehicle congestion, reduction of accidents due to unlawful parking of delivery trucks. Result can be multiplicated to other districts or cities.
Which resources can you provide for start-ups to work on a solution to tackle your challenge?	A living lab as a demonstrator for developing use-cases, Expertise, acquire existing commercial spaces for use as micro-hubs, access to the existing databases.
Expected start date of pilot	July 2022- Dec 2022
Expected end date of pilot	Six months after the start of the pilot.

5. Prague 1 Municipal District: EV Charging infrastructure.

Name of your organization or city	Prague 1 Municipal District
Country where the pilot will take place.	Czech Republic
City where the pilot will take place.	Prague
Sector that fits best the formulated challenge?	EV Charging infrastructure
Description of the challenge. Why is it relevant for your organization and the field of mobility?	As a part of Prague's ambition to support adoption of e-mobility, the city seeks to develop evidence-based decision-making support tool aiding the municipality and local stakeholders with placing new charging infrastructure and with monitoring and evaluation of its use (should contain insights for initial infrastructure placement, provide multi-criterial assessment, monitor and evaluate of the infrastructure and its use to help its further development and management.
What is your goal with regards to conducting a pilot, and what is the status quo concerning the challenge?	The current charging infrastructure is placed randomly according to partial needs, not as a comprehensive development activity of the whole locality. This can bring challenges in terms of undersized capacity in the locality in the future, can result in additional installation costs and therefore it is preferable to base the whole process on data analysis of needs and resources using a smart solution.
How much time can you dedicate per month to a start-up to support them while developing a solution?	More than one day.
At which location do you plan to conduct the pilot project?	A specific living lab or test environment.
What is the specific location or area to conduct the pilot? You may add a link to map.	https://mapy.cz/zakladni?x=14.4114091&y=50.0861647&z=14&source=quar&id=87
Who are the end users of the service provided in the pilot project?	Municipal district officers for efficient planning and construction of new infrastructure and charging car owners as end users.
What will be the expected short-term impact of the pilot project? (less than one year)	Overview of current charging stations installed, planned, shown on the map with comparison to the number of users and further analysis of the surroundings (number of inhabitants/potential users), capacity of the transmission system in the locations with regard to further development.
What will be the expected long-term impact of the pilot project? (more than one year)	Effective overview and data analysis of all installed charging stations on the territory of the district, enabling their effective management and administration.
Which resources can you provide for start-ups to work on a solution to tackle your challenge?	Access to LivingLab Prague and use of support services of LivingLab members, joint promotion.
Expected start date of pilot	September 2022
Expected end date of pilot	Spring 2023

6. City of Madrid: Secure bicycle parking.

Name of your organization or city	City of Madrid
Country where the pilot will take place.	Spain
City where the pilot will take place.	Madrid
Sector that fits best the formulated challenge?	Micro-mobility, active mobility
Description of the challenge. Why is it relevant for your organization and the field of mobility?	The city of Madrid would like to implement safe and secured bicycle parking with the possibility of charging e-bikes, located in a strategic point where the users, after finishing their trips on the bike lane, and arrived at the city centre, they can park their bike safely in a shelter-secured parking to then use public transport.
What is your goal with regards to conducting a pilot, and what is the status quo concerning the challenge?	Goal: Upgrade the cycling infrastructure and enable citizens to park their bikes in the public space in a safe and secure mode, with the possibility also to charge their e-vehicles Status quo: Madrid wants to enhance active mobility and intermodality at mobility hubs, therefore they would like to offer citizens new secured parking spots for private bikes, both electric and non-electric in those strategic points. Currently there are not enough parking for bikes in the strategic areas of the city, especially where bike lanes cross with mobility hubs.
How much time can you dedicate per month to a start-up to support them while developing a solution?	Half a day one day.
At which location do you plan to conduct the pilot project?	A certain street.
What is the specific location or area to conduct the pilot? You may add a link to map.	Plaza Castilla, at the end of bike lane Castellana that connects railway station Chamartin (where the other challenge will be implemented), with Plaza Castilla's intermodal hub.
Who are the end users of the service provided in the pilot project?	Users of the bike infrastructures
What will be the expected short-term impact of the pilot project? (less than one year)	Providing a parking for private bikes to citizens in strategic areas of the city.
What will be the expected long-term impact of the pilot project? (more than one year)	Improving the cycling infrastructure in the city. Increase usage of bicycle as a means of transportation.
Which resources can you provide for start-ups to work on a solution to tackle your challenge?	Assistance in implement this pilot, help in administrative tasks and permits. Giving visibility by communications and dissemination.
Expected start date of pilot	Pilot estimated to start in June 2022
Expected end date of pilot	Pilot latest end date December 2022

7. Prague City Hall: Logistics Optimization.

Name of your organization or city	Prague City Hall
Country where the pilot will take place.	Czech Republic
City where the pilot will take place.	Prague
Sector that fits best the formulated challenge?	Logistics
Description of the challenge. Why is it relevant for your organization and the field of mobility?	Reducing negative impacts from urban logistics on public space
What is your goal with regards to conducting a pilot, and what is the status quo concerning the challenge?	Reduction in the number of vans using the sidewalks for parking due to delivery of goods and packages. Either through appropriate regulation of current operators, development of new alternative transport methods, etc.
How much time can you dedicate per month to a start-up to support them while developing a solution?	Half a day one day.
At which location do you plan to conduct the pilot project?	A specific living lab or test environment.
What is the specific location or area to conduct the pilot? You may add a link to map.	Selected district of Prague.
Who are the end users of the service provided in the pilot project?	City council, business customers, tourist, residents of Prague, pedestrians.
What will be the expected short-term impact of the pilot project? (less than one year)	Better logistics services that do not slow down or block surrounding traffic and do not take up public space.
What will be the expected long-term impact of the pilot project? (more than one year)	Better logistics services that do not slow down or block surrounding traffic and do not take up public space.
Which resources can you provide for start-ups to work on a solution to tackle your challenge?	Access to LivingLab Prague and use of support services of LivingLab members, joint promotion.
Expected start date of pilot	9/2022
Expected end date of pilot	3/2023

8. City of Helmond: Autonomous vehicles.

Name of your organization or city	City of Helmond
Country where the pilot will take place.	Netherlands
City where the pilot will take place.	City of Helmond
Sector that fits best the formulated challenge?	Autonomous vehicles
Description of the challenge. Why is it relevant for your organization and the field of mobility?	Autonomous shuttles are still under development. The legal framework is not yet adapted either. In this context, we aim to solve **at least one** of the technologic problems detected so far during the experimentation of these kind of solutions. The problems are the following: •When an AVs max speed is low (below 30 km/h) on a road with a 50 km/h speed limit overtaking by other vehicles, the safety must be ensured to avoid collision with other vehicles, and to ensure the safety of the passengers. The sensors are available, but they are not yet efficiently embedded in smart software. They are still learning the surroundings and they don't always have an immediate reaction. For instance, when a pedestrian or car crosses the street, the AV should stop. However, when an overtaking car is close to the AV, the vehicle should not stop. •There are issues when the AV must turn right (or left) at an intersection with blind/limited sight. The AV has problems in reacting with traffic signals, it could not recognise the signalisation of traffic (pedestrians, slow down, etc.). Therefore, the question is: How can digital infrastructure support AVs in getting a more complete picture of its environment? •Problems in entering a roundabout. So, how can PDI support AVs in order to enter a roundabout safely- taking into account the speed of the other vehicles approaching the roundabout? •Just after the roundabout other vehicles may turn right on a bypass lane. Then they merge on the main road with the traffic coming on their left (i.e. coming from the roundabout) on which the AV is driving. How to solve this issue? Requirements: •The vehicle that the start-up would use must be an already approved vehicle, allowed to drive in public road.
What is your goal with regards to conducting a pilot, and what is the status quo concerning the challenge?	Goal: Advancing the technologies for AVs Status quo: The city of Helmond has tested several times autonomous shuttle technologies but encountered some issues. Therefore, they would like to find solutions at least to one of these issues (listed above in the challenge description).
How much time can you dedicate per month to a start-up to support them while developing a solution?	Half a day one day.
At which location do you plan to conduct the pilot project?	A specific living lab or test environment.
What is the specific location or area to conduct the pilot? You may add a link to map.	In one of the areas provided by Helmond.

Who are the end users of the service provided in the pilot project?	The city of Helmond.
What will be the expected short-term impact of the pilot project? (less than one year)	Testing new technologies for Avs
What will be the expected long-term impact of the pilot project? (more than one year)	Mature automated driving technology ready for deployment for last miles passenger services as well as logistic deliveries.
Which resources can you provide for start-ups to work on a solution to tackle your challenge?	Provide the areas to test the Avs, and being available for any administrative task to support the test.
Expected start date of pilot	October 2022
Expected end date of pilot	December 2022

9. City of Madrid: Parking and docking stations for micro-mobility.

Name of your organization or city	City of Madrid
Country where the pilot will take place.	Spain
City where the pilot will take place.	Madrid
Sector that fits best the formulated challenge?	Micro-mobility, active mobility
Description of the challenge. Why is it relevant for your organization and the field of mobility?	Parking and docking stations for micro-mobility (bikes, e-bikes, e-scooters) of private customers or sharing companies that need users to park or charge their devices. The solution will be implemented in the exterior zone of the railway station Chamartin, in an area which is public space - belonging to the Municipality (Ayuntamiento de Madrid). The device must be a safe parking solution, and self-sufficient in energy production and consumption.
What is your goal with regards to conducting a pilot, and what is the status quo concerning the challenge?	Goal: Test viability of solutions to eventually incorporate them into the city Status quo: The city of Madrid and ADIF (stations owners) would like to offer intermodality services to its customers. Therefore, they would like to test a parking/docking station for micro-mobility vehicles at one of their stations in Madrid. They would like that such a solution could host both private vehicles and sharing mobility ones being able to be recharged at the docking station and also parked in a secured way.
How much time can you dedicate per month to a start-up to support them while developing a solution?	Half a day one day.
At which location do you plan to conduct the pilot project?	A certain street.
What is the specific location or area to conduct the pilot? You may add a link to map.	In front of the entrance of the Chamartin Station.
Who are the end users of the service provided in the pilot project?	Private citizens, owners of micro mobility, e-vehicles.
What will be the expected short-term impact of the pilot project? (less than one year)	Testing the use rate of this kind of solutions.
What will be the expected long-term impact of the pilot project? (more than one year)	Analyzing if effectively improves intermodality at the station and the modal shift in the city.
Which resources can you provide for start-ups to work on a solution to tackle your challenge?	Assistance in implement this pilot (in Chamartin Railway Station, Madrid), help in administrative tasks and permits. Giving visibility by communications and dissemination.
Expected start date of pilot	Pilot estimated to start in June 2022
Expected end date of pilot	Pilot latest end date December 2022

10. Wolfsburg AG: Mobility as a Service (parking).

Name of your organization or city	Wolfsburg AG
Country where the pilot will take place.	Germany
City where the pilot will take place.	Wolfsburg
Sector that fits best the formulated challenge?	Mobility as a Service (parking)
Description of the challenge. Why is it relevant for your organization and the field of mobility?	Wolfsburg AG runs an upgradable system of parking sensors based on RFID technology - based on this, we are looking for reservation feature connected with indoor navigation to find pre-reserved parking lots to increase user convenience and reduce search time
What is your goal with regards to conducting a pilot, and what is the status quo concerning the challenge?	Present proof of concept demonstrating efficient and reliable reservation and indoor navigation based on available occupancy data; API available
How much time can you dedicate per month to a start-up to support them while developing a solution?	More than one day.
At which location do you plan to conduct the pilot project?	A specific living lab or test environment.
What is the specific location or area to conduct the pilot? You may add a link to map.	Car Park, located in Major-Hirst-Straße, Wolfsburg, Germany
Who are the end users of the service provided in the pilot project?	Employees (various companies), visitors, living lab participants.
What will be the expected short-term impact of the pilot project? (less than one year)	Proof of Concept for desired solution.
What will be the expected long-term impact of the pilot project? (more than one year)	Development of reliable system to provide desired solution.
Which resources can you provide for start-ups to work on a solution to tackle your challenge?	Living Lab Environment (car park, 5G infrastructure, additional mentoring, communication efforts, physical space for workshops).
Expected start date of pilot	August 2022
Expected end date of pilot	November 2022

11. IDIADA: Charging Infrastructure / Digital product.

Name of your organization or city	IDIADA Automotive Technology S.A.
Country where the pilot will take place.	Spain
City where the pilot will take place.	Barcelona
Sector that fits best the formulated challenge?	Charging Infrastructure / Digital product
Description of the challenge. Why is it relevant for your organization and the field of mobility?	Applied research will be carried out for the design of a "logger" system to be installed between the charging station and the electric or hybrid vehicle and that will allow data collection, viewing, evaluation and validation of the charging process. This unit must be installed between the charging station and the vehicle or between the electrical network and the charging station. The unit shall have various connection options depending on the types and modes for DC and AC measurements. The data will be sent through a communication system that will allow different CAN channels to be configured separately for the definition of load profiles.
What is your goal with regards to conducting a pilot, and what is the status quo concerning the challenge?	To have a Data sniffer in V2G communication to be deployed in different locations to understand and monitor the charging process and profile.
How much time can you dedicate per month to a start-up to support them while developing a solution?	Half a day one day.
At which location do you plan to conduct the pilot project?	Combination of different types of charging stations (publics/privates; on the street/ on the parking; AC, DC,...; fast, ultra-fast,...).
What is the specific location or area to conduct the pilot? You may add a link to map.	Several areas to be identified in Barcelona.
Who are the end users of the service provided in the pilot project?	Our company and business customers (mainly OEMs when the size and representativeness of the data will be good enough.
What will be the expected short-term impact of the pilot project? (less than one year)	Validation of the logger and first set of data collected.
What will be the expected long-term impact of the pilot project? (more than one year)	Availability of the logger in the market and several cities and regions monitored.
Which resources can you provide for start-ups to work on a solution to tackle your challenge?	Additional mentoring, test bed (using our charging infrastructure), marketing.
Expected start date of pilot	July 2022
Expected end date of pilot	July 2023

12. TUSGSAL: Mobility patterns based on data collection.

Name of your organization or city	Tusgsal
Country where the pilot will take place.	Spain
City where the pilot will take place.	Badalona
Sector that fits best the formulated challenge?	Monitoring electric buses
Description of the challenge. Why is it relevant for your organization and the field of mobility?	Battery consumption in e-buses is variable depending on weather, topography, driving conditions, regenerative energy recovering, etc. and needs to be monitored for an efficient operation. The lack of insights into the state-of-charge of the buses means not being sure if the buses can finish their routes and when they need to be charged. TUSGSAL has currently implemented 12 e-buses (8 BYD and 4 Irizar) into their fleet. However, AMB (the public authority managing the bus network in the metropolitan area of Barcelona) and TUSGSAL plan to go for a full electric bus fleet in the next years.
What is your goal with regards to conducting a pilot, and what is the status quo concerning the challenge?	TUSGSAL's goal is to test an innovative solution into a sample of our electric vehicles. The information provided by this solution should help us in our internal decision-making processes about bus deployment, bus charging, etc.
How much time can you dedicate per month to a start-up to support them while developing a solution?	More than one day.
At which location do you plan to conduct the pilot project?	A specific living lab or test environment.
What is the specific location or area to conduct the pilot? You may add a link to map.	Metropolitan area of Barcelona (Spain). The pilot will take place in n electric buses (depending of the start-up) operated by TUSGSAL in the metropolitan area of Barcelona.
Who are the end users of the service provided in the pilot project?	The end-user of the service provided in the pilot is the Operations Management area of TUSGSAL.
What will be the expected short-term impact of the pilot project? (less than one year)	To have insights which will help dispatchers understand how far the buses will go, and when they will need to be charged.
What will be the expected long-term impact of the pilot project? (more than one year)	Better electric bus fleet management, and improvement of the overall bus service provided by TUSGSAL.
Which resources can you provide for start-ups to work on a solution to tackle your challenge?	(a) A sample of the e-buses fleet operated by TUSGSAL will be the test bed for the start-up to test their innovative solution in a real-life environment (b) TUSGSAL will provide the required personnel and resources needed for the installation (c) Access to background data on the e-buses.
Expected start date of pilot	01/09/2022
Expected end date of pilot	01/04/2023

13. DB Station&Service AG: Positioning System.

Name of your organization or city	DB Station&Service AG; Smart City | DB
Country where the pilot will take place.	Germany
City where the pilot will take place.	Stuttgart
Sector that fits best the formulated challenge?	Positioning System
Description of the challenge. Why is it relevant for your organization and the field of mobility?	GPS location inaccuracies of micro-mobility vehicles are present especially at railroad stations due to overhead wires. Therefore, digital control for our Mobility Hubs of proper parking of vehicles is poor.
What is your goal with regards to conducting a pilot, and what is the status quo concerning the challenge?	We would like to filter or amplify the GPS signals through a physical device, thus solving the location inaccuracy problem. We are also open to other alternative solutions.
How much time can you dedicate per month to a start-up to support them while developing a solution?	More than one day.
At which location do you plan to conduct the pilot project?	A specific neighbourhood.
What is the specific location or area to conduct the pilot? You may add a link to map.	Stuttgart-Vaihingen.
Who are the end users of the service provided in the pilot project?	Our Company, business customers and public transport operators.
What will be the expected short-term impact of the pilot project? (less than one year)	The inaccuracies of the tracking can be solved.
What will be the expected long-term impact of the pilot project? (more than one year)	A low-cost product that solves the problem of location inaccuracy at more stations and other places.
Which resources can you provide for start-ups to work on a solution to tackle your challenge?	Train station/ Mobility Hub Stuttgart-Vaihingen as test environment.
Expected start date of pilot	June 2022
Expected end date of pilot	To be defined

14. TUSGSAL: Monitoring electric buses.

Name of your organization or city	Tusgsal
Country where the pilot will take place.	Spain
City where the pilot will take place.	Badalona
Sector that fits best the formulated challenge?	Monitoring electric buses
Description of the challenge. Why is it relevant for your organization and the field of mobility?	Battery consumption in e-buses is variable depending on weather, topography, driving conditions, regenerative energy recovering, etc. and needs to be monitored for an efficient operation. The lack of insights into the state-of-charge of the buses means not being sure if the buses can finish their routes and when they need to be charged. TUSGSAL has currently implemented 12 e-buses (8 BYD and 4 Irizar) into their fleet. However, AMB (the public authority managing the bus network in the metropolitan area of Barcelona) and TUSGSAL plan to go for a full electric bus fleet in the next years.
What is your goal with regards to conducting a pilot, and what is the status quo concerning the challenge?	TUSGSAL's goal is to test an innovative solution into a sample of our electric vehicles. The information provided by this solution should help us in our internal decision-making processes about bus deployment, bus charging, etc.
How much time can you dedicate per month to a start-up to support them while developing a solution?	More than one day.
At which location do you plan to conduct the pilot project?	A specific living lab or test environment.
What is the specific location or area to conduct the pilot? You may add a link to map.	Metropolitan area of Barcelona (Spain). The pilot will take place in n electric buses (depending of the start-up) operated by TUSGSAL in the metropolitan area of Barcelona.
Who are the end users of the service provided in the pilot project?	The end-user of the service provided in the pilot is the Operations Management area of TUSGSAL.
What will be the expected short-term impact of the pilot project? (less than one year)	To have insights which will help dispatchers understand how far the buses will go, and when they will need to be charged.
What will be the expected long-term impact of the pilot project? (more than one year)	Better electric bus fleet management, and improvement of the overall bus service provided by TUSGSAL.
Which resources can you provide for start-ups to work on a solution to tackle your challenge?	(a) A sample of the e-buses fleet operated by TUSGSAL will be the test bed for the start-up to test their innovative solution in a real-life environment (b) TUSGSAL will provide the required personnel and resources needed for the installation (c) Access to background data on the e-buses.
Expected start date of pilot	01/09/2022
Expected end date of pilot	01/04/2023

15. Prazska energetika, a.s.: Optimization charging infrastructure.

Name of your organization or city	Prazska energetika, a.s.
Country where the pilot will take place.	Czech Republic
City where the pilot will take place.	Prague
Sector that fits best the formulated challenge?	Charging infrastructure
Description of the challenge. Why is it relevant for your organization and the field of mobility?	Optimization of output of charging points in shared garages in residential areas.
What is your goal with regards to conducting a pilot, and what is the status quo concerning the challenge?	The goal is to provide high quality charging services in shared garages with competitive pricing structure. Status: Preparing technical solution.
How much time can you dedicate per month to a start-up to support them while developing a solution?	Half a day one day.
At which location do you plan to conduct the pilot project?	A specific neighbourhood.
What is the specific location or area to conduct the pilot? You may add a link to map.	Selected Prague neighbourhoods and residential areas.
Who are the end users of the service provided in the pilot project?	EV users.
What will be the expected short-term impact of the pilot project? (less than one year)	Optimisation of costs of operation of EV charging systems in shared garages.
What will be the expected long-term impact of the pilot project? (more than one year)	Realization of pilot projects and their replication facilitates development of e-mobility and increases share of clean transport, reduces emissions of harmful substances and noise and improves life quality in the city and contributes to the achievement of goals of Prague climate plan.
Which resources can you provide for start-ups to work on a solution to tackle your challenge?	Additional mentoring, giving visibility by communication material (e.g. video recording).
Expected start date of pilot	As soon as possible.
Expected end date of pilot	To be agreed.

ANNEX 2 - Application form

0. Start here

0.1 Chapter: EIT UM – Business Creation
0.2 Category: Scale-Up Programme 2022
0.3 Application name

1. Path Definition

1.1 Please select path A or B
1.2 If path A: If we are not selected for path A including a pilot project, we want to be considered for path B. Please select yes/no

2. Business – General Information

2.1 Contact person (name and surname)
2.2 Contact person e-mail
2.3 Phone number of main contact person
2.4 Company name
2.5 Company Type (e.g., Ltd, GmbH, Inc)
2.6 Company URL (Website)
2.7 Other relevant company websites/social media channel2.8 Incorporation Date
2.9 Incorporation country
2.10 Please enter your Commercial Register/Incorporation number
2.11 Legal address (Street, ZIP Code, City, Address further information)
2.12 Do non-EU shareholders own more than 5% of the company?
2.13 How much yearly revenue do you have as of today (in €), if any?

3. Excellence/Innovation

3.1 Describe what your company does (max. 250 characters)
3.2 In simple terms, who is your ideal target customer (please be specific) and what is the problem you are trying to solve for them? (max. 250 characters)
3.3 How does your product address or solve this problem? (max. 250 characters)

3.4 How is your product / service different from existing solutions? What is your unique selling proposition (USP)? (max. 250 characters)
3.5 Who are your main competitors? Name at least three - please be specific.
3.6 Why are you applying to the EIT Urban Mobility Scale-up?
3.7 Have you previously participated in any other EIT Urban Mobility programme?
3.8 How have you been aware of this programme? (optional)

4. Team and shareholder structure

4.1 Name and Surname of Co-Founders, Roles, Full-time/Part-time, Gender (M/F/D), LinkedIn Profile (optional - only LinkedIn)
4.2 How many FTE (full time equivalent) work for your company including the founders?
4.3 Do founders and employees (e.g. ESOP) own more than 70% of shares in the company?Please select yes/no
4.4 Is there any founder or investor owning more than 5% of the company that is not based in the EU or EU associated countries according to the official list of countries by the European Union and third countries associated to Horizon Europe?

5. Impact

5.1 In which main area associated with Sustainable Development Goals formulated by the United Nations are you aiming to achieve impact? Please select:

1) SDG3: Good Health and Well-being
2) SDG7: Affordable and Clean Energy
3) SDG8: Decent Work and Economic Growth
4) SDG9: Industry, Innovation and Infrastructure
5) SDG11: Sustainable cities and communities
6) SDG13: Climate Action

5.2 Do you already measure your environmental and specifically your carbon footprint? Please select yes/no
If yes or in planning, please specify how you measure/will measure your environmental impact and carbon footprint? Please select

1) Greenhouse gas emissions (Scopes 1, 2, 3)
2) Energy use
3) Air pollution (SOx, NOx, PM2.5, Ozone, mercury etc.)
4) Water use (inflows/withdrawals, outflows/discharges)
5) Other

5.3 Do you already have a policy in place to ensure team diversity? Please select yes/no

6. Attachments

6.1 Please upload your Pitch Deck below, as a PDF, your deck will not be shared externally (Please include: Problem, Solution, Value Proposition, Business Model, Market, Competition, Market entry plan, Traction, Team) Max 15 slides *mandatory
6.2 If you have a link to a product demo (e.g. video) please include it below (optional).
6.3 You are welcome to submit a max. 2min video introducing your team (please only focus on your team, why you each started this company and your vision for success). (optional)

7. Pilot

7.1 Please select challenge that you would like to solve - List of challenges above.
7.2 Motivation Statement: Please describe briefly how a pilot project helps you to scale-up your business? (max. 500 characters)
7.3 How will you solve the selected challenge? Please describe briefly your solution. (max. 500 characters)
7.4 Timeline: Please provide a project plan with your most important steps for tackling the challenge. (max. 500 characters)
7.5 Skills and experience: Please describe briefly, how your professional team background and your experience help to tackle the challenge. (max. 500 characters)
7.6 Do you plan to apply for the grant of up to 50.000 EUR funding in exchange for equity? (max. 500 characters)
7.7 Could you be potentially interested in any other challenge? - List of challenges above.

8. Final submission

8.1 My application is complete. I accept that I am not able to make any changes to this application after this step.

ANNEX 3 - 1st phase – Online evaluation criteria

Evaluation criteria	Maximum score
Common evaluation criteria for Path A and Path B	**25**
Incorporation date	1
Incorporation Country	1
How much yearly revenue do you have as of today (in €), if any?	2
Describe briefly what your company does. Be clear and concise. This is how you catch our attention.	2
In simple terms, who is your ideal target customer - please be specific - and what is the problem you are trying to solve for them?	2
How does your product address or solve this problem? (max. 250 characters)	2
How is your product / service different from existing solutions? What is your unique selling proposition (USP)?	2
Who are your main competitors? Name at least three - please be specific.	1
Why are you applying to the EIT Urban Mobility Scale-up?	3
Name of Co-Founders, Roles, Gender, part-time / full time, LinkedIn Profile	4
How many FTE (full time equivalent) work for your company including the founders?	2
Do the founders own more than 70% equity in the company?	1
Do you already measure your environmental and specifically your carbon footprint?	1
Do you already have a policy in place to ensure team diversity?	1
Additional evaluation criteria for Path B	**10**
Please describe briefly how a pilot project helps you to scale-up your business?	3
How will you solve the selected challenge? Please describe briefly your solution.	3
Please provide a project plan with your most important steps for tackling the challenge.	2
Please describe briefly, how your professional team background and your experience help to tackle the challenge.	2

Total Maximum punctuation for Path A	**25**
Total Maximum punctuation for Path B	**35**