



## EIT Urban Mobility *CityChangers 2030*

Jihlava 17<sup>th</sup> May 2022

Traian Urban, Marian Nič



Urban Mobility

Co-funded by the  
European Union



# EIT Urban Mobility at a glance



# EIT: The European Institute of Innovation and Technology



The EIT and its Innovation Communities together, find solutions to **global challenges** and empower **innovators and entrepreneurs** to turn their best ideas into **products, services, jobs and growth.**

The European Institute of Innovation and Technology (EIT) is an EU body created by the European Union in 2008 to strengthen Europe's ability to innovate. The EIT is an integral part of Horizon 2020, the EU's Framework Programme for Research and Innovation.

1<sup>st</sup> EU initiative bringing together the three sides of the 'knowledge triangle': businesses, education and research centres.

Aim to increase the cooperation and integration between higher education, business and research to facilitate the transition from:



# About EIT Urban Mobility

EIT Urban Mobility is an initiative of the European Institute of Innovation and Technology (EIT). Since January 2019 we

- Change *the way people move*
- Make cities more *liveable places*.
- Transform the idea of *urban mobility*.

Co-funding of up to € 400 million (2020-2026) from the EIT, a body of the European Union, will help make this happen.



We create systemic solutions that will **move more people around the city more efficiently and free up public space**



We bring **all key players in urban mobility together** to avoid fragmentation and achieve more



We **engage cities and citizens** from the word go, giving them the opportunity to become true agents of change



# EIT URBAN MOBILITY PARTNER ECOSYSTEM

## CORE PARTNERS (status 2021)



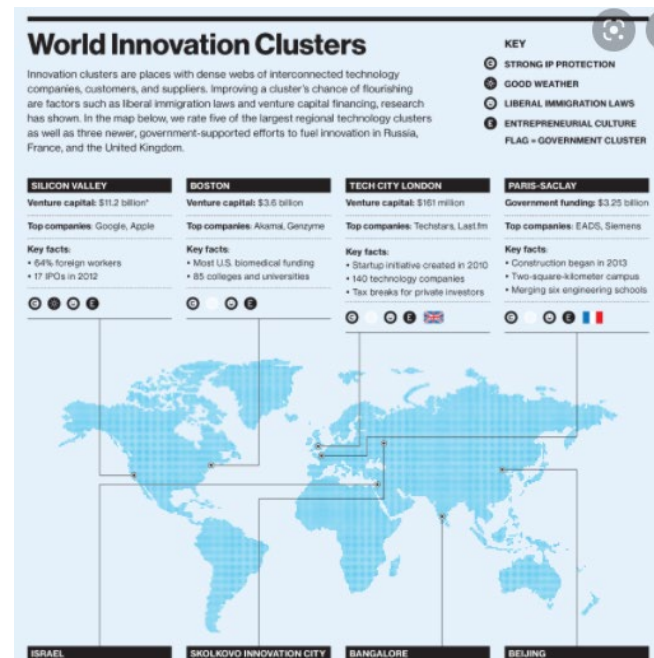
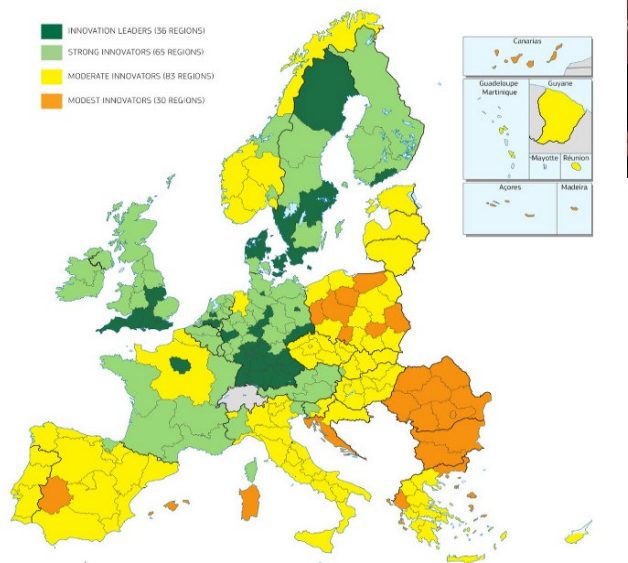
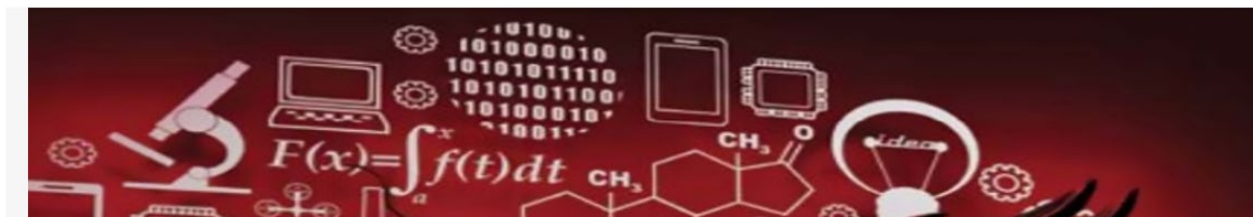


Published on East Asia & Pacific on the Rise

# Will China become a global innovation champion? Keeping the global innovation system open will be key

DENIS MEDVEDEV, MARCIN PIATKOWSKI & SHAHID YUSUF | MAY 14, 2020

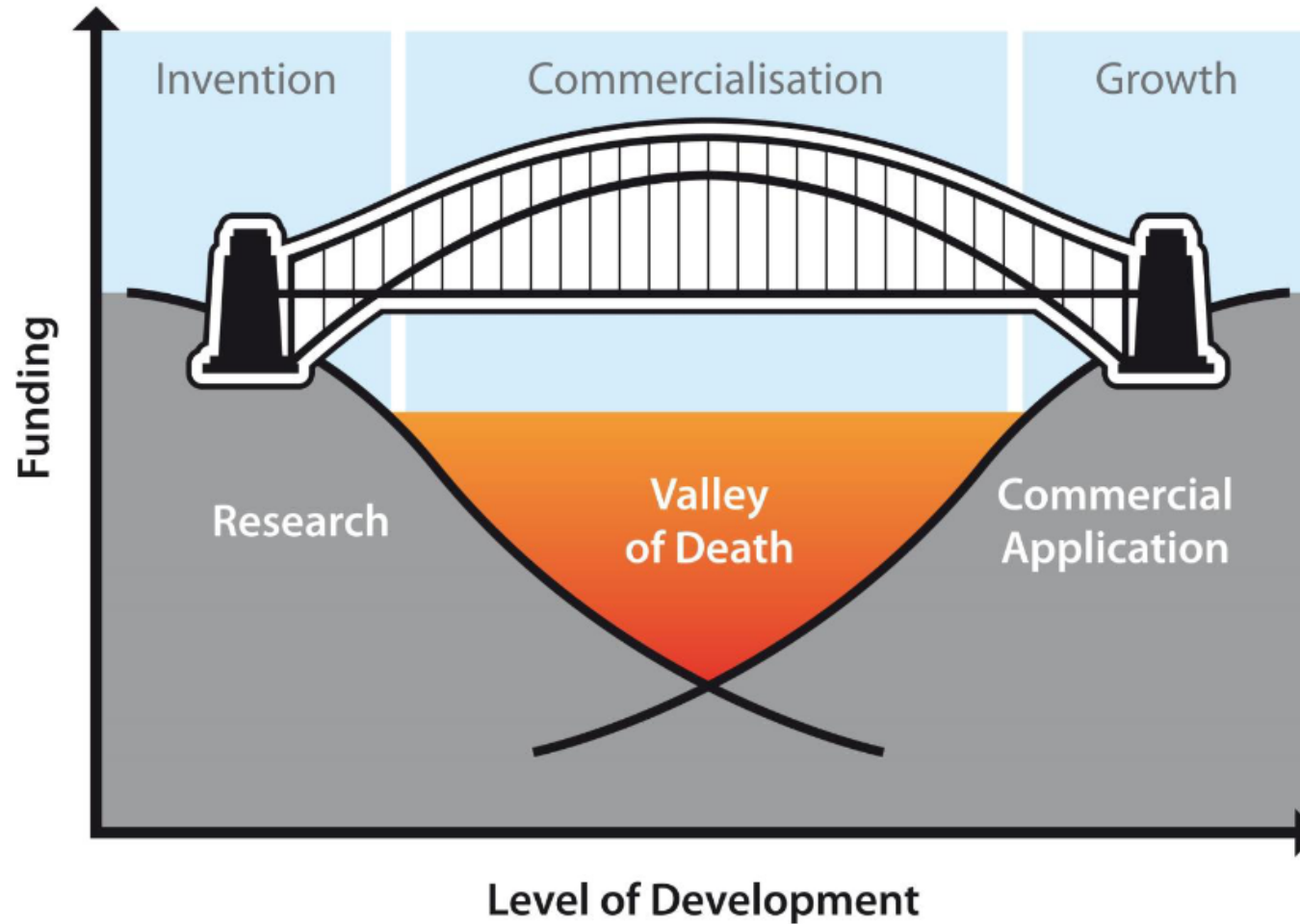
This page in: English | 中文



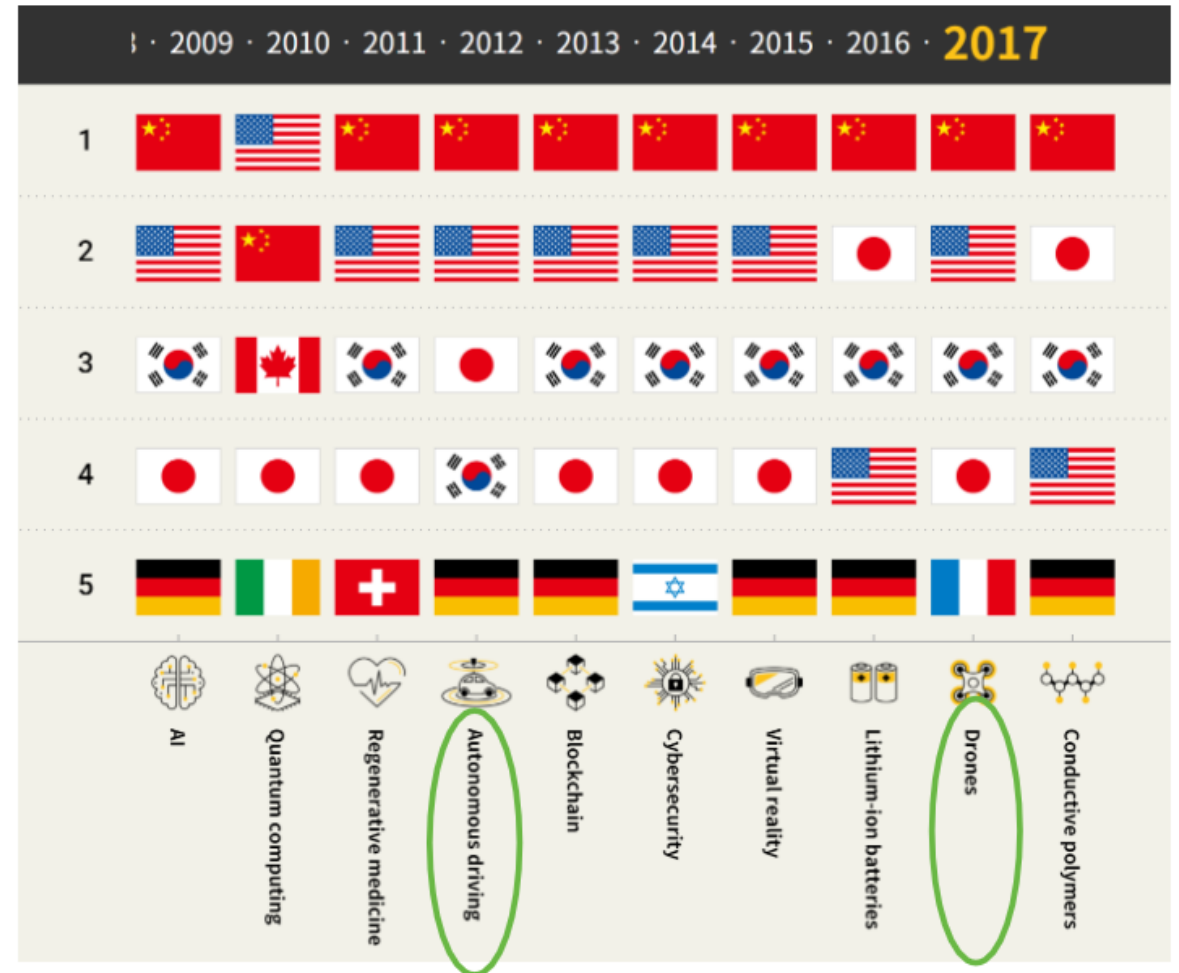
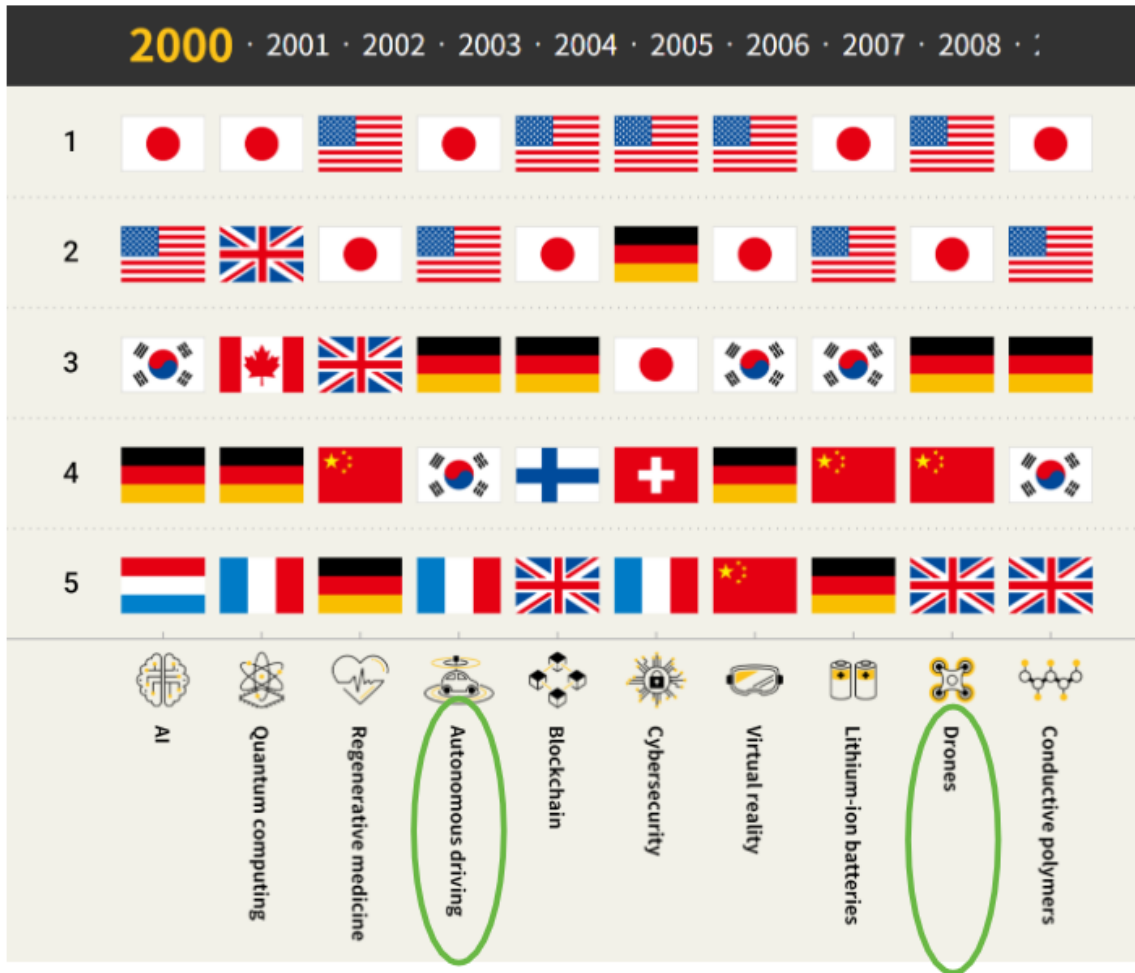
Tesla's total subsidy value according to the data is \$2,441,582,590 (\$2.44 billion), across 109 "awards" — 82 federal grants and tax credits as well as 27 state and local awards.

Subsidy Summary	Subsidy Value	Number of Awards
State/Local	\$2,101,985,426	27
Federal (grants and allocated tax credits)	\$339,597,164	82
<b>TOTAL</b>	<b>\$2,441,582,590</b>	<b>109</b>
Loan / Bailout Summary	Total Face Value	Number of Awards
State/Local loans, bond financing and venture capital	\$0	0
Federal loans, loan guarantees and bailout assistance (not including repayments)	\$466,500,000	2
<b>TOTAL</b>	<b>\$466,500,000</b>	<b>2</b>

# EIT role is to bridge research and commercial application



# Core enabling technology patents progression over 20 years





# Challenge Areas:

## ✓ Active Mobility

When physical activity doubles as a form of transport, can create health benefits and reduce demand for motorized transport. Given the benefits, cities are generally eager to boost active mobility, but it comes with challenges in respect to infrastructure and safety, as well as potential organizational and cultural barriers to overcome. How to promote a shift towards active mobility, while mitigating any barriers, is one of EIT Urban Mobility's key challenge areas.

## ✓ Sustainable City Logistics

Digitalization and e-commerce have changed urban logistics. Introducing innovations in city logistics and making it more sustainable requires cooperation between a wide range of partners as well as new vehicles, business models and technologies. How to manage these changes sustainably, and benefit as a city, is one of EIT Urban Mobility's key challenge areas. EIT Urban Mobility aims to build Action and Interest Groups across cities, industry, and academia for all of its key challenge areas. The Sustainable City Logistics open Innovation Community Day is the first step in building this wider logistics focused network

## ✓ Future Mobility

Digitalization has disrupted urban mobility, creating new services, expanding transport into new areas and changing how we move within cities. The disruption is continuing, and cities have been challenged with handling 'the future mobility' services, whilst trying to prepare for a constantly changing mobility landscape.

## ✓ Mobility and Energy

The transport sector in Europe is over 90% fossil fuel dependent. It is crucial that we look to alternative sources in order to decarbonize our transport systems and increase energy independence. The widescale adoption of electric and alternative fuel vehicles in urban areas presents unique challenges including charging infrastructure and the need for load-balancing solutions. Because of the importance of clean air in our cities and the technical and spatial requirements needed to transition to cleaner fuels.

## ✓ Creating Public Realm

The goal of the Public Realm call is to generate social innovation by improving and transforming streets and public spaces with tactical urbanism and street experiments as part of a city-wide approach for live able cities and building on adopted mobility strategies and plans in cities. Projects will implement pilots for inclusive, safe and accessible public realm design in a city or town and build momentum for long-term policy change in communities – especially in disconnected and less central neighborhoods – to help improve livability for all residents.

# Innovation Thematic Area:

## ✓ Innovation calls

The Innovation Program aims to resolve urban mobility challenges facing European cities via action orientated innovation. We co-create ideas that lead to the proposal of projects in response to our annual call for proposals, the demonstration of new solutions in real life and the creation of commercial value. The Programme develops partnerships across and beyond Europe and addresses innovative approach and behavioral changes needed to improve urban life quality for all citizens.

## ✓ RAPTOR

Rapid Agile Support for Cities: Rapid Applications for Transport (RAPTOR) aims to address niche city mobility challenges for cities/towns/neighborhoods and promote local solutions by funding individuals, teams, startups or SMEs with support from the respective city/town/neighborhood.

## ✓ Action and Impact Group

The AIG pilot is designed to support partners and cutting-edge researchers and innovators in identifying, applying for, and securing regional, national, and European level funding for Urban Mobility projects. AIG will assess the value financially and strategically to our community, in targeting external funding and supporting pre-TRL6 innovation and research.



CITY  
**RAPTOR**   
CALL FOR PROPOSALS



# Mapping Strategic Objective & Challenge Area

Challenge Area \ Strategic Objective	SO1	SO2	SO3	SO4	SO5	Total
1 - Active mobility	21172 – WalCycData 21172 – WalCycData*	n/a	22010 BICIFICATION 22265 RIDESAFE UM		20004 - BikeLonger	4
2 - Sustainable city logistics	20035 -ZEUS 20036 – SMUD 21177 – HALLO 21177 – HALLO*	n/a	20239 - COVCAP	22097 – FlexCURB 22140 – LogiSmile 22193 - S+LOADZ		7
3 - Intermodality		n/a	20023 – SOUL 21062 – SmartHub 21114 – MultiDepart 21114 MultiDepart*	20269 - Safely Connected 20261 - CAMS	20005 - MaaS_Together 20029 - ProMaaS 20034 - MOBY 20045 - ShareMore	9
4 - Creating public realm	20237 – FURNISH 22156 – FURNISH-KIDS 22278 – RAISE UB 22144 – K1 21269 - xKIC NEB (3 projects)	n/a		20016 – Clear 21143 - Clear	20166 - RAPID	10
5 - Mobility Infrastructure		n/a	20014 - USP	20033 - OSCAR	20020 – TIE 21060 - FDMM	4
6 - Future mobility	20024 – AITraWell 21031 - AITraWell	n/a	20003 - CityFlows 20007 - AntITrash 20009 - Call4SMS 21010 - AntITrash 21099 – CityFlows 22026 – LivingLAPT 22276 - IPA2X	20026 – UMOS 21043 – UMOS 22072 - UATMDEVDEM	20190 - FutureMob 20212 - CO-APS	14
7 - Mobility for all		n/a	20270 - CommINSAFE 20277 - InclusiveBike	20288 - City Restarts 20319 - CDClean		4
8 - Mobility and energy		n/a	21169 – eULTIMATE 22081 – PowerManagement 21169 – eULTIMATE*	22019 - UMC 22210 - Cleanergy 4 Micromobility 22294 - ECOSWAP		5
9 - Pollution Reduction		n/a		20002 - Carolina	21109 – Celeste	2
<b>Total</b>	<b>13</b>	<b>0</b>	<b>18</b>	<b>17</b>	<b>11</b>	<b>59</b>

BP2020  
BP2020 Covid  
BP2021  
BP2022

Note:

- FURNISH-KIDS (22156), RAISE-UB (22278) and K1 (22144) are City Club projects funded by Innovation
- xKIC NEB (21269) 3 projects
- \* indicates 3-month continuation projects
- Excludes BP22 12-month continuation projects as these are pending evaluation

**SO1** - Create liveable urban spaces  
**SO2** – Internal innovation programme management  
**SO3** - Deploy user-centric, integrated mobility solutions  
**SO4** – Accelerate market opportunities, and  
**SO5** – Promote effective policies and behavioral change




# RAPTOR Pilot



## Resilient & Sustainable Urban Plan



## Predictable Public Transport



## Promoting Micro-mobility



## Micro Mobility 5+ Conditions



## Micro-mobility Services Regulation



## Children's Road Safety

### BRATISLAVA

Can you help Bratislava improve its climate resilience and increase the share of active mobility? [Read More!](#)

### CLUJ-NAPOCA

Can you make public transport more reliable and predictable using real-time data? [Read More!](#)

### RIGA

Can you improve and promote safer and more convenient micro mobility solutions? [Read More!](#)

### TALLINN

Can you improve the city's street conditions in winter to become more attractive for micro mobility? [Read More!](#)

### PRAGUE DISTRICT 7

Can you help Prague better regulate the increasing use of micro-mobility services? [Read More!](#)

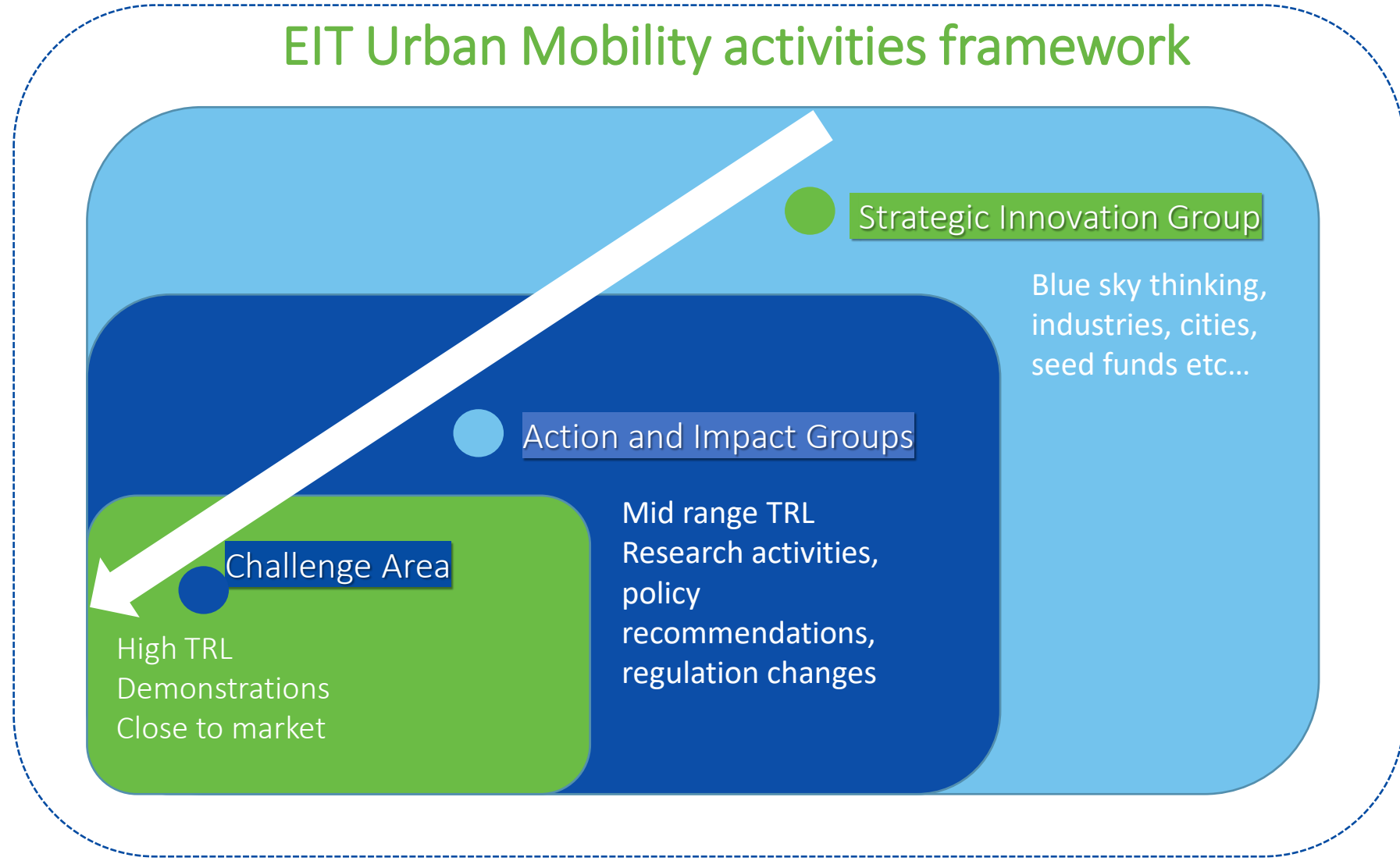
### PRAGUE DISTRICT 6

Can you make movement through cities safer for supervised groups of children? [Read More!](#)





# EIT Urban Mobility activities framework



# Accelerator Programmes in 2022

Each accelerator will support 10 start-ups

## Five thematic based Accelerators

1. Sustainable City Logistics
2. Future Mobility: Connected vehicles (5G Turbo)
3. Future Mobility: Urban Air Mobility
4. Energy and Public Realm
5. E+ Mobility (micromobility)

## What you get as a participating start-up (TRL 4-7)

- **€2.500** In equity-free funding
- **€30.000** Worth of support services
- Product and market validation with **access to living labs**
- **Matchmaking** events with cities, corporates and investors
- **Access to investment** initiatives and funding instruments



# ScaleUp Programme

The programme will support 12 small and medium-sized enterprises in scaling-up their business in Europe, driving growth and going international.

The proposal provides selected scale-ups (TRL 7-9) with the following opportunities:

- Increase your enterprise value by **widening your stakeholder's networks**;
- Gain experience with **pilot projects** – at least 7 joint pilots with industries, cities and regions across Europe, boosting market penetration for their disruptive urban mobility solution;
- Be more **visible and recognized across Europe** for both customers, clients, partners, and future employees.



# Intersectoral, interdisciplinary, international and entrepreneurial Academy programmes



## Master School

Our Master School offers a wide-ranging master's degree in urban mobility and aims to train 500 graduates per year in partnership with ten universities. This EIT labelled challenge-based double degree programme (1<sup>st</sup> and 2<sup>nd</sup> year in a different university) includes extensive training in innovation and entrepreneurship. The Master School will open its doors in autumn 2020 starting with 4 universities and 2 tracks. The Master School also includes summer schools held in several European cities addressing critical urban mobility challenges.



## Doctoral Training Network

This is an innovation and entrepreneurship programme for doctoral students, as well as a way of building networks. The aim is to train 50 graduates per year. This programme bridges research and innovation and starts in 2020. It includes an annual doctoral forum to facilitate networking within the urban mobility research community and to reach out to cities and industry.



## Competence Hub

The Competence Hub offers courses on hot topics in urban mobility for professionals in different sectors, such as project managers, engineers, city executives and entrepreneurs, co-created with our partners throughout Europe. This lifelong learning initiative use a variety of formats including online material in a web-TV channel, online courses, in-project training and co-creation work, as well as more conventional face-to-face seminars. It aims to train 50,000 people per year and to reach a total of 500,000 people per year through its online offers.





# Defining challenges and sharing best practices



**City Club**

Defining challenges and sharing best practices



**EIT Urban Mobility living labs and test beds**

## Putting urban mobility solutions into practice

City Club is a platform for cities for collaborating, sharing best practice, upscaling ideas and putting them to work. Every year the club produces a list of key challenges facing cities, which can then be tackled by innovation projects and fed into our innovation, education and business creation programmes. Our cities act as test beds for pilots and living labs to enhance innovation in urban mobility. The club also serves as a sounding board for citizens and a means of outreach.





Urban Mobility

Co-funded by the  
European Union



Thank you

