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# SOLUTIONSplus

Integrating Urban Electric Mobility Solutions  
in the Context of the Paris Agreement,  
the Sustainable Development Goals, and  
the New Urban Agenda



# Imprint

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**Title:**

SOLUTIONSplus

Integrating Urban Electric Mobility Solutions in the Context of the Paris Agreement, the Sustainable Development Goals and the New Urban Agenda

**Editors (UEMI Secretariat):**

Oliver Lah

Alvin Mejia

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Barbara Lah

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# Project Partners



# solutiona plus



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# 1. Project Information

## **SOLUTIONSplus (INCO Flagship Project) Integrating Urban Electric Mobility Solutions in the Context of the Paris Agreement, the Sustainable Development Goals and the New Urban Agenda**

The SOLUTIONSplus project aims to enable transformational change towards sustainable urban mobility through innovative and integrated electric mobility solutions. To deliver this objective the project will boost the availability of electric vehicles, foster the efficiency of operations and support the integration of different types of e-mobility in large urban areas and addressing user needs and local conditions in Europe, Asia, Africa and Latin America.

The project SOLUTIONSplus sets up a global platform for shared, public and commercial e-mobility solutions, and to kick start the transition towards low carbon urban mobility. The project encompasses city level demonstrations to test different types of innovative and integrated e-mobility solutions, complemented by a comprehensive toolbox, capacity development and replication activities.

SOLUTIONSplus brings together highly committed cities, industry, research, implementing organisations and finance partners. Through numerous synergistic projects, networks and a strong technical experience, the project will be able to deliver its highly ambitious goals. Direct co-funding contributions will be provided by partner cities and SOLUTIONSplus works closely with UN Environment and the International Energy Agency (IEA) on a joint global urban e-mobility programme that will significantly boost replication and impact of this Innovation Action.

Through the regional platforms, a global programme and local teams, the project aims to develop highly effective and innovative approaches to urban e-mobility ensuring that mobility systems and interventions from this project deliver on the Paris Agreement, meet the Sustainable Development Goals and address the New Urban Agenda.



INFORM

**Boost capabilities** of local and national authorities, public transport operators and entrepreneurs about innovative urban e-mobility solutions across various transport modes by **informing them about tools** to plan, assess, implement and operate e-mobility solutions.



INSPIRE

**Foster the take-up** of e-mobility innovations by businesses, start-ups, local and national governments and transport operators by **inspiring** officials, operators, industry and businesses through peer-to-peer exchange on innovative e-mobility products and services.



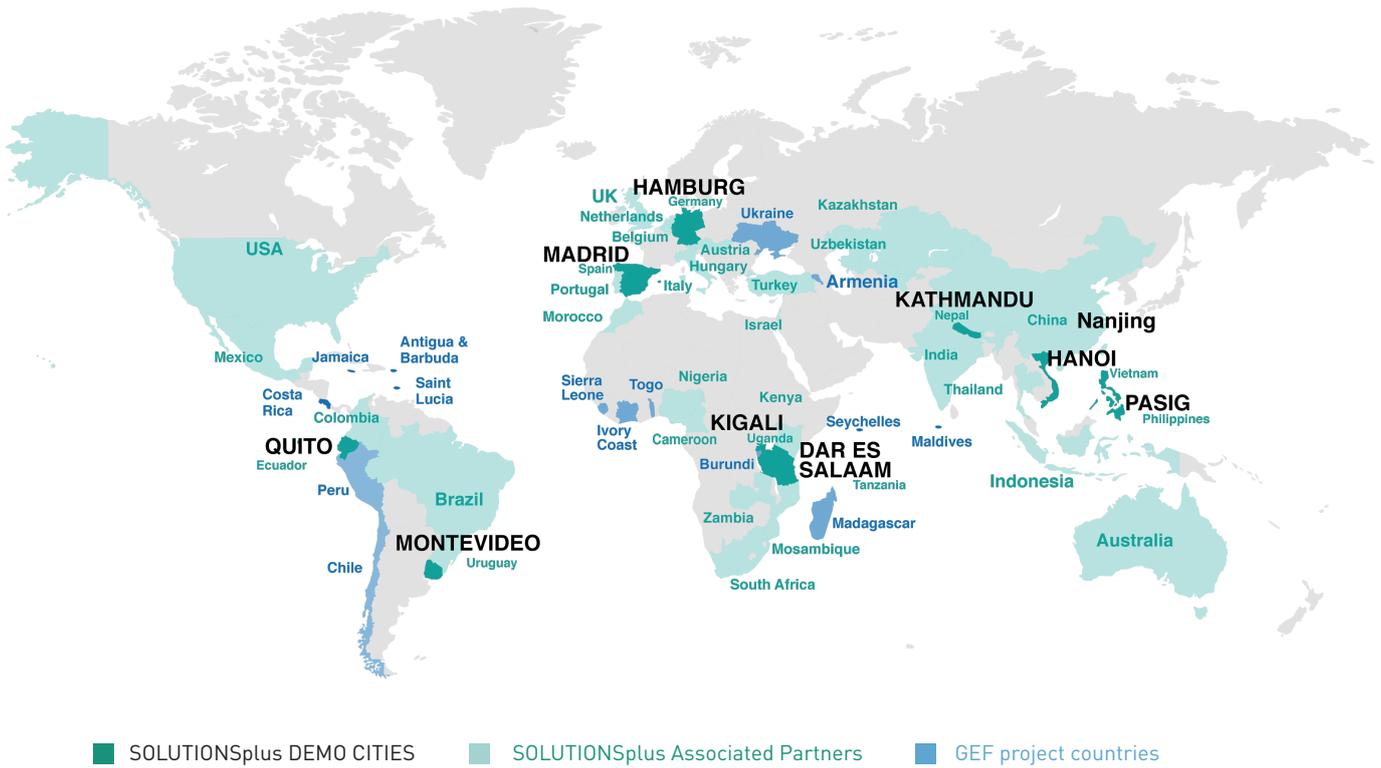
INITIATE

**Strengthen** policy and business **collaboration** by **initiating** partnerships between local and national governments and local and European entrepreneurs and supporting the development of new e-mobility models business implementation plans.



IMPLEMENT

**Create reference models** for e-mobility innovation by **implementing** demonstration actions to test innovative e-mobility technologies and services, foster their **replication** and ensure their long-term **sustainability**.



# Role of the Cities

## SOLUTIONSPplus Demonstration Cities

- Members of the project consortium
- Receive support for the development of project concepts;
- Selection of measures;
- Development of project concepts & business models;
- Stakeholder involvement and participatory processes;
- Identification of funding options;
- Development of bankable projects;
- Receive funding for the implementation of demonstration actions.



photo © Shritu Shrestha, Kathmandu



photo © Maria Rosa Muñoz B., Belo Horizonte

## Replication Cities

- Associated partners;
- Demonstration project development;
- Business model, policy and finance support;
- Exchange Programme will be developed.

# TOOLBOX

SOLUTIONSplus will develop a comprehensive toolbox that will boost the capability of key actors to implement e-mobility solutions around the world. The toolbox shall be developed through a living-labs approach and will utilize the lessons learned and experiences gained through the demonstration actions in an iterative improvement process. The toolbox shall contain various forms of knowledge materials and tools that combine the best available information resources, as well as knowledge products directly resulting from the implementation of the SOLUTIONSplus activities including the following:

### Assessment Tools

An inventory of state-of-the-art and openly accessible tools will be made available for aiding assessment processes relate to e-mobility: technical viability; financial viability; social impact assessment; environment and energy impact assessment; replication and scale-up potential.

### Business Models

The toolbox shall contain innovative business models to help sustain and expand the adoption of such in local contexts. This will cover topics such as electric two- and three-wheelers, mini-buses, cargo e-bikes, vans, trucks, e-BRT, and related technologies, services, charging systems, operations and sharing schemes.

### Capacity Building Tools

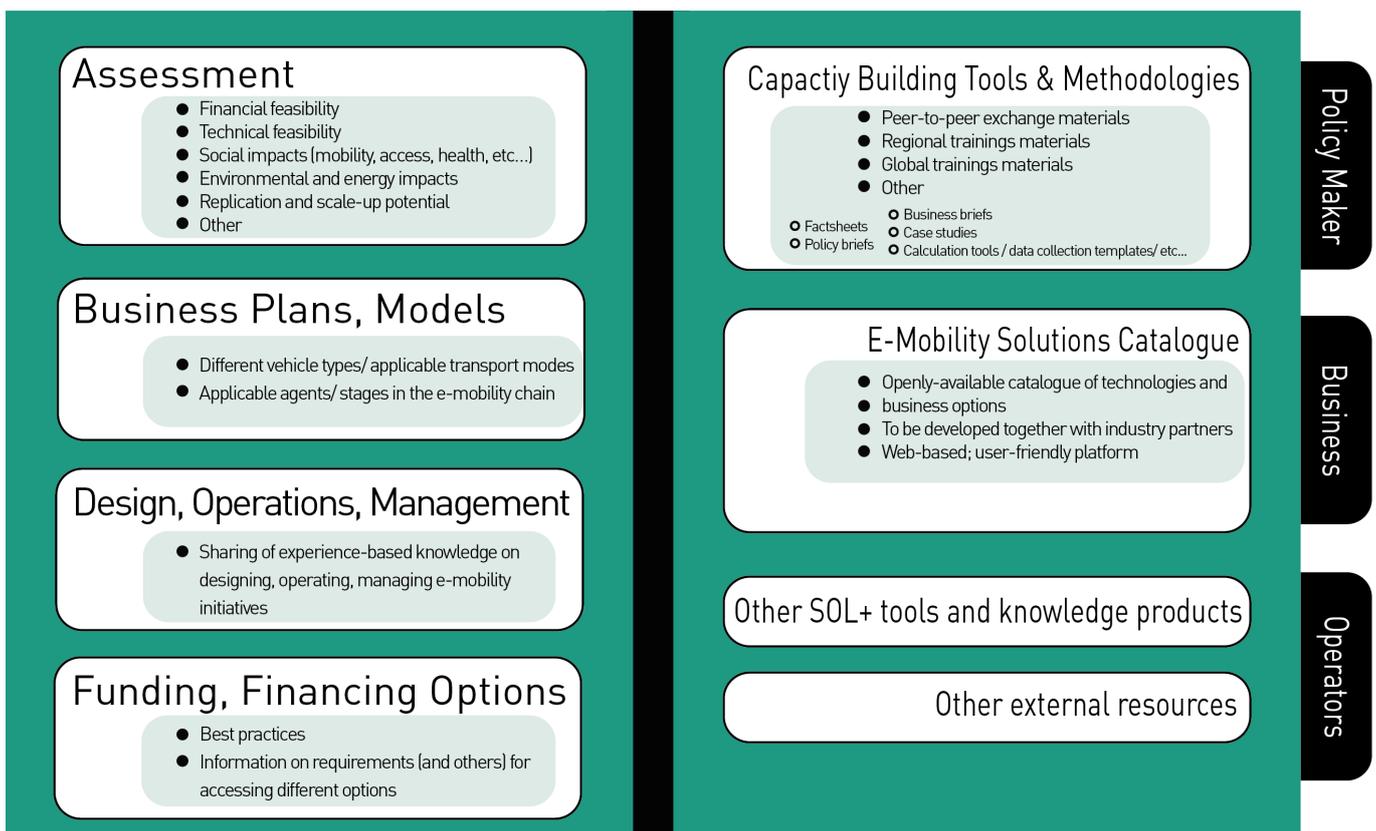
These build on the content of thematic tools and focus on tailor-made advice and training material to boost competences and skills of key actors and include tools for peer-to-peer exchange, e-learning courses, training and workshop material, factsheets, policy and business briefs, case studies and academic programmes.

### E-mobility Solutions Catalog

A searchable, openly-available catalog of technologies and business options will be developed together with industry partners. The catalog will be accessible through an interactive and user-friendly web-based platform.

### Design, Operations and Management Tools

Various knowledge products will be made available that would build upon the lessons and experiences gained from the implementation of the on-the-ground pilot activities of SOLUTIONSplus. These would provide in-depth and practical insights on how to address real challenges in the design, operation and management of e-mobility initiatives.



# CAPACITY BUILDING

SOLUTIONSplus will deliver tools and activities that shall boost the capacities of relevant stakeholders in developing and implementing urban electric mobility innovations. The project shall employ appropriate capacity building approaches at different levels such as the following:

### Face-to-face Training

SOLUTIONSplus shall offer targeted capacity-building materials and activities for improving the technical competences and skills of key actors in the partner cities. The development of such will be guided by a comprehensive capacity and skills assessment exercise.

### Peer-to-peer Exchange

The SOLUTIONSplus partner cities shall benefit from an intense and focused peer-to-peer learning program that allows for the development of deeper understanding of issues, as well as practical skills, through experience building and exchange. This involves the following components:

- Staff-exchange program between partner cities
- Site visits to and on-the-job training by European cities
- Bringing experts to the partner cities.

### Regional Trainings

Regional trainings will be conducted to allow for synergistic knowledge and experiences sharing among the SOLUTIONSplus partners and other actors in the region.

### Global Trainings

A global capacity building program will be developed in close collaboration with the GEF-7 sister project. Selected conferences, in which SOLUTIONSplus members are active, are targeted as platforms for regional and international trainings. Project partners shall also select and involve training centers towards developing and implementing train-the-trainer programs.

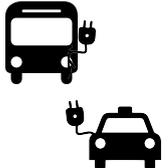
### E-learning

Modules for e-learning shall be developed, and corresponding e-learning activities shall be delivered (webinars, distance learning, thematic reader development) on the following themes:

- Vehicles
- Operations
- Integration
- Business modelling and planning
- Policy integration and finance
- E-mobility4all



photo © Nivesh Dugar, Kathmandu

Topic	SOL+ Cities	Experienced cities
	Kathmandu Kigali Dar es Salaam Hanoi	Kochi Lisbon
	Kathmandu Quito Hanoi Montevideo	Noord-Brabant Madrid Bremen Gothenburg
	Madrid Quito Montevideo	Rotterdam Madrid Bremen Gothenburg

# BUSINESS MODELS

SOLUTIONSplus will develop and test innovative business models– smart combinations of technologies, products and markets of the use cases towards addressing local market needs– as part of its demonstration actions. These will foster relevant business-to-business partnerships, and generate significant experiences and knowledge that can be shared towards accelerating uptake of such innovations.

## E-mobility Catalog

A searchable, openly-available catalog of technologies and business options will be developed together with industry partners. The catalog will include options related to e-vehicles, operations, and e-mobility integration and will be part of the toolbox of SOLUTIONSplus.

## Industry and Local Business Partnerships

A carefully formulated collaboration framework will be developed to: bring together EU industry and local businesses in the partner cities towards identifying suitable solutions based on local needs, and availability; enable the transformation of innovative ideas into feasible solutions through mentoring; and facilitate the identification of cooperation opportunities for business development which are envisioned to lead into long-term spin-off partnerships.

## Business Plans and Models in Partner Cities

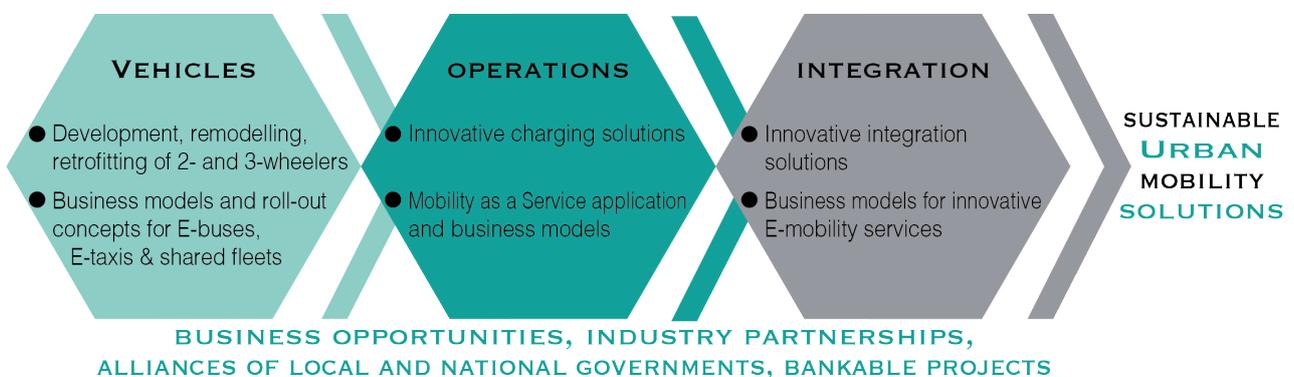
A business development and incubation program will be developed to support the testing of innovative, and locally appropriate urban e-mobility business models. These business models will focus on the local and international value chain and highlights cooperation opportunities between local businesses and the international community. Different modal and topical-centric business models will be focused on in several of the partner cities.

## Start-up Incubators

Start-ups will be supported to contribute to the innovation and local embedment of the e-mobility business models. European and local entities in the partner cities will be provided with seed funding. A call for supporting entities in other cities will also be made to support replication.

## E-mobility Innovations Functional Requirements

Technical support towards defining functional requirement specifications will be provided to the partner cities to aid the identification of the most appropriate and economically viable options for realizing future e-mobility fleets, supporting equipment and infrastructure requirements. The specification requirements will be identified considering local conditions, as well as existing technical standards around the globe.



# DEMONSTRATION ACTIONS

## Multi-modal e-mobility hubs

- Focus on last-mile connectivity solutions to increase attractiveness of the public transport system;
- Integration of public transport and individual mobility, motorised and active modes, formal and informal transport providers;
- Scope: ranging from bus/tram stops to up to central train stations;
- E-mobility solutions range from mini-bus-, or taxi-, and bike-sharing fleets to dedicated e-BRT lines, logistics, charging points and other measures.



## LIVING LABS FOR LOW-CARBON E-MOBILITY SOLUTIONS IN LATIN AMERICA , EUROPE, ASIA AND AFRICA

To enable transformative change towards sustainable urban mobility it is vital to go beyond a mere technical perspective on vehicle technologies and take a systemic approach. The Living Lab concept is a key component of the integrated concept of this project and aims to assist local authorities in the wider transition towards sustainable urban development.

A particular focus will be on the testing of innovative urban e-mobility solutions at different technology readiness levels (TRL) and in different environments, so it enables replication and can contribute to a supportive political, legal, economic and fiscal landscape. An integral part of effective Living Lab approach is the facilitation of close cooperation between local, regional and national decision-makers, operators, industry and businesses to develop innovative e-mobility solutions that not only fit into the local context but also are scalable and replicable.

The Living Lab approach considers urban sectors as a socio-technical systems that consists of technologies, regulations, institutional settings, the economic system, interests, influence and power structures, behavioural patterns, and social norms. In the case of mobility innovations, it considers that e-mobility should be integrated with existing transport services and networks in the frame of sustainable urban mobility planning tailored to the specific local economic, technological, social, political and environmental context.

The integration of e-mobility innovations into the wider frameworks of Sustainable Urban Mobility Plans (SUMPs), local air quality plans and National Urban Programmes as well as business operations and industry development strategies are vital objectives of this approach.



photo © USAID, Safa Safa, Kathmandu

# Demonstration City | Kathmandu - Nepal

## E-mobility in public transportation



### The approach/ innovative aspect

- Demonstrate different EVs to enhance public transport, charging solutions and services
- Integrate renewable in charging system
- Convert 2 diesel buses to E-buses
- E-3-wheelers business model - battery leasing/pay-per-use model
- Introduce new and remodeled E-3-wheelers, E-scooters, E-minibus for last mile solutions
- E-scooters - GPS positioning, contactless payments and docking stations



### Activities

- Raise awareness on EVs
- Remodel E-3 wheelers, assemble vehicle parts locally
- Smart card and services for fleet management



### Fact and figures

- No fuel reserves
- Major part of electricity - hydropower
- National policies favouring EVs
- Poor charging infrastructure

## Demonstration actions and support teams

	Convert 2 diesel buses to E-buses	Business model for retrofitting E-buses	SOL+ Maas App
	5 E-minibuses	Fast charging for E-bus and E-minibuses	Smart services (apps, smart card)
	30 new and 50 re-modelled E-3-wheelers	Li-ion battery swapping	Fleet management
	20 E-scooters	2 docking-cum charging for E-scooters	Business model on energy integration



photo © pixapay, Hanoi



Demonstration City | Hanoi - Vietnam

**E-mobility for last-mile connectivity**

**The approach/ innovative aspect**

- The approach/ innovative aspect
- Shared e-scooter system as last-mile connectivity and docking-cum-charging stations at BRT stations and the forthcoming metro rail
- Contactless payment
- Battery swapping technologies, telecom and power distribution boxes to accommodate vehicle charging



**Activities**

- Smart services, fleet bundling, e-scooter
- GPS positioning that support eco-routing



**Fact and figures**

- Hanoi public transportation share 10% increase to 30% by 2020
- Ban fossil fuel motorbike by 2030

Demonstration actions and support teams

	200 E-scooters at 10 stations	Business models for E-scooters	GPS positioning Eco-routing SOL+ MaaS App
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photo © Pasig City, Philippines

# Demonstration City | Pasig - Philippines

## E-Cargo services

### The approach/ innovative aspect

- E-cargo bikes (e-2/3 wheelers) for urban delivery transport services in partnership with Philippine Postal Corporation (PHL Post)
- Set-up of public AC level charging stations
- Develop business model in coordination with government financial institutions.



### Activities

- Technical assistance to develop necessary local ordinances
- Capacity building/ training
- Development of smart service app and GPS and controlling center (MaaS App)



### Fact and figures

- Net importer of fossil fuel
- National Policies favouring EVs
- Pasig city implemented several sustainable transport initiatives.

## Demonstration actions and support teams

	50 e-Cargo bikes	20 AC charging stations Battery swapping stations	GPS and control center Smart services SOL+ MaaS App
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photo © Wikimedia Commons, Kigali City



# Demonstration City | Kigali - Rwanda

## E-mobility for last-mile connectivity

### The approach/ innovative aspect

- Business model exploration for integrating e-buses into the current bus transport administration
- E-moto (new and remodeled) with swap and charge batteries (Lithium-ion)
- Support last mile connectivity
- E-bike sharing with solar power energy to provide seamless charging service
- Provision of support for the installation of faster charger infrastructure



### Activities

- Involve local investors such as Ampersand for E-moto taxi
- Ex-post evaluation: EV feasibility, charging, infrastructure utilisation, emission reduction
- Smart services - eco-routing



### Fact and figures

- Electricity mix with 52% hydro
- Rwanda vision 2020 – support clean vehicles

## Demonstration actions and support teams

	<p>100 local EU bikes</p>	<p>Charging stations Sharing models</p>	<p>Smart services (apps, smart card) SOL+ MaaS App</p>
	<p>20 e-moto-taxis 10 new and 10 remodelled local EU prototypes</p>	<p>E-moto taxis business models</p>	<p>Physical and fare Integration of E-moto taxis at 5 BRT stations SOL+ MaaS App</p>





photo © Wikimedia Commons, BRT Dar es Salaam

# Demonstration City | Dar es Salaam - Tanzania

## E-mobility for last-mile connectivity

### The approach/ innovative aspect

- E-3-wheeler feeder and distribution services in DART stations
- Business models for vehicle ownership, rental, and maintenance
- Use telecom and power distribution boxes for vehicle charging
- Subsequently, a masterplan for the introduction of 3-wheelers is developed



### Activities

- Data collection using geo localization-devices
- MaaS-smartphone application
- Inclusive and participatory approach towards assessment, and recommendations building



### Fact and figures

- City is in nascent phase for EVs and no electric vehicles exist to-date
- A high share of renewable energies through hydro-power
- Revised TBS supporting EVs

## Demonstration actions and support teams

	<p>50 imported e-3-wheelers 10 prototypes (incl. business model)</p>	<p>Smart battery swapping Charging at hubs</p>	<p>Integrated e-3-wheelers at 5 BRT stations SOL+ MaaS App</p>
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photo © Wikimedia Commons, Montevideo



# Demonstration City | Montevideo - Uruguay

## Cost-efficient Smart Charging Solutions

### The approach/ innovative aspect

- Support for the construction of a high-capacity bus depot which will feature smart charging solutions that are compliant with CCS and OCPP standards
- Charging solutions will allow night-time charging of up to 3 buses with 1 charger, with all buses being charged within 6 hours
- Charging points to serve e-taxis during the day, which will have access to the 50 kW fast charging stations (15-30 mins charges)
- The installation of opportunity charges along the bus routes will also be investigated
- E-bike sharing with solar power energy to provide seamless charging service
- Provision of support for the installation of faster charger infrastructure



### Activities

- Support to the integration of multi-standard fast chargers in the high capacity depot
- Investigation of feasibility of installing opportunity chargers along bus routes
- A real-time platform for reliable and secure operation of electrical power networks, ranging from generation, transmission and distribution to e-buses will be developed



### Fact and figures

- Over 90% of the electricity generated in Uruguay comes from renewable sources
- Fifty-five percent (55%) of the fuel combustion-related GHGs in Uruguay are from the transport sector
- The light-duty vehicle fleet in the country has been growing at 7% in the recent past

## Demonstration actions and support teams

	E-taxis	Multi-standard 50 kw fast charging for e-taxis	Bus and taxi charging integration
	Business model for e-BRT systems	Fast charging Charging standardisation	SOL+ MaaS App
	E-buses	Fast-charging	Charging operations management





photo © pixabay, Ecuador

# Demonstration City | Quito - Ecuador

## Multimodal E-mobility Hub in the Historic Centre of Quito

### The approach/ innovative aspect

- E-mobility hub to be piloted in the Historic Centre of Quito aims to improve the connectivity of public transport modes in Quito and contribute towards the consolidation of the planned zero-emission zone
- Utilization of the DC-Grid to which the trolleybus catenaries and the subway are connected
- Introduction of passenger (e-bikes and e-three-wheelers) and freight (e-cargo bikes) that will be suitable for the narrow profiles of the streets in the pilot area
- Installation of cost effective multi-standard charging points
- To serve as a test bed for e-mobility solutions for hilly cities



### Activities

- Cost-effective multi-standard 10 DC charging points will be strategically positioned to provide on-street fast charging services for 2- and 3-wheelers
- One fast charging point will be installed in the BRT terminal La Marín for e-BRT buses
- Sixty (60) e-bikes, 20 e-tuk-tuks, 10 e-buses, and 10 e-cargo bikes will be introduced



### Fact and figures

- Since 2015, tax incentives have been provided for the purchase of e-vehicles
- By 2020, the Historic Centre of Quito is aimed to be a zero-emissions area
- Since 2015, tax incentives have been provided for the purchase of e-vehicles

Demonstration actions and support teams			
	60 e-bikes for a sharing system	10 DC charging points for e-2-wheelers	Passenger and freight integration
	30 e-cargo bikes	10 DC charging points for e-cargo bikes	SOL+ MaaS App
	10 e-buses		Charging integration for last-mile vehicles
	20 e-3-wheelers	10 DC charging points for e-3-wheelers	Charging integration for last-mile vehicles



photo © Wikimedia Commons, Electric Hybrid Hochbahn Hamburg



## Demonstration City | Hamburg - Germany

### E-mobility for Last-mile Connectivity

#### The approach/ innovative aspect

- Overall goal of supporting the overall public transport system rather than competing with it
- Solutions that increase the connectivity of peri-urban areas will be featured



#### Activities

- Support the introduction of an e-scooter sharing system to test an incentive and pricing scheme that shall complement the overall public transport system
- The pilot will also feature the introduction of charging solutions, as well as smart last-mile services – through the SOL+ MaaS app in peri-urban areas



#### Fact and figures

- The City of Hamburg is home to 1,8 million people. It is estimated that 300,000 commuting trips into the city are conducted daily.
- There are approximately 2,500 electric vehicles plying within the Hamburg Metropolitan Region, half of belong to corporate fleets
- The City Government is committed to procuring only emissions-free buses by 2020
- The electricity used in the city's charging points is 100% produced through renewable energy sources
- By 2019, the charging infrastructure is targeted to be expanded to up to 1,000 charging points

### Demonstration actions and support teams

	<p>50 e-scooter</p>	<p>Charging solutions Business model for PT-owned E-scooter sharing systems</p>	<p>Last-mile servicers in the peri-urban area SOL+ MaaS App</p>
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photo © Oliver Lah, Madrid

# Demonstration City | Madrid - Spain

## Cutting-edge Technology for Smart Charging

### The approach/ innovative aspect

- Cutting-edge smart charging technologies that will support the uptake of e-buses in the city by enabling charging times of 3-6 minutes using a low-cost and low weight interface on the roof of the bus
- Development of software that will monitor and control the power network for the charging stations, and thus assist in the maximization of bus availability and operational efficiency



### Activities

- Development of software to monitor and control the power network for charging stations and e-buses (SOL + MaaS App)
- Inverted pantographs for opportunity charging with modular design offering charging power of 150 kW, 300 kW, 450 kW and 600kW
- Business model development for e-taxis and e-car sharing
- Formulation of realistic medium and long-term bus fleet electrification plan
- Research and formulation of regulations necessary for zero emission zones



### Fact and figures

- Madrid emits approximately 5% of Spain's GHG emissions
- The transportation sector in Madrid accounts for 36% of the city's total GHG emissions, and 53% of its direct GHG emissions
- Madrid plans to have a 100% low emissions bus fleet by 2020

## Demonstration actions and support teams

	5 e-taxis		Open source software to monitor and control the power network
	E-car sharing		Business model for e-car sharing
	10 e-buses	2 inverted pantographs for e-buses	SOL+ MaaS app



photo © Wikimedia Commons, Nanjing



# Demonstration City | Nanjing - China

## Multi-modal E-mobility and Charging Infrastructure

### The approach/ innovative aspect

- Support towards the assessment of multi-modal e-mobility, and the integration of charging infrastructure, intelligent network coach<sup>1</sup>

1 The pilot activities in Nanjing will be conducted using local funding sources.



### Activities

- Assessment of different e-vehicles such as e-minibuses, shared e-bicycles, e-cars
- Integration of charging infrastructure in parking lots
- Intelligent network coach



### Fact and figures

- Nanjing currently has 3,000 e-minibuses, 320 shared e-bicycles, 2,100 shared e-cars, and 2,000 e-taxis
- Nanjing is targeting 20,000 new charging piles (totaling 25,000) by the end of 2020
- The city is also exploring the use of advanced technologies such as intelligent network connection towards improving traffic capacity and efficiency



# FINANCING

## Funding, Financing and Procurement Support

SOLUTIONSplus will work towards realizing funding and financing support towards large scale, transformative implementation projects.

### Funding

The development of national funding programs for public and shared urban e-mobility solutions is a key focus for SOLUTIONSplus. In close cooperation with the MobiliseYourCity, Euroclima+, IntraACP and the GEF-7 sister project, dialogues with the national governments in the partner countries will be facilitated with the objective of launching dedicated local programs for e-mobility.

### Financing

SOLUTIONSplus, together with its sister GEF-7 project, will work directly with partner development banks and other finance institutions to ensure that the demonstration actions can be sustained and scaled-up to achieve truly transformational change in the partner cities and beyond.

- Asian Development Bank (ADB)
- Agence Française de Développement (AFD)
- African Development Bank (AfDB)
- Development Bank of Latin America (CAF)
- European Bank for Reconstruction and Development (EBRD)
- Interamerican Development Bank (IDB)
- Kreditanstalt für Wiederaufbau (KfW)
- The World Bank (WB)

### Procurement

Procurement round tables involving representatives from the 30 partner cities and national governments of the SOLUTIONSplus and GEF-sister project, and providers of e-mobility solutions will be organized in order to facilitate fair negotiations.



## SCALE-UP

Dissemination and exploitation activities will aim to trigger the implementation of scaled-up projects in the SOLUTIONSplus partner cities, in the GEF-7 partner cities and beyond, they will also aim to inform policy and operations, research and development and initiate new business opportunities.

Active participation on important events and continuous dialogue would be ensured in order to effectively pursue scaling up efforts. SOLUTIONSplus shall pursue such through the following:

- Engagement in high-level policy, business and investment events targeting audiences from the following fields: policy; finance; business; public transport; research and innovation ;
- Active policy dialogue with partner countries to ensure regulatory barriers are tackled, local needs are addressed, and business opportunities are seized ;
- Business and policy partnerships support towards developing joint services and products will be taken forward building on the innovations brought about by the project.

The project will be promoted through a series of dissemination channels and tools in order to guarantee coherent, wide and regular exploitation in the urban mobility communities.

- Project website
- Social media output streams
- Short update briefs for targeted audiences
- Printed material
- Scientific Publications
- Infographics
- Project videos



photo © Barbara Lah, Berlin



[www.solutionsplus.eu](http://www.solutionsplus.eu)



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