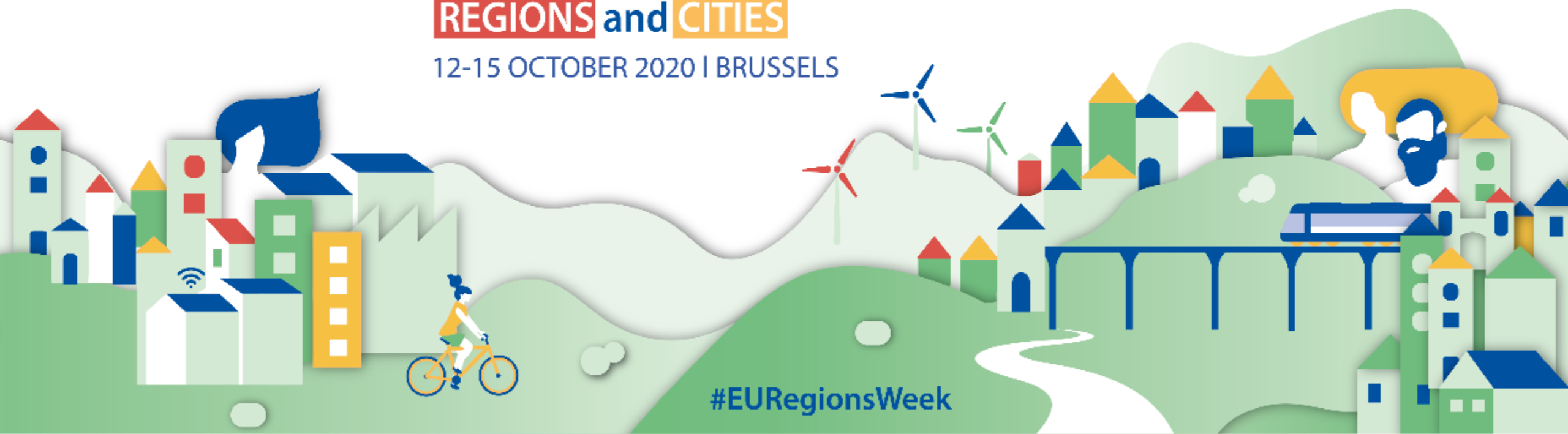


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E-buses: from procurement to deployment

Wednesday 14 October 2020 - 14:30 - 15:30 (CET)

Interreg Europe - Policy Learning Platform

Moderators:

- **Elena Ferrario – Thematic Manager**
- **Arnault Morisson – Thematic Expert in Research and Innovation**
- **Simon Hunkin – Thematic Expert in Low-Carbon Economy**



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Agenda



- **Technical details and Introduction**



- **Procurement:** prior market consultation process; good practice presented by **Arvis Bernics**, SIA Ventpils reiss, Latvia



- **Deployment:** transition to electric buses in Stockholm; good practice presented by **Anna Forsmark**, Stockholm County Council, Sweden



- **Panel discussion – Q&A**

- **Conclusions**

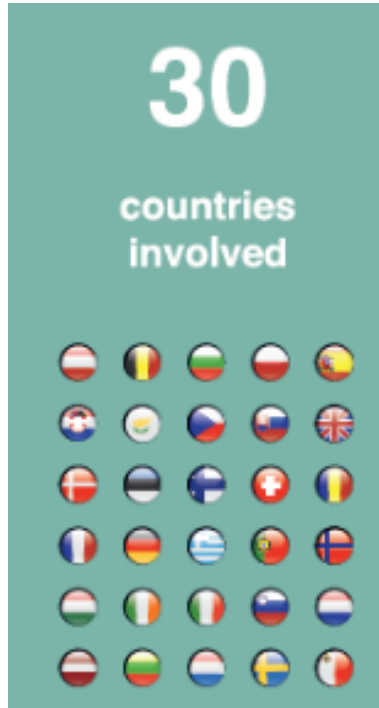


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Sharing solutions for better regional policy



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Policy Learning Platform

- A space for **continuous learning**, for practitioners of **regional development policies**
- We **take stock** of all the knowledge and results of the Interreg Europe projects and **share it** with the community
- We believe in **the power of cooperation** and facilitate networking among peers
- We help people **deliver better policies by finding inspiration in what others do**

Online learning
activities

Events

Good
practices
database

Personalised
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www.interregeurope.eu/policylearning



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Let's get to know each other



Tell us in the chat:

- Your name
- Where you are from
- Why you are interested in our session



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E-buses: from procurement to deployment



E-buses—an urban mobility solution where local and regional authorities have an essential role to play in encouraging uptake—from public procurement of e-mobility to the electrification of public transport infrastructures.

Some challenges to e-mobility:



- Charging infrastructure
- Range of motion
- Cost
- Perception



Policy Learning Platform can help



Webinar

Public procurement of innovation (PPI)



17/06/2020

Webinar recording on public procurement of innovation

Watch the webinar recording on how you can use public procurement of innovation as policy tool for your region.

Type: [Platform](#)

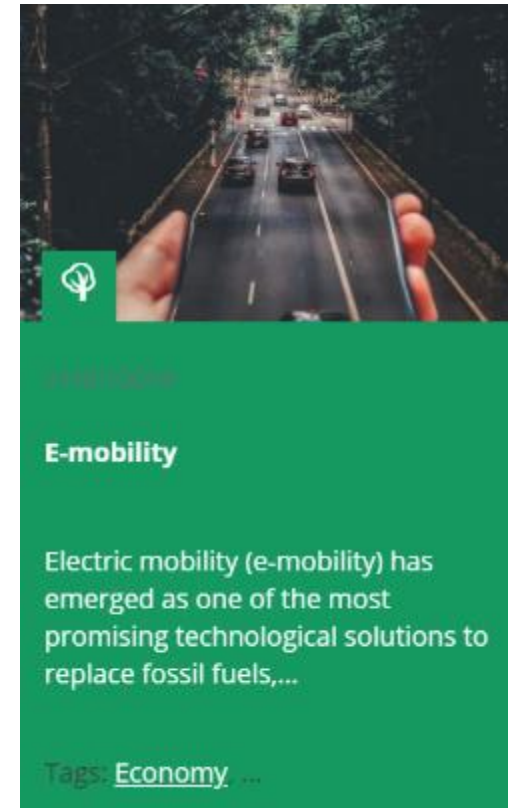


Policy brief

E-mobility



The Policy Learning Platform can help you find solutions to your policy challenges



E-mobility

Electric mobility (e-mobility) has emerged as one of the most promising technological solutions to replace fossil fuels,...

Tags: [Economy](#) ...



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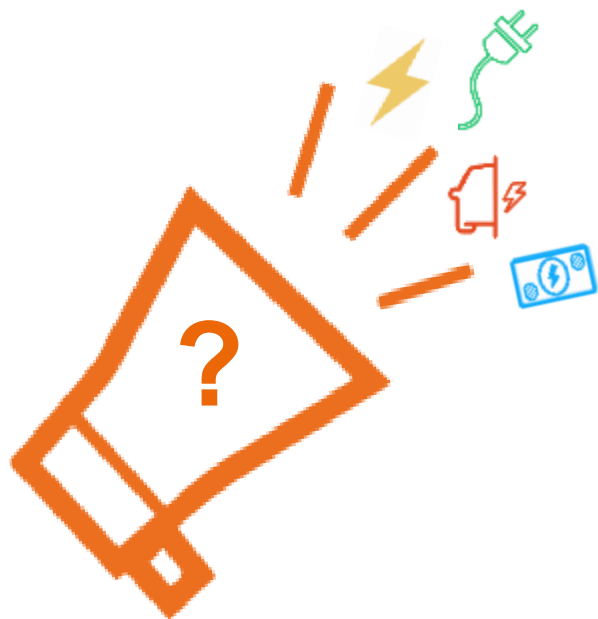
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Questions & Answers



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PROCUREMENT

Arvis Bernics and Didzis Štelbaums

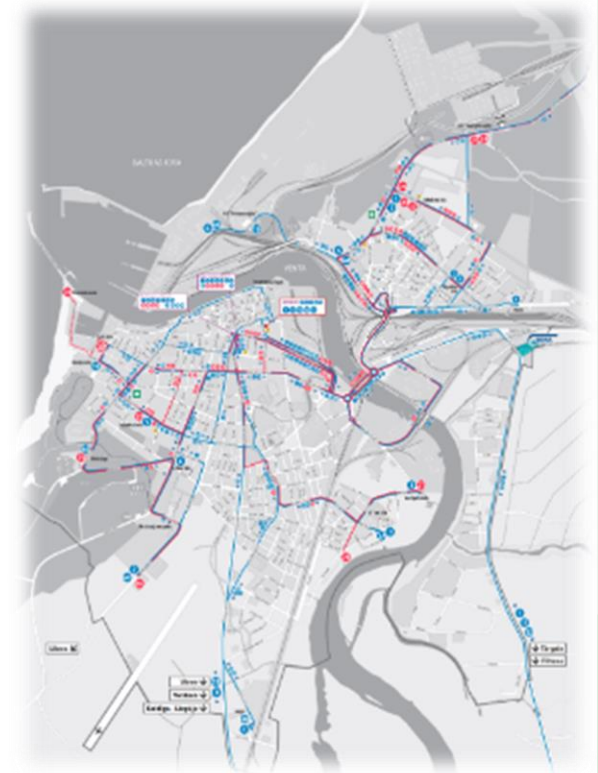
Ventspils: Facts and figures

- Located in the Northwest of the Kurzeme region bordering the Baltic Sea
- Area of 58 sq. km
- Population of Ventspils City – 38 600 inhabitants



Ventspils: Public transport

- Public transport is provided by «Ventspils Reiss» Ltd.
- 18 public transportation routes - 32 buses
- 94% - environmentally friendly Euro 5 and Euro 6 buses
- Most popular - **low-capacity buses—up to 22 passengers**
- Interval - 3 up to 6 min



Ventspils: Average passenger

- Short time on the way
- Get on and off the bus upon request
- The interval between buses must be short



Current Market

2016



- Currently manufactured electric buses are mainly high or medium capacity (weight of 12.5-18 t)
- Local needs - peak load efficiency, zero-emission cannot be met by large or medium capacity buses
- Required driving range 300 - 430 km per day - no low capacity electric buses available



Environmentally friendly
transport in Ventspils City:



Promote
comfortable
public
transportation

Find a
solution to
buy an
innovative
electric bus
adapted for
the needs
of
Ventspils
City



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Local needs

- 14 low-capacity electric buses (vehicule weight ~ 5.5 tonnes) and construction of charging stations
- Sufficient charge in 3 minutes while passengers are boarding
- Range not limited by charging and exceeds 450 km per day

PUBLIC PROCUREMENT



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In-depth market research



- Currently available products do not meet our requirements
- Some manufacturers have developed low-capacity bus prototypes. But:
 - their specifications do not meet Ventspils' needs
 - seem to be developed with engineering solutions and not customers needs in mind.
- Several manufacturers are in the process of development. It is unclear if their products will be suitable for Ventspils



Innovative product development



- **Incentives for potential manufacturers to develop innovative products:**
 - Relatively unoccupied market niche
 - City of Ventspils as a potential customer
 - Ventspils assists in product development through defining potential customers' needs and desired specifications
 - Many European countries already have restrictions on diesel-powered engines
 - European Union policy on climate change management



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First prototype was manufactured in Latvia in 2018 Procurement contract signed on 31 January 2020



Drive eO CEO Andris Dambis had the pleasure of meeting FIA President Jean Todt, ITF Secretary-General Young Tae Kim to demonstrate electric minibus

The bus is undergoing refinement and the necessary tests



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Advantages

- carried out without **financial participation of the client**
- the client was able monitor the progress of the project make suggestions
- prototype is being developed by engineers with significant experience in electric vehicle development
- promotion of fair competition; opportunity for other manufacturers to customise their products



Procurement Conditions



- A prototype must be ready by the time the offer is submitted
 - Some departures from specifications are allowed if:
 - supplier can eliminate them by the time the first bus is delivered
 - must include documents providing the supplier's capabilities (projects, contracts)
- Ability to test prototype in real environment
- Supplier can customise the product and deliver the first 4 buses within 12 months – 31st of January 2020, 10 by the end of the 2022



- Project implementer «Ventspils reiss» Ltd.
 - Project partner – Ventspils City Council
 - Public procurement procedure is organised by commission of Ventspils City Council under the rule of Public procurement
- Project coordinator – Director
 - Mr. Arvis Bernics
 - author of the idea
 - definition of functionality and required specifications
 - calculations
 - prior marketing consultation
 - coordination of the co- project implementation



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Procurement - Questions & Answers



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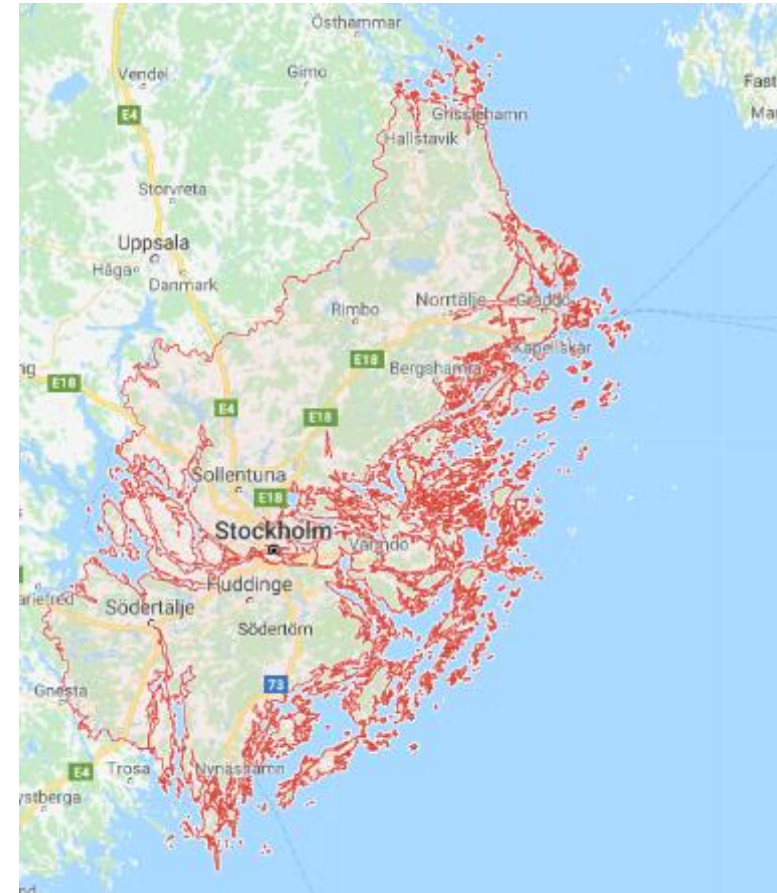


DEPLOYMENT

Anna Forsmark and Sigrid Colnerud Granström

1. Public transport in Stockholm

- Inhabitants: 2,3 million in urban and rural areas
- Bus, metro, light rail, rail, tram and ferries
- 2 200 buses, 11 contracts, 26 municipalities
- 100 % of the bus fleet runs on renewable fuels: biodiesel, biogas, ethanol
- Electric buses: ~15 e-buses today, around 900 in 2030



2. Good practice

Large pre-study to cover all aspects:

- System perspective
- Business models
- Energy and peak hour issues
- Sustainability and environment
 - Batteries
 - Local benefits
 - External effects
 - Recycling



Economic analysis

- Lessons learnt from pilots
- Land in central areas
- Depots and terminals as strategic hot-spots for charging
- Operational costs – efficient bus traffic



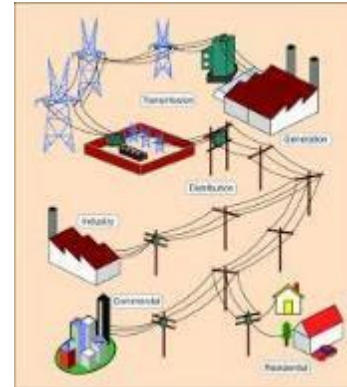
2. Guiding principles from the study

- Develop **goals** and plans for electric and zero emission operation
- **Cooperate** with municipalities and other stake holders
- Analyse potential before each tendering, and invest in technique on a **mature** market
- Encourage **initiatives** in on-going contracts
- Keep a **mix** of renewable fuels
- **Prepare** for electric buses when building and renovating
- Adapt organization, policies and guidelines
- Extend the **requirements** in contracts to include battery's production, traceability, recycling and re-use.



3. Challenges

- Lack of electric power - **grid capacity**
- Lack of **best practice**
- Lack of **investment funds**
- Lack of competence **inhouse**
- **Patience** - work with change management
- Responsibilities and **mandate** – who can decide what?
- Rapid technique development – continuous **benchmarking**



3. Recommendations

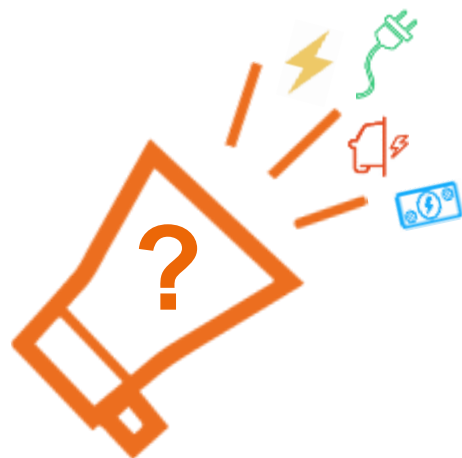
1. Make sure you have enough **resources** to work (both hours and money) and that you **cooperate** with other stakeholders
2. Make sure someone **brave** can take uncertain decisions about the future, and celebrate each step
3. **Communicate** how your organization needs to grow, develop and change due to new tasks, challenges and developments



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Deployment - Questions & Answers



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Panel Discussion – Q&A



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the chat.



Conclusions



■ E-buses: from procurement to deployment

- Main messages
- Some insights



■ The Policy Learning Platform can help

- Interregional onsite or online peer reviews
- Policy digest
- Policy helpdesk



Marc Pattinson

Thematic Expert – Research and Innovation



Arnault Morisson

Thematic Expert – Research and Innovation

[Contact us](#)



Katharina Krell

Thematic Expert – Low-carbon economy



Simon Hunkin

Thematic Expert – Low-carbon economy

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MANY THANKS!



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