

# ITEA Smart City Day session II

## Citizen engagement



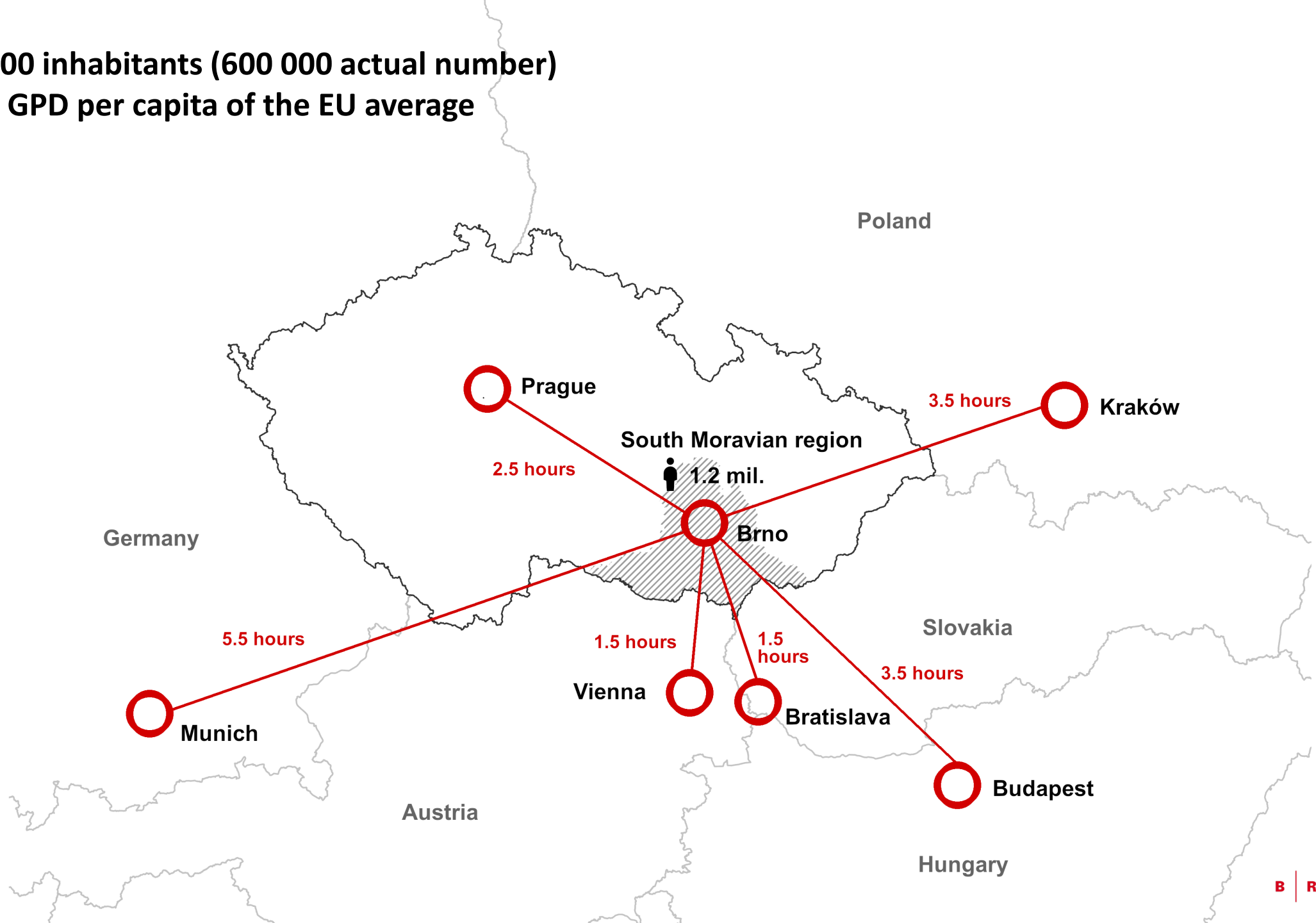


An aerial photograph of a city, likely Brno, showing a dense urban landscape with numerous buildings, streets, and green spaces. The image is used as a background for the presentation slide.

# CITIZEN PARTICIPATION AND ITS CHALLENGES



- 400 000 inhabitants (600 000 actual number)
- 147% GDP per capita of the EU average









# CITIZEN PARTICIPATION PROBLEM

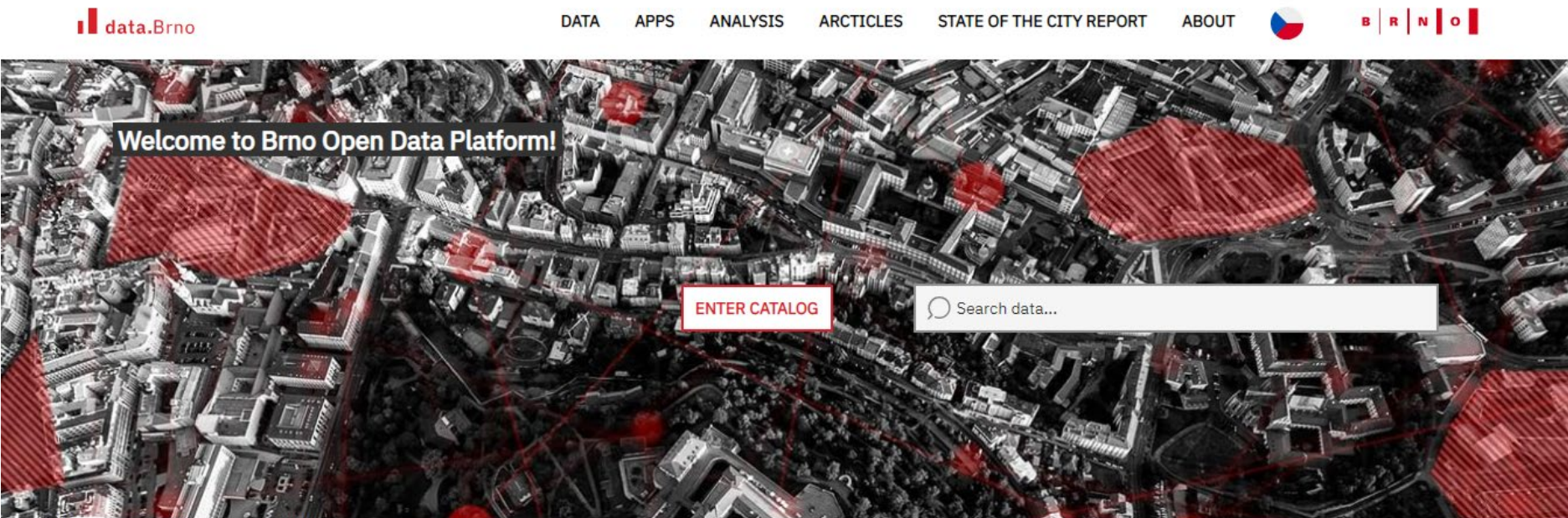
- low participation levels in various schemes and initiatives
- non-existent awareness of the way our city works
- inexperience and reluctance of city employees
- minor „trouble“ groups vs general public

# PARTICIPATORY BUDGET CHALLENGE

- 1.5 mil €
- 20 000 citizens
- only about 100 proposals



# CITY DATA CHALLENGE

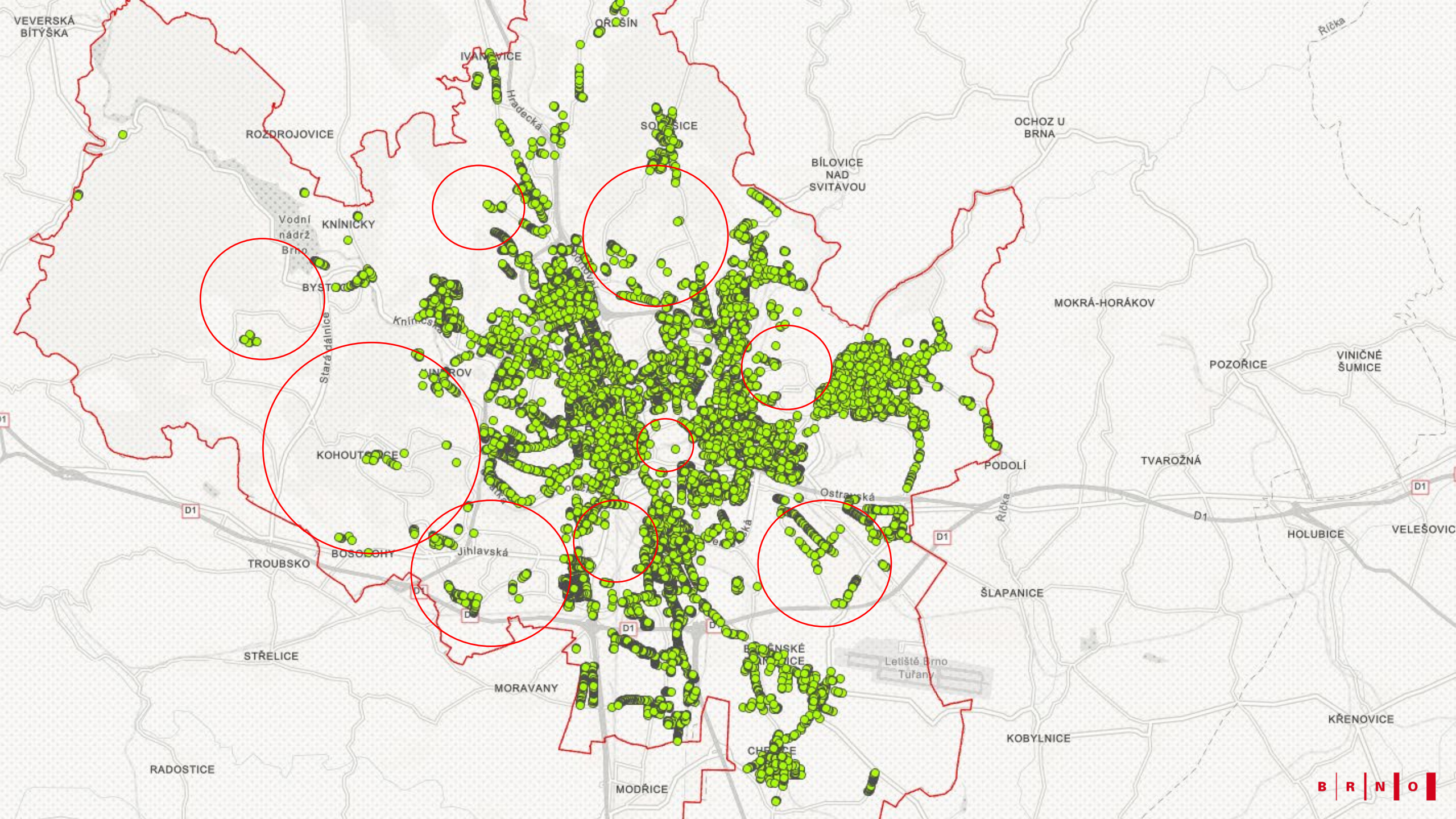


Updated 13 days ago: Public transport stops

Click for long-term statistics ...









An aerial photograph of a city, likely Brno, showing a dense urban landscape with numerous buildings, streets, and green spaces. The image is taken from a high angle, looking down on the city. The text 'Thank you!' is overlaid in the center in a large, white, sans-serif font. A thin white vertical line is positioned to the left of the text.

# Thank you!





# Ghent, more than a smart city

18 maart 2021



A nighttime photograph of the Ghent skyline, featuring historic buildings and a prominent church spire, reflected in the water of a canal. The scene is illuminated by city lights, creating a vibrant blue and white palette.

gent:

# Digital Transformation

<https://stad.gent/nl/meer-dan-slimme-stad>

18 maart 2021



## Focus of Digital Transformation

- > Innovate together
- > Make data work for people
- > Digital first
- > Accessible for All



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Examples



# Some examples

**Datalab**

**Com'on**

**Wijkbudget**

<https://data.stad.gent/>

From open data portal to thematic data labs

<https://www.ghentlibrary.com/>

University, Library, Imec and City council cocreate innovation

<https://participatie.stad.gent/nl-BE/pages/wijkbudget>

Participatory neighbourhood budgetting, all online (covid related)



Thank you

@bartrosseau





# Rennes Urban Data Interface

Présentation ITEA3  
16.03.2021

Ont signé l'accord de consortium



Un projet piloté par



Avec le soutien financier de



## A bit about me and Rennes Métropole

- Open Data manager for Rennes Metropole (since 2016)
- Coordinator for the RUDI project – citizen work package
- 450k inhabitants over 43 municipalities
- First French city (Rennes) to launch open data





# What is RUDI?

## A data sharing platform project

- Sharing public service (open and shared) and private company data
- Giving citizens access to their own personal data.
- Connecting projects to experts, data and future users

## A local data governance project

- A mix of public and private stakeholders, financed by Europe (UIA initiative)
- Data producers (public service, mobility, energy, etc), experts, citizens and researchers.
- Transparency, replicability, ethics, security, education, services, innovation

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# How long? How much?

3 years: 2019 to 2022

- 8 different work packages (communication, citizen engagement, services, dev, etc)
- 3 yearly events, with smaller events during the year
- This year: Beta version, with a full version in 2022

Roughly 5 million euros, 80% financed by UIA

- Funding the conception of RUDI (for all 12 partners)
- Funding the platform dev (taken on by the municipality)
- Funding the documentation of the project, for replicability and transparency

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## How does it work?



- Each partner references their data on the platform, with detailed access conditions. RUDI doesn't store the data.
- **Citizens have their own personal space to view, act on (GDPR) and use/consent to the use of their own data**
- Project managers can build their service around local data and a diverse community

# What are the challenges of citizen involvement ?

- How can we build a community of non-experts around a subject perceived as complex and theoretical before we have anything tangible to show people ? (What's the point of managing my data?)
- How can we build trust around our way of managing data and creating services? How can we make it as ethical and safe as possible? (You'll give it to Facebook but not to the university research team?)
- How can we encourage use of the platform (who has the time to individually manage their own data?)





# Thanks for listening!

Contact and reading material:

Email: [b.lister@rennesmetropole.fr](mailto:b.lister@rennesmetropole.fr)

Site (in English): <https://www.uia-initiative.eu/fr/uia-cities/rennes-metropole>

Site (mostly in French): <https://rudi.datarennes.fr/>

Twitter: @projetRUDI

Youtube: [ProjetRUDI](#)

Présentation ITEA3  
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ITEA2

INFORMATION TECHNOLOGY FOR EUROPEAN ADVANCEMENT



## ITEA2 Call 8: 13016 C<sup>3</sup>PO Collaborative City Co-design PlatfOrm

Olivier Biot (Sirris)



European leadership in Software-intensive Systems and Services



## C<sup>3</sup>PO – Rationale

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- Facts / opportunities observed:
  - Five billion people likely to be living in cities by 2020
  - City design is **complex**, everything is impacting everything
  - Urbanisation and immigration challenges posed to cities are immense
  - IT starts providing **opportunities** at affordable cost for cities
  - Opportunity for **smart support** of the urban development never been greater
- Clear need to
  - **Mitigate risk** through better planning and prediction
  - Mediate a range of **stakeholders** with vested interests engaged in the urban development

## C<sup>3</sup>PO – Main focus

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### Enhancing the city planning by co-design

It requires:

- Simple **access** of different sources of information
- **Visualization** of information relevant for decision-making
- **Simulation** of different scenarios
- Support of **communication** between stakeholders
- Static and dynamic **data**
- Up-to-date **quality** of information



## C<sup>3</sup>PO – Answer

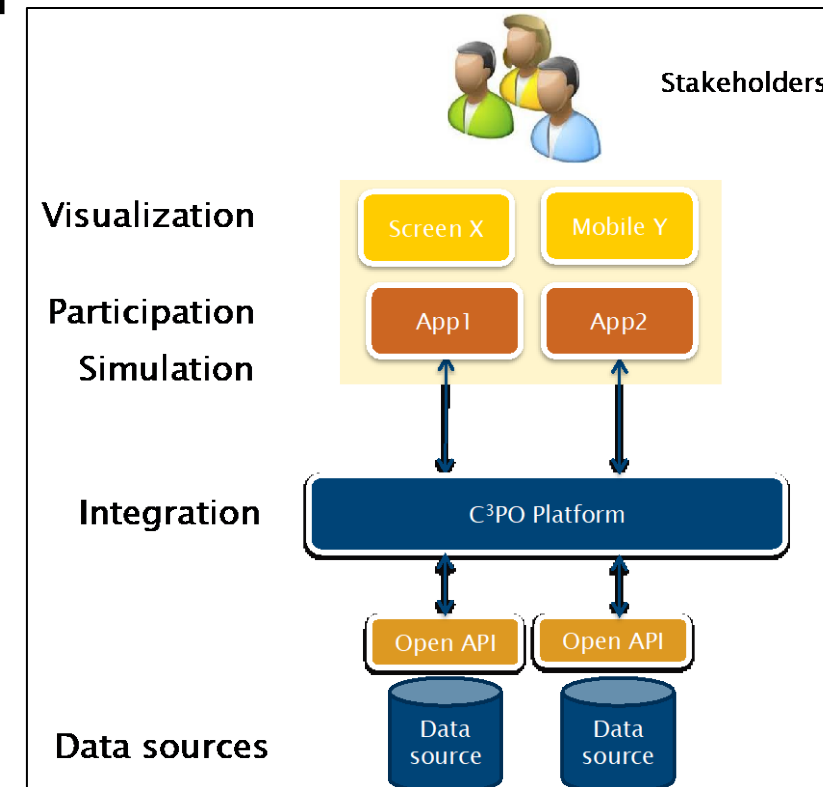
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Address the challenges confronted by urban design by ICT through a **collaborative and semantic platform for city co-design, deployable in the cloud**

- Covers the **whole urban project development process** where cities empower, encourage and guide different stakeholders to develop an urban project together.
- Involves **all relevant stakeholders** in the urban design process: citizens, decision makers, architects, etc.

# C<sup>3</sup>PO – Platform

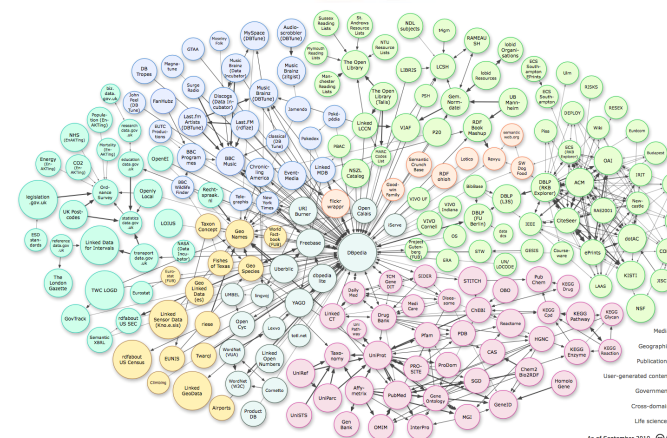
- An **open and generic intermediary** that enables the interaction between existing applications through a unique multi-dimensional repository covering the different types of information in city co-design
  - GIS, BIM, electricity grids, traffic...
- **Does not** intend to replace or modify existing applications offering unique but partial solutions of city co-design
  - simulation tools, open API, 3D modelling and visualisation, gaming tool, etc.





# C<sup>3</sup>PO – Platform

- Open data initiative
  - Encouraged by the European Commission
    - 2003 Public Sector Information Directive
    - 2011 Open Data Package
  - Open Knowledge Foundation (EU)
    - Availability and access
    - Reuse and redistribution (including integration and machine-readability)
    - Universal participation (everyone must be able to use, reuse and redistribute)
- Linked open data
  - W3C initiative within Semantic Web (Web of data)
  - RDF as the *lingua franca* for data



As of September 2011 © IITP

# C<sup>3</sup>PO answered challenges in city co-design

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## Challenges

Easy access to all relevant information

Presentation of the information

Improvement of participation

Transparent co-design process

Tacit knowledge

Group dynamics

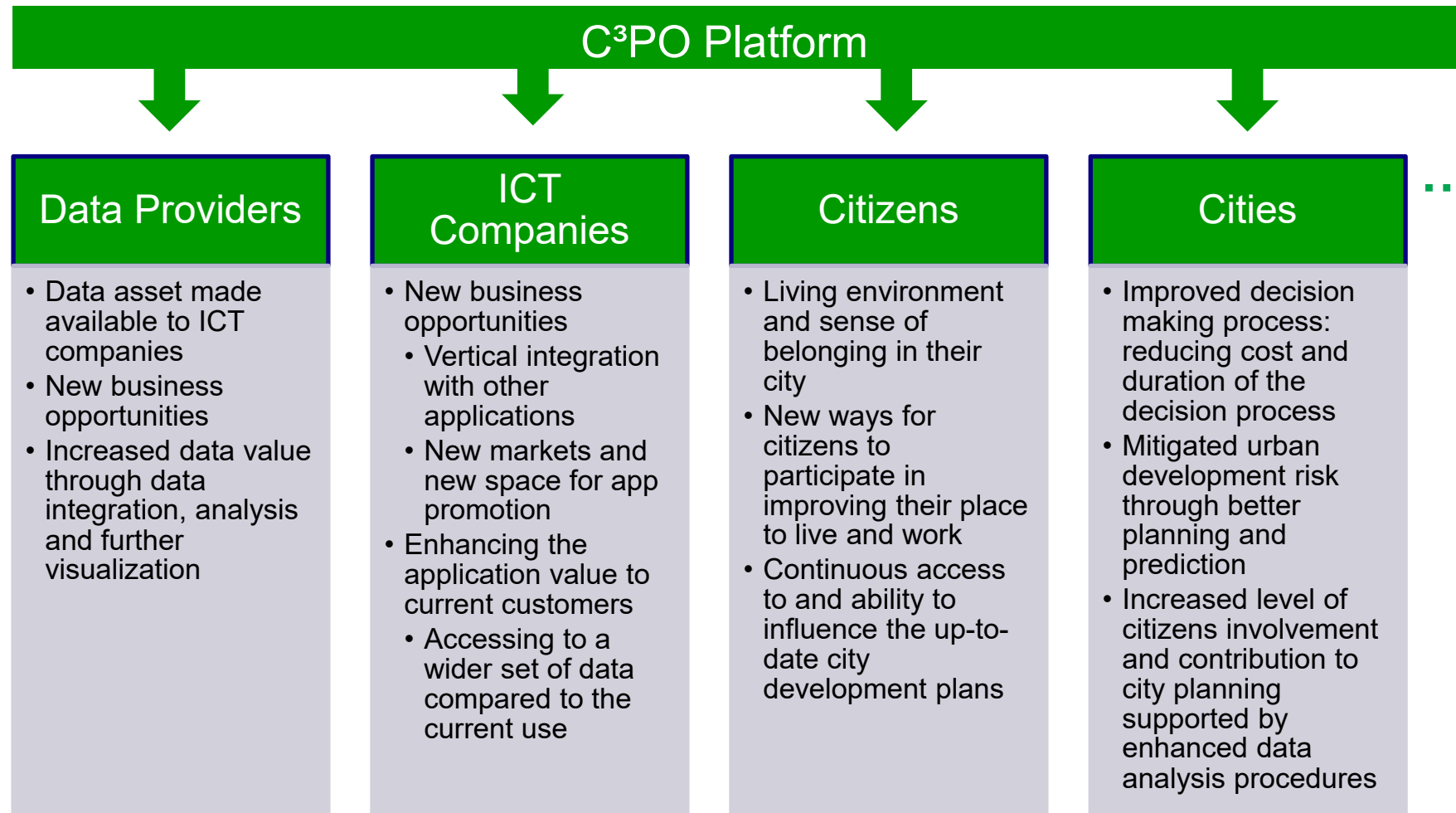


# C<sup>3</sup>PO – Platform audience

1. Citizens:
  - residents
  - users of local services
2. Planners & experts:
  - urban area planners including
  - civil engineering,
  - greenspaces and
  - traffic
3. Communities, organisations and associations
4. State and regional authorities
5. City counsellors
6. Organisations within municipality, different boards and departments like
  - healthcare,
  - schools,
  - leisure time,
  - electricity,
  - building,
  - water etc.
7. Local businesses:
  - existing companies (land owners)
  - potential new ones
8. ICT companies
9. Investors



# C<sup>3</sup>PO –Value for stakeholders





# Introduction & Relevance

## Market Relevance (global)

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- Project targets the growing market of smart cities
  - The idea of smart cities has become a globally recognized proposition and a value creator.
  - In the next 10 years, over \$100 billion will be spent on core technologies to support smart city development worldwide.
  - The smart city market is expected to be worth \$1,5 trillion by 2020, opening tremendous opportunities for business (Frost & Sullivan, 2014).
- Project also targets sub and/or side markets
  - Open data-driven city marketplaces
    - Cities and other data providers provide access to their data through interfaces designed for external third party developers called Open APIs
    - The EU Commission estimates a EU-wide potential from access to public data of €27 billion
  - Urban planning and simulation tools
  - Virtual and augmented reality
- Dedicated partner market forecast added in the partner specific pitch at the end of this presentation

# Introduction & Relevance

## State of the Art

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- Recent trends
  - From open data to linked open data
  - Linking geospatial information
  - Linking ontologies relevant for Smart Cities
    - W3C/OGC working group working on the same topics at the same time
    - Different European cities working on Linked open data
    - Different European initiatives on Linked open data for Smart cities



### LD4SC-15



1st Summer School on Smart Cities and Linked Open Data (LD4SC-15)  
June 8th-12th 2015, Cercedilla (Madrid), Spain  
<http://smartcity.linkeddata.es/LD4SC/>

The 1st Summer School on Smart Cities and Linked Open Data (LD4SC-15) will be held from June 7th to 12th 2015 at Residencia Lucas Olazábal of Universidad Politécnica de Madrid in Cercedilla, a municipality of the autonomous community of Madrid in central Spain.

### Amsterdam Museum Linked Open Data

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Email: {j.vangent, m.oosterbroek}@amsterdammuseum.nl



# Introduction & Relevance

## State of the Art

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*"... cities are frequently master planned without any citizen engagement. "If you build it they will come". People may come but without citizen involvement in the planning these cities risk becoming sterile places without vibrant social interaction..." (Boyd Cohen, one of the leading experts in smart urban planning)*

- **Recent trends:**
  - **Open data** - driven city marketplaces
  - **Smart urban planning** and **simulation tools**
  - **Virtual** and **augmented reality**
  - **Open** and **User Innovation**
  - **Co-design** trends
- **We (C<sup>3</sup>PO) are:**
  - **co-creation platform**, where different stakeholders are taking part in the decision-making
  - **On the forefront** of the topic of city innovation.



## Project website

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- Project description:
  - <https://itea3.org/project/c3po.html>
- Overview of demonstrators
  - <https://c3poprojectblog.wordpress.com>