Bottom-up data, top-down platforms

Workshop 1: "Building partnership for data collection: providing the evidence to stimulate effective working across public and private sector"

Samu Szemerey

Two tales of shared mobility
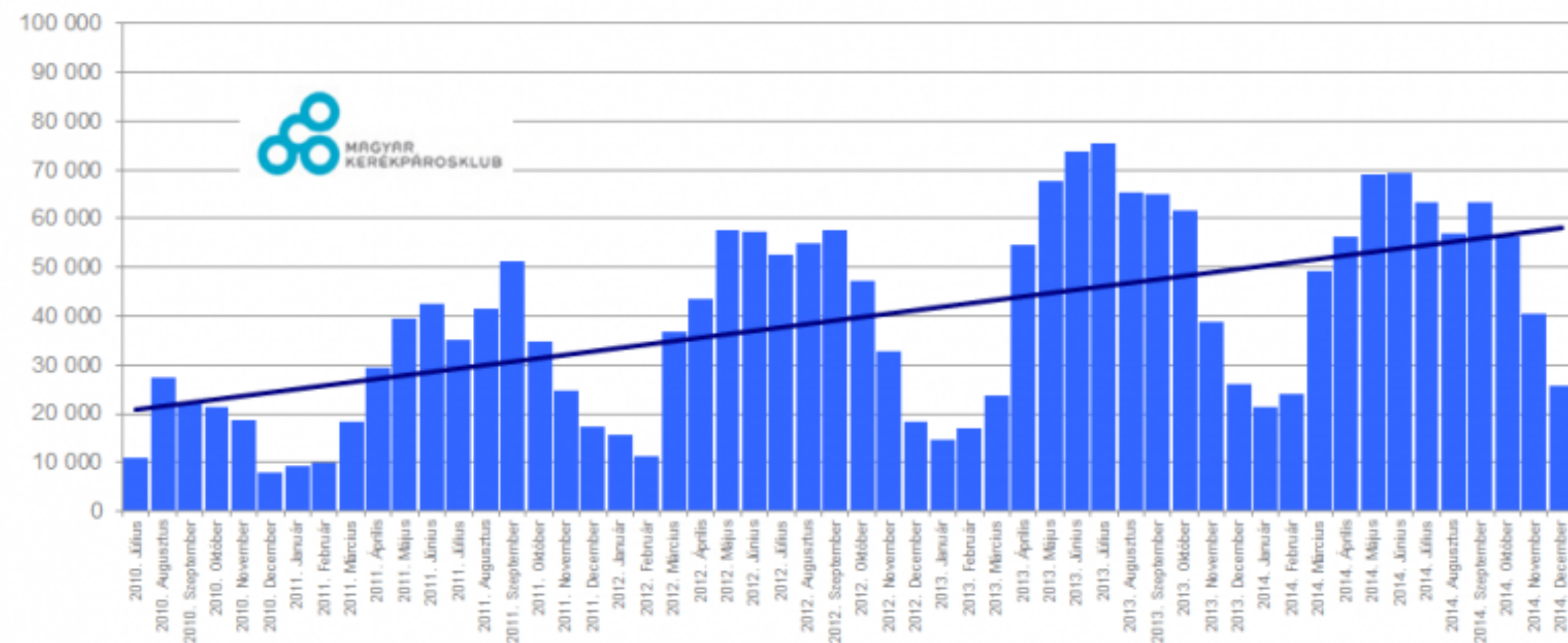## Managed vs unmanaged ecosystems

Uber, 2009

Bottom-up car sharing network during strikes, 2009

Making data work
Bottom-up and top-down efficiency and impact

Single street sensor installed by Hungarian Cyclist Club
shows & communicates growing bicycle traffic, 2010

'Karesz' LIDAR model of streets managed by
Budapest Transport Commission, 2013

Data is there, but in fragments and silos
Do cities even know what they have?

city driven integrated
service with sponsors

partner business with
vision of integration
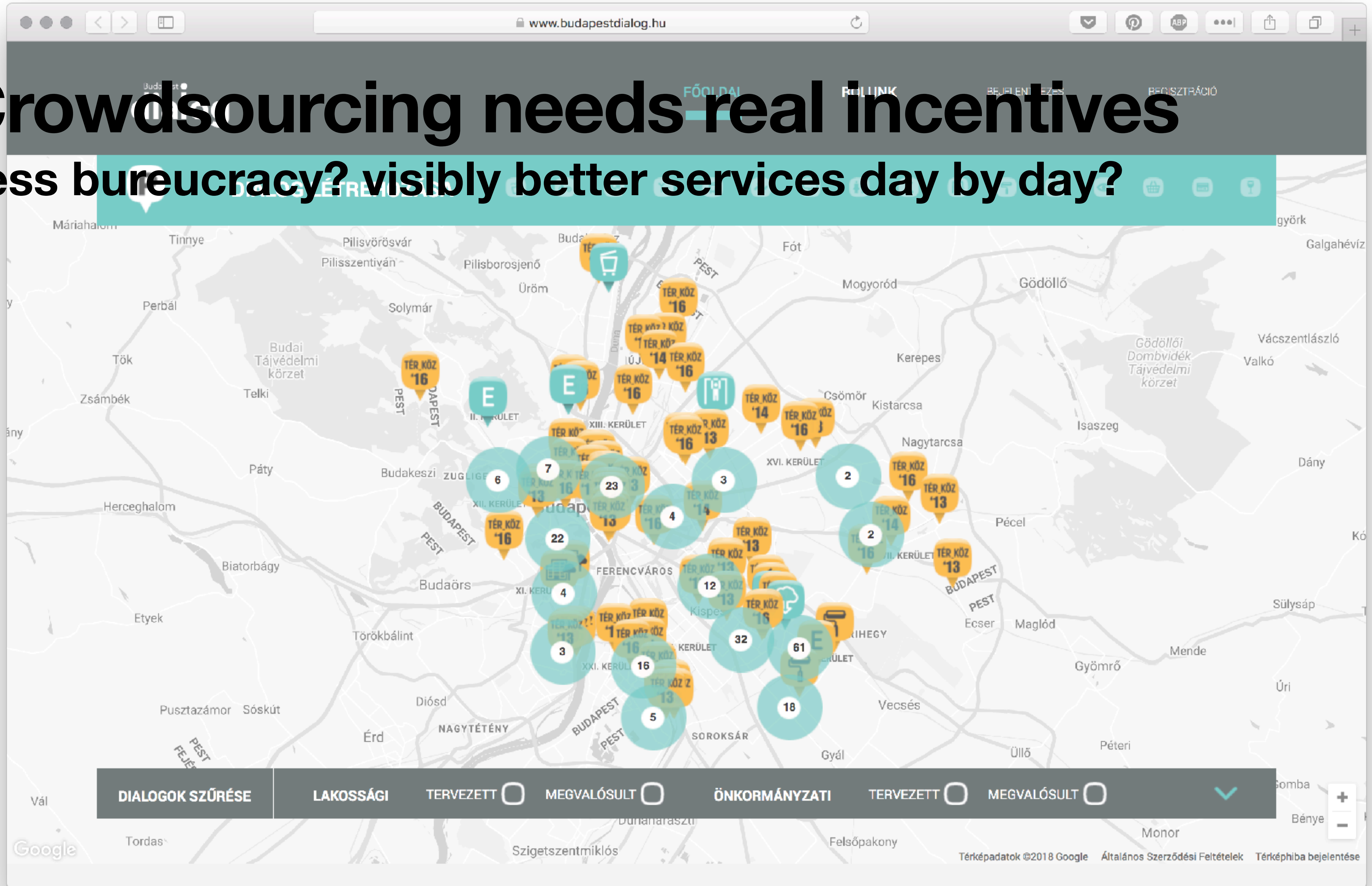
competing business
started by bike sponsor

international business
running amok

open data

some data

no data

no data

Crowdsourcing needs real incentives

Less bureucracy? visibly better services day by day?

Data is not enough
Partnerships need facilitation, value proposition and exchange

- What can the city offer to those who provide their data?

- How can the city show what it is doing with the data?

- Does the city need in-house capacity (CTO/CDO) or can it be outsourced?

- How can scalability and interoperability become meaningful
  for the whole ecosystem?

Lechner Knowledge Centre
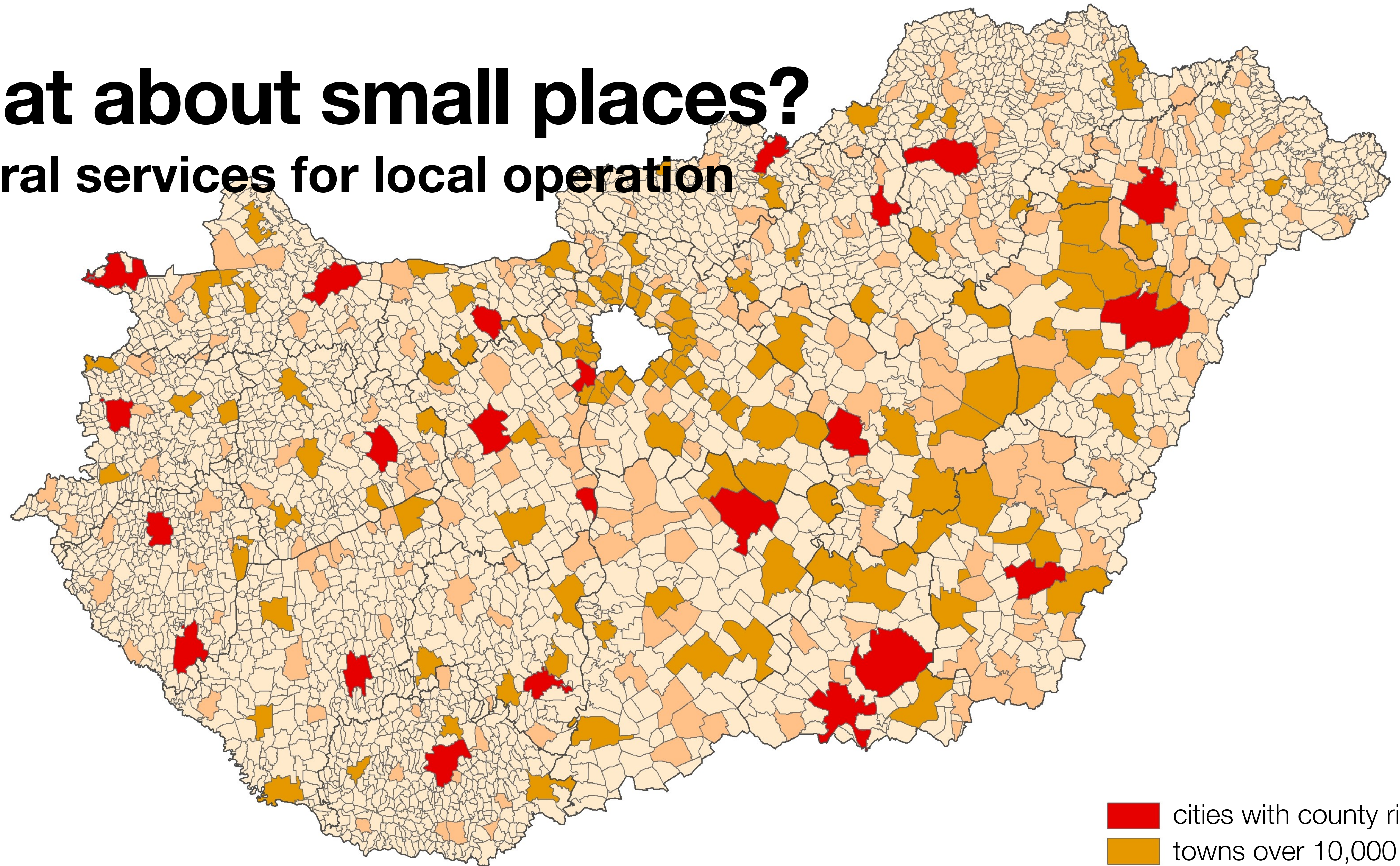**Background institute with 70-year legacy**

LECHNER TUDÁS KÖZPONT

architecture

planning

IT, e-governance

geospatial services

documentation center

What about small places?
Central services for local operation

Settlements of Hungary, 2014. Source: TeIR (KSH)

Legend:
- cities with county rights
- towns over 10,000
- towns under 10,000
- villages

City data for audits and monitoring
Provided by Lechner for cities and government

- ISO 37120
  EU Smart Cities Index
  Smart Cities Council

- 6 areas
  24 themes
  68 complex indicators
  215 indicators
  600+ data sets

- 3 city scales

- statistical data
  municipal data
  public surveys
  map-based analytics

- city audit
  strategy evaluation
  monitoring

R+D+I

Transportation safety

Sustainable mobility

Mobility ICT & Infrastructure

Local entrepreneurs

Multimodal access

Local potentials
and initiatives

Climate-conscious City

ICT & Infrastructure

Environment Protection
Disaster prevention

Municipal services

Long-term
ressource management

Integrated governance

Sustainable City

Open governance

Safety

Living conditons

Education

Health

Creativity

Social situation

Activity

Housing

Digital competencies

Embedding data in local development
Framework for updating Integrated Development Strategies

operation analysis	operating model	business model	strategy planning	action plan
Service portfolio	Partnership process	Funding partners	Overview	Actions
Data stock	Structure of operation	Operation financing	Planned operation	Program management
Partners		Development financing	City audit	Financing model
Forms of collaboration			Existing strategies	Monitoring development
Forms of financing			SWOT	Detailed program plan
			Future vision	
			Goal matrix	

City data platform launching in 2020
Centrally provided framework, local DWH and use cases

central databases

local databases

geodata

sensors

city cards

mobile apps

plug-ins

city data layers

geodata

application layers

BIM database

map based
city data platform

municipal buildings
cadastre
and FM platform

mobile application

city card

API services
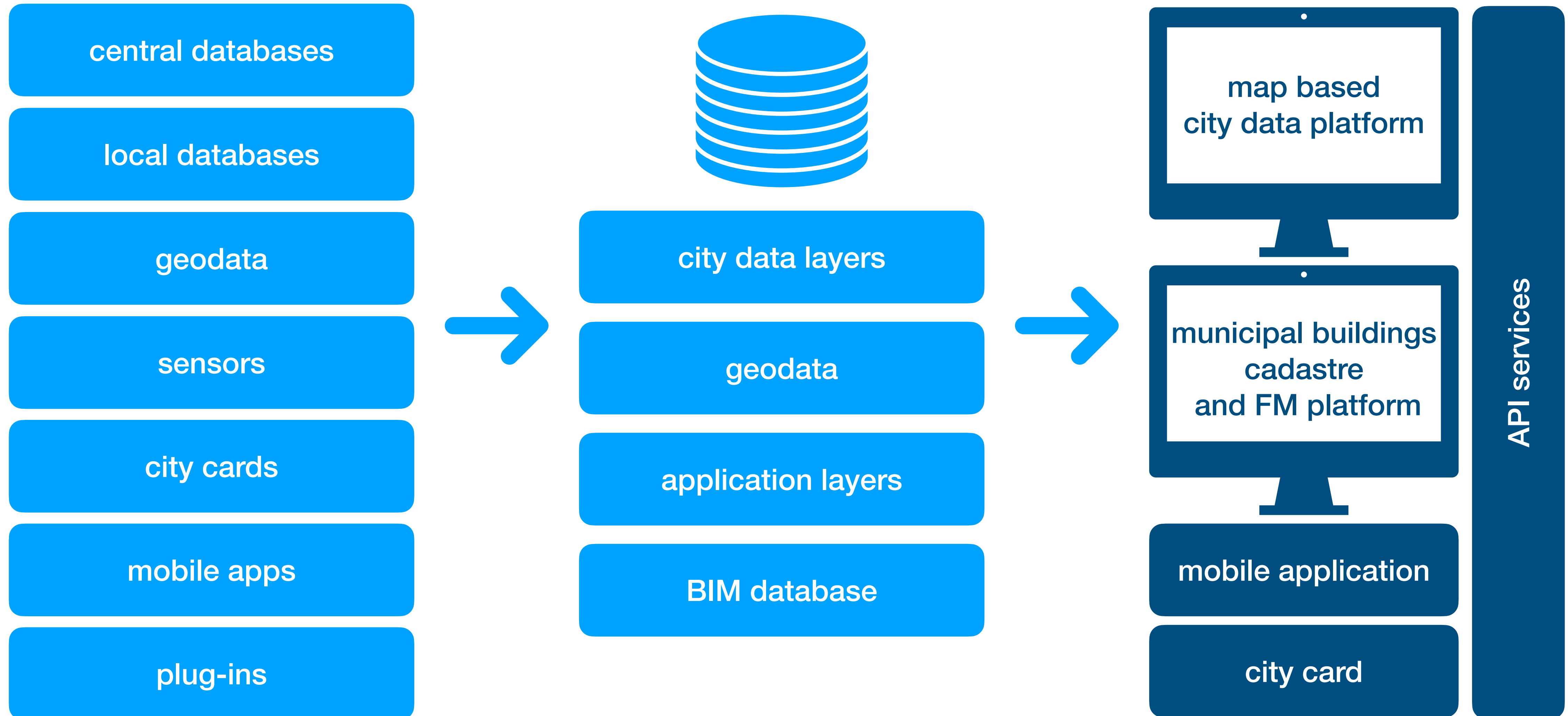
Locating local data
Options for partnerships?

central databases

local databases

geodata

sensors

city cards

mobile apps

plug-ins

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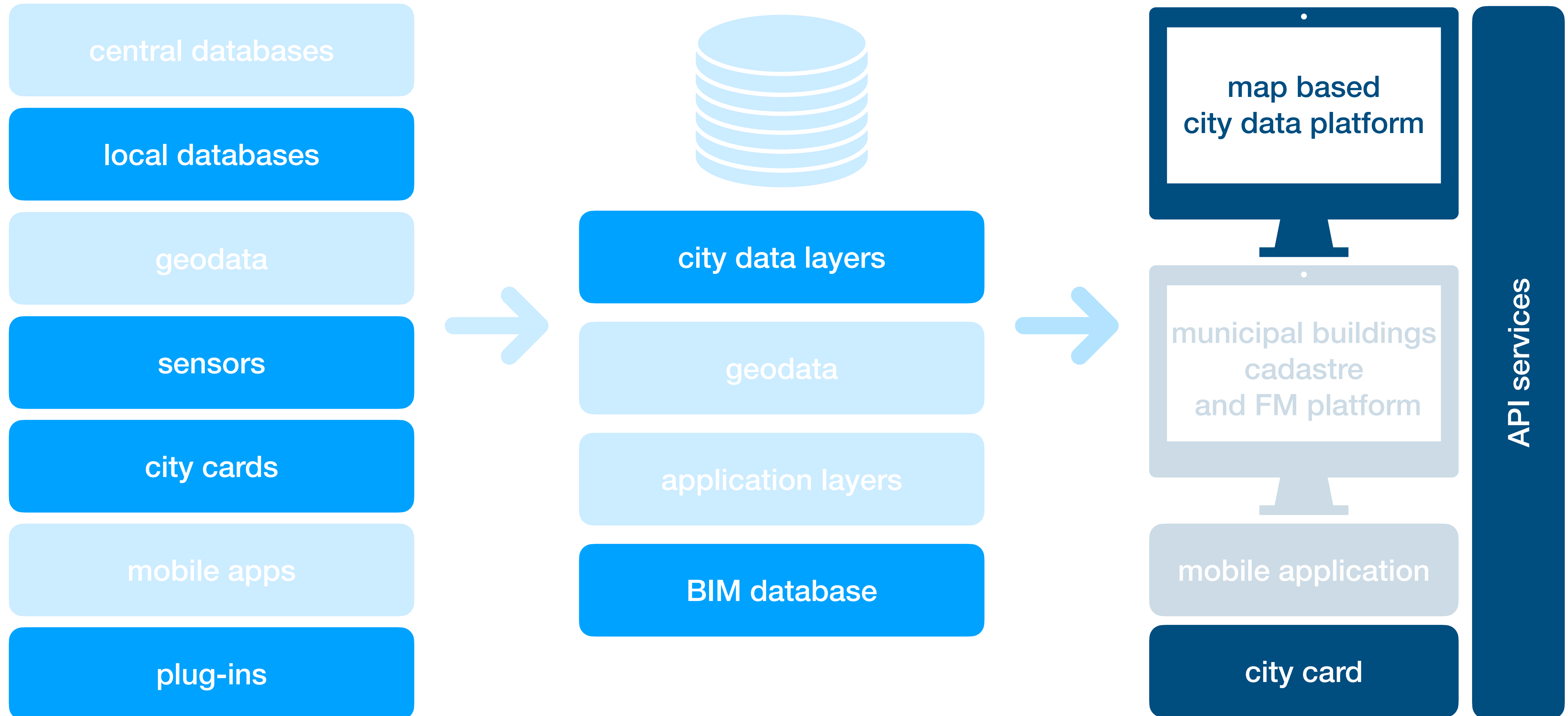
Questions to discuss
Think about these and bring answers / dilemmas to share!

- Identify 3 goals where data would be useful for you but is not available.
  What could be the ways to find / collect data for these?
  Who are the geeks and weird enthusiasts that could help?

- Is there any comprehensive data-related position in your organization?
  How many departments have data oversight or databases?
  How many legacy systems exist?

- How many steps does it take for a citizen to get an idea across
  to the relevant department? Do you have a protocol for this?
  How can I reserve a public space for an event?