Data sovereignty

How can cities ensure their own and their citizens' sustainable data sovereignty?

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Data Sovereignty

- The control and governance of data that is collected or held by a person, entity, nation.
- Informational self-determination: Right to data self-determination of the individual and of the community of the individuals (the city) through information known about that person or entity.
- The sovereignty of persons and municipalities, as regards the creation, access and use of data, both for individual purposes but also, more interestingly, for common purposes (the “common good”).

→ Cities’ own Data Sovereignty and guarantor / custodian of citizens’ Data Sovereignty .

Implications of data as a city public good

- City “identity” is made up of the data it has (that defines it), and the rights granted by its residents to use that data.
  - Scope of rights of the City to access and use that data (vis-à-vis its residents/visitors).
  - Is there an overriding legitimate interest?
- Public value or good for society: data is managed not just for citizen self-determination and freedom, but also used for city data-driven policies for the good of residents and visitors.

- City Rules for managing data in this manner (BCN Decree on ethical data management) sets up
  - Governance Structures (CDO, Privacy Office)
  - Management Processes (transversal consultation, procurement processes, Opendata)
  - Technology Architectures (Data Lake, OpenData portals)
- Treatment of privately held data about the City and citizens/residents
  - Access and sharing obligations - public contracts? Other places?
  - Balance of power between Administration and private sector (large companies)

A multifaceted issue with several challenges

Legally speaking:

- Data “ownership” v. the city as a data steward or guardian (trustee) rather than an “owner”
- rights to control the use of data and datasets
- individual’s privacy rights in personal data;

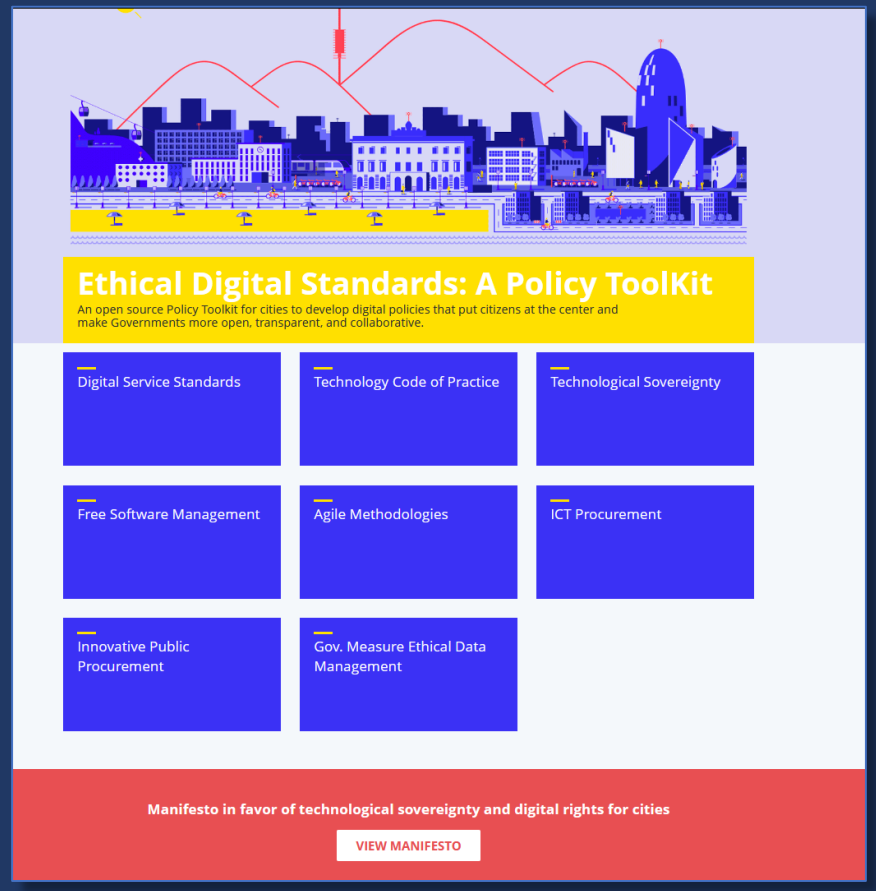
Technological impacts, digital services

- data architectures and storage
- access rights and “rules” attached to data
- data security,
- data transfers

In organizational terms,

- impacts but also supports the city‘s need to access and use data for citizens’ benefits,
- and legitimates certain uses for the common good that may prevail over individual rights

Examples of Data Sovereignty oriented projects



The Barcelona City Council **Open Digitization Plan** defines a process of profound, progressive change in the way the city will develop and offer its services to its citizens.

It aims for radical improvement in digital public services, based on our **Ethical Digital Standards**, including in particular the use of free software, open standards, data sovereignty, developing digital services in an agile manner, and ensuring **privacy, ethics and security by design**.

Through the **open data and data commons strategies**, and the use of **free software tools**, Barcelona aims to guarantee improvements in **transparency and interoperability** based on open data formats and a set of interoperable and reusable applications and services, while adopting privacy-enhancing and rights-preserving technologies that protects' **citizens information self-determination**.

The **Cities Coalition for Digital Rights**, aims to promote, protect and uphold human rights on the internet at the local and global level.

With the support of the UN Human Settlements Program (UN-Habitat), UCLG and Eurocities, we share best practices, learn from each other's challenges and successes, and **coordinate common initiatives and actions**. Inspired by the Internet Rights and Principles Coalition (IRPC) the work of 300 international stakeholders over the past ten years.

CITIES COALITION FOR DIGITAL RIGHTS

Barcelona Data Management Regulation, 2018

- Part of Barcelona's Ethical Digital toolkit
- A global vision of and strategy for the City Council's data-management plan and the proposed changes towards the responsible and ethical use of data- for data driven policy making and decisions
  - Governance Structures (CDO, Privacy Office)
  - Management Processes (transversal service management boards, procurement processes, Opendata protocols, PIA and privacy compliance)
  - Technology Architectures (Data Lake, Data Commons linked to OpenData portals)
- Obligatory nature of provisions: "baking" data management for sovereignty into administrative processes and … traditions.

Procurement and contract terms - 2020

A lot of city data is created outside the city structures and entities, by service providers

Essential and guarantee (legally) provision of or access to this data

Contracts MUST implement "data management by default and by design"

Awareness and skills of public administrators and project managers

City data architecture ready to receive this data (very large quantities)

Negotiation with private operators (licensing for use of public spaces, etc.)

Procurement Data Management Guidelines

- Key data considerations
- Rules of procedure and workflow
- Consultation with Pivacy Officer, Data Office, Other departments

Standard Contractual Clauses

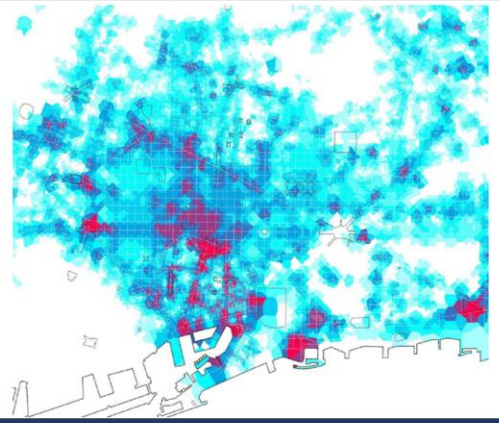
- Template contracts
- Library of clauses
- Explanations and support

Shock Plan for Digital Inclusion in Barcelona

- Improve access to digital tools
- Citizen training

DEcentralised Citizens Owned Data Ecosystem:

Data sovereignty for citizens decode



CityThon – urban mobility

Open Data Challenges

DECODE – data sovereignty

WORLD DATA VIZ Challange

Digital Democracy

Digital Empowerment: Education, Inclusion, Democracy

Featured projects

STEAM BCN

Educational events

Cibernàrium

More projects about Digital education and training

Featured projects

Technology and Gender

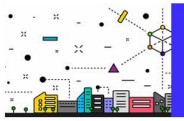
Rec, Barcelona's social currency

Vincles BCN

More projects about Digital inclusion

Featured projects

"What if...? Conversation cycle #desdecasa"



Cities Coalition for Digital Rights

Decidim Barcelona

More projects about Democracy and Digital Rights

DECODE: Citizens control of their data

- Blockchain based platform for giving granular control to citizens over the sharing and use of the data
- Use cases… e.g. anonymous or shared citizen participation
  - For more see this afternoon!

DECIDIM: citizen participation in service design

- Open source platform for citizen participation
- Engaging citizens in definition, prioritisation and design of digital services, including data management
- Understanding residents' approach and feeling about data use:
  - Data monitoring for public good (health, environment, security, etc.)
  - Data sharing for optimising services across departments
  - Profiling for targeting public services and programmes, anti-discrimination
  - Identifying need for digital inclusion actions

CITIES COALITION
FOR
DIGITAL RIGHTS

Data Sharing Work Group: not all about Data Sharing, but about Data Management and Use for understanding the City and its residents and visitors. Sharing is just one aspect of this

HIGHLIGHTED ISSUES

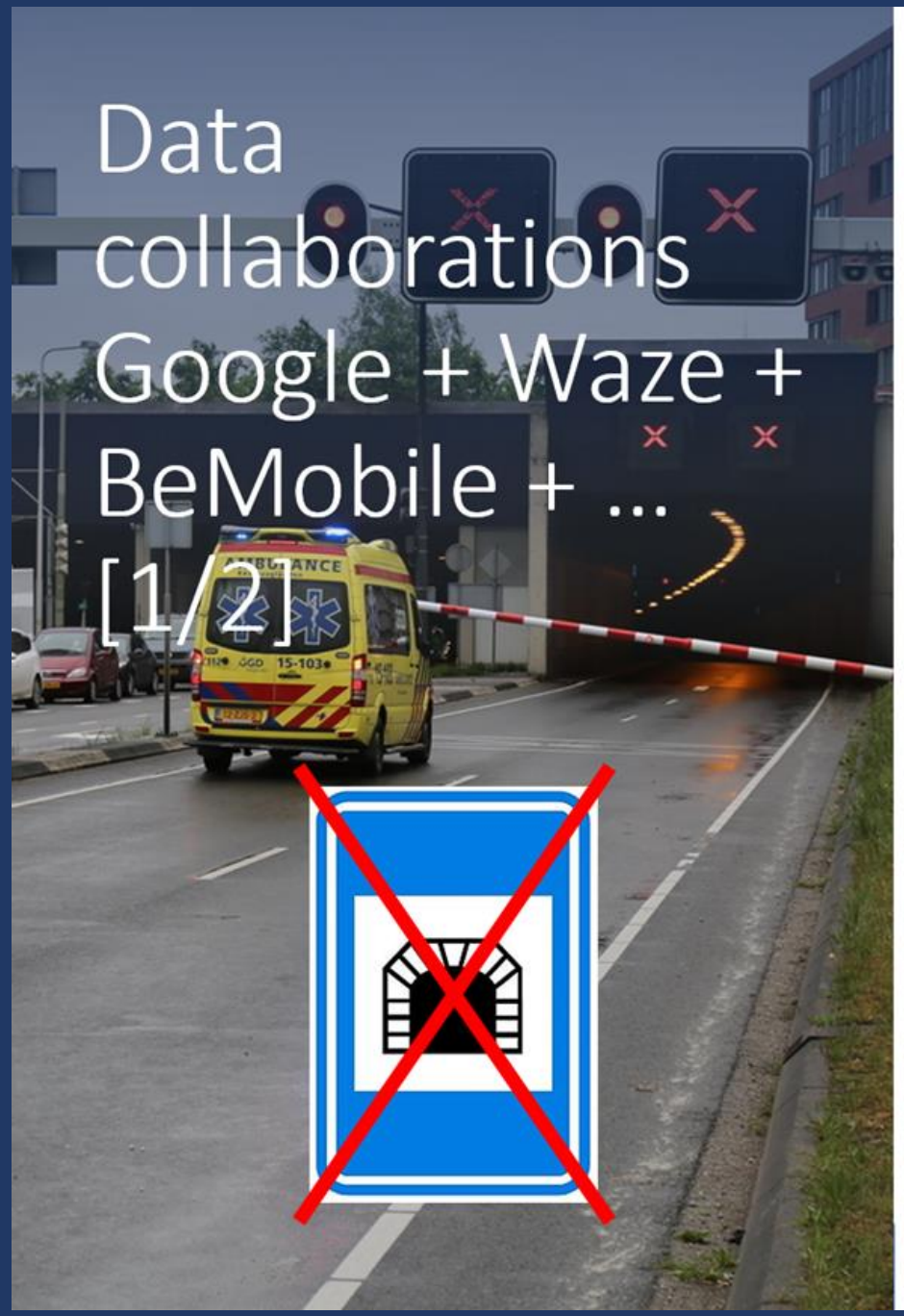
- Privacy: citizen control - purpose limitations, conservation, dissemination
- Inclusiveness and bias
- Transparency, accountability- citizen participation in project design
- Fiduciary role of the city - data manager, guardian, laboratory, balance
- Free riding and dealing with the private sector
- Non-discrimination of data and algorithms

@innovateSA
@emily_royall

Systemic Change Starts with Data

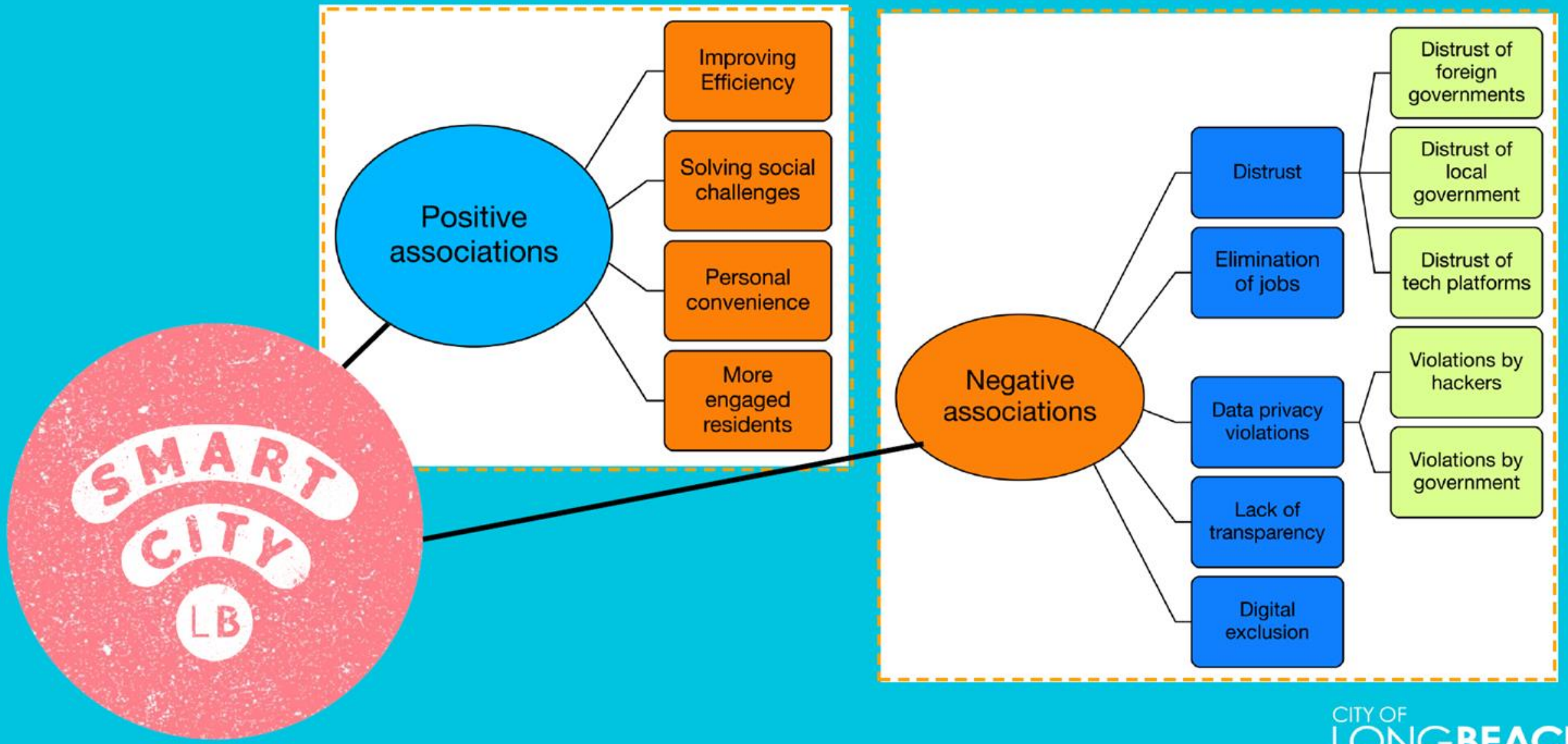
- Bias data input > Bias policy, program allocation, services
- Addressing Bias in policy means targeting bias in data
- Start with the simplest example: city surveys
- Listen to the community: Community Conversation Series
- **Identity** - How data is collected about you
- **Reach** - How surveys are administered & barriers to participation
- **Trust** - How institutions & non-human actors use data for decision making
- Findings reviewed by our office & drive internal policy

Data collaborations Google + Waze + BeMobile + … [1/2]



- Amsterdam shares information from (traffic) operating systems in real time with navigation companies
  - Closures of tunnels
  - Road closures due to events
  - Bridge openings (in progress)
  - Road works (in progress)
- Information is shared via the National Road Traffic Data Database
  - Amsterdam is paving the way as a pilot municipality
  - Upscaling through additional pilots Rijkswaterstaat, Noord Holland and The Hague
  - Basis for national roll out
- Companies process data in real time in navigation systems
  - Implemented at Google Maps (pilot), Waze and BeMobile
  - Planned for all other service providers (level playing field)
- Results:
  - Road users: better traffic flow in the city
  - Residents: avoid unnecessary nuisance and air pollution
  - Road regulators: less inconvenience

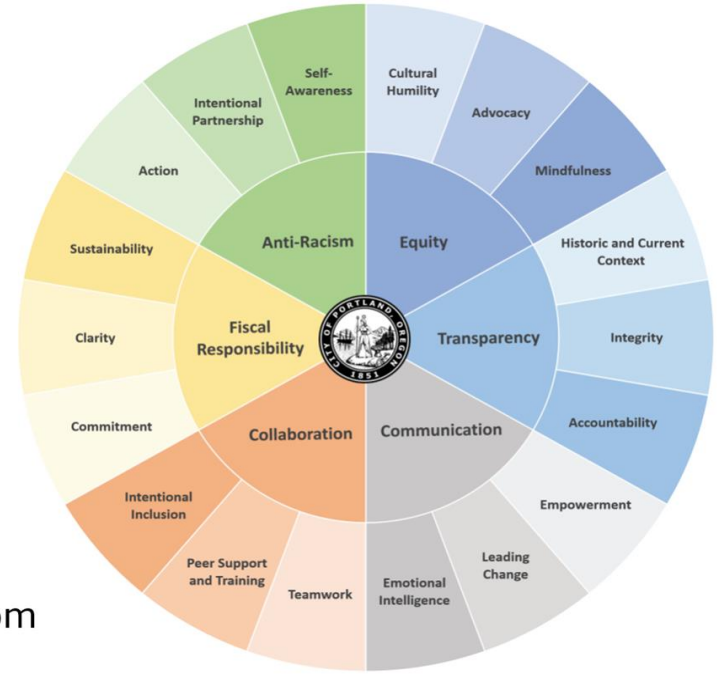
Smart Long Beach - Participatory by design



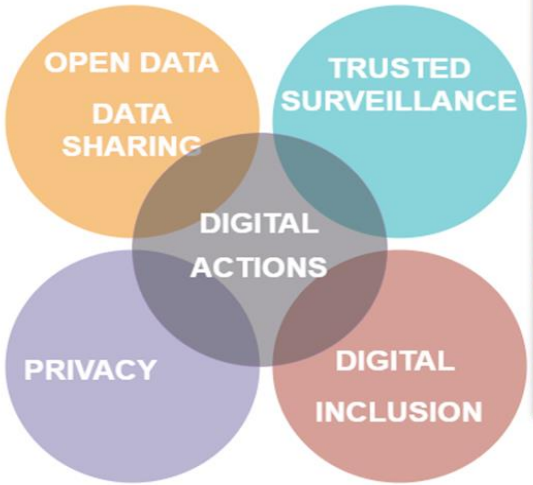
CITY OF LONGBEACH

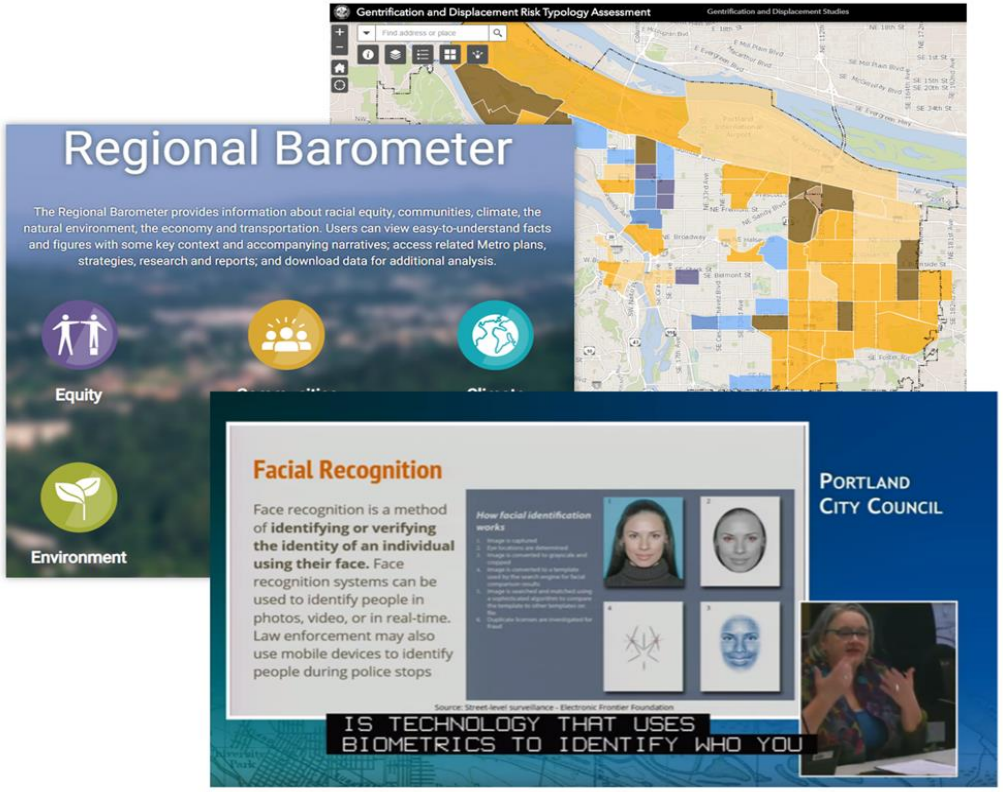
Racial Justice as a core value to regulating emergent technology

Hector Dominguez
City of Portland, OR
htttps://www.smartcitypdx.com



PORTLAND, OREGON





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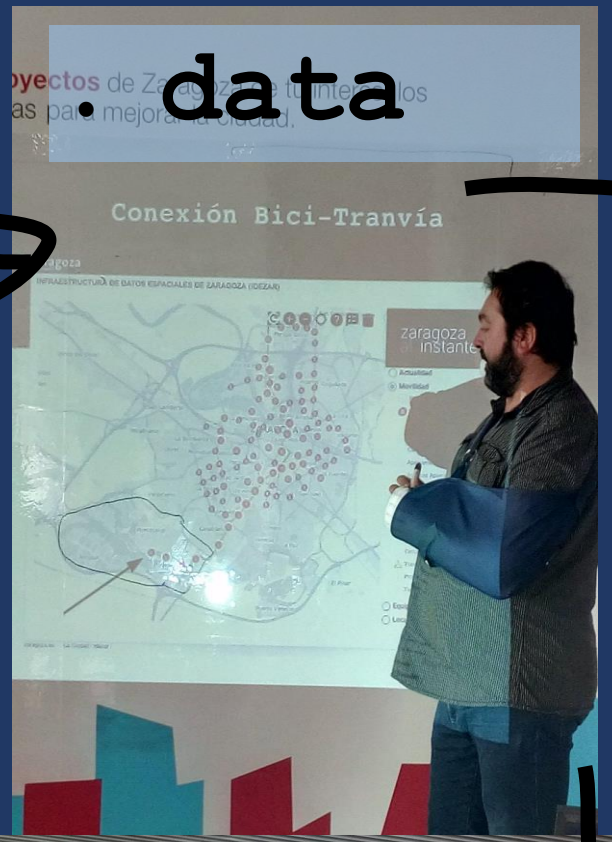

. data

. ideas

el Periódico de Aragón

Aragón

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Aragón Opinión España Internacional Economía Escenarios Sociedad Tema del día Gente Titulares Última Hora

MOVILIDAD

BiZiA, el proyecto elegido para construir un sistema de aparcamiento de bicis junto al tranvía

EFE
28/10/2016

Compartir:

Enviar

A- A+ 0

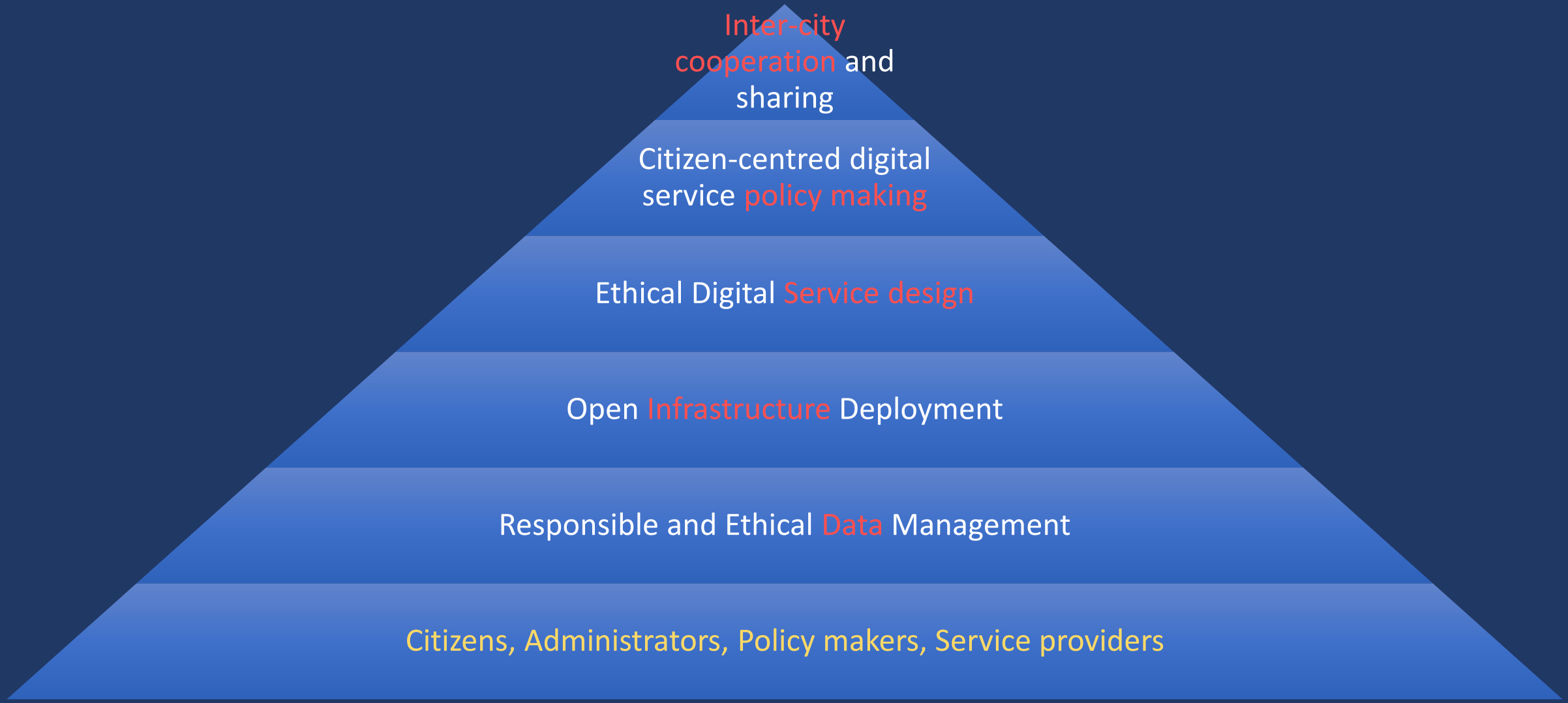
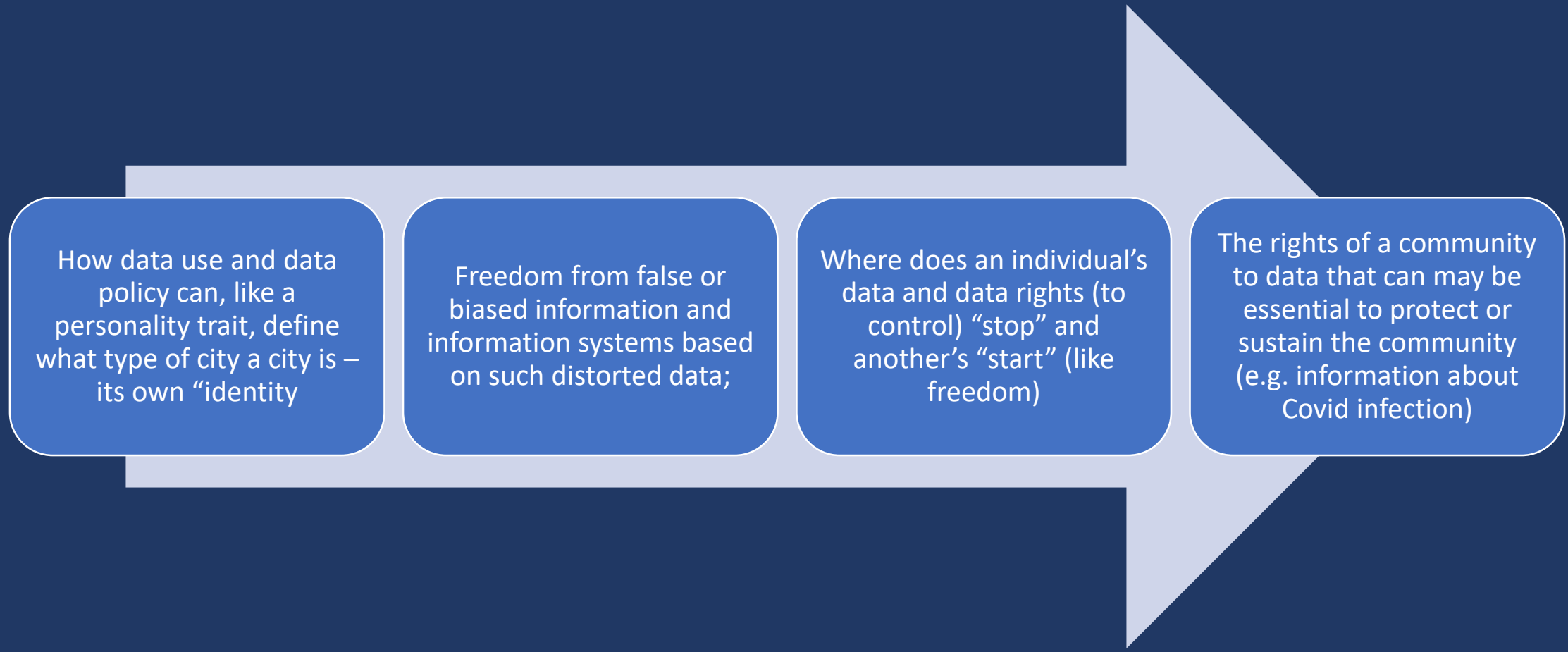
La propuesta BiZiA ha sido escogida por unanimidad como ganadora del concurso de ideas BiciSur, un proyecto para construir un sistema intermodal de aparcamiento de bicis en el inicio de línea del tranvía ubicado en Valdespartera

TRY
Bonc
52 €
Rese

. solution

. co-creation

Towards a coherent framework and actions for technology and data sovereignty at (at least) 5 + 1 levels?



Wider considerations of information self-determination