



Day 1

Big Data

## Data for maximum reuse

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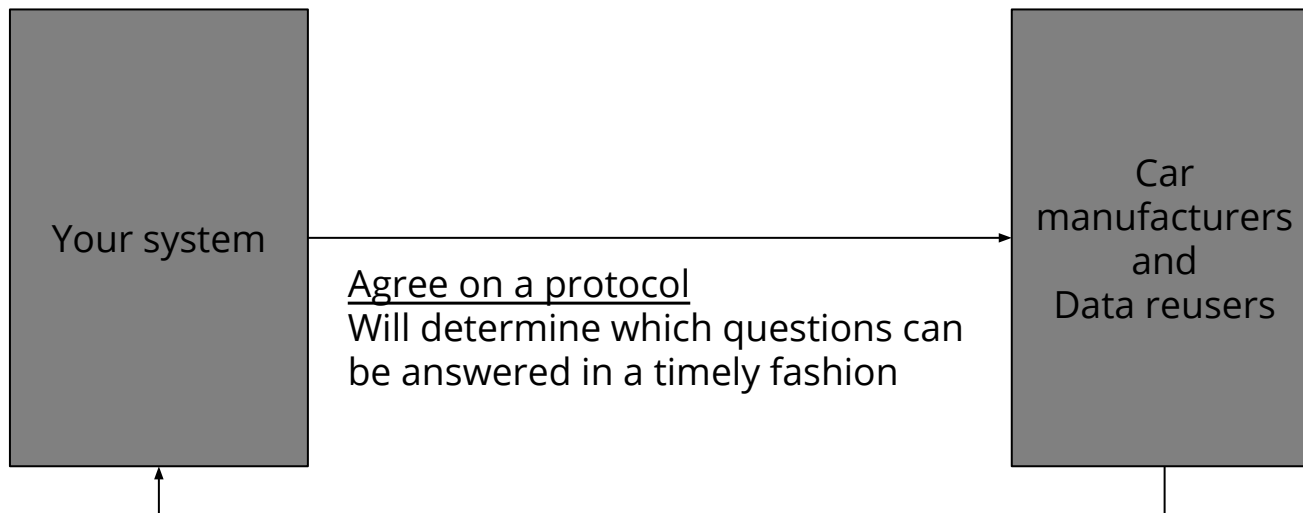
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**03-04**

April 2017

Brussels



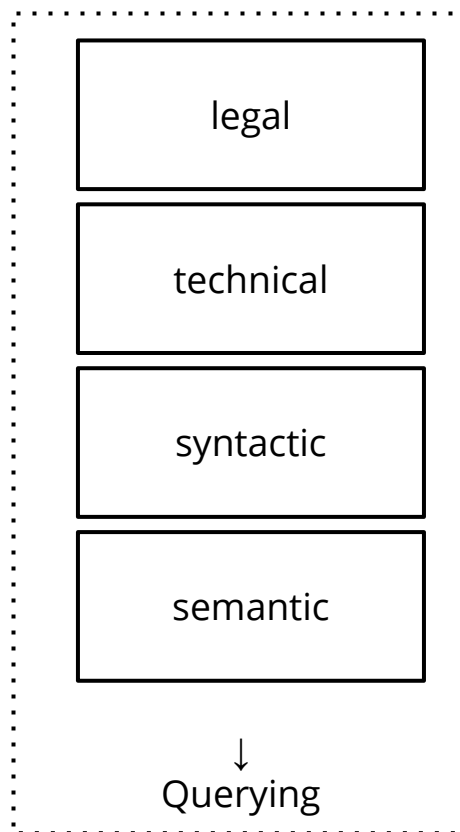


Can ask questions to your system as previously agreed



## A story of raising interoperability

When I have 2 datasets, how easy is it to turn them into 1 dataset?





## An API for your mobility system

`http://api.{mysystem}/?from={A}&to={B}`

03-04

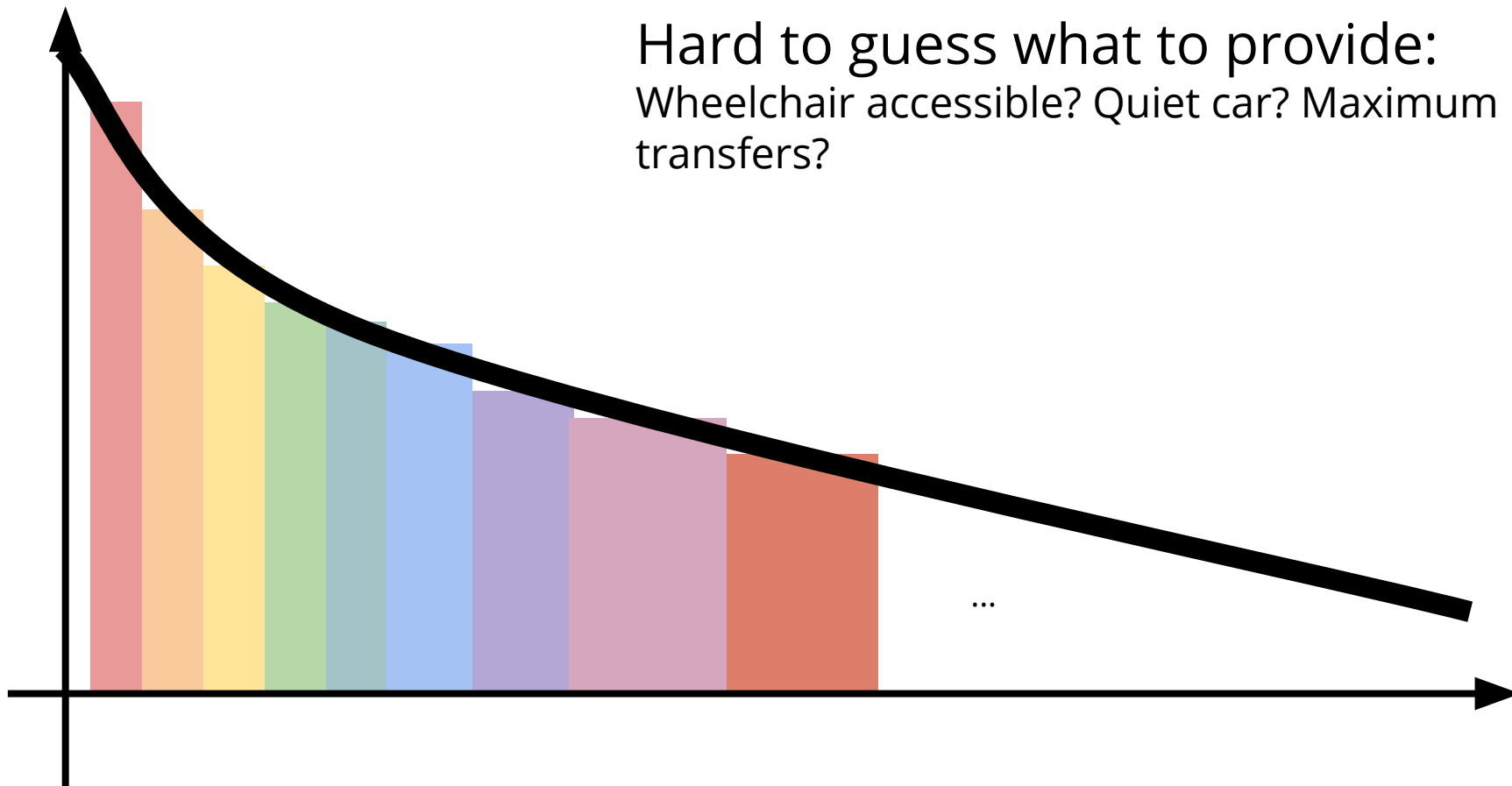
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## A long tail for transport data services

Hard to guess what to provide:  
Wheelchair accessible? Quiet car? Maximum  
transfers?



03-04

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European  
Commission



## An API for your carsharing system

```
http://api.{mysystem}/?from={A}&to={B}  
&departuretime=2016-10-11T12:45  
&wheelchairaccessible=true  
&maxTransfers=3  
&algorithm_mode=shortest
```

...

http://api.{mysystem}/?from={A}&to={B}

&departuretime=2016-10-11T12:45

&w **DOESN'T SCALE** =true

**NOT A GOOD WAY TO**

**PUBLISH OPEN DATA**

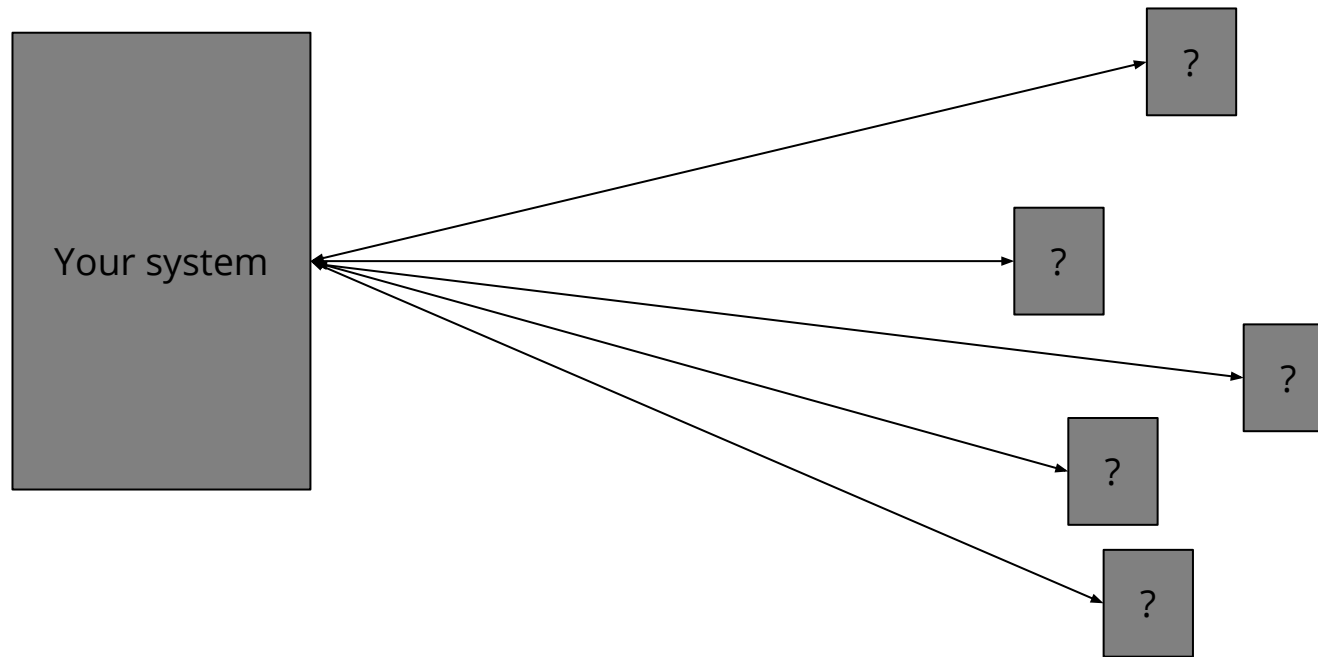
&mode=train,bus,taxi,ridesharing,carpooling

&foldablebike=true...



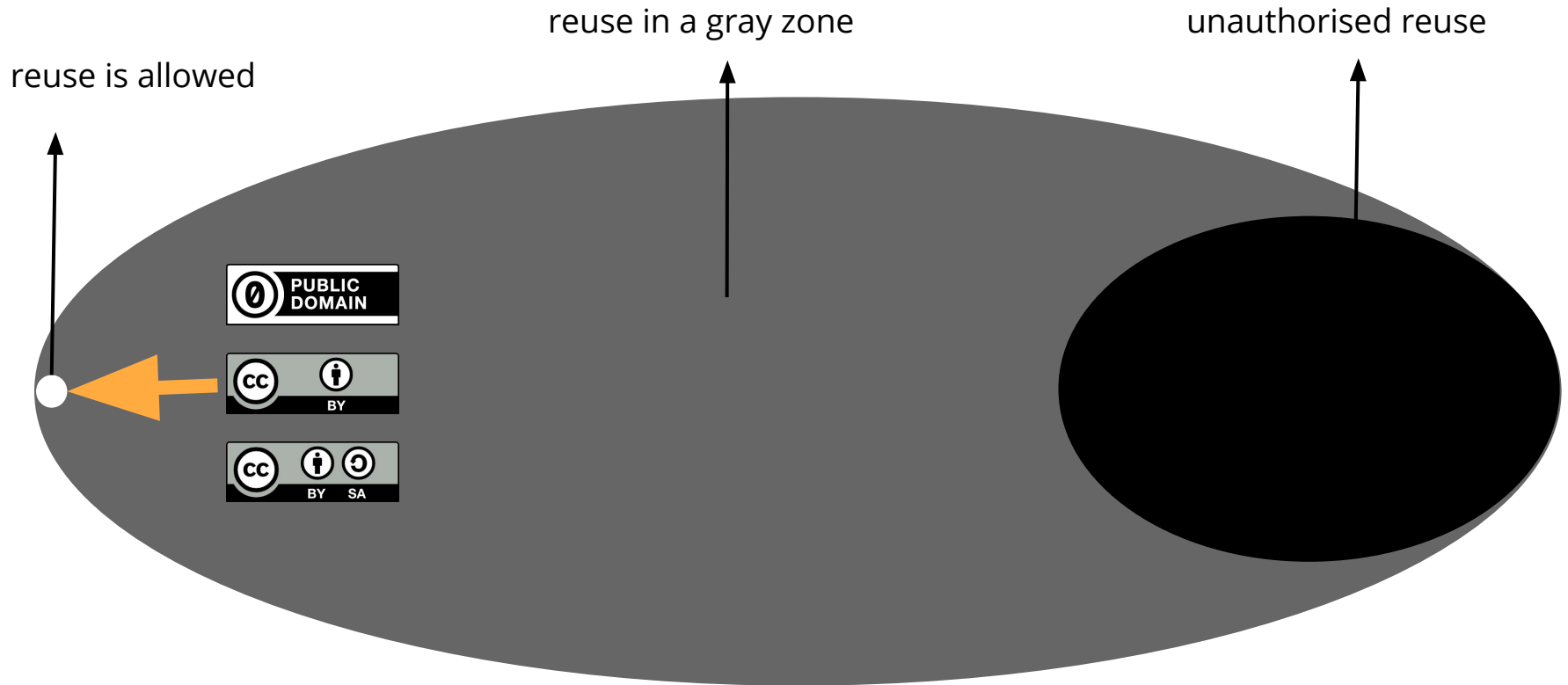
Transport has become a  
*data sharing* problem

How can we fix it?



Maximizing reuse → need to raise the *interoperability*

# Documents on the web

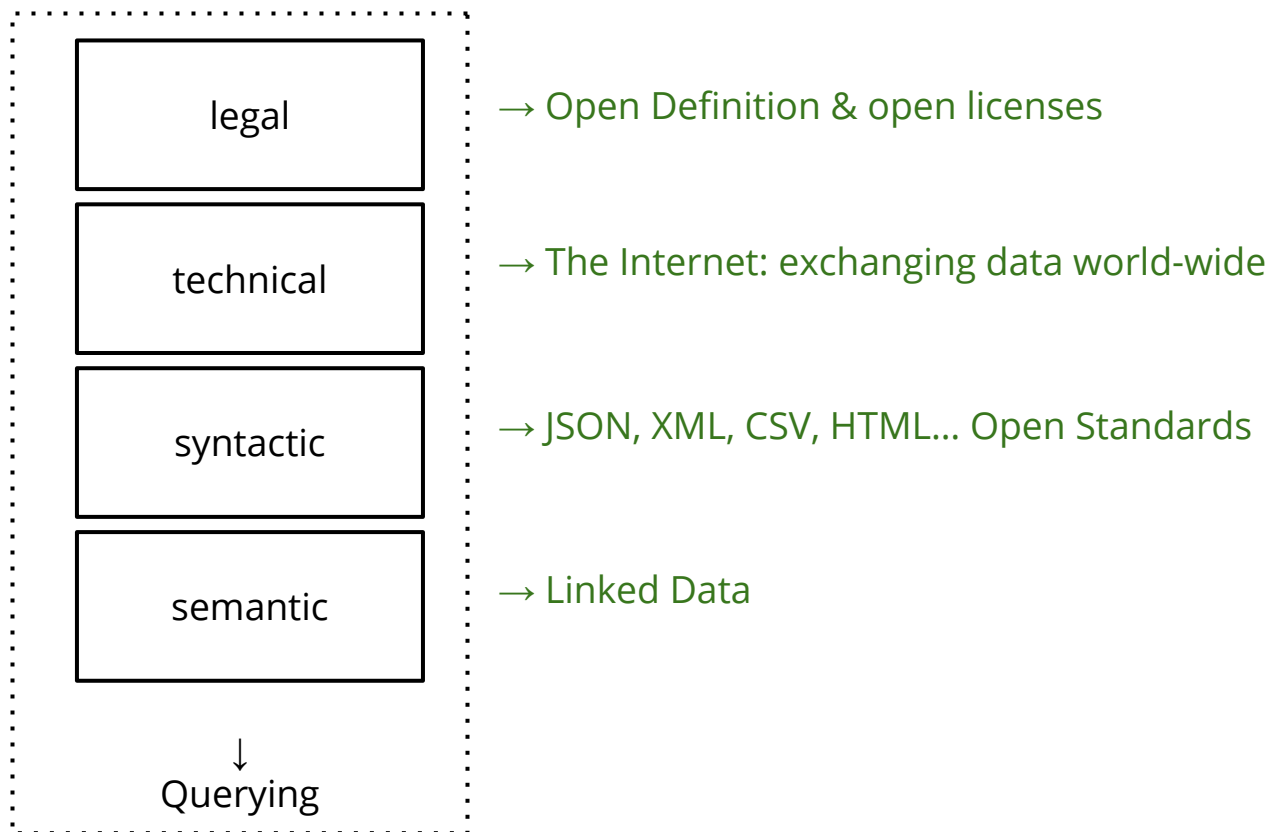


Open Data starts with an open license



## A story of raising interoperability

When I have 2 datasets, how easy is it to turn them into 1 dataset?





**Where can you get in what amount of time?**

under specific conditions:

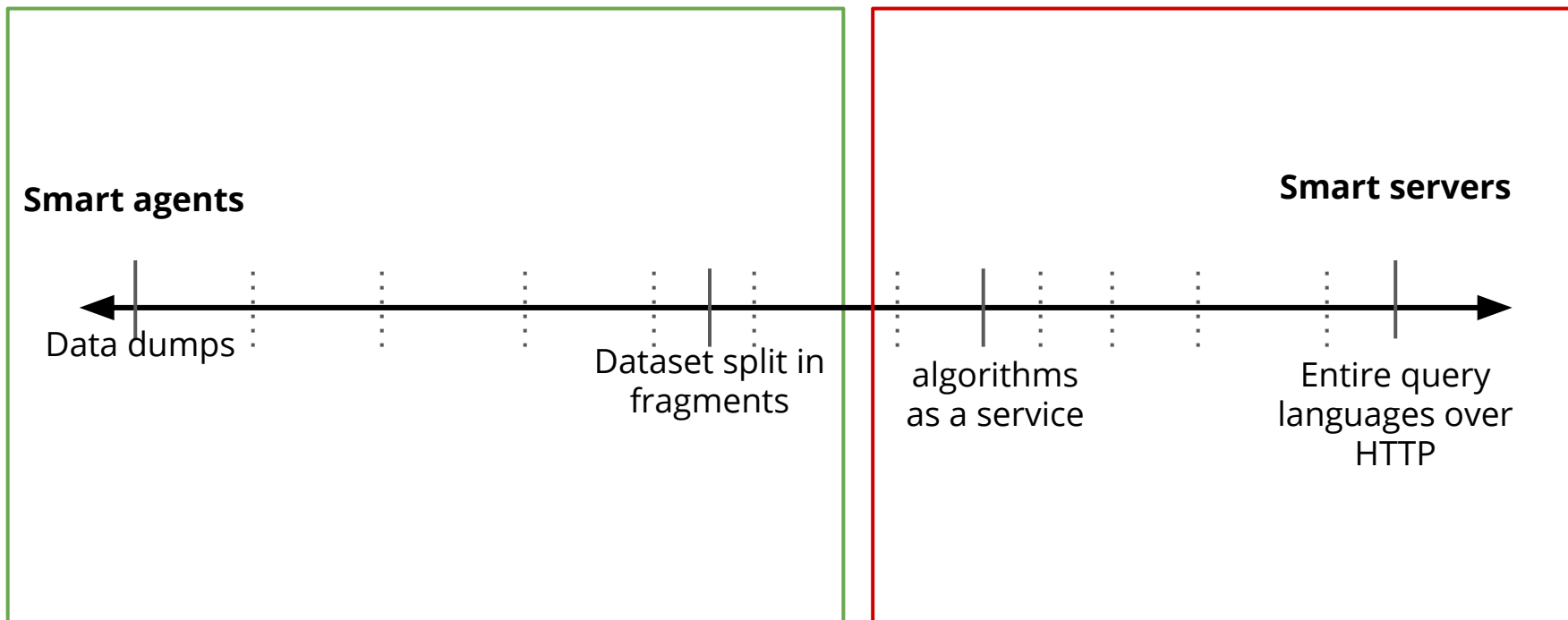
taking into account: multimodality, criminality, your subscriptions,  
what you're carrying, route speed limits, disabilities, etc



## Is our data interface striking the golden mean?

Data publishing  
(cheap/reliable)

Data services  
(rather expensive/unreliable)





## ETSI ISG-CIM - Context Information Management

Use cases in Smart City transport, Citizen involvement, Smart Agriculture

Many trials and pilots running ... but where are the "recommendations"?

Need further Stakeholders to expand ISG CIM Group

- Open Source developers
- Database experts for Linked-Data
- City administrators
- ...

**A world where knowledge creates power  
for the many, not the few**

Questions?

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