

The Value of Urban Data

Petr Suska, Fraunhofer IAO, 30th OCT, 2017 New Delhi

Profile of the Fraunhofer Society



- Founded: 1949
- about 24,000 staff
- **66** institutes and research units
- Fraunhofer worldwide

Europe: Brussels (Belgium), Budapest (Hungary), Porto (Portugal), Gothenburg (Sweden), Bolzano (Italy), et al.

USA: Boston, Brookline, Cambridge, East Lansing, Maryland, Newark, Plymouth, San José, Storrs

North/South America: London (Canada), Santiago (Chile), Salvador and Sao Paulo (Brazil)

Asia: Ampang (Malaysia), Beijing (China), Jakarta (Indonesia), Koramangala Bangalore (India), Seoul (South Korea), Singapore, Tokyo and Sendai (Japan)

Africa/Middle East: Dubai (United Arab Emirates), Cairo (Egypt), Stellenbosch and Pretoria (South Africa)





Profile of the Fraunhofer Society



- Annual research budget: more than 2 billion euros*
- Non profit organisation
- Over **70%** of this sum is **generated** through
 - projects commissioned by industry and
 - publicly funded research projects
- Roughly 30% is provided by the German state and federal governments for advanced research (looking at issues that will be of concern to the economy and society in five or ten years time).

* Figures for 2016





What is the <u>urban</u> Value that lies within data?

Who benefits from the Smart City?

How can we maximize the collective urban value?

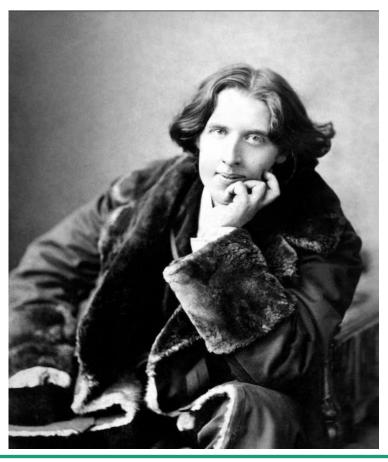


Morgenstadt Research Initiative Value of Urban Data





"The Price of everything and the value of nothing..." - Oscar Wilde





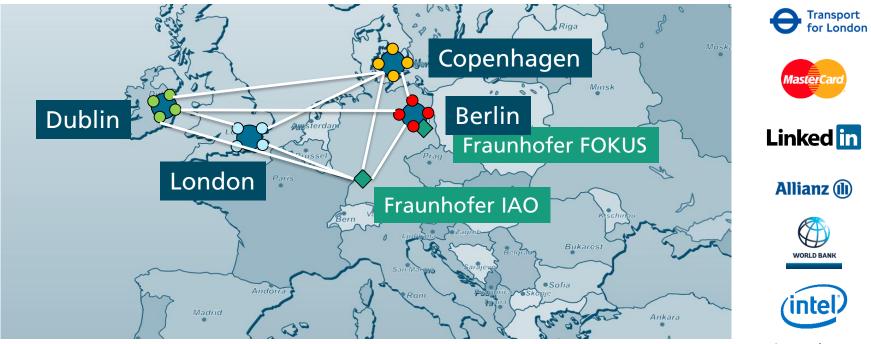
NEW FORMS OF DATA AND WHERE THEY TAKE US



CITY DATA MARKETS... OR EXCHANGES



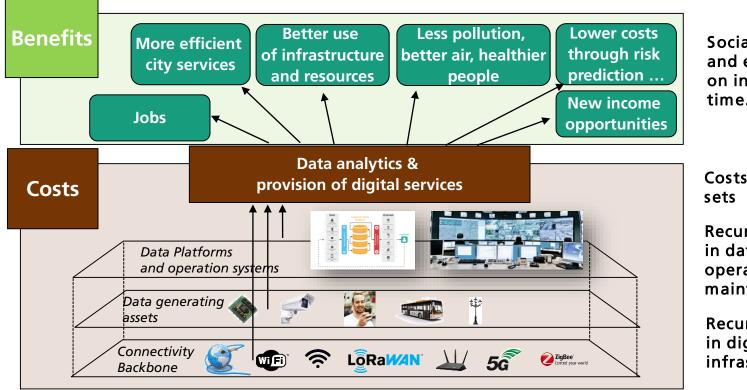
Defining the Value of Urban Data with leading Smart Cities & companies in Europe!



Envisaged partners



Cumulative Data Value Framework



Social, environmental and economic returns on investment over time.

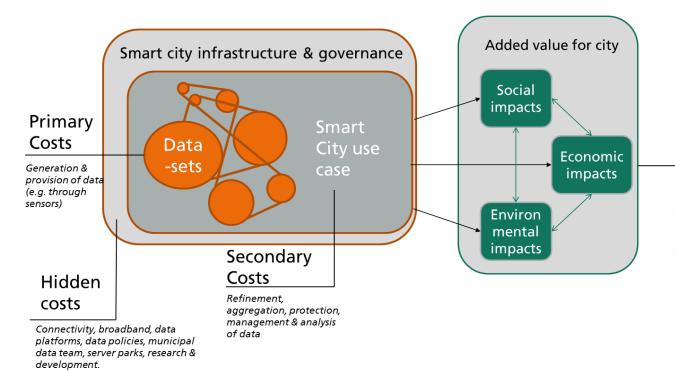
Costs for single datasets

Recurring investments in data management, operation & maintenance

Recurring investments in digital infrastructure



Basic data value model

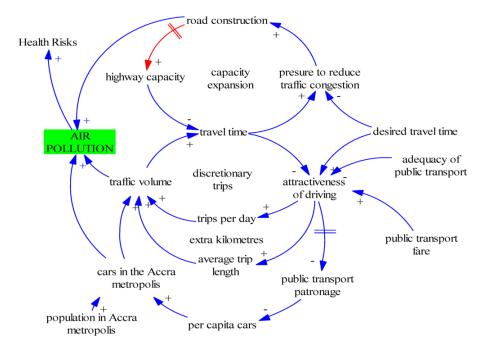


Benefits

Value expressed in monetary units derived through all types of impacts from a single use case. Impacts can be positive or negative.



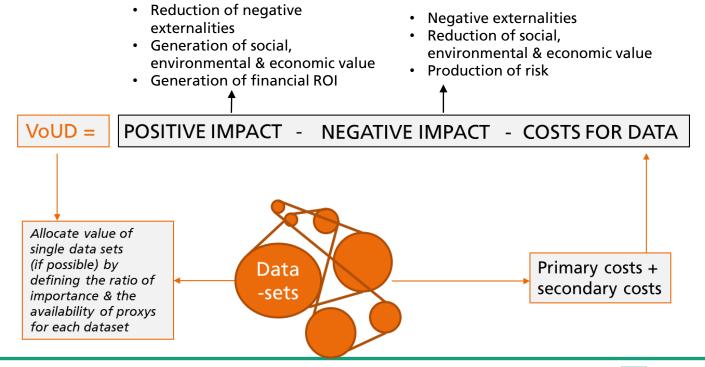
Understanding the impact of use cases through systems modelling



Behind each impact factor for each use case there will be a value tag and a defined or approximated monetary expression that is based on data from the particular city.



Understanding the value of data through calculating the net urban value of smart city use cases





Join our research!



Thank you!

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