

## Smart City Forum Overview

### Prof. Dr. Lutz Heuser

BME, Budapest, May 3<sup>rd</sup>, 2017

## Background

- Smart City Forum has been established by the German Innovation Roundtable in 2013
- Initiated as part of the ongoing collaboration between EU Commissioner G. Oettinger and his Cabinet with IRT since 2012
- Initial poll by McKinsey and the urban institute in 2012 / 2013 with 15 cities across Europe
- Key messages:
  - Cities are interested in the topics of Smart City but barely informed
  - Vendors offer complete end-to-end solutions often seen as „vendor lock-in“
  - Smart City solutions need to be scalable

## Foundation

- During the Metropolitan Solutions 2013 a group of
  - IRT members (SAP, DTAG, DP-DHL, AGT)
  - SMEs
  - 14 Cities from Germany, Austria, Italy, and Luxembourgestablished the Smart City Forum as regular Thin Tank to meet and discuss the EIP and its related topics.
- Since April 2013 SCF is official member of the EIP represented by the urban institute (Prof. Dr. Lutz Heuser)
- Today, about 150 members out of which
  - 40 cities are members with ~20 active and ~20 observers
  - Large cities (Berlin, Cologne, Hamburg, Munich), medium cities, and even small cities participate

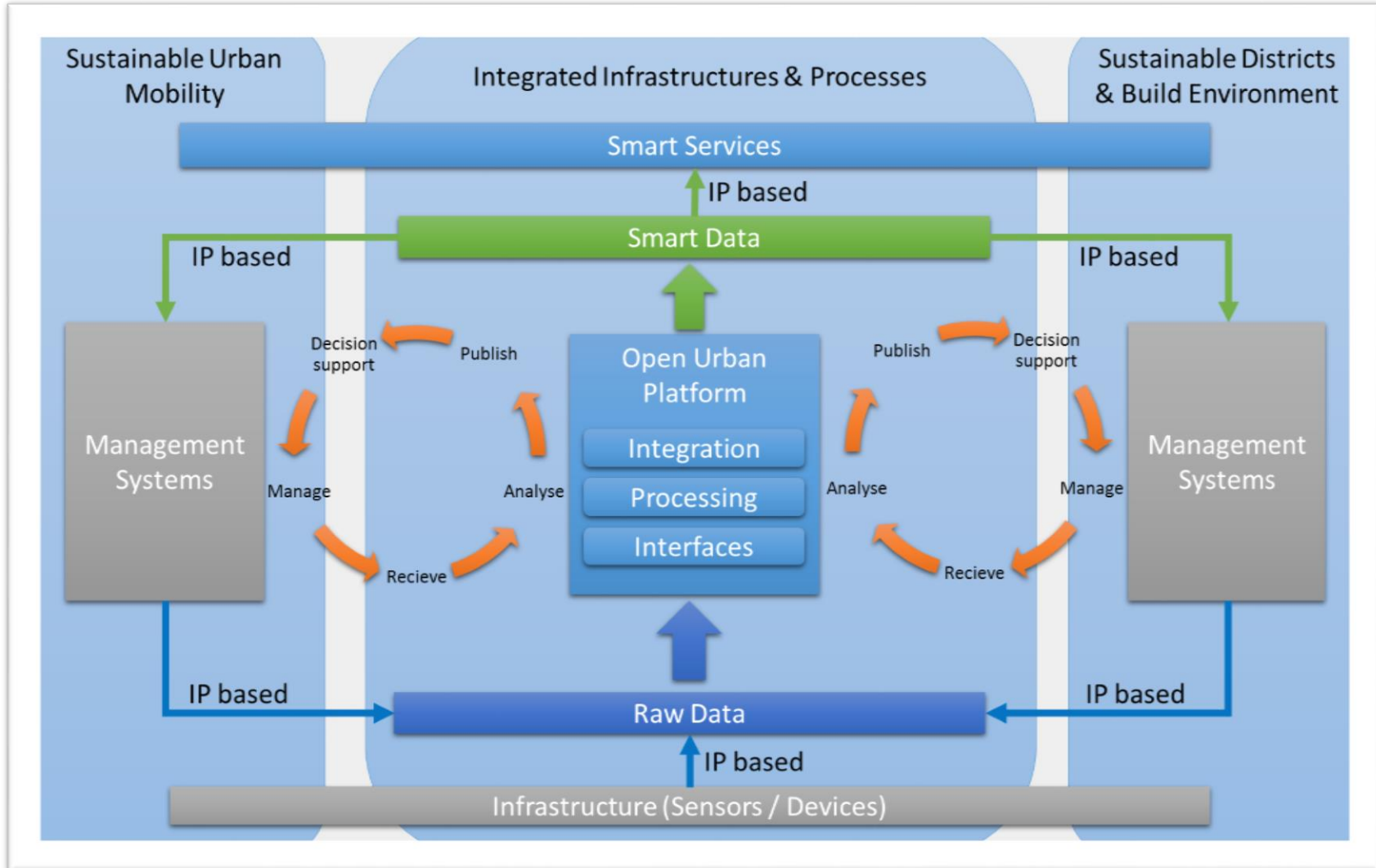
## Achievements

### European Level

- Influenced and co-author of the Strategic Implementation Plan of the EIP SCC published in October 2013 and the related Operational Implementation Plan in early 2014.
- Lead of the Action Clusters “Sustainable Urban Mobility”
- Successful application to SCC 1 by City of Cologne, City of Munich, City of Hamburg
- Co-Sponsor and co-organizer of the EV4SCC lead initiative of the AC “SUM”
- Initiator of the MoU on “urban open platforms” signed during MetroSol 2015
- Initiator of the lead initiative “1,000,000 Humble Lampposts” (#6670)


### International Level

- Relationship with Australian Smart Communities Association





## MoU on “Open Urban Platforms”

EUROPEAN INNOVATION PARTNERSHIP ON SMART CITIES AND COMMUNITIES

### Towards Open Urban Platforms for Smart Cities and Communities

#### Memorandum of Understanding

**1. Outline of this Memorandum**


- The market for current Urban Platform(s) is fragmented and uncertain on the demand-side and lacking interoperability and common standards in the supply-side.
- Big, small and diverse industry organisations have come together recognising that the Urban Platform market is a critical enabler for the Smart Cities market.
- The signatories to this MoU have agreed to take a city and community needs led approach to address the fragmented market. The key challenges facing this market include:
  - Interoperability and common open standards – so that cities can mix and match offerings from a range of different vendors;
  - To date the market has been supply-led – with the norm being proprietary and custom-built offerings;
  - Many cities have reservations about Urban Platform(s) – including limited understanding of their costs & benefits.
- The ambition of the signatories to this MoU is to enrol cities, infra-structure and service companies, tele-communications and utilities to:
  - Work with the partners of this Memorandum of Understanding
  - by 2018, create a strong EU city market for Urban Platforms
  - by 2025, ensure that the market of 300m residents of EU cities use Urban Platform(s) to manage their business with a city and that the city in turn drives efficiencies, insight and local innovation through the platform(s)

To meet the above challenges and to deliver on these ambitions the Memorandum of Understanding Group (in the following: MOU Group), whose names and signatures appear at Annex two of this document, have agreed on the following:

**2. Background**

- The European Innovation Partnership on Smart Cities and Communities (EIP SCC) is a stakeholder driven initiative stimulated and supported by the European Commission. The EIP SCC has defined key priority areas which will be addressed through six Action Clusters including “Integrated Infrastructures & Open Data”. A general observation has been that

1



EUROPEAN INNOVATION PARTNERSHIP ON SMART CITIES AND COMMUNITIES

### Annex Two: The Memorandum signatories

Organisation	Name, Role
1. HERE	Mr Michael Bültmann Managing Director HERE Deutschland GmbH
2. Allander N.V.	Mr Peter Molengraaf Chief Executive Officer Allander N.V. and High Level Group Member
3. SAP SE	Mr Luka Mucic Board Member SAP AG
4. Microsoft Corporation	Dr Marianne Janik Senior Director Public Sector Microsoft Deutschland GmbH
5. Continental AG	Mr Helmut Matschi Member of the Executive Board Continental AG Division Interior
6. Fraunhofer FOKUS	Prof. Dr-Ing. Ina Schieferdecker Director Fraunhofer Institute for Open Communication Systems FOKUS
7. Urban Software Institute GmbH & Co. KG	Dr Lutz Heuser Chief Technology Officer Urban Software Institute GmbH & Co. KG
8. UrbanDNA LLP	Mr Graham Colclough Partner UrbanDNA LLP
9. HyperCat Consortium	Lord Erroll Chairman HyperCat Consortium
10. Software AG	Dr Harald Schöning Vice President Research Software AG
11. EnBW Energie Baden-Württemberg AG	Mr Michael Gutjahr Regional-Director EnBW AG
12. Flexeye Ltd	Mr Justin Anderson Chairman & CEO Flexeye Ltd
13. Greater London Authority	Mr Matthew Pencharz The Mayor’s Smart Cities and Environment Adviser Greater London Authority
14. Deutsche Telekom AG	Mr Heinrich Arnold Senior Vice President Innovation & Laboratories, Deutsche Telekom AG

7

- ✓ 30+ Enterprises
- ✓ 90+ Cities
- ✓ EU
- ✓ Standards bodies (DIN)

Goal:

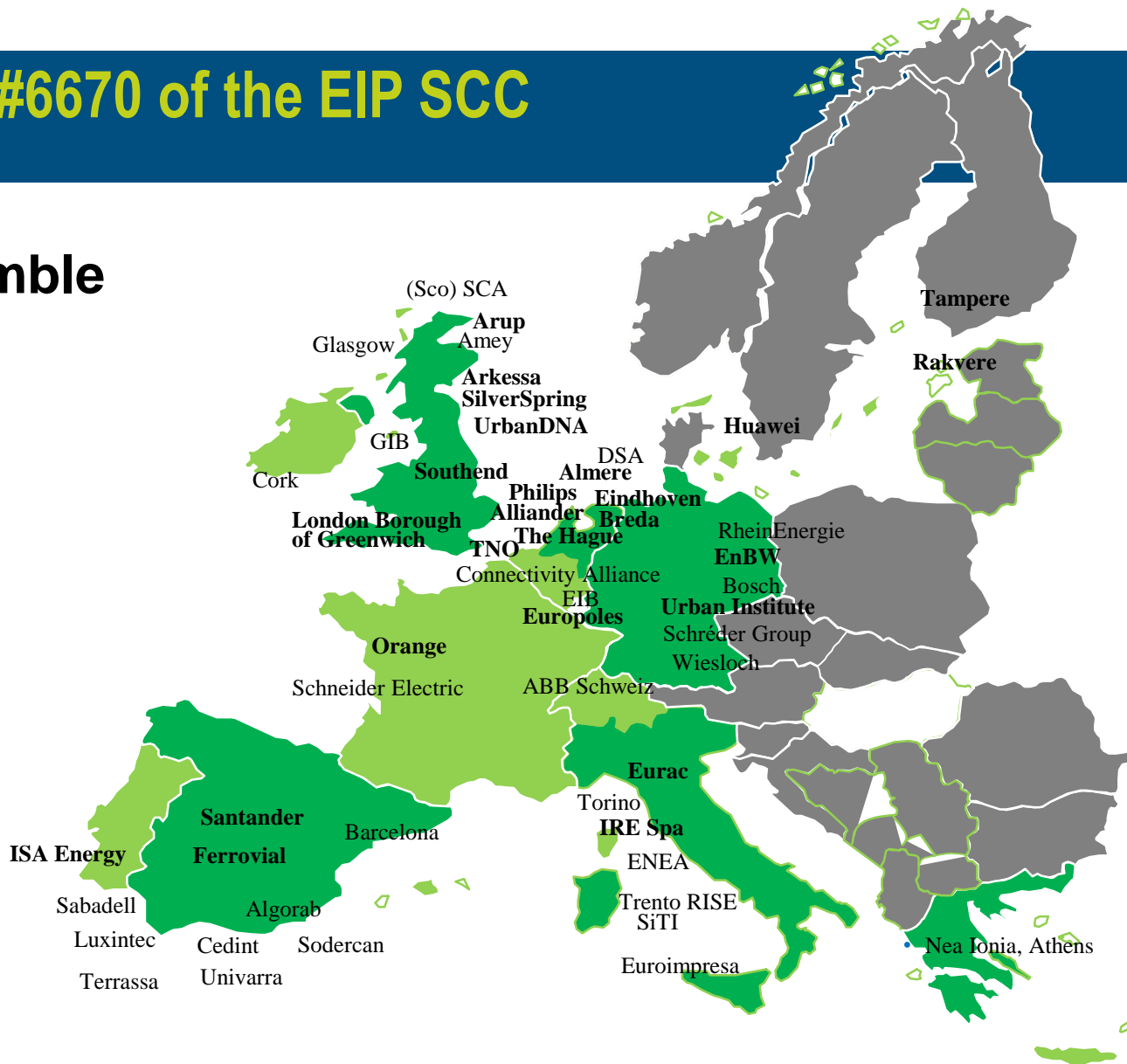
Open APIs, Standards, & Reference Architecture

## Commitment #6670 of the EIP SCC

- 40+ Partners in Europe to agree on smart street lighting as key contribution to the EU Climate goals
- **Goal:** 1,000,000 public street lights turned into intelligent adaptive light points integrating other IT-based infrastructures
- **Approach:** Agree on common standard components and features to develop a reference tender framework for fast market take-up
- Engage suppliers / vendors, operators, cities, and financial institutions in a common approach

## Commitment #6670 of the EIP SCC

1,000,000 Humble Lampposts





## Offering

### Collaboration on standardizing “imHLA” on EU level

- Join ELENA application to transform 1,000,000 Humble Lampposts into imHLAs!
- Endorse DIN SPEC 91347 as part of your national standardization effort to make it a true European standard!
- Stimulate local R&D of imHLAs to create market opportunities in CEE
- Engage with SCF Germany on joint innovation actions and research proposals

### Collaboration on standardizing “Open Urban Platforms”

- Engage in the MoU / Lol of the EIP SCC
- Endorse DIN SPEC 91357 as part of your national standardization effort to make it a true European standard!
- Identify cities as early adopters of open urban platforms
- Engage with SCF Germany on joint innovation actions and research proposals

Thank You