

Open APIs
for Open
Minds

Common Standards Boosting the Digital Transformation of Cities

Juanjo Hierro

FIWARE Foundation CTO

juanjose.hierro@fiware.org, @JuanjoHierro, @FIWARE

www.slideshare.net/JuanjoHierro





Sharing a VISION

Moving into EXECUTION

Ensure CONSOLIDATION of results



Sharing a **VISION**

Moving into **EXECUTION**

Ensure **CONSOLIDATION** of results



**100+ cities
22 countries**

- Common APIs → FIWARE NGSI
- Platform for Open Data/API publication
- Standard Data Models → CitySDK and more
- Driven by implementation approach

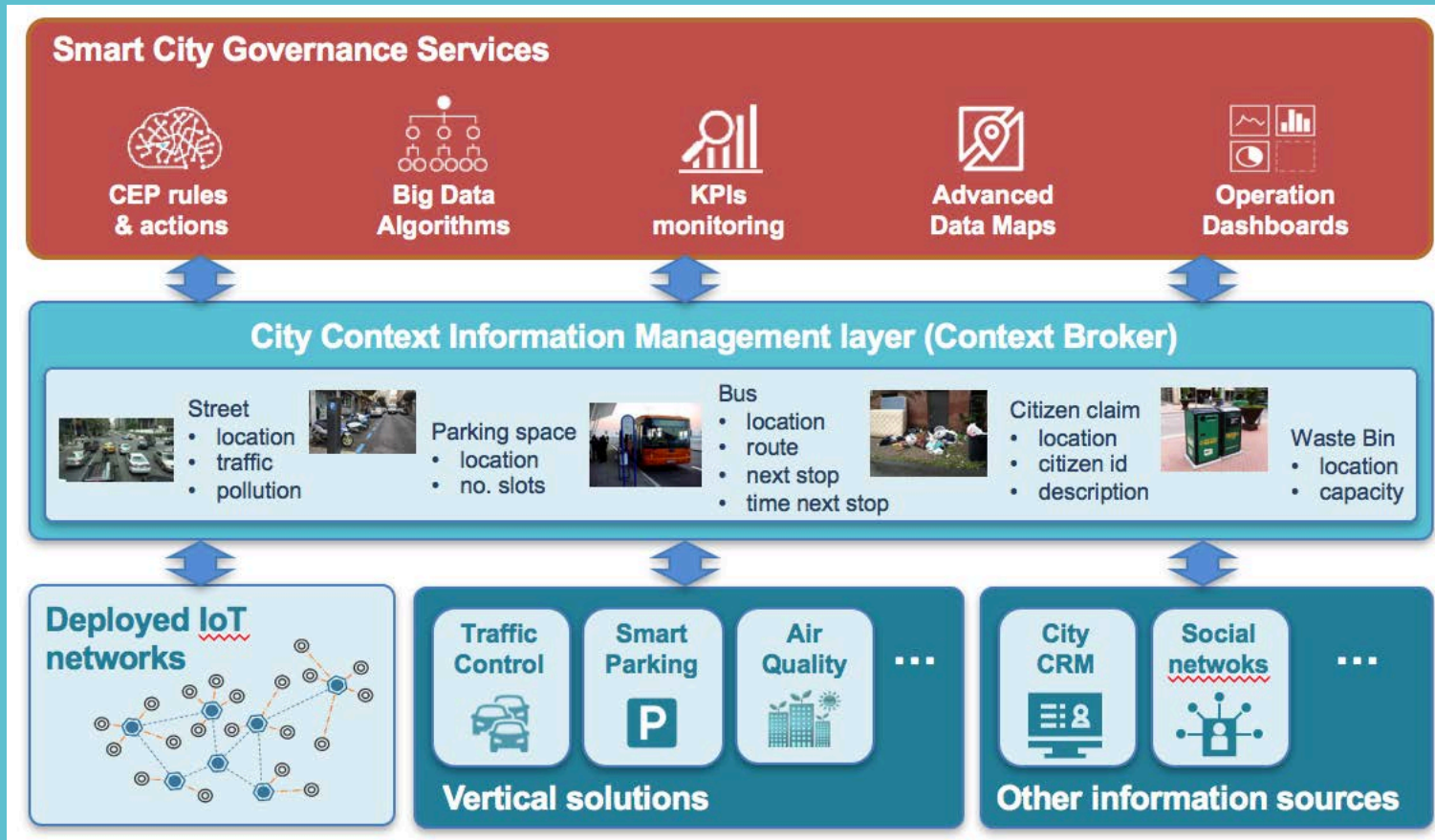


**850+ coms
180 countries**

- Smart City Maturity & Benchmark Model
- Smart City Business Requirements
- Smart City Reference Architecture
- City as a Platform supporting the Data Economy

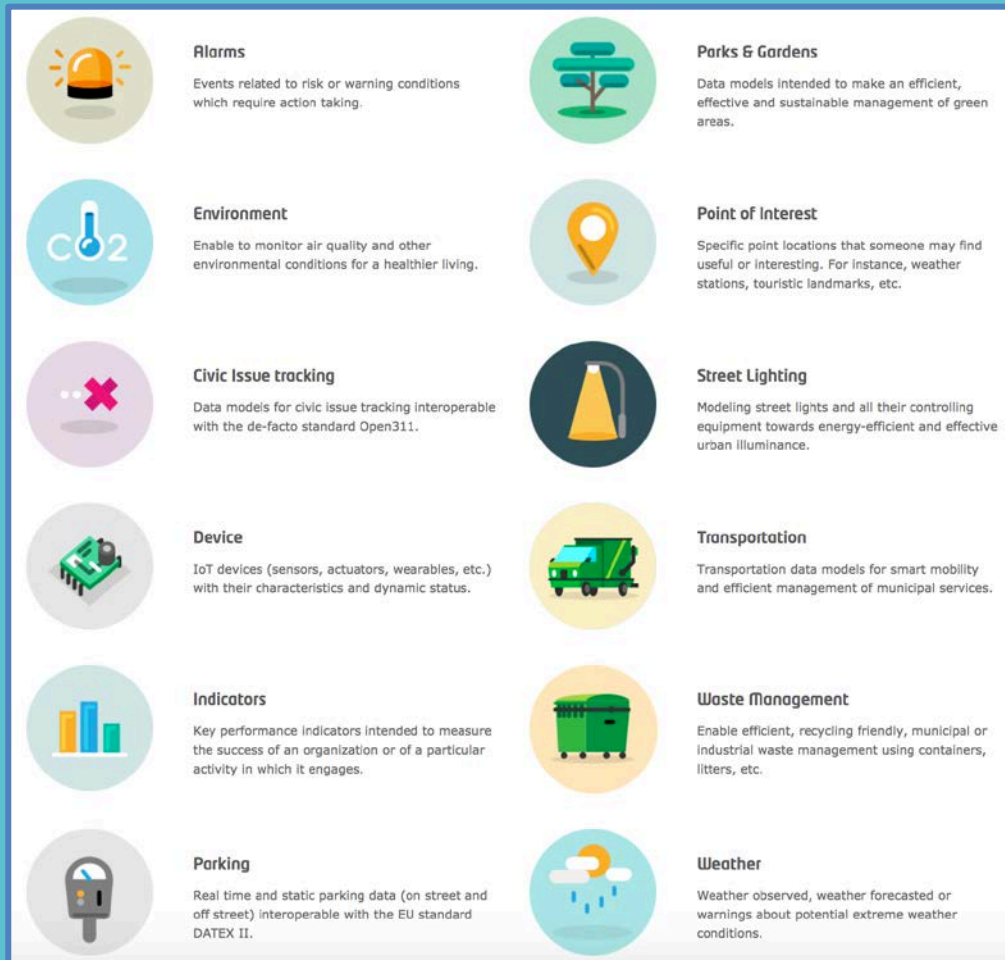


.... we could integrate information from different sources within a City in a common Context Information layer



- Holistic vision
- Interoperability between verticals
- Extraction of more valuable insights

... this City Context Information layer were accessible through a Common Open API, using Common Information Models



- Portable Governance Solutions
- Vertical solutions more easy to plug or replace
- Sharing of best practices between cities made easier
- Smart Cities as a market where it will be more attractive to invest

... part of the City Context Information is available in "right-time" to third parties



- Open Innovation ecosystem on shared data
- Smart Cities as an attractive market for entrepreneurs

... a data publication platform is enabled where any actor can share their data and get something in return



- The City as an enabler of the Data Economy
- More data (from others), better insights

Smart Cities: the journey we dream cities can make

1



2



3



4

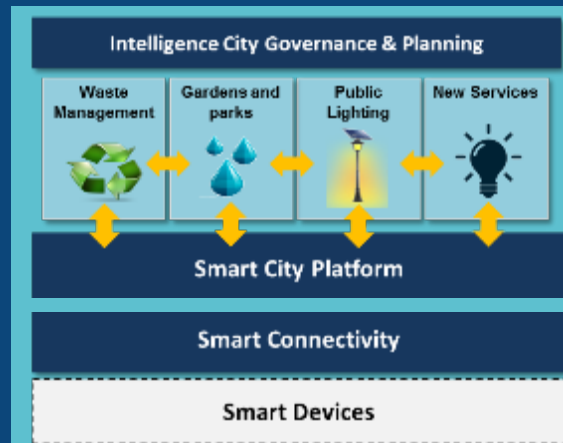
Efficient and Open

- Vertical solutions (some being IoT-enabled) bringing efficiency in silos
- Historic data as open data
- Information still in vertical silos, no global picture



Truly Smart

- Horizontal platform gathering “right-time” context info from different vertical services
- Common information models
- Smart City Governance Solutions



Unleashing Right-time Open Data

- right-time context info published to third parties
- authorization and access control (API management)
- open innovation ecosystem



Support to Data Economy

- city as a platform including also 3rd party data enabling innovative business models
- open and commercial data enabling multi-side markets



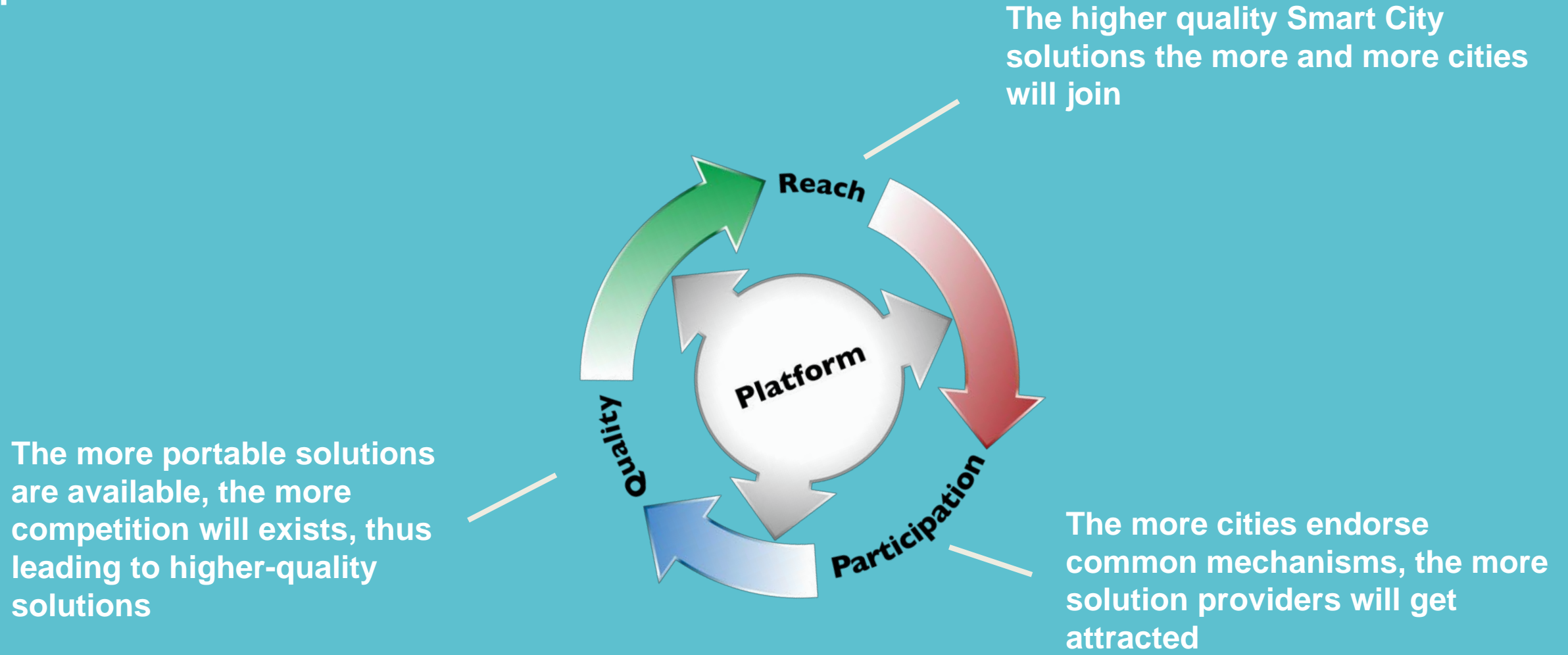


Sharing a VISION

Moving into EXECUTION

Ensure CONSOLIDATION of results

Creating the virtuous circle



Searching for the frontrunner cities



Searching for the frontrunner cities



SIDE EVENT-WORKSHOP: FRONTRUNNER SMART CITIES AND THE API ECONOMY

16 NOV - 14:30 - 16:30 ROOM 1.2. AREA CC 1

Objectives: TM Forum and FIWARE Open APIs provide the basis for a Smart City Reference Architecture, supporting the integration of vertical smart city solutions, the development of city governance systems, as well as the transformation of cities into engines of growth, enabling the development of innovative services by third parties and materialization of the Data Economy.

Now, TM Forum and FIWARE join forces to launch the "Front-runner Smart Cities" initiative where cities introducing the proposed Reference Architecture will collaborate around common challenges, defining and curating the common information models which will foster portability and interoperability of smart city solutions.

It's time to execute!

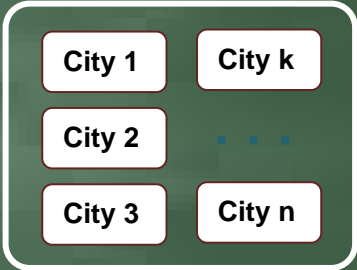


common information models



challenge 1
challenge 2
challenge k
challenge n

front-runner cities



City 1 App a + City i App b = Challenge
.....
City 1 App i + City n App n = Challenge

driven by ^m implementation

Transference to Market



Sharing a VISION

Moving into EXECUTION

Ensure CONSOLIDATION of results

Standardization bodies, recommendations



DREAM BIG

IT WORKS



<http://www.fiware.org>

FIWARE



November
28-29, 2017
Málaga,
Spain

Fiware.org
@fiware

SMART
UP!



| Thank you!

<http://fiware.org>

Follow @FIWARE on Twitter

Juanjo Hierro

FIWARE Foundation CTO

juanjose.hierro@fiware.org

www.slideshare.net/JuanjoHierro

