



Transforming India Towards Smart Cities

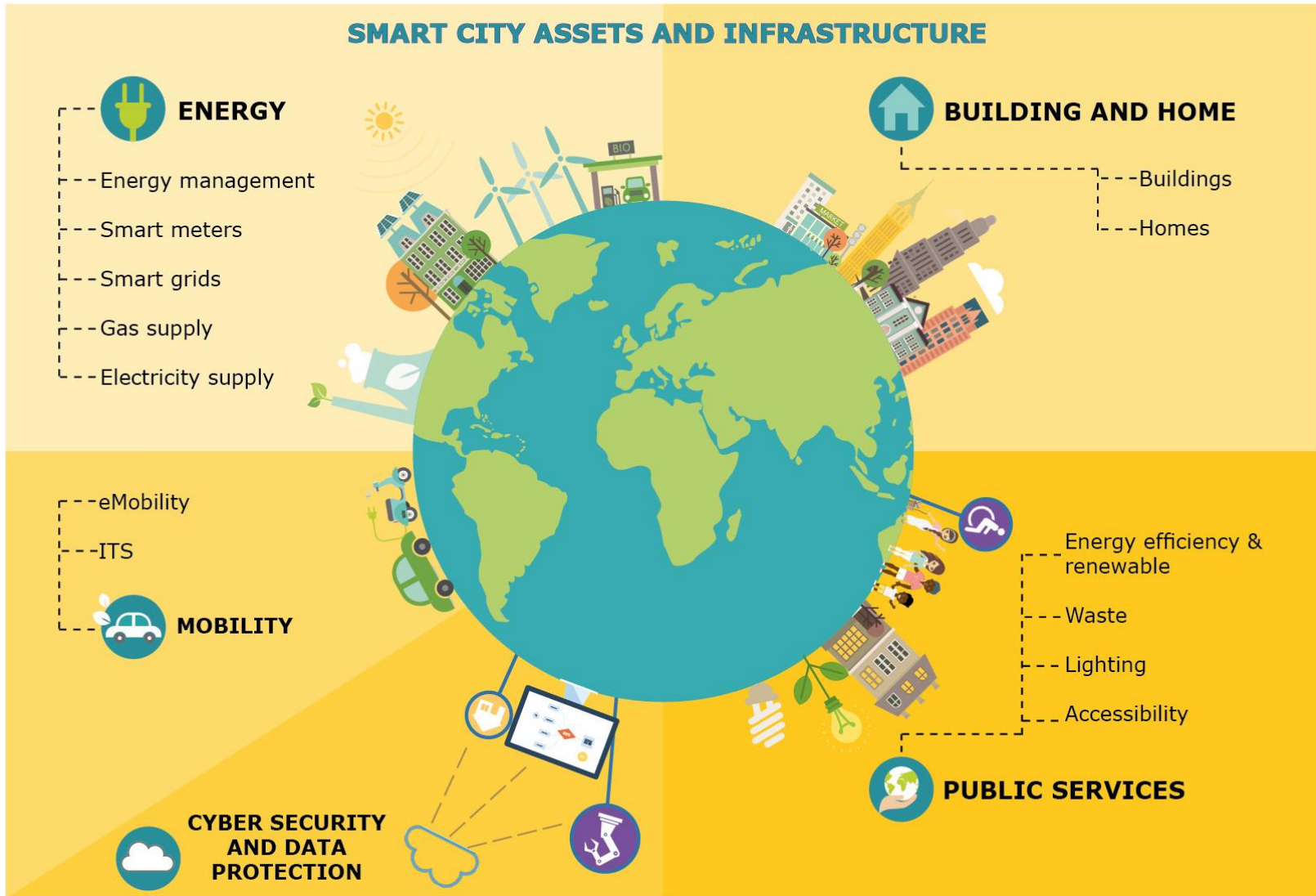
Global => Local

Dinesh Chand Sharma

(Seconded European Standardization Expert In INDIA)

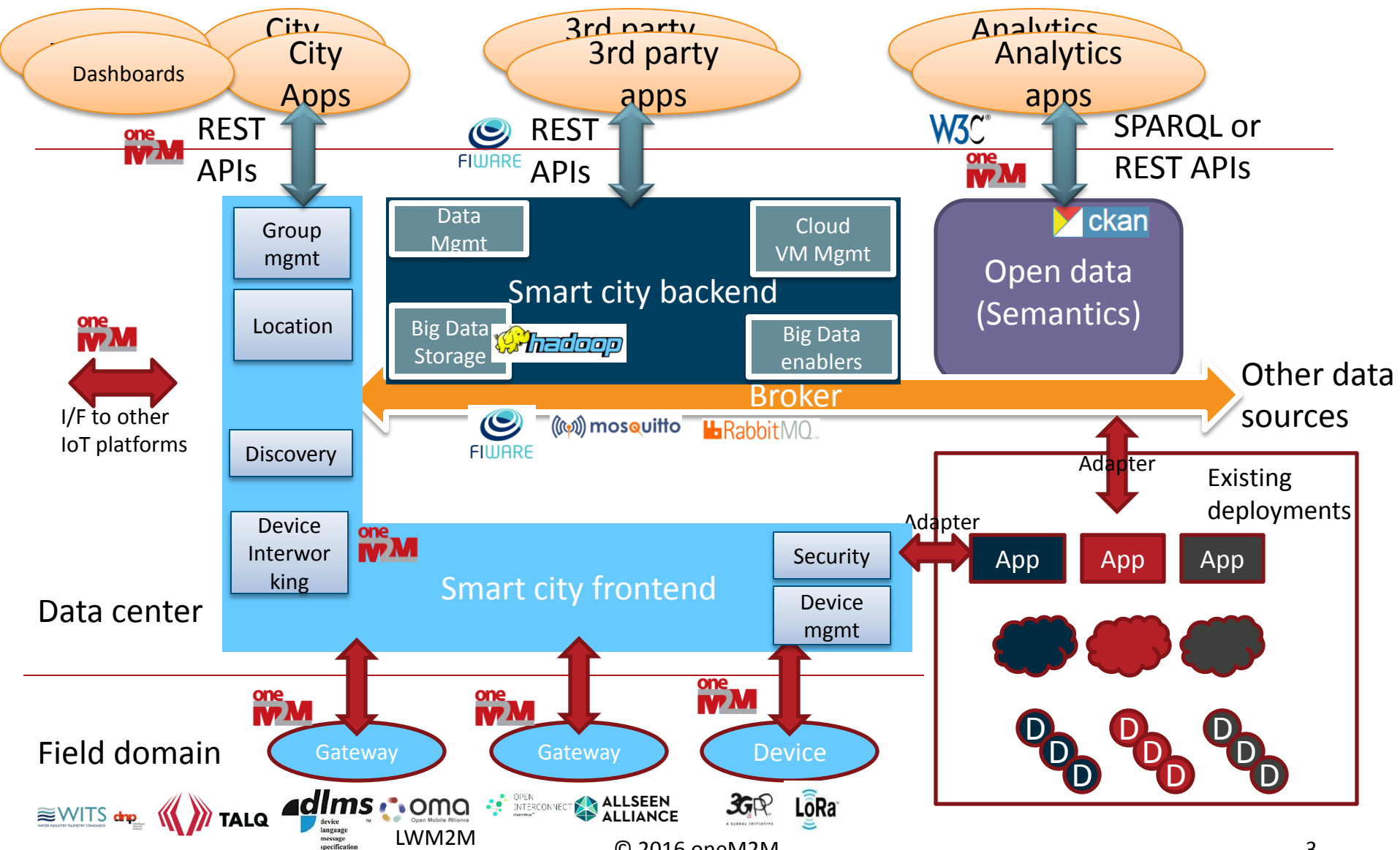
4th National Summit on 100 Smart Cities India 2018 – 24th August 2018

All are looking for similar needs, but stages are different

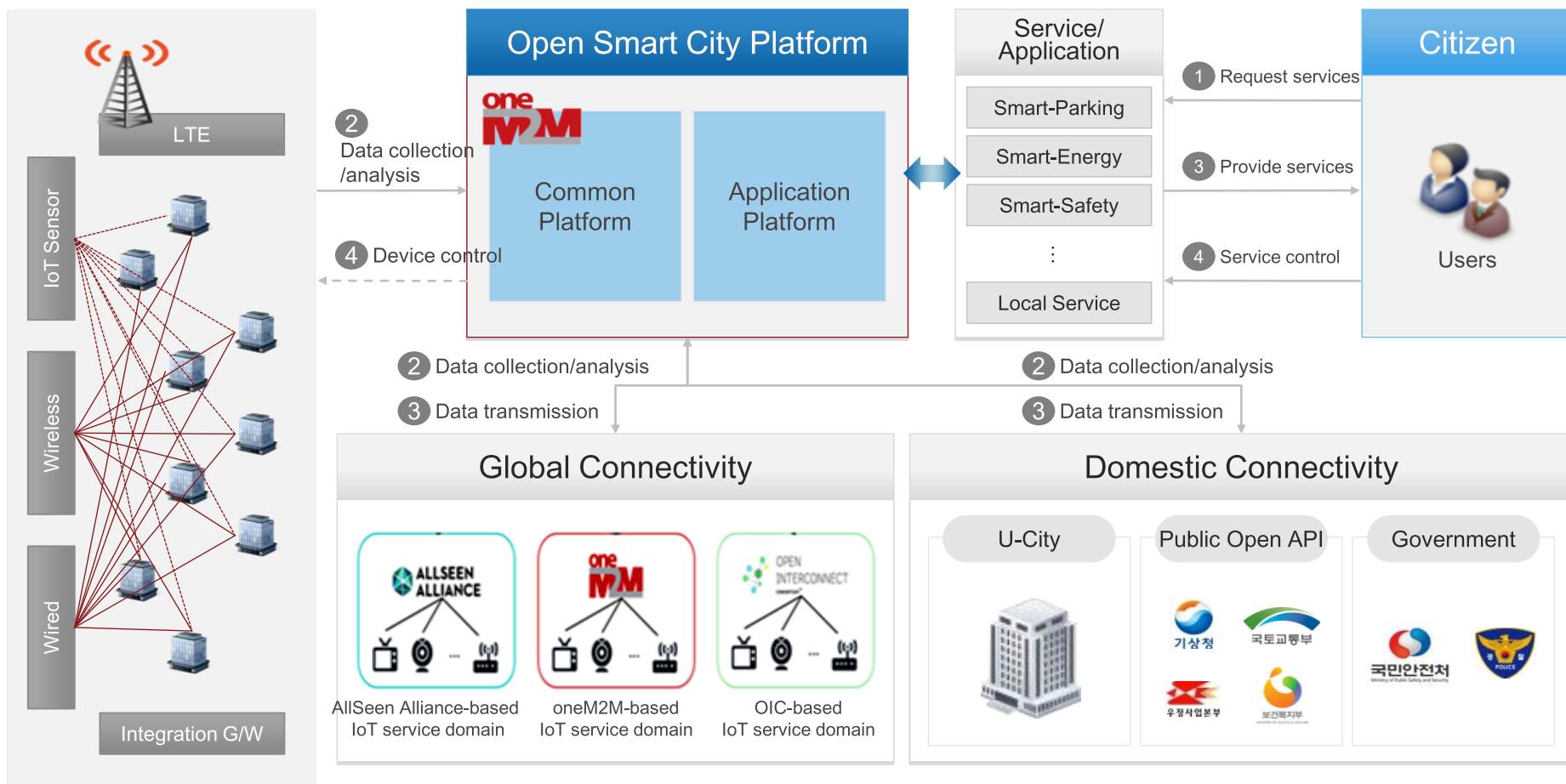


Smart City – Blue Print

Cloud apps



oneM2M based smart city deployment example - Busan



Source: SKT

Selected cities with proposed investments

City Challenge (Year)	Selected Cities	Total cost of projects (bn. euro)	ABD (bn euro)	Pen city solutions (bn euro)	Total urban population impacted (Cr.)
Round 1 (2016)	20	6.02	4.65	1.37	3.74
Fast track (2016)	13	3.73	3.25	0.48	0.94
Round 2 (2016)	27	6.75	5.32	1.42	2.55
Round 3 (2017)	30	7.18	5.87	1.32	2.37
Round 4 (2018)	99	1.6	1.33	0.27	0.35
Total	99	25.28	20.42	4.86	9.95

- Total winning proposals – 100=> One more City Shillong (Meghalaya) gets selected as the 100th Smart City
- Total Cost of Projects – 25.28 billion euro
 - ✓ Area based development (ABD) investment - 20.42 billion euro
 - ✓ Pan city solutions investment - 4.86 billion euro
- Total impacted urban population – 99.5 Million

Projects completed and under progress

According to [report released](#) by Ministry of Urban & Housing Affairs (MoUHA):

- ✓ As on 17th January 2018, 2,948 projects worth Rs. 1,38,730 crore (17.36 billion euro) are in various stages of implementation
 - 189 projects have been completed
 - 495 projects projects have started work
 - Tenders have been floated for 277 projects and
 - 1,987 projects are at detailed project report (DPR) stage.



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Challenges

- ✓ Availability of master plan & retrofitting of existing cities
- ✓ Financial sustainability of Urban Local Bodies (ULBs)
- ✓ Technical constraints & Multi-tier governance
- ✓ Providing clearances in a timely manner
- ✓ Dealing with a multivendor environment
- ✓ Capacity building
- ✓ Reliability of utility services



Conclusions

- Concept of Smart Cities is great but lack of infrastructure & basic amenities are the biggest challenges
- Government is driving Smart Cities mission but progress is quite slow
- Strong need for Common ICT Architecture, Common Service Layer, Global Standards for the Smart Cities applications
- In case of Smart Cities standards does exist, they need to stitched, and implemented
 - Common Service Layer is important and critical for its implementation as part of Smart Cities & oneM2M is global and interoperable standard

Dinesh Chand Sharma

(Seconded European Standardization Expert in India)

Director – Standardization & Public Policy

SESEI C/O EBTC, DLTA Complex, Gate No 3, 1st Floor, 1, Africa
Avenue, New Delhi 110029

Mobile: +91 9810079461, Tel: +91 11 3352 1525,

dinesh.chand.sharma@sesei.eu

www.sesei.eu ↔ www.sesei.in