

9th Green Standards Week
1-4 October 2019, Valencia, Spain



Connecting the world, together.



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Session 2: How international standards can help cities to become smarter and more sustainable to achieve the SDGs

UIT.T Y.4200: Requirements for the interoperability of Smart City Platforms.

Use Cases



The main problem in standards

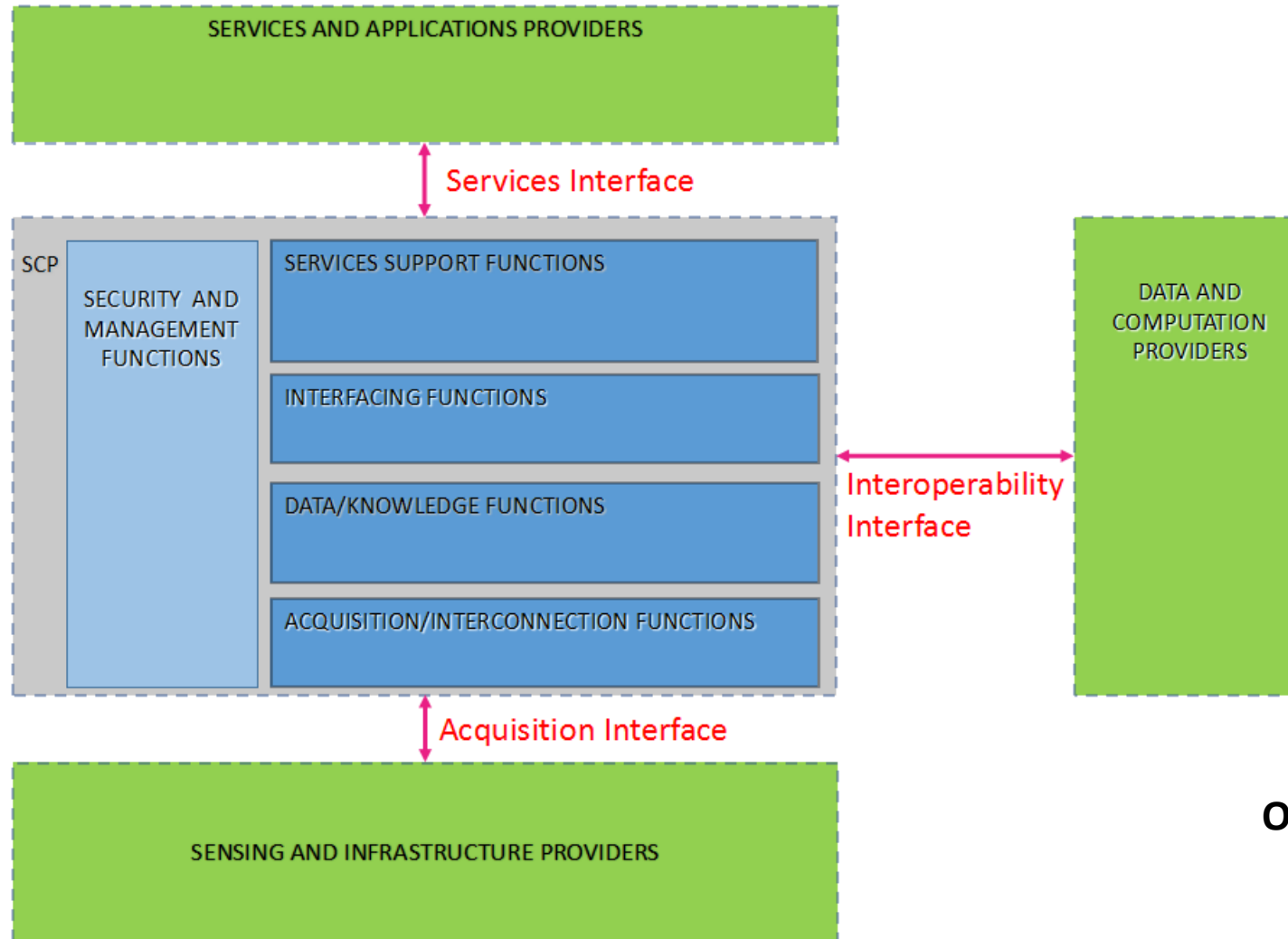
Jungle of Consortia, Standards, OS-Projects

Which groups actually specify technology, which are just doing marketing & promotion?

Which technologies are used / will be used in M2M/IIoT?

Which technologies are overlapping or complementing each other?



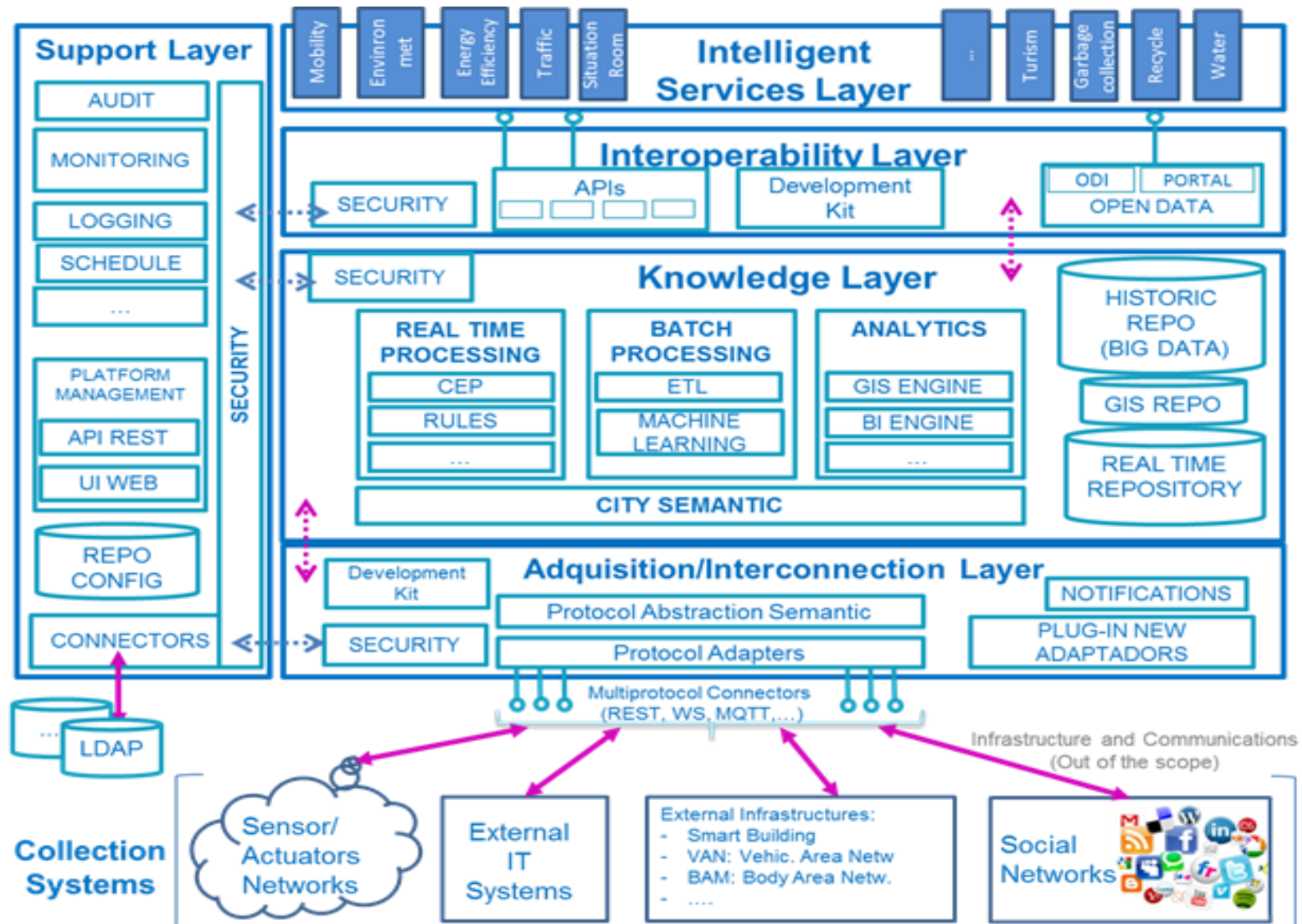


Open and standardised Interfaces



Setting the standard

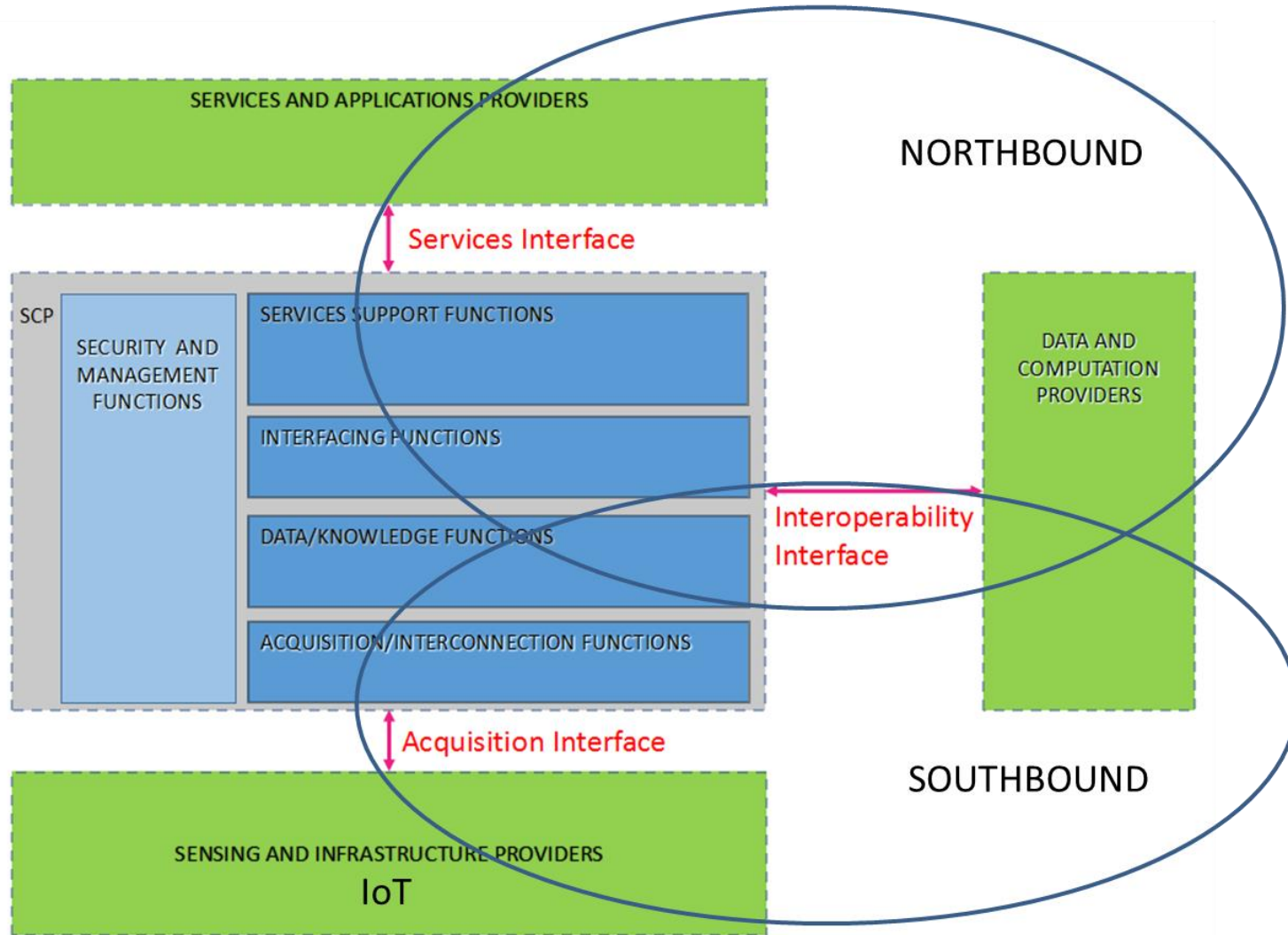
PLATFORM MODEL UIT- T Y.4200 &4201: SMART CITIES (VALID FOR ANY KIND OF PLATFORMS)



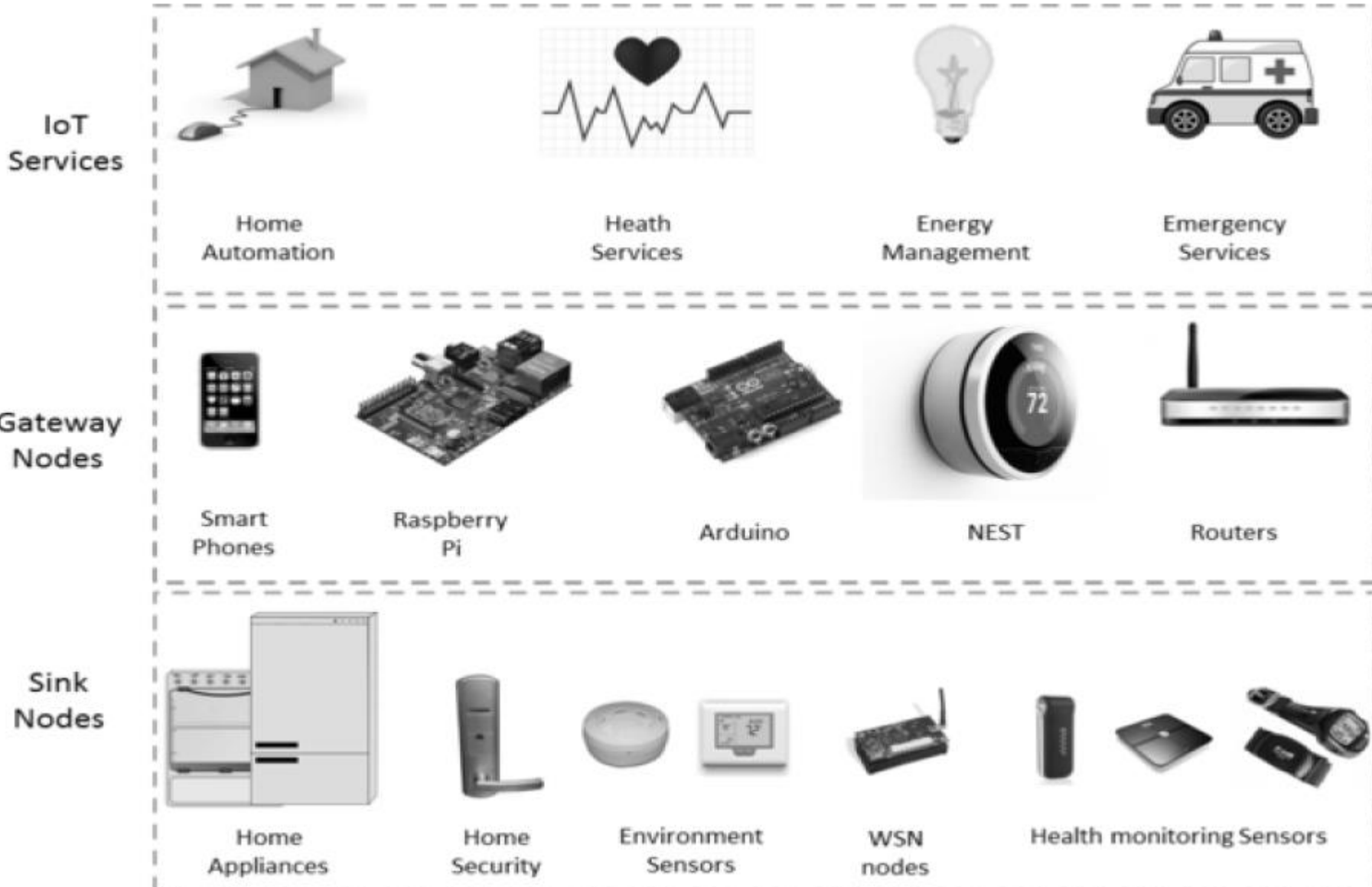


PLATFORMS CONNECTIVITY (SOUTH BOUND)

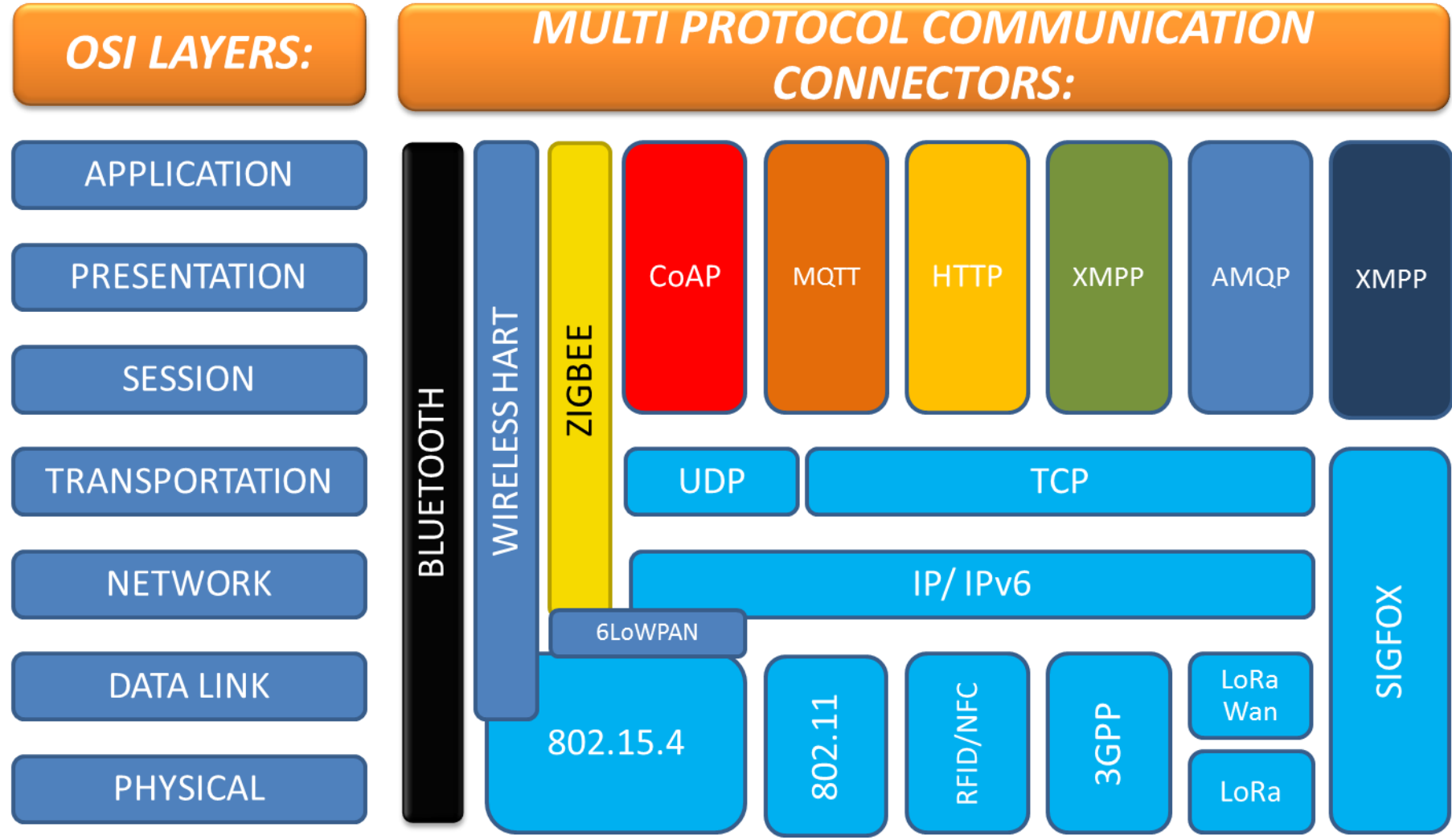
ITU: ITU-T Y.4200/4201

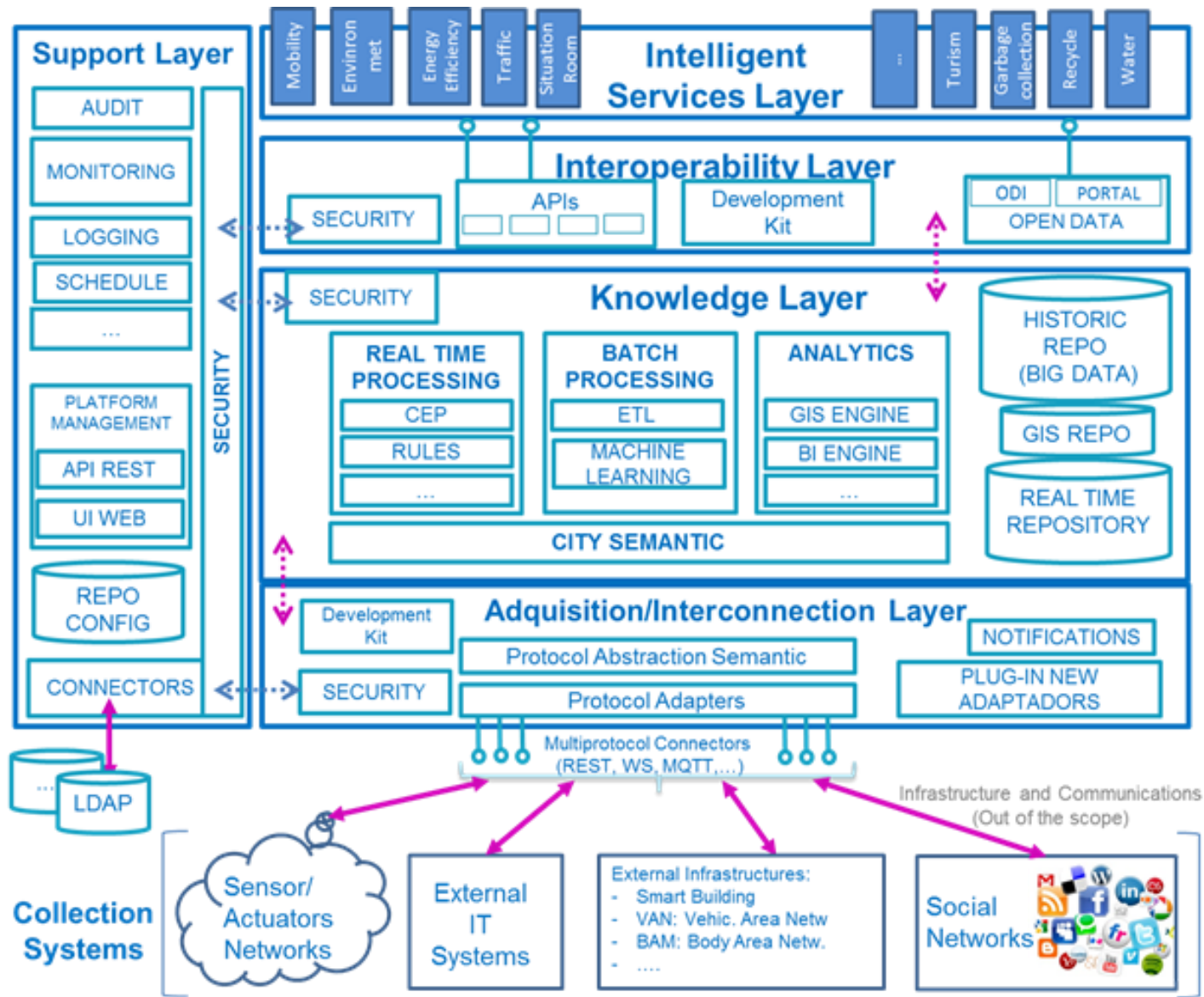


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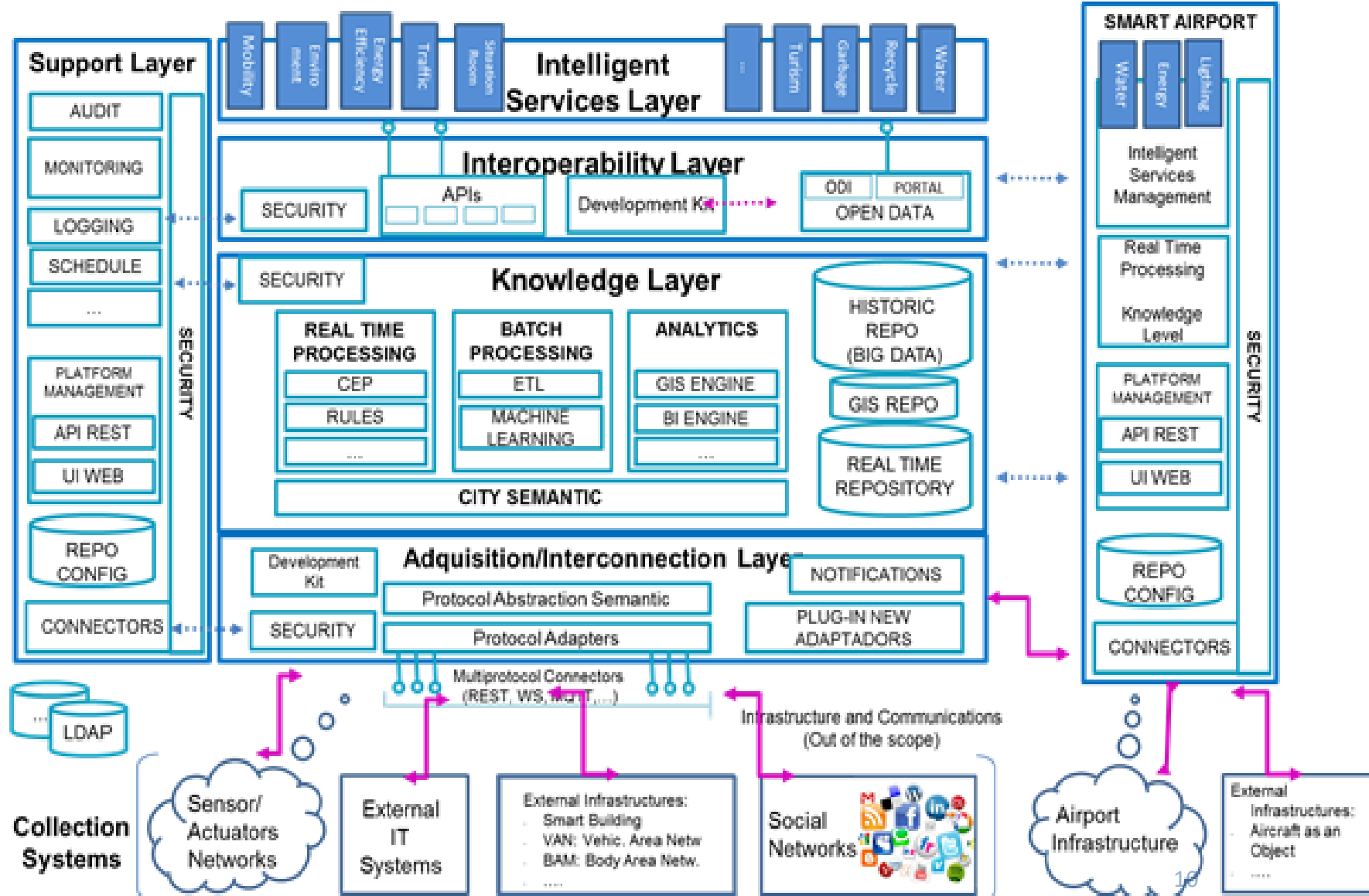


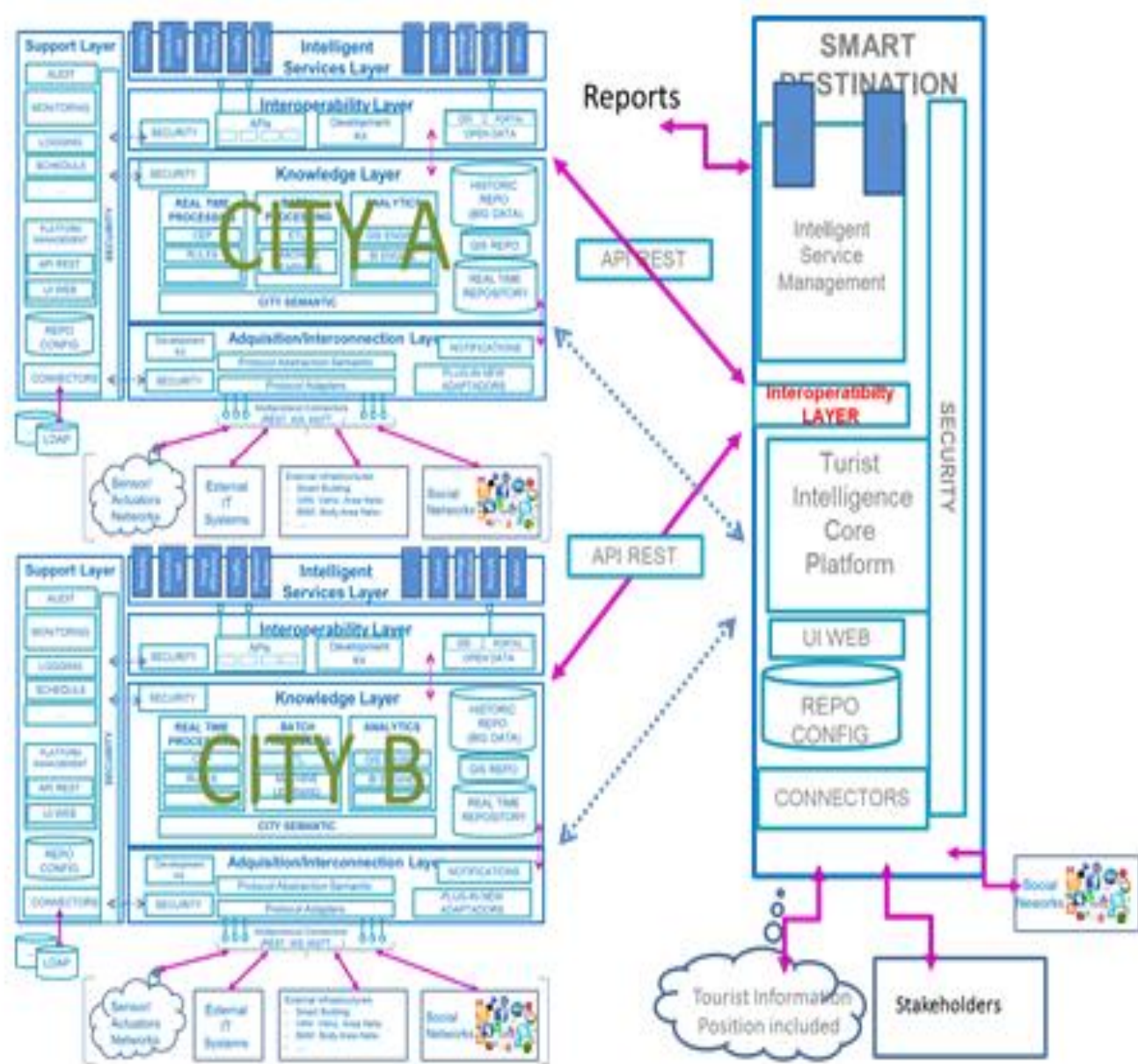
NORTH BOUND
INCLUDES HISTORIC DATABASE

OPEN DATA
APIS FOR SERVICES
APIS FOR THIRD PARTIES
API REST (Req UIT-T Y.4201)

DATA OUTPUT MUST FULLFILL
SEMANTIC RULES

USE CASE: CONECTING SMART CITY PLATFORM WITH EXTERNAL PLATFORM: PORT, AIRPORT, RAILWAY OR BUS STATIONS.....



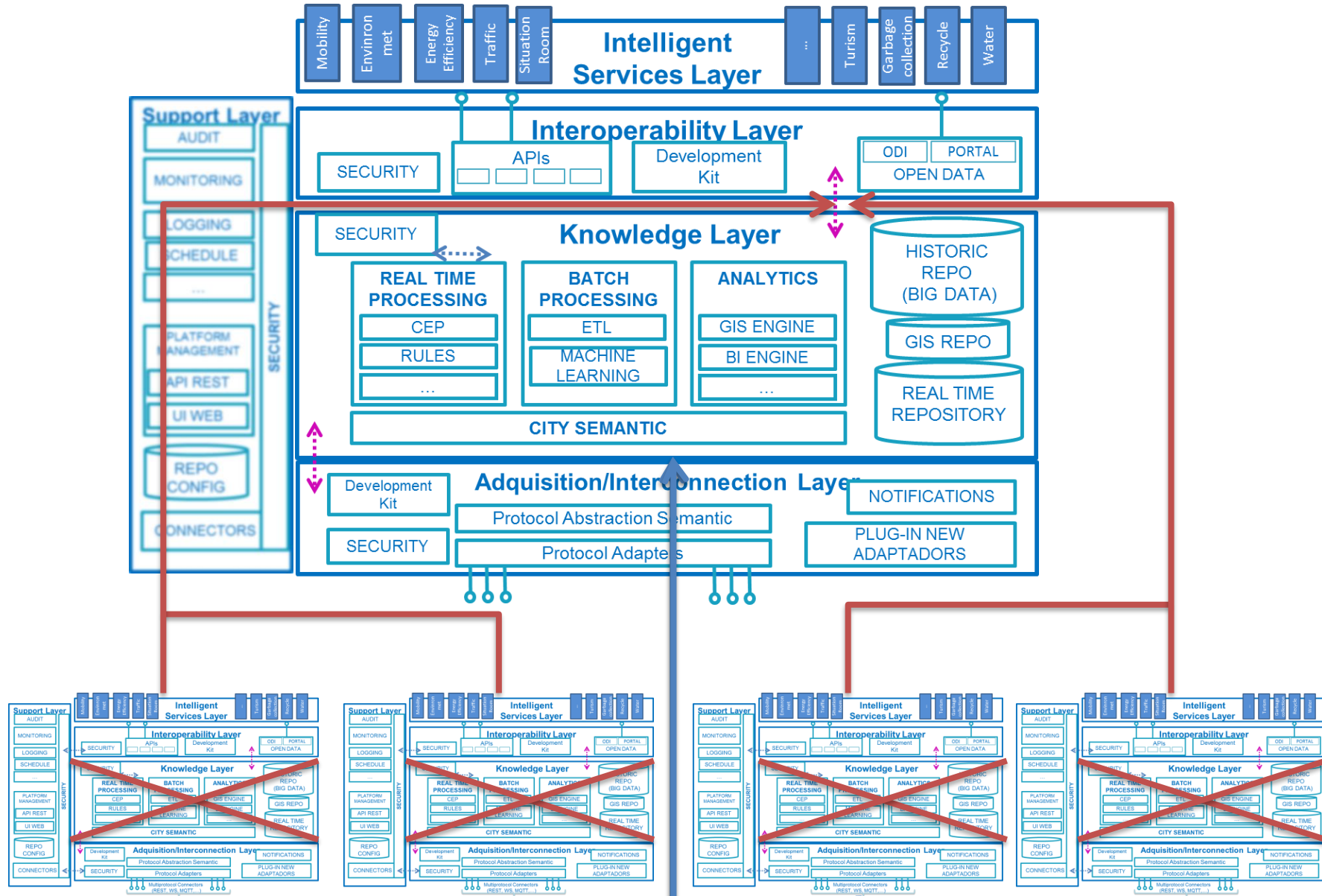


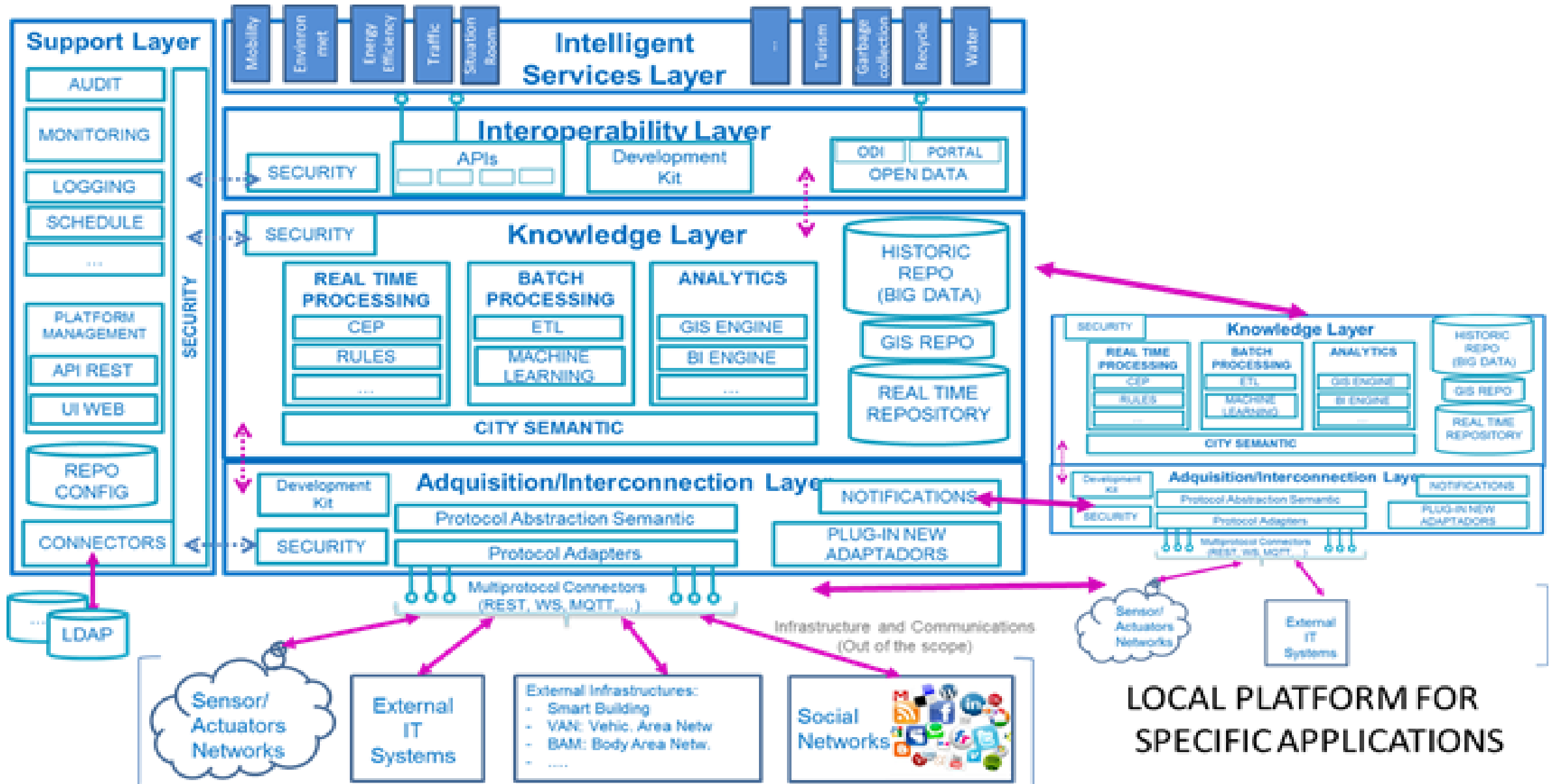
EXTERNAL PLATFORM
TYPICAL PROFILES
(NO SCP REQUIRED)
INTERCHANGING
INFORMATION WITH 2 SCP

APPLICATIONS:
HEALTH,
MOBILITY
TOURISM
.....

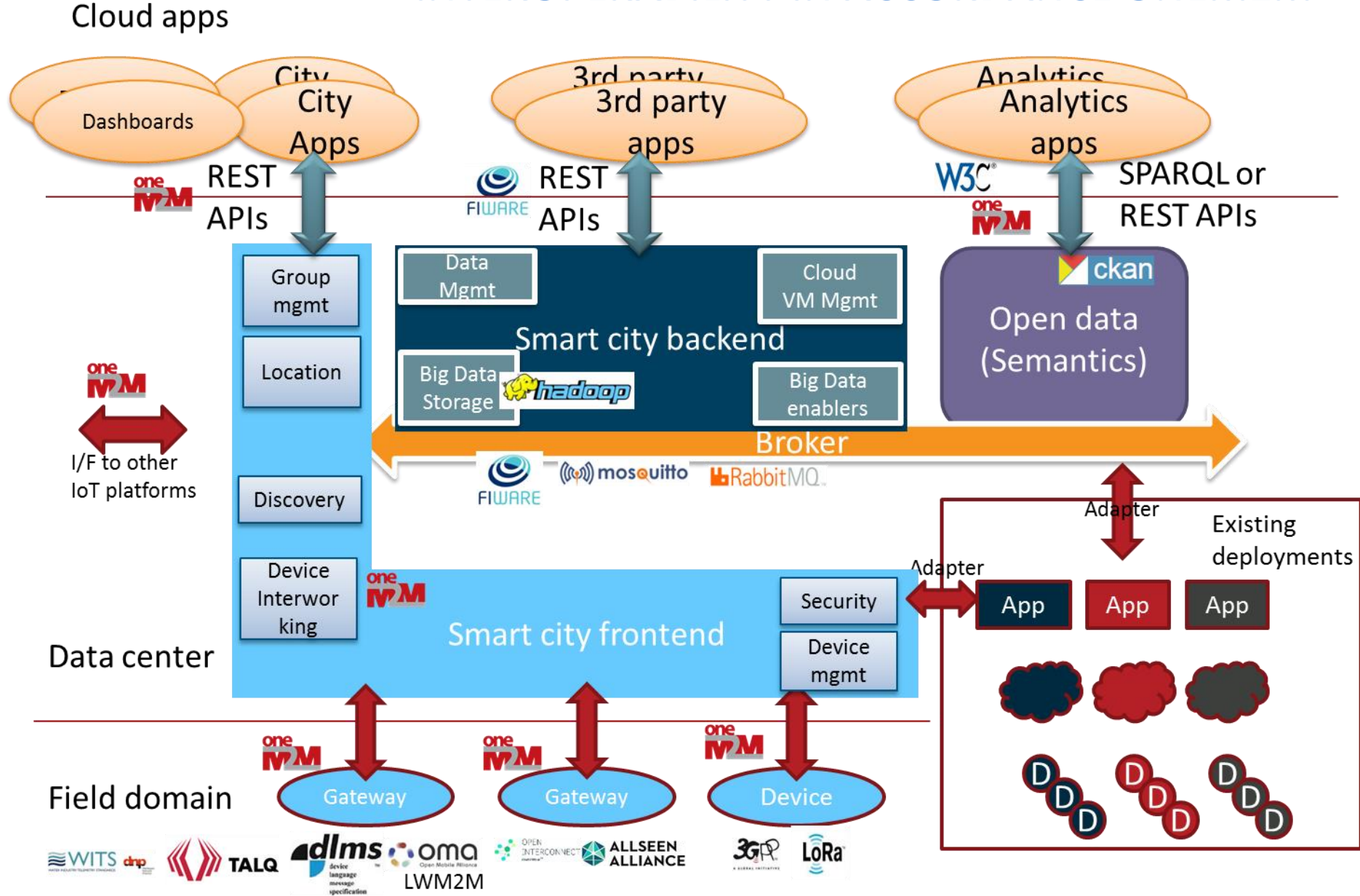


USE CASE: CENTRALISED PLATFORM. USEFUL FOR RURAL





INTEROPERABILITY IN ACCORDANCE ONEM2M





CONCLUSION

INTEROPERABILITY OF PLATFORMS ALLOWS:

- CREATE NEW SERVICES IN SMART CITIES
- CARRY OUT SERVICES TO OTHER PLATFORMS
- IMPROVE CURRENT SERVICES
- REDUCE COSTS, MAINTENANCE INCLUDED

REQUIREMENTS:

- Open and standardised interfaces
- Semantic rules

ITU-T SG20 IS WORKING ON THAT



Setting the standard

Thanks for your attention.

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