

Internet of Things: An Integral Part of the Future Internet

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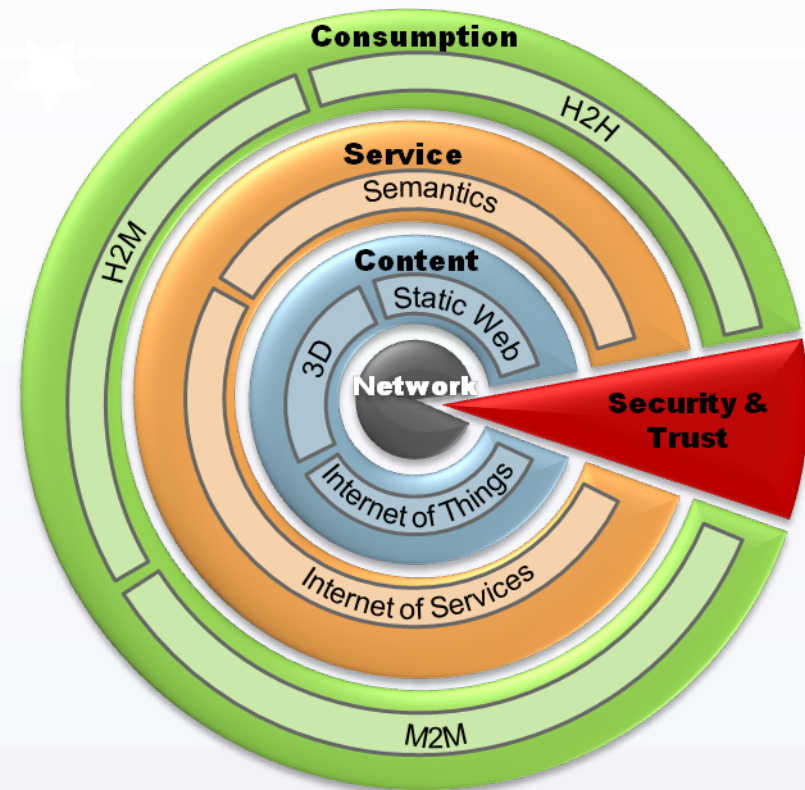
future Internet



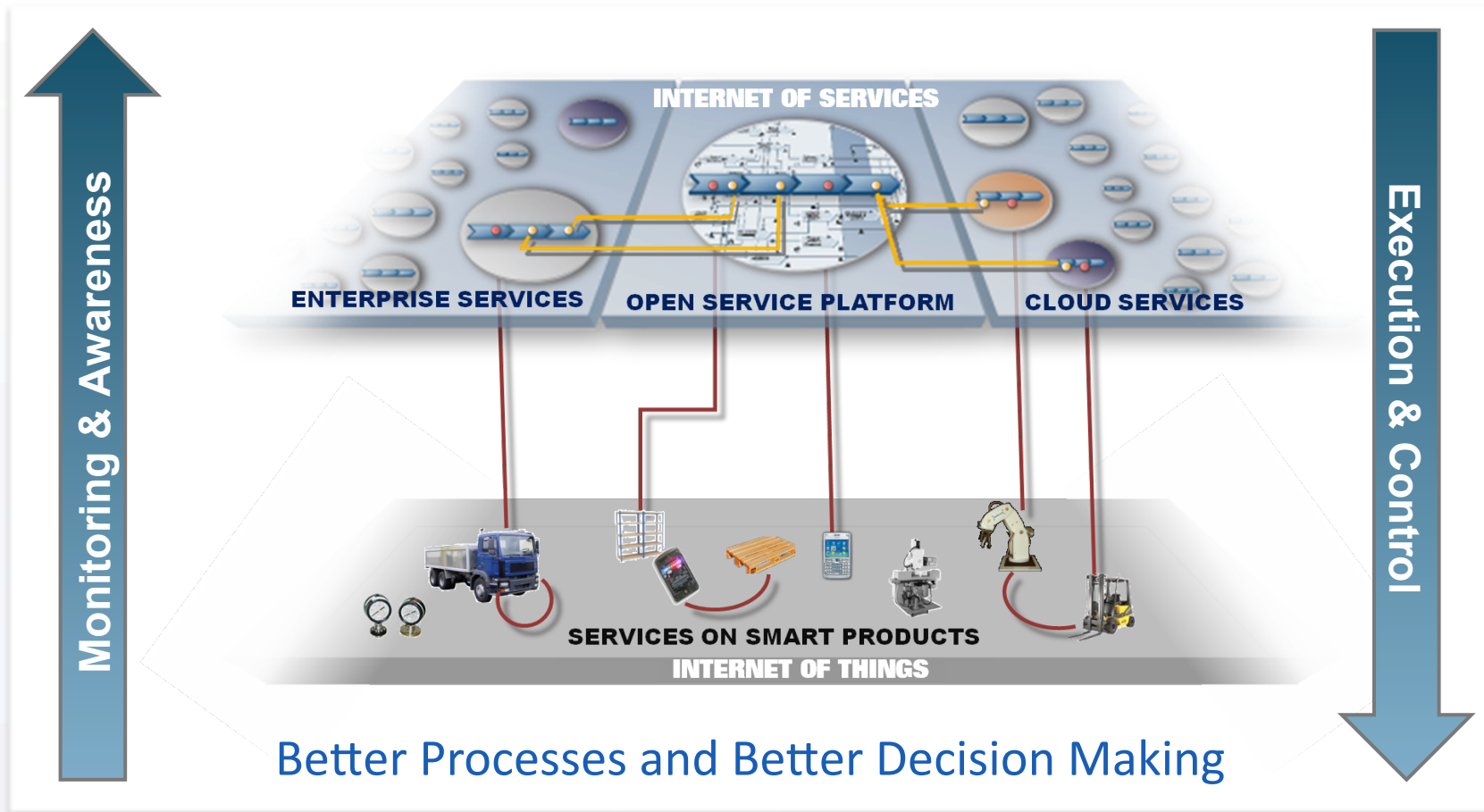
Internet of Things



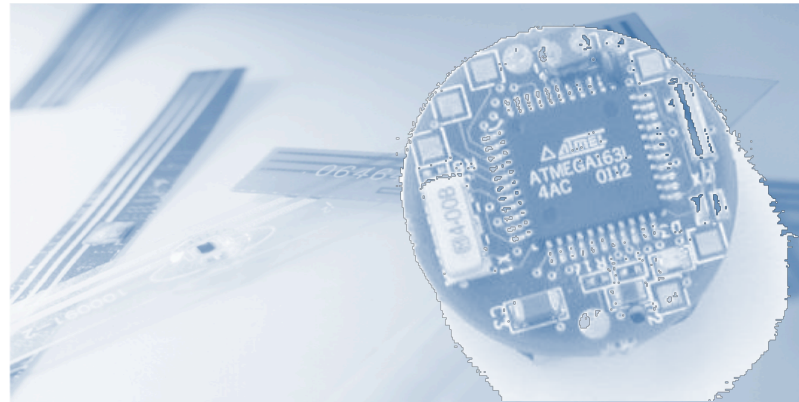
- Integral Part of the Future Internet, with specific aspects
 - Real-World Integration
 - Heterogeneity of „Devices“ and Networks
 - Mobility
 - Managing Scale
 - Continuous Sensemaking
 - Distributed Intelligence



Future & Real World Internet

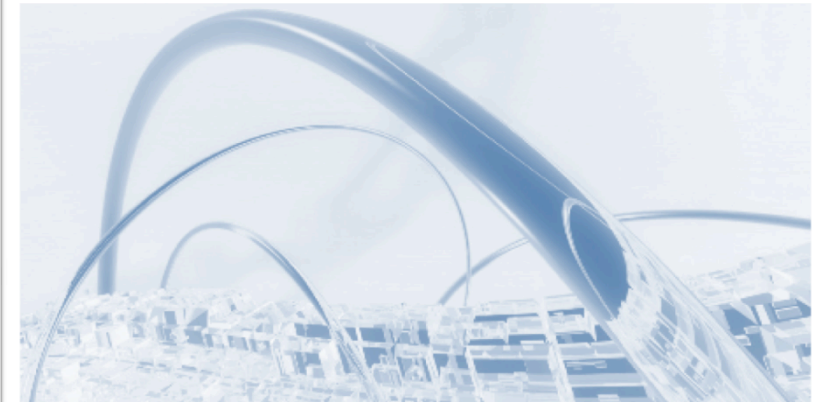


Heterogeneity



Devices

- RFID
- Sensors & Actuators
- Mobile Phones
- PLCs & Embedded Systems
- ...



Networks

- WAN, LAN, PAN, ...
- (Mobile) Phone Networks
- Wireless Sensor & Actuator Networks
- ...

Mobility: What and Where



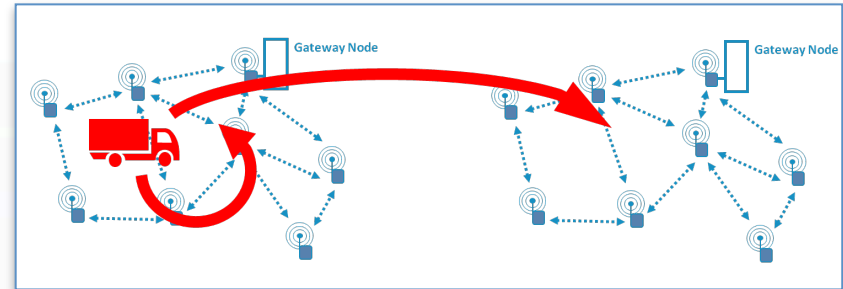
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Mobility: What and Where



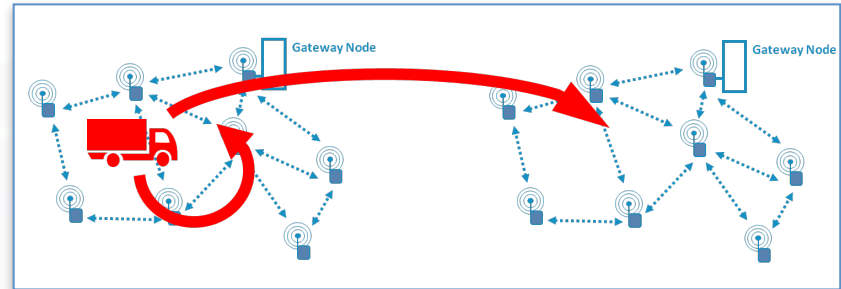
- Mobility of ...
... Entities of Interest



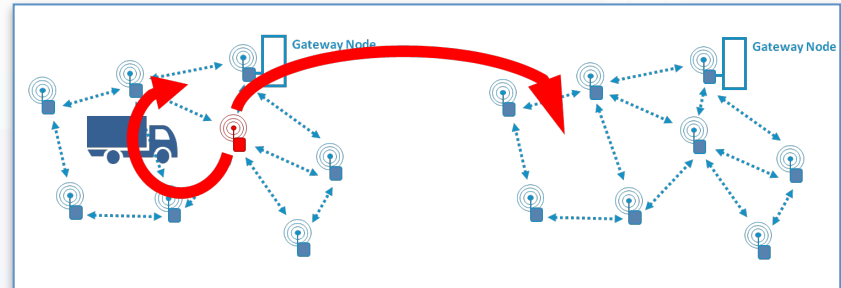
Mobility: What and Where



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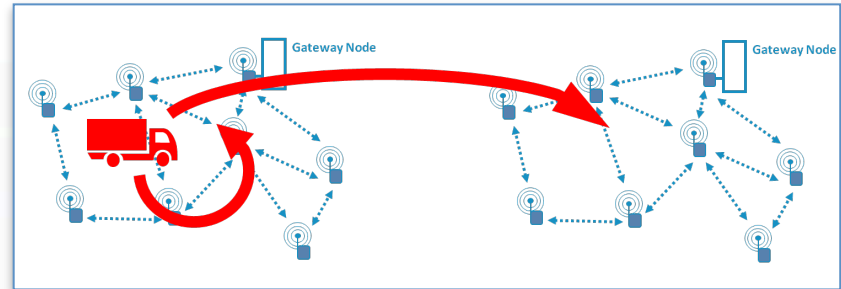
... Nodes



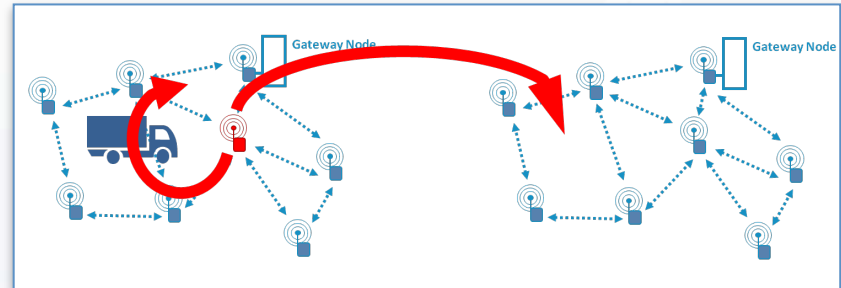
Mobility: What and Where



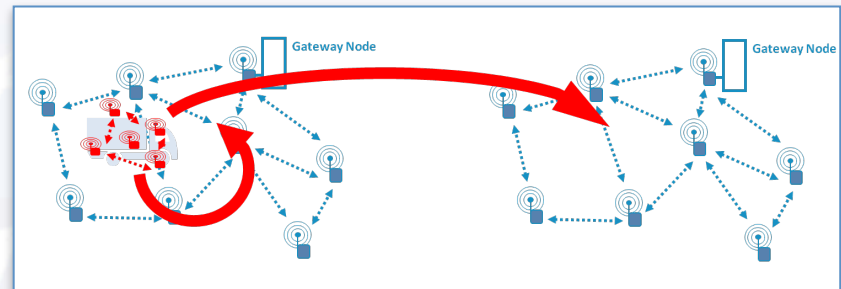
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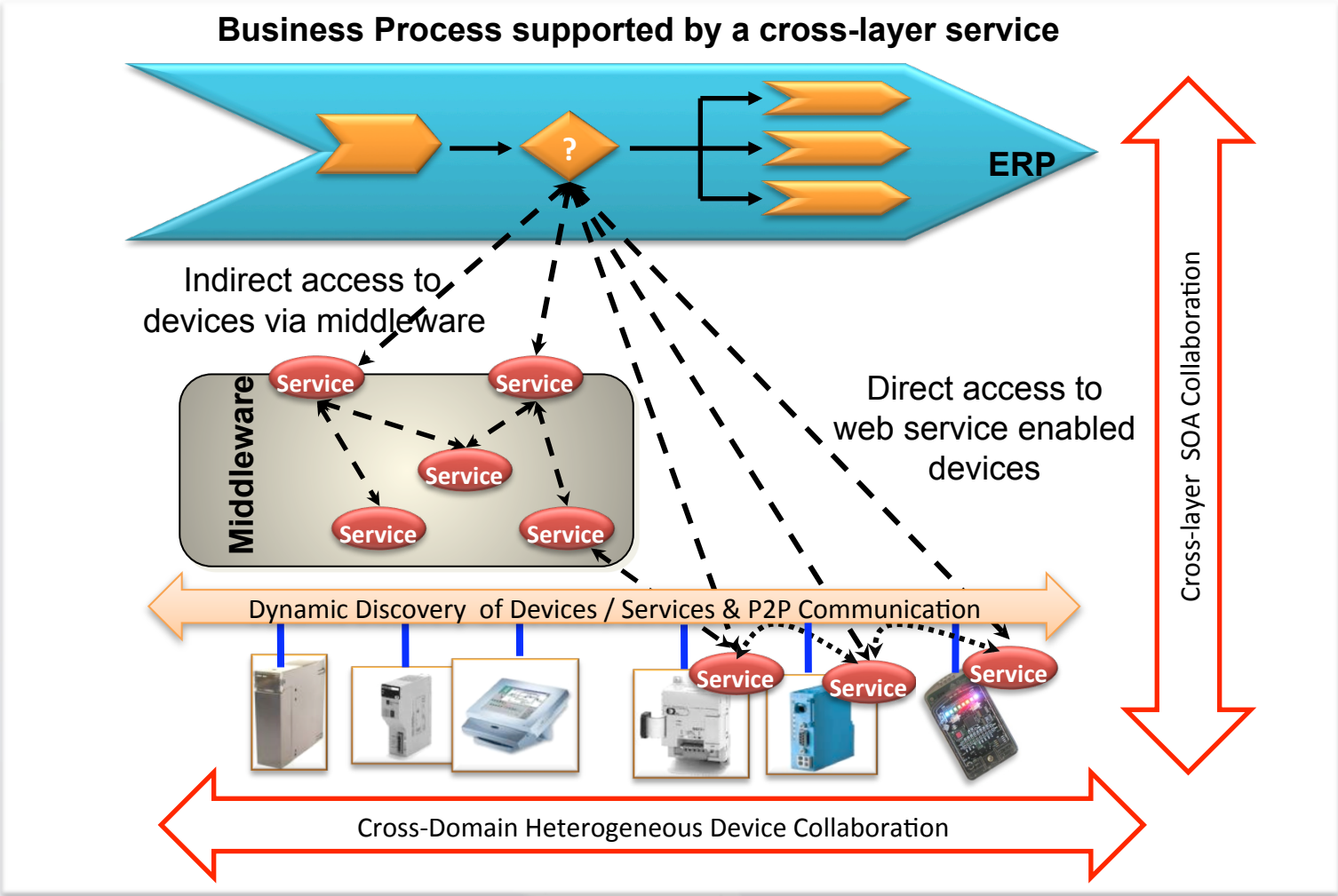
... Nodes



... Networks



Distributed Intelligence



Summary



- The Internet of Things is an **integral part** of the Future Internet
 - No separate architectures for the Internet of Things, the Internet of Services, the Internet of Contents etc.
 - However, heterogeneity and „design for change“ needs to be taken into account
- Services and **service platforms** provide the glue and are key for interoperability
- Top-Down engineering of the Future Internet unlikely
 - „Let chaos reign, and then rein in the chaos“
 - Standards are good, but ...

Thank you!

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future Internet



The Internet of Things is ...



'A world where physical objects are seamlessly integrated into the information network, and where the physical objects can become active participants in business processes.'

'Services are available to interact with these 'smart objects' over the Internet, query and change their state and any information associated with them, taking into account security and privacy issues.'

RFID, Sensor Networks etc. are just enabling technologies!



future Internet

