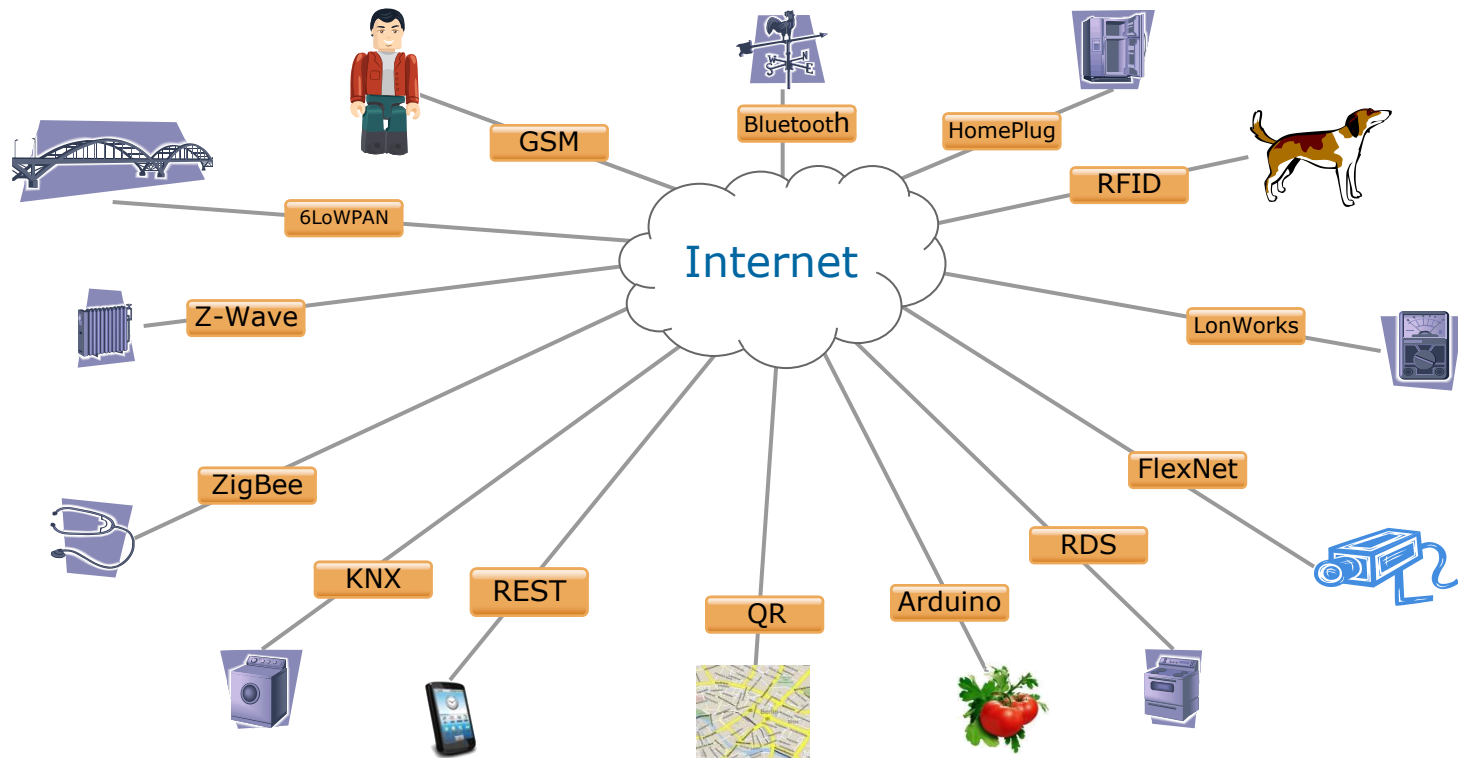# Challenges from the IDentities of Things (IDoT)

Introduction of the Kantara Initiative
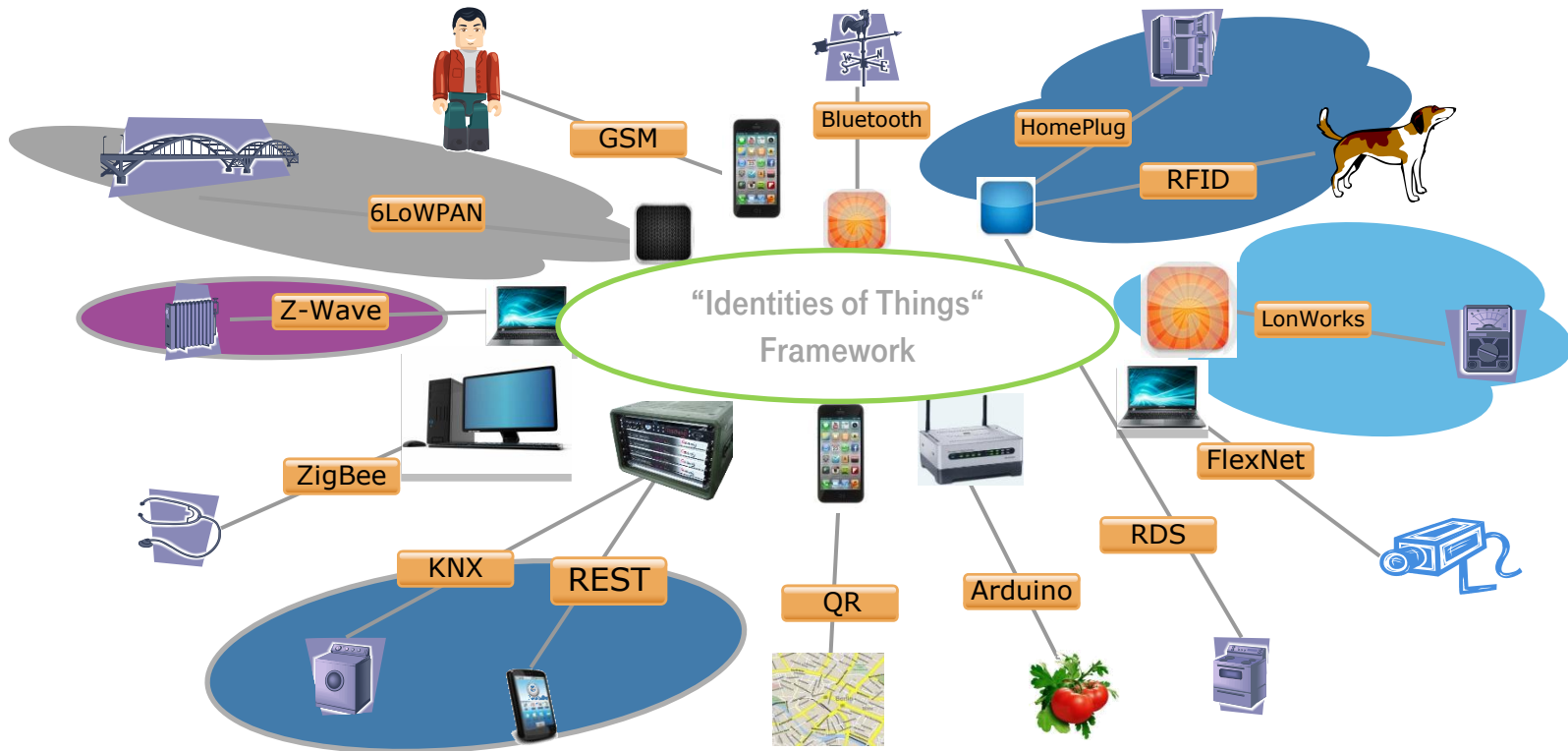
IDoT discussion group

Ingo Friese; Deutsche Telekom AG

at IEEE IoT 2013 Workshop

Today, devices and sensors speak a lot of different protocols, but most of them are not HTTP.

Internet

GSM · Bluetooth · HomePlug · RFID · 6LoWPAN · Z-Wave · LonWorks · ZigBee · FlexNet · KNX · REST · QR · Arduino · RDS
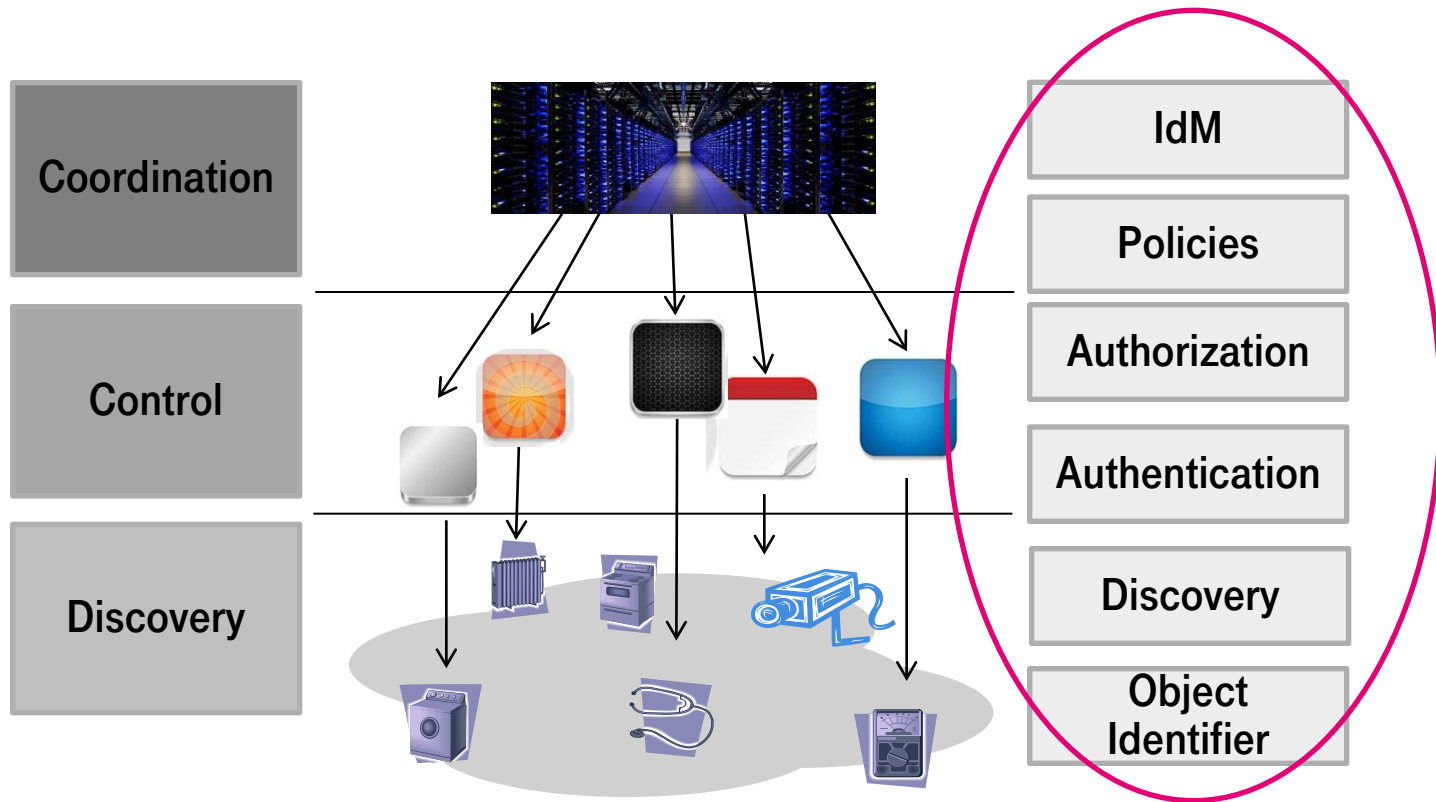
Although IPv6 is available, it is unachievable to address all things directly via the Internet in the near future

What's the problem?: The Internet of Things today consists of separated solutions and niche standards.

An Identity framework is crucial to connect these separated "Islands".

Different layers of complexity in the IoT require different aspects of an Identity Framework.
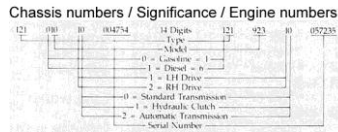# Topics of the IDoT discussion group.

Coordination		IdM
Control		Policies
		Authorization
		Authentication
Discovery		Discovery
		Object Identifier

*IoT layer model by Scott Jensen

Example: Mapping and Addressing.
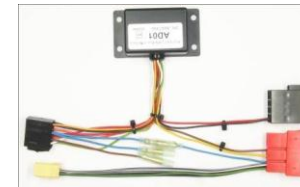# One identifier per use case or scenario.

License plate

used for Toll Gate

11-Bit-Identifier (CAN BUS)
used for board computer control

IMEI

used for automatic reservation
of an energy plug

Chassis number
used for theft prevention

The IoT needs an universal mapping, discovery- and naming service as a part of an IDoT Framework.

Kantara Initiative Identities of Things Discussion Group.

- No formal burdens in Kantara Initiative
- Rather hands on work
- No membership fees apply for working in a DG
- Just sign GPA:
  http://signup.kantarainitiative.org/?selectedGroup=34
- Agenda and more:
  http://kantarainitiative.org/groups/idot/

Let's work together on an interesting and most relevant topic. Join IDoT DG in Kantara Initiative!