



Innovations in Clouds,
Internet and Networks

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Managing Personal Information: A Telco Perspective

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Striking unbalance between data producers and retainers (users vs providers)

Users (read: customers / citizens) less and less trust providers wrt personal data management

Large-scale deployment if IoT appliances can further exacerbate this, and undermine societal and business value

Research consistently finds increasing demand for user-centric data management solutions

Customers demands:

- data ownership
- access and usage control

Research consistently finds increasing demand for user-centric data management solutions

Risks:

- bad post-facto solutions (cookie law anyone?)
- hinder societal and business potential

The PIM (Personal Information Management) framework

- grant ownership & control
- allow for conscious and informed decisions
- a step towards *breaking the data silos*

The PIM (Personal Information Management) framework

Focus:

- *secure*
- *trustable*
- *open*
- *social*

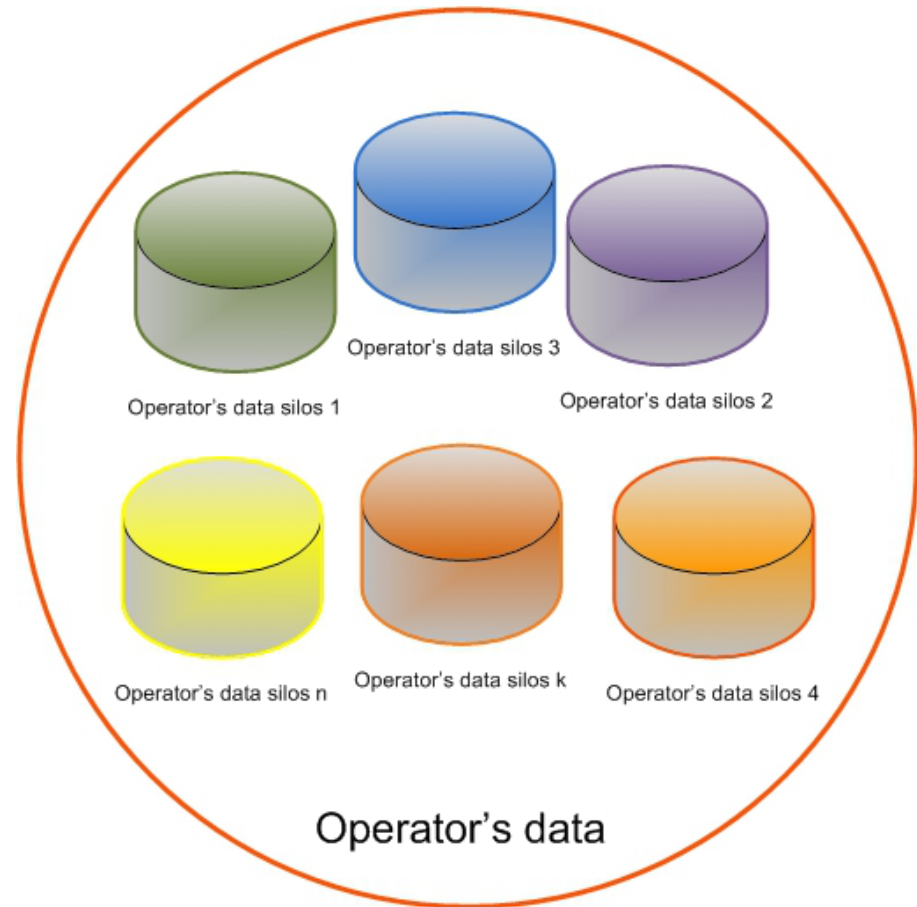
The **PIM** (Personal Information Management) framework

Main features:

- visualization of produced data
- selective control (e.g. partial deletions)
- access and usage control

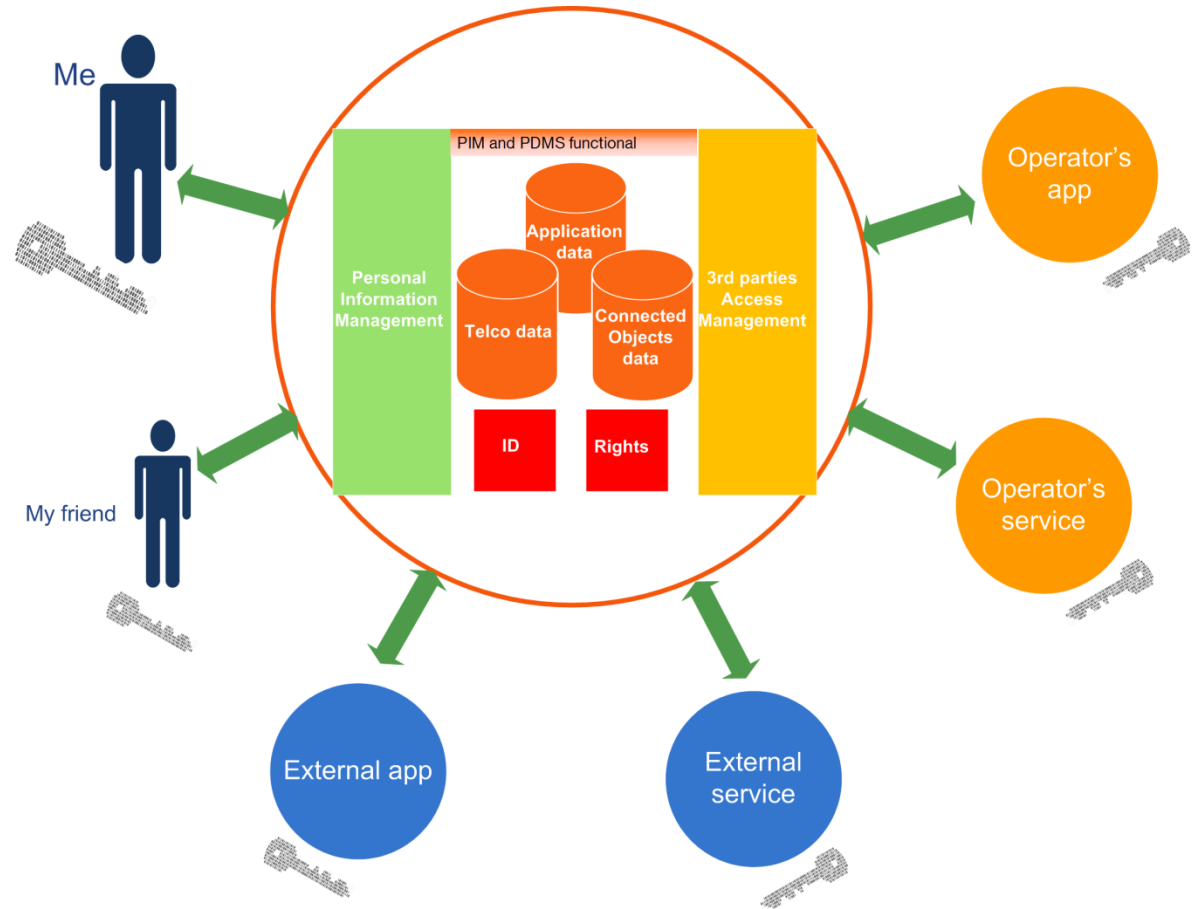
PIM (Personal Information Management)

move from this

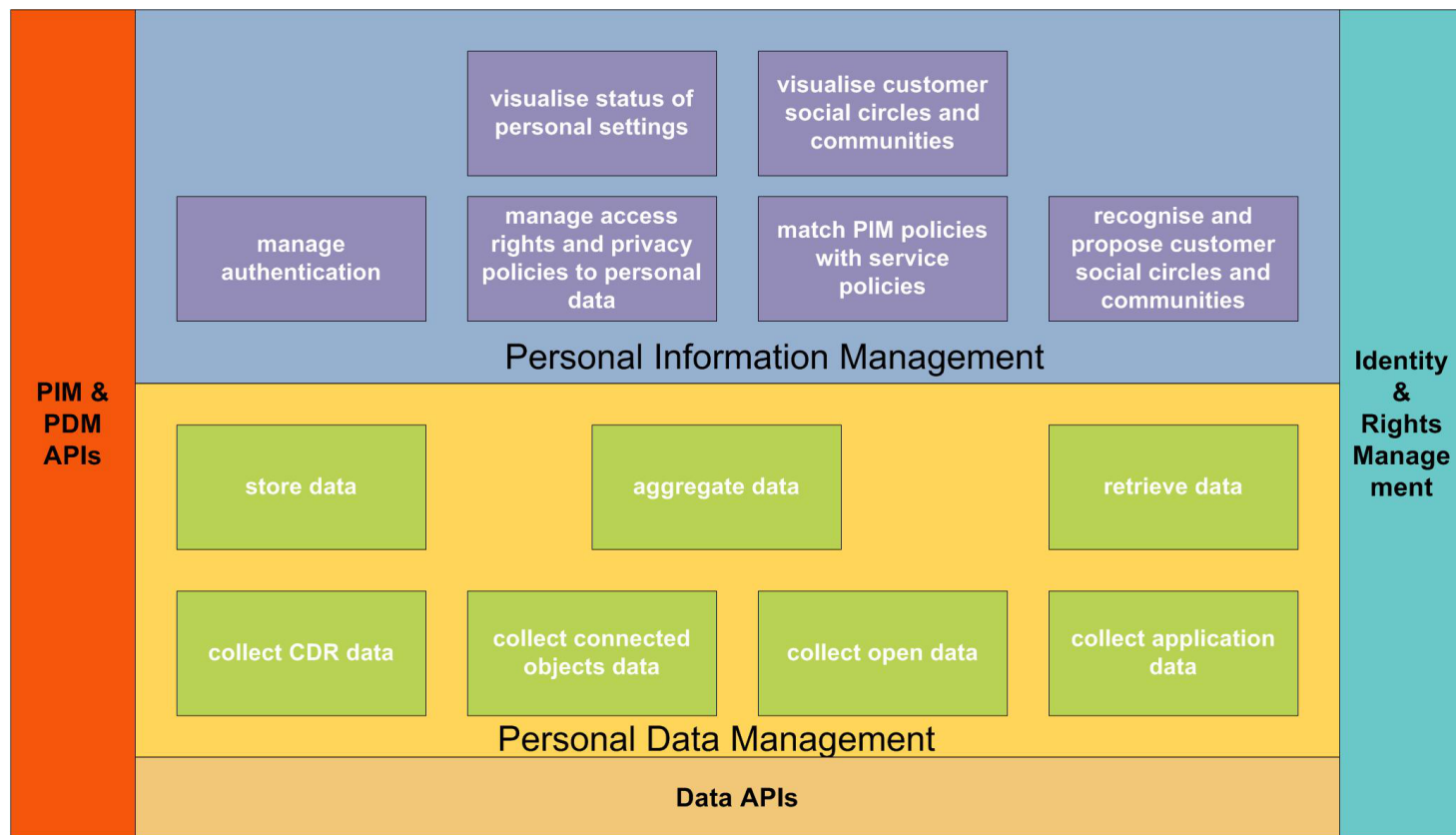


PIM (Personal Information Management)

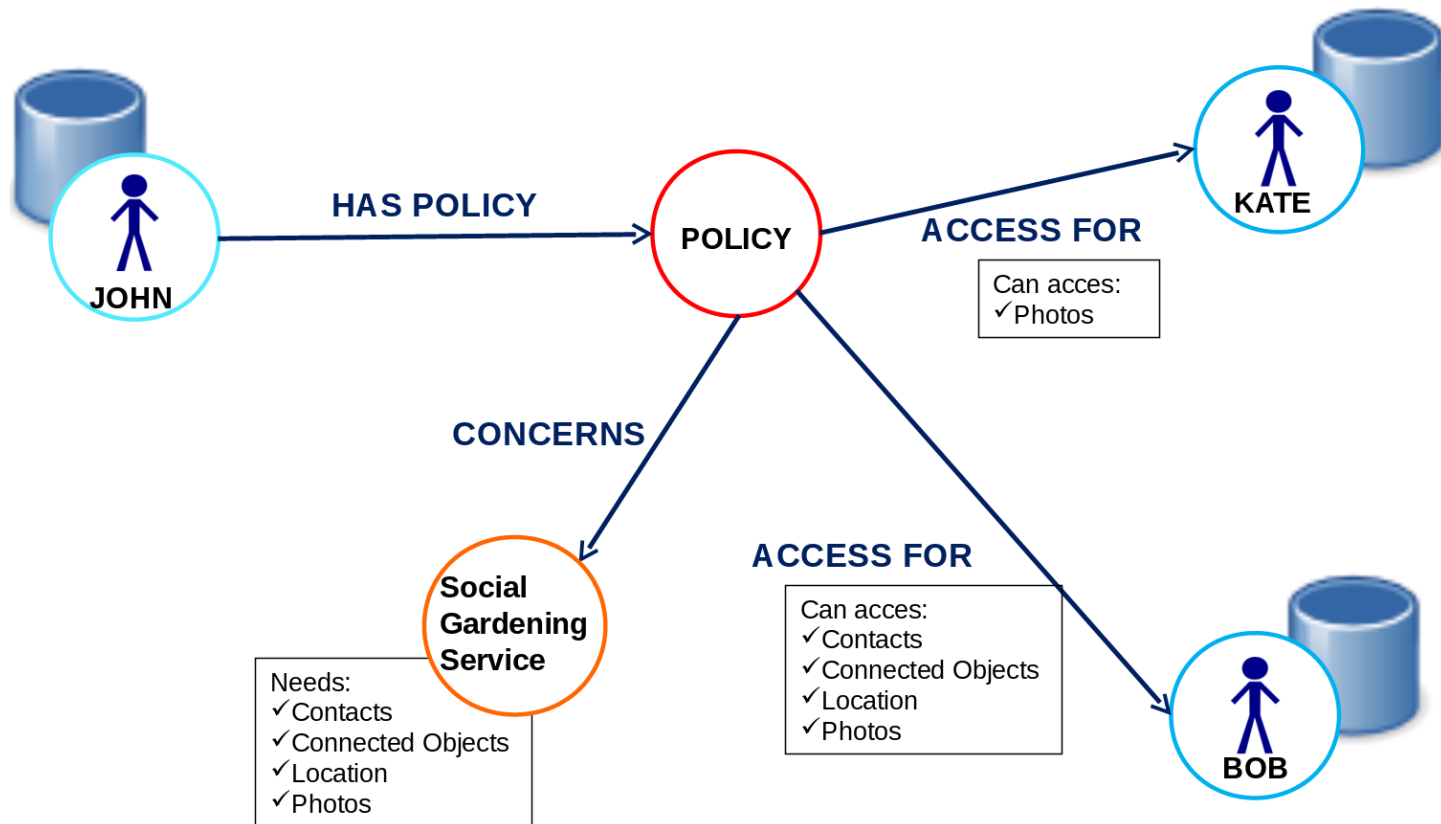
to this



PIM architecture



PIM architecture



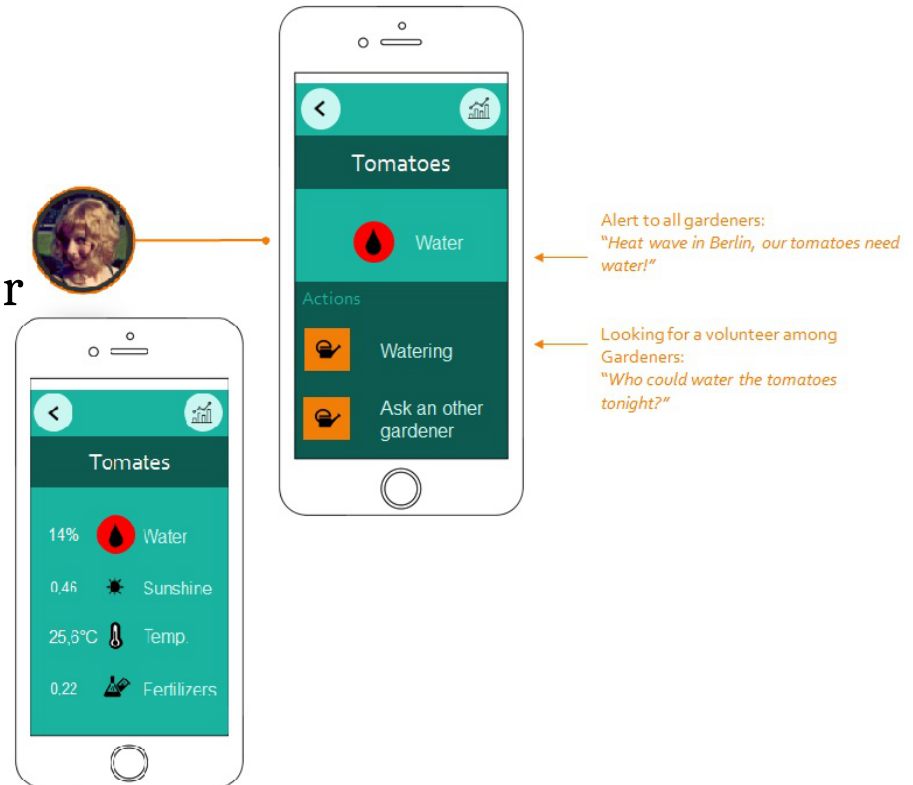
A first use case: *Social Gardening*

- support for collective gardening in micro-communities
- based on data from sensors & mobile phones



Social Gardening – main features

- **information sharing**
Real-time sensor data, weather forecasts, ..
- **alerts/messaging**
Find volunteering fellows, receive notifications from sensors, ..
- **socialization**
Share content/news, organize social events, ..



Open questions / Future works

- customer awareness
- intelligent & user-friendly policy configuration
- within-Telco integration
- interoperability



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Thank you!



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