

# **SALAR contributing to MIM:s**

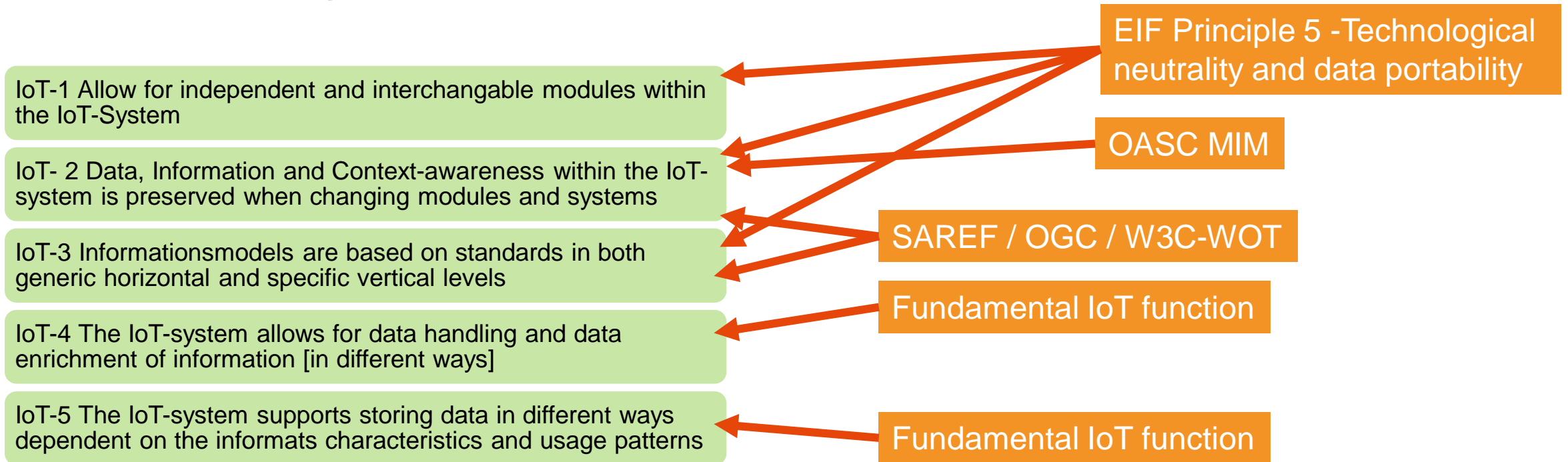
# The ten SALAR Proposed Principles for IoT systems

- In total 10 principles guiding municipalities and regions in best practices when purchasing/achieving/developing IoT-systems or IoT capabilities.
  - Each principle has a description, motivations and implications.
- The principles can be used to evaluate an IoT-system, either from supplier or one already in place.
- Approximately 40 descriptive requirements to help evaluating how well the principles are fulfilled.
- IoT-system is defined as everything between the sensor and the application.

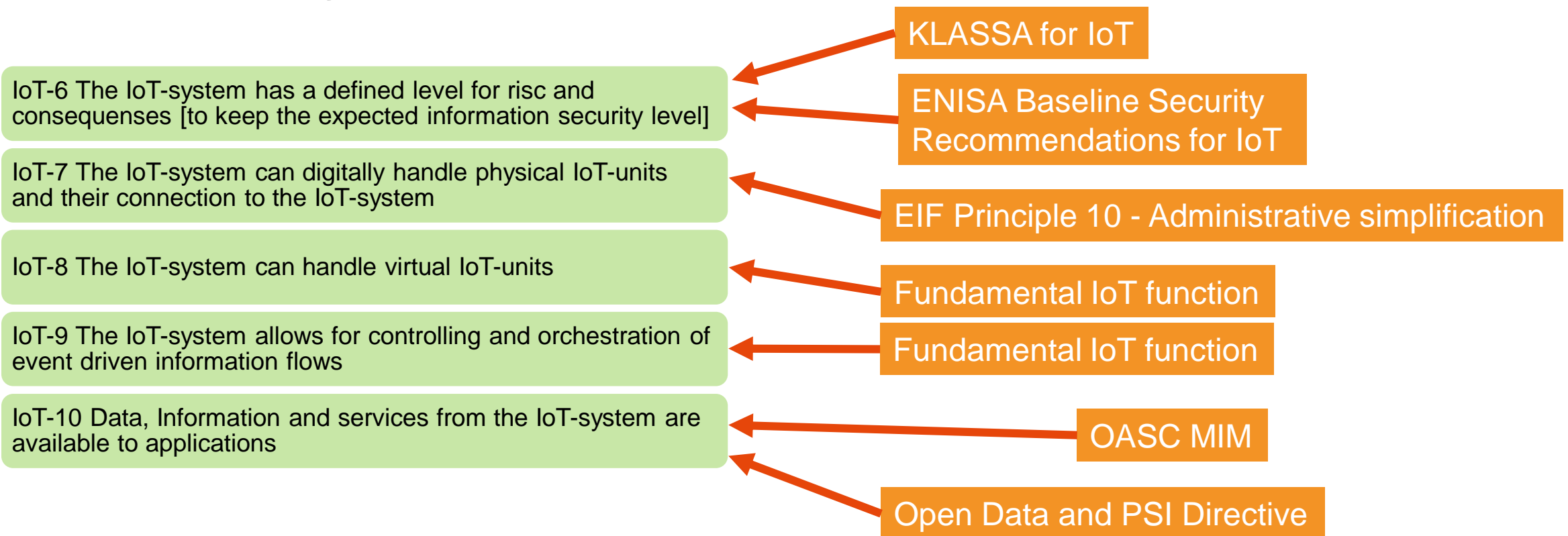
# Example: Evaluation of tender

Principle	Max score	Provider 1 score	Provider 2 score
Data, Information and Context-awareness within the IoT-system is preserved when changing modules and systems	280	48	247
The IoT-system allows for data handling and data enrichment of information [in different ways]	150	97	125

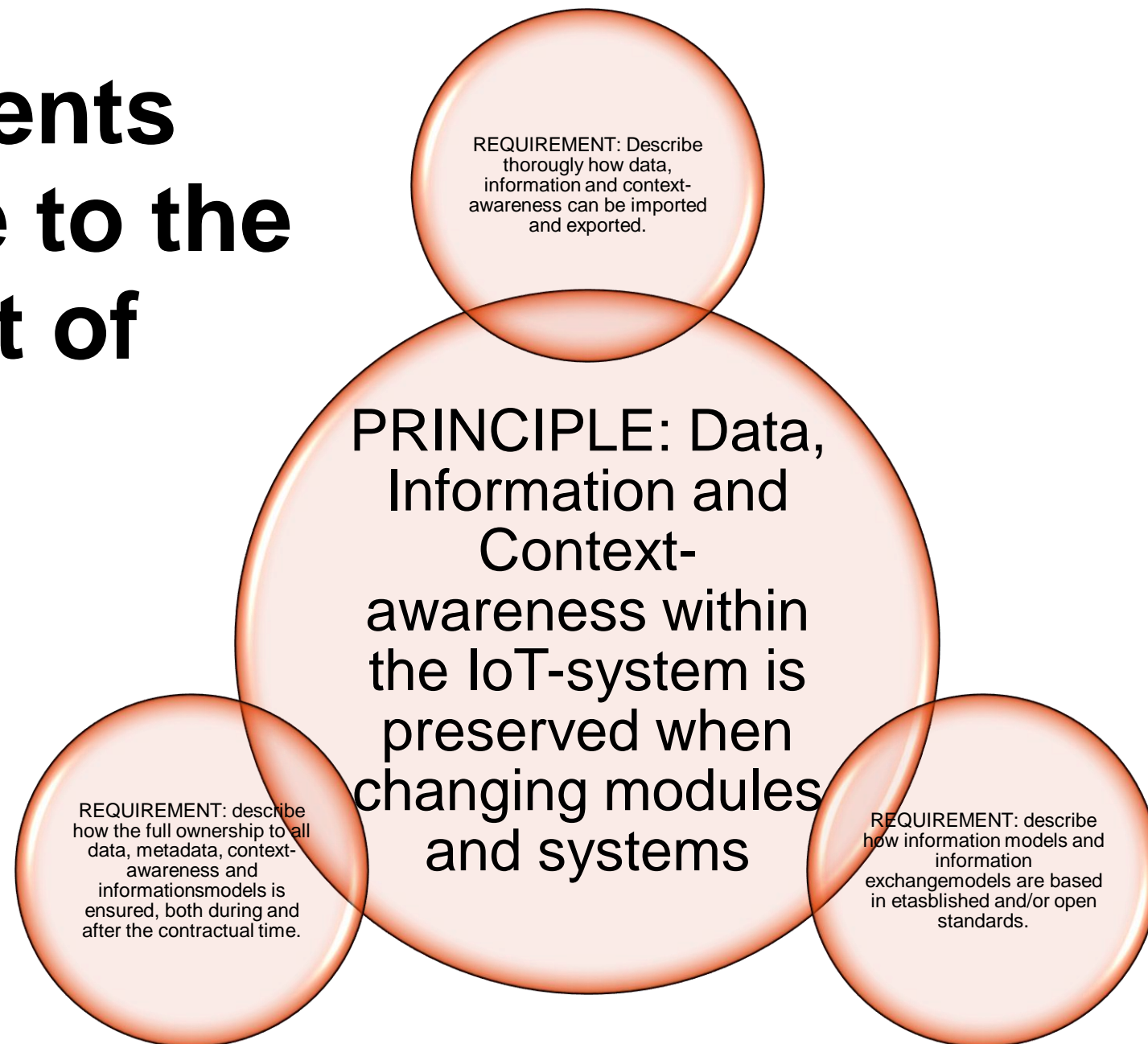
# Principle 1-5 of SALAR Proposed Principles for IoT systems



# Principle 5-6 of SALAR Proposed Principles for IoT systems



# Requirements contribute to the fulfillment of principles



# In the background of RefARK IoT

## Frameworks and guidelines

- DIGG:s Grundläggande principer för digital samverkan
- SKR:s Utveckling i en digital tid
- EIF – European Interoperability Framework
- FAIR principles for data

## Proprietary standards

- ISO-IEC 30141-2018
- ISO-IEG 20924-2018
- ISO-IEC 1994:2017
- ISO 27000
- DIN 91357:2017-12
- NPR 8284-2020

- ENISA Baseline Security Recommendations for IoT
- Stadnätetsföreningen - Säker och Robust IoT

## Information security

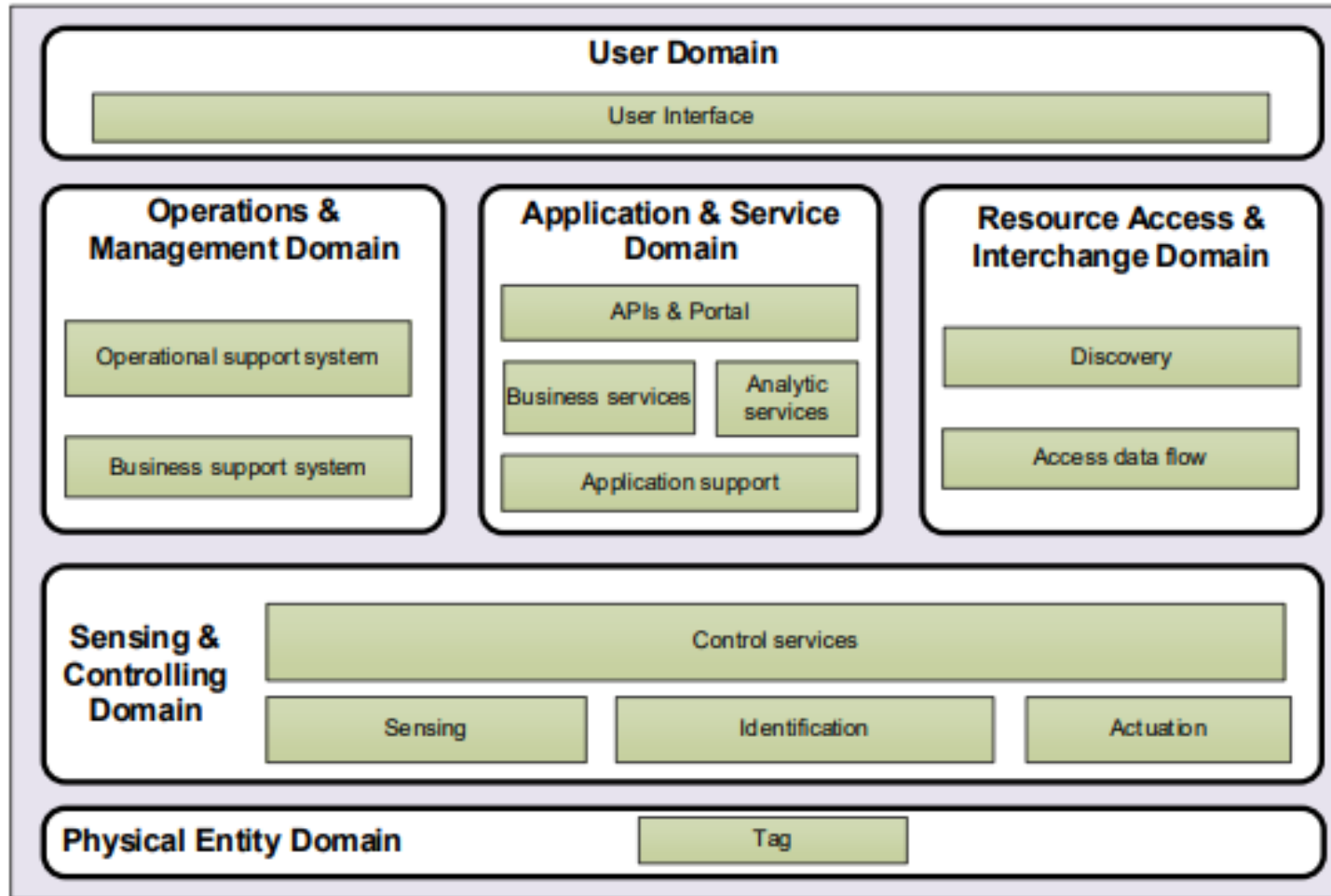


## Open standards

- W3C Web Of Things
- OGC SOSA
- OneM2M
- ETSI ngsd-Id
- Synchronicity/OASC MIM

# ISO 30141

## Domain functions

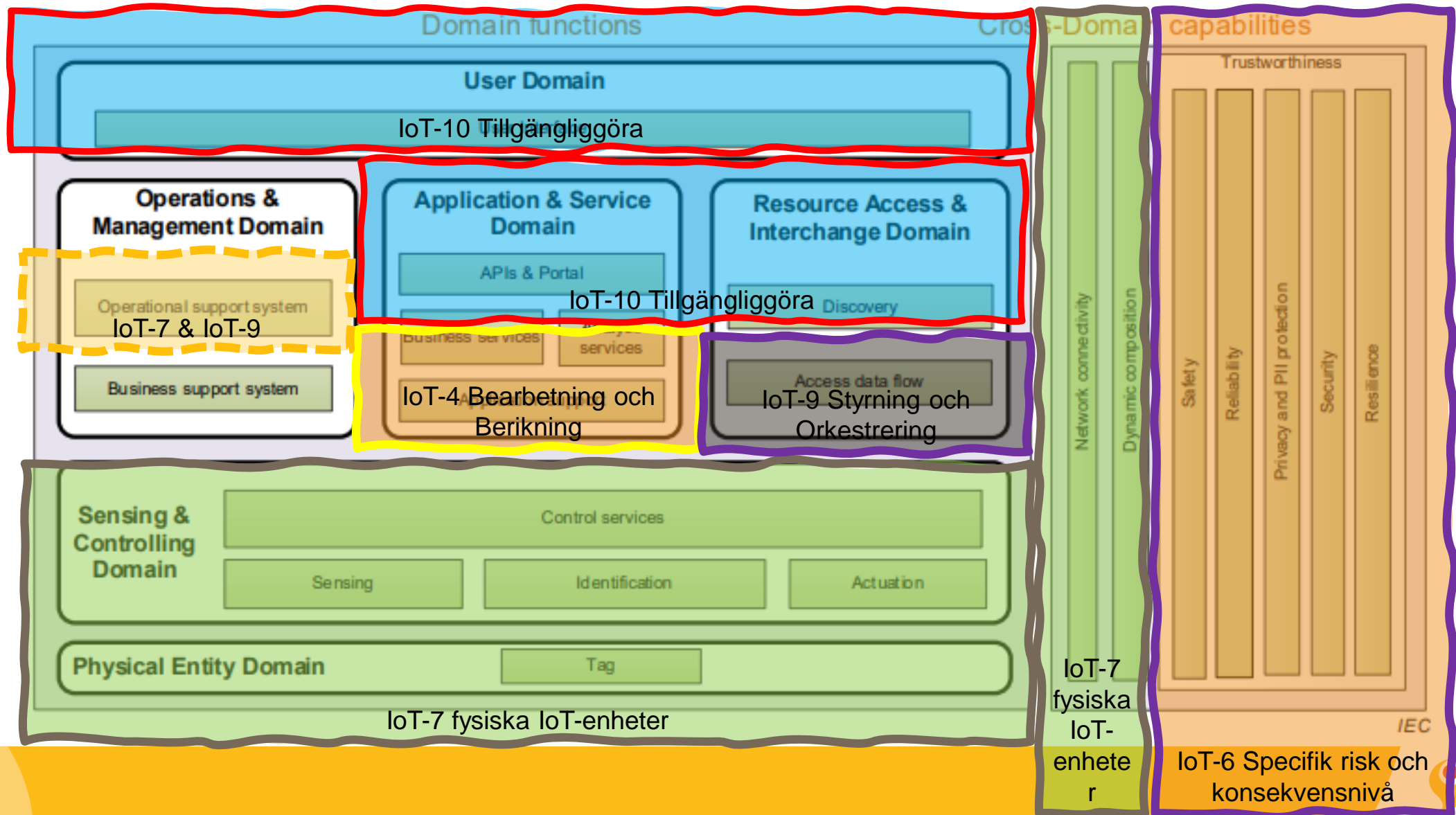


## Cross-Domain capabilities



IEC

# ISO 30141 - Ej identifierat: IoT-1, 2, 3, 5, 8



# Participants RefARK IoT

Those creating results



Followers



# Why has OASC Sweden committed this for MIM:s Plus consideration?

- We believe RefARK can contribute to OASC
- In the hope of improving the MIM:s framework
- To establish a common framework with OASC MIM:s
- Ensure that Swedish Municipalities and Regions develop IoT aligned with international best practices

# Thoughts on MIM:s and RefARK IoT

- MIM:s state minimal interoperability framework
- RefARK IoT states a "golden unreachable target" as principles
- A thought could be to restructure MIM:s and RefARK IoT according to TOGAF framework
  - Principles (relate to goals)
  - Requirements (fullfill goals)
  - Architectural Building Blocks (abstract realisation)
  - Solution Building Blocks (real realisation)

**The material can be found i  
Swedish at the link below**

[Referensarkitektur för IoT - Arkitekturgemenskap - Confluence \(atlassian.net\)](#)