

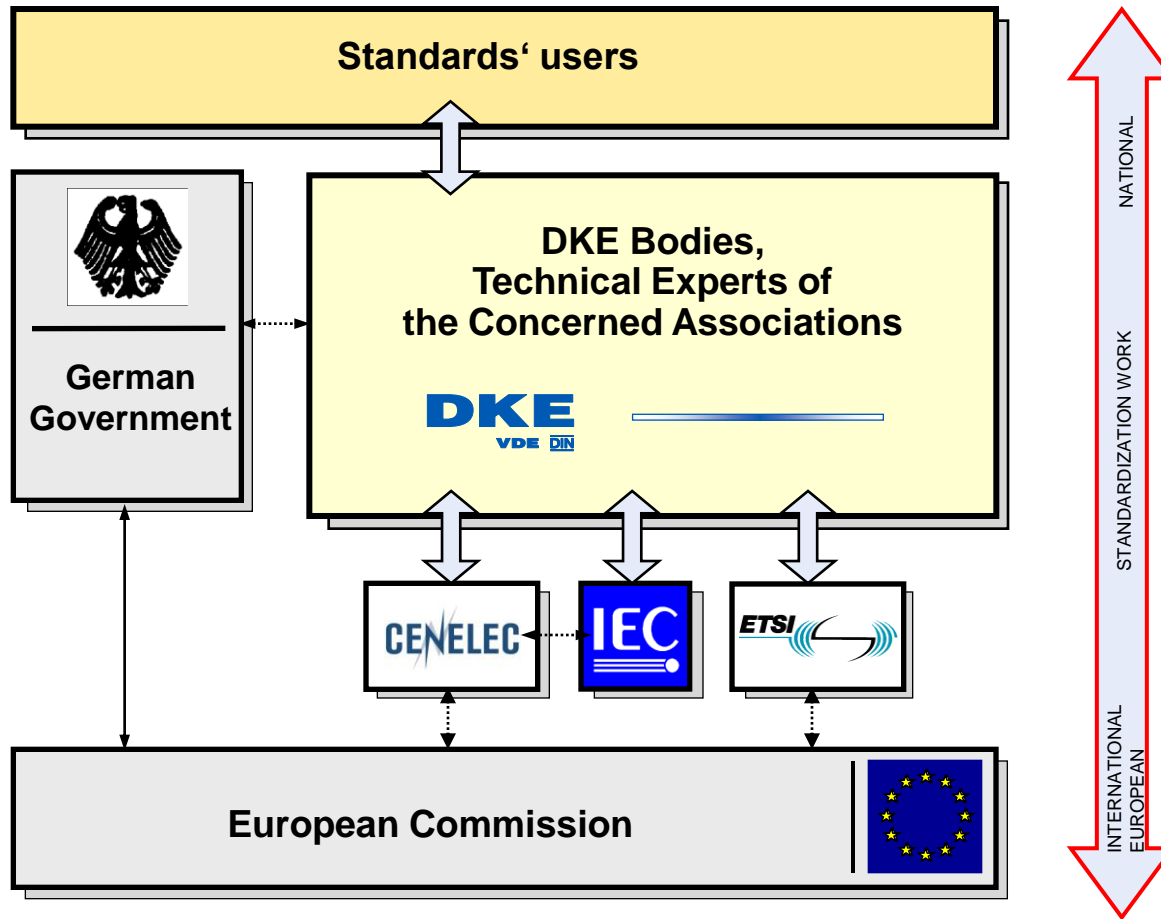
Data Center Challenges Standards Landscape Future Requirements

Bernhard Thies

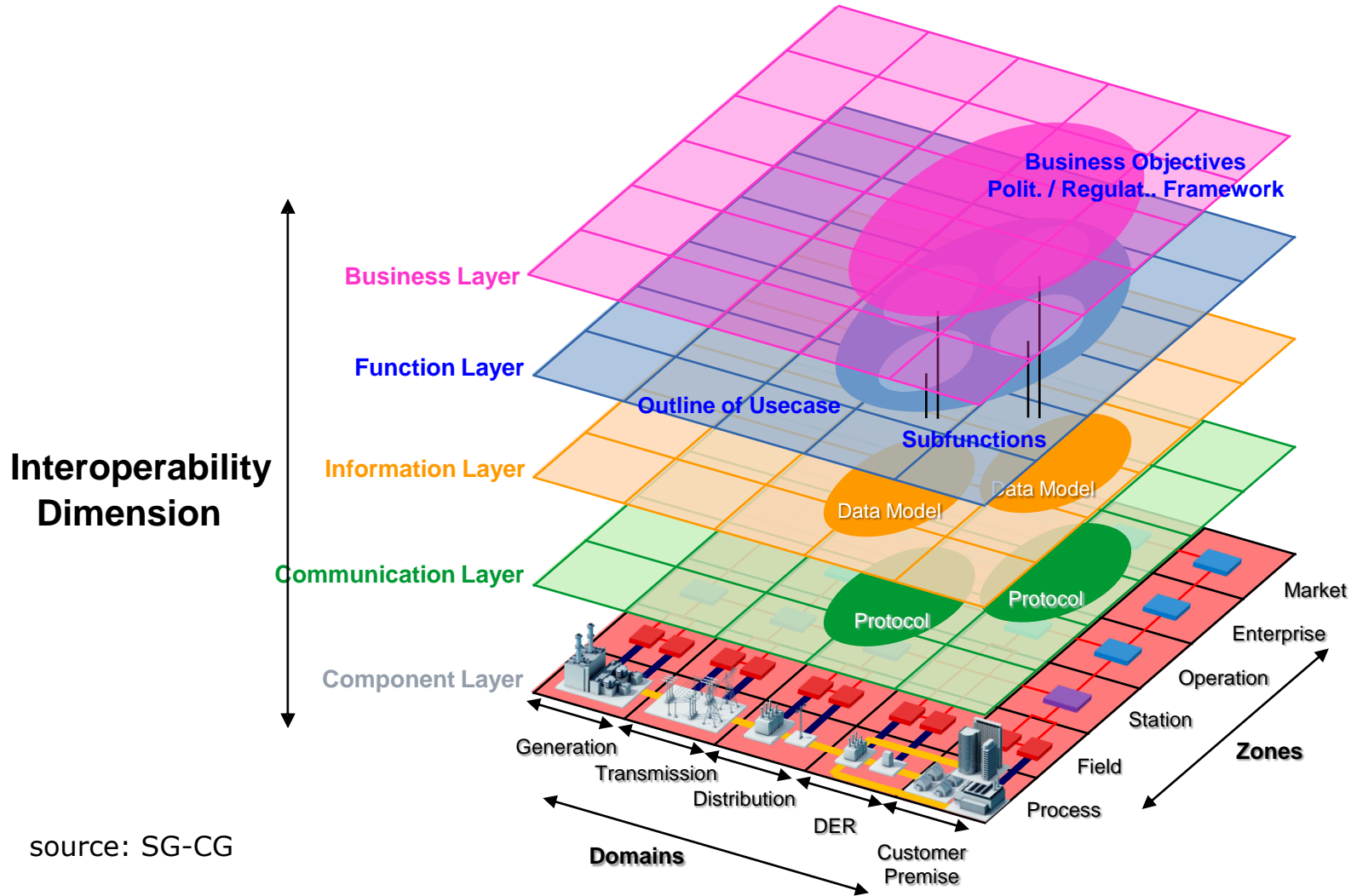
German Standardization Strategy Goals

- 1. Standardization secures Germany's position as leading export nation.**
- 2. Standardization as a strategic instrument supports a successful society and economy.**
- 3. Standardization is an instrument of deregulation.**
- 4. Standardization and standards bodies promote technological convergence.**
- 5. Standards bodies provide efficient procedures and tools.**

DKE Standardization Work in the International and European Environment

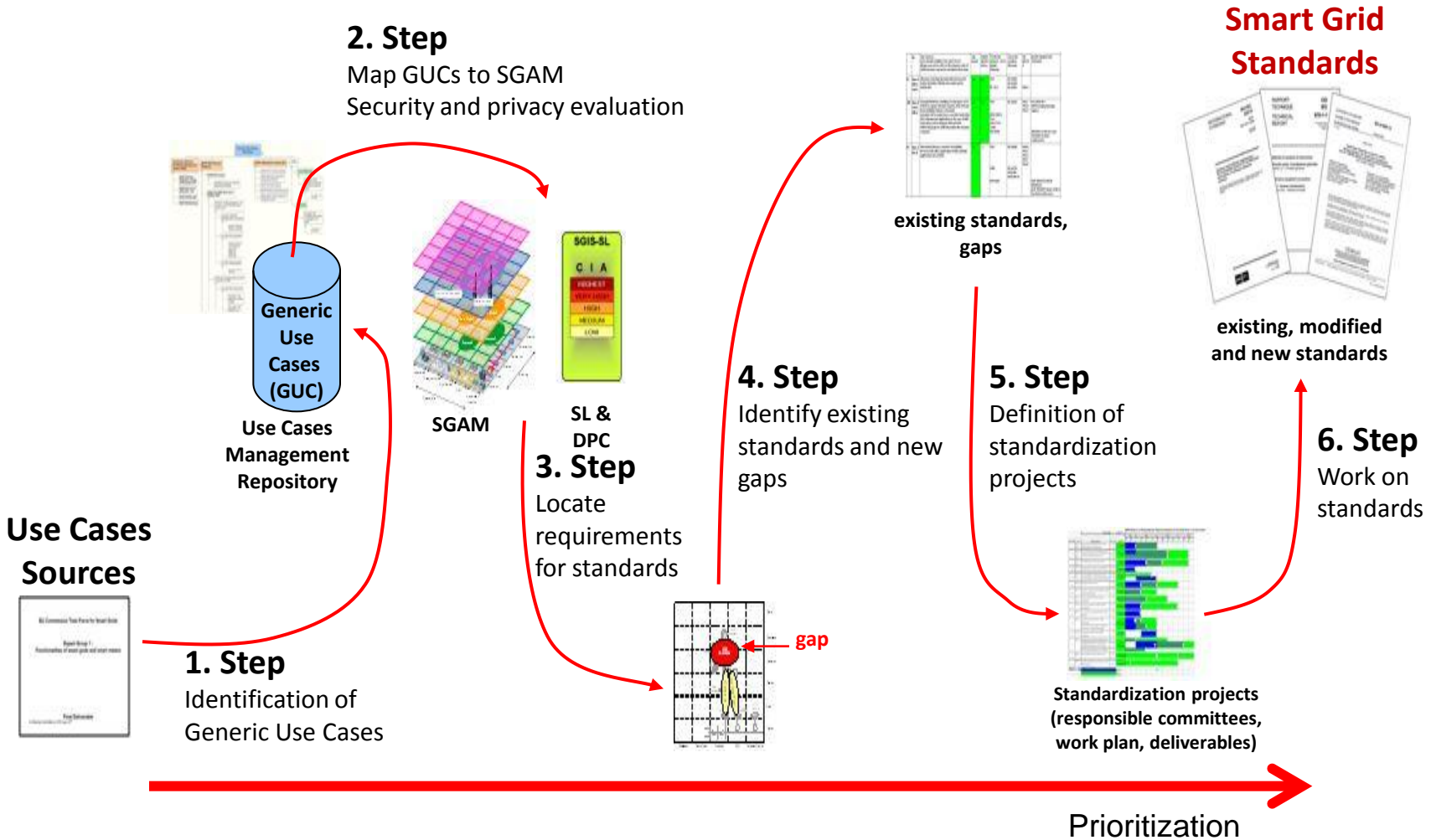


SGAM: Smart Grid



source: SG-CG

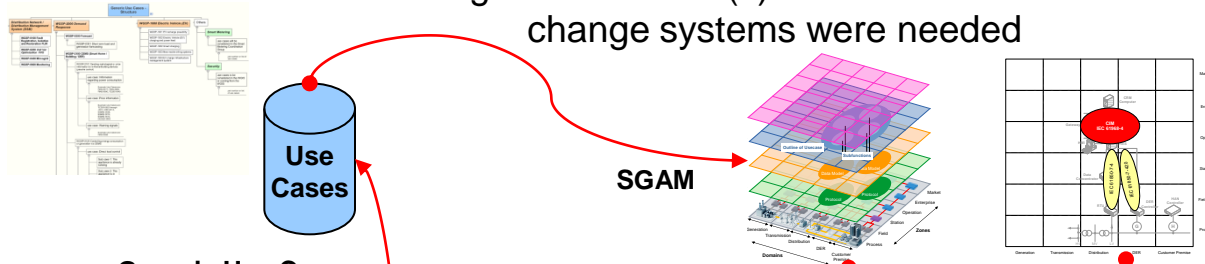
New process for standardization



Smart Grid approach related to IT security

2. Map UC on SGAM

Identify zones, domains and systems
Covering the Use Case(s). Add or change systems were needed



Generic Use Cases Repository

SGAM

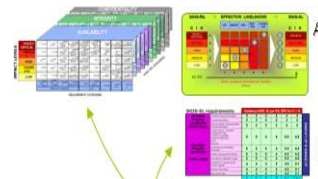
4. Identify standards

Link UC to standards and identify gaps

1. New Use Cases

Identify New Generic Use Cases from findings

SGIS toolbox

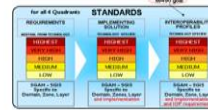


Assessment

Guidance



SELECT

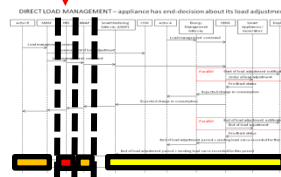


2. Step
Apply SGIS toolbox to identify SG-DPC and SGIS-SL

ID	Use Case	Standard	The specific function	Standard ID in SGIS	Standard ID in SGIS	Standard ID in SGIS	Standard ID in SGIS	Identify required work
10	Secure storage	ISO 27001	Information Security Management System (ISMS)	ISO 27001	ISO 27001	ISO 27001	ISO 27001	Identify required work
11	Secure storage	ISO 27001	Information Security Management System (ISMS)	ISO 27001	ISO 27001	ISO 27001	ISO 27001	Identify required work
12	Secure storage	ISO 27001	Information Security Management System (ISMS)	ISO 27001	ISO 27001	ISO 27001	ISO 27001	Identify required work

Standards List

3a. Link SGIS requirements



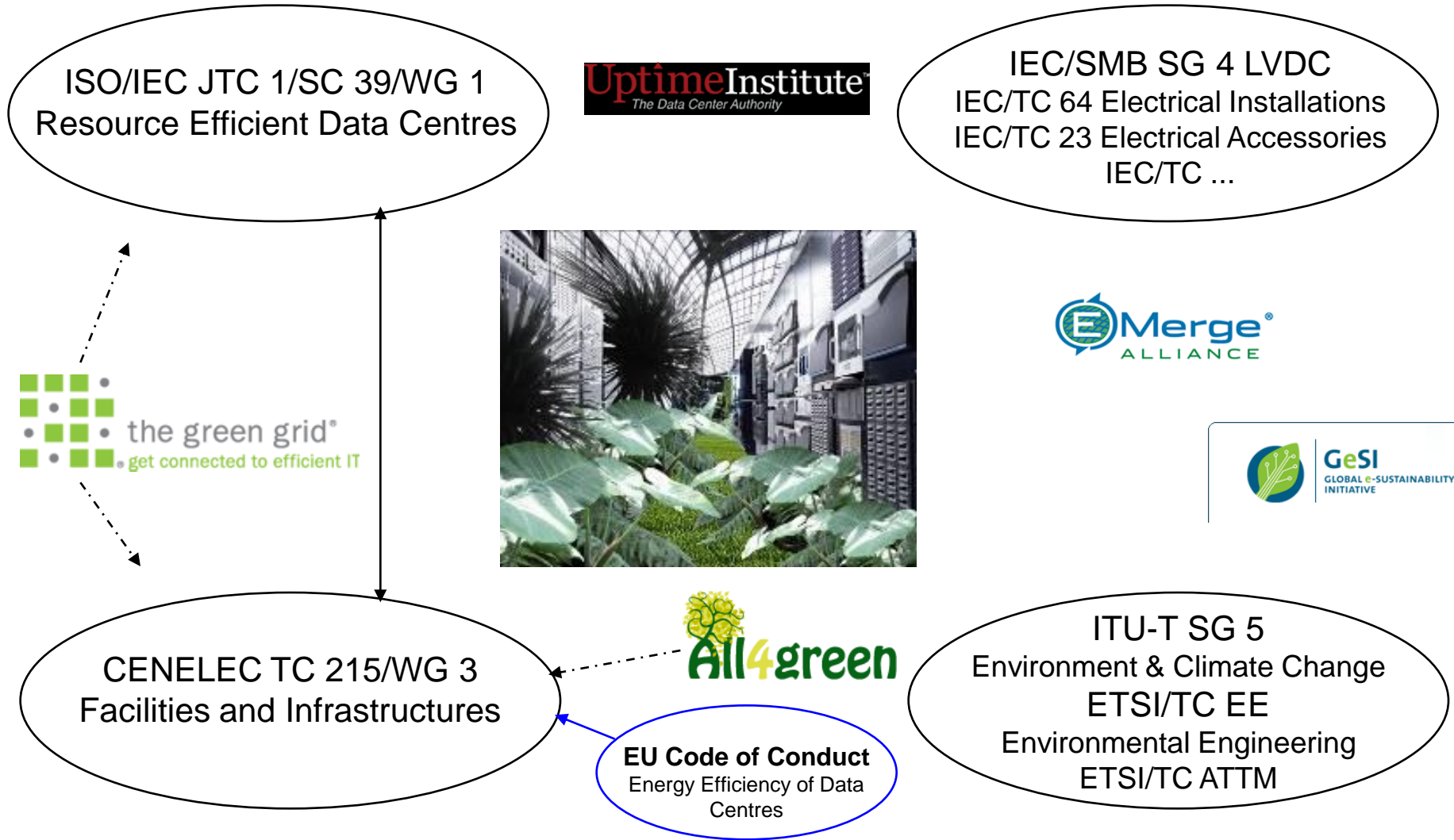
3b. Identify / modify SGIS standards

source: SG-CG

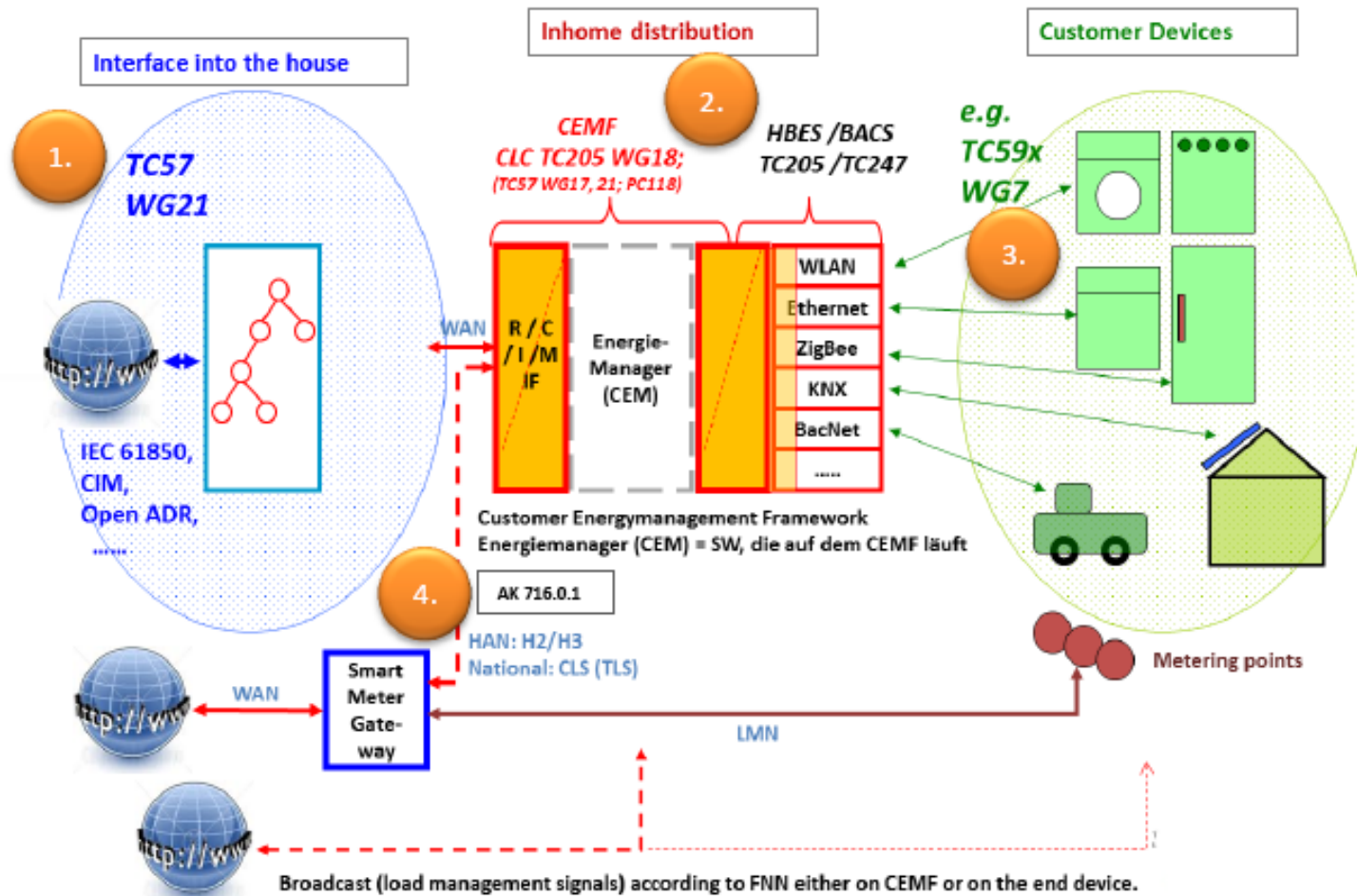
Functionalities of Smart Grids

Origins:
Regulation, R&D, Pilots, Implementation, ..

Standardization Landscape „Energy Efficient Data Centre“ (simplified view)



Standardization panels



Thank you for your attention!

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