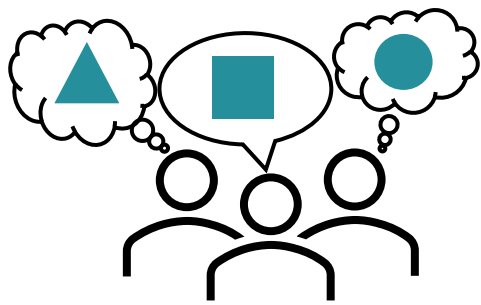


The Project unIT-e²

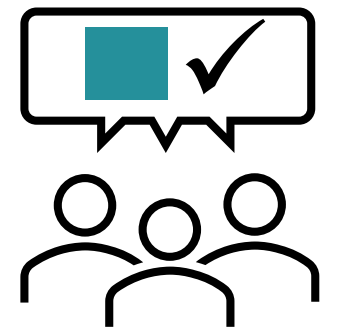
- 29 partners from automotive, energy, IT, charging infrastructure & science
- Stakeholders along the entire value chain - from EV to the energy system
- Focus on user-friendly, large-scale implementation of intelligent charging concepts
- Aim of project: holistic and interoperable solutions for further ramp-up of E-Mobility and its market and grid integration
- Demonstration of solutions in four German-wide large field trials



Challenges



- Many players with different, specific domain knowledge
- Consistent overall understanding needed for holistic solutions
- Differing perception of roles and obligations
- Lack of agreement on what to be tested and implemented
- Limited project time requires fast and effective approach



-> unIT-e² Use Case Methodology

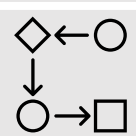
Deduction of two use case „levels“: Business and Technical Use Case (BUC/TUC)
Standardized templates for description and visualization for BUC & TUC

Approach

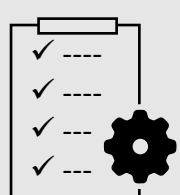
- Adapt existing methods and standards
 - Experience from previous projects
 - Systematic description
- Uniform level of detail
 - Use of icons & visual representation
 - Text: as little as possible, as much as necessary



Use case identification



Basic concept



Process and system
description

Business Use Case

Who is involved? Who gets added value?
What are the relationships? Which laws must be considered?

Technical Use Case

Necessary components? What information is exchanged?
How are processes designed? Which standards/norms exist?



- Identification of 25 BUC
- Categorization by incentive signal
- Different TUC for one BUC possible
- Different degrees of implementation
- Combining BUC/TUC -> system architecture
- Systematic assessment of the combination possibilities of use cases

