Need and requirement analysis and integration – Balancing method and methodology

Background, motivation and focus

Profound goal

Improving mobility

Prototypes of mobility systems

> Improving situation in urban areas

Hybrid services

Increased value for individuals, society and economy

Challenges

Required need, requirement and demand analysis and integration

Complex systems of needs, requirements and demands

innovations

requirements and demands Required acceptance of

Tacit non-effable needs,

Solution

Need, requirement and demand analysis and integration approach

Transdisciplinary

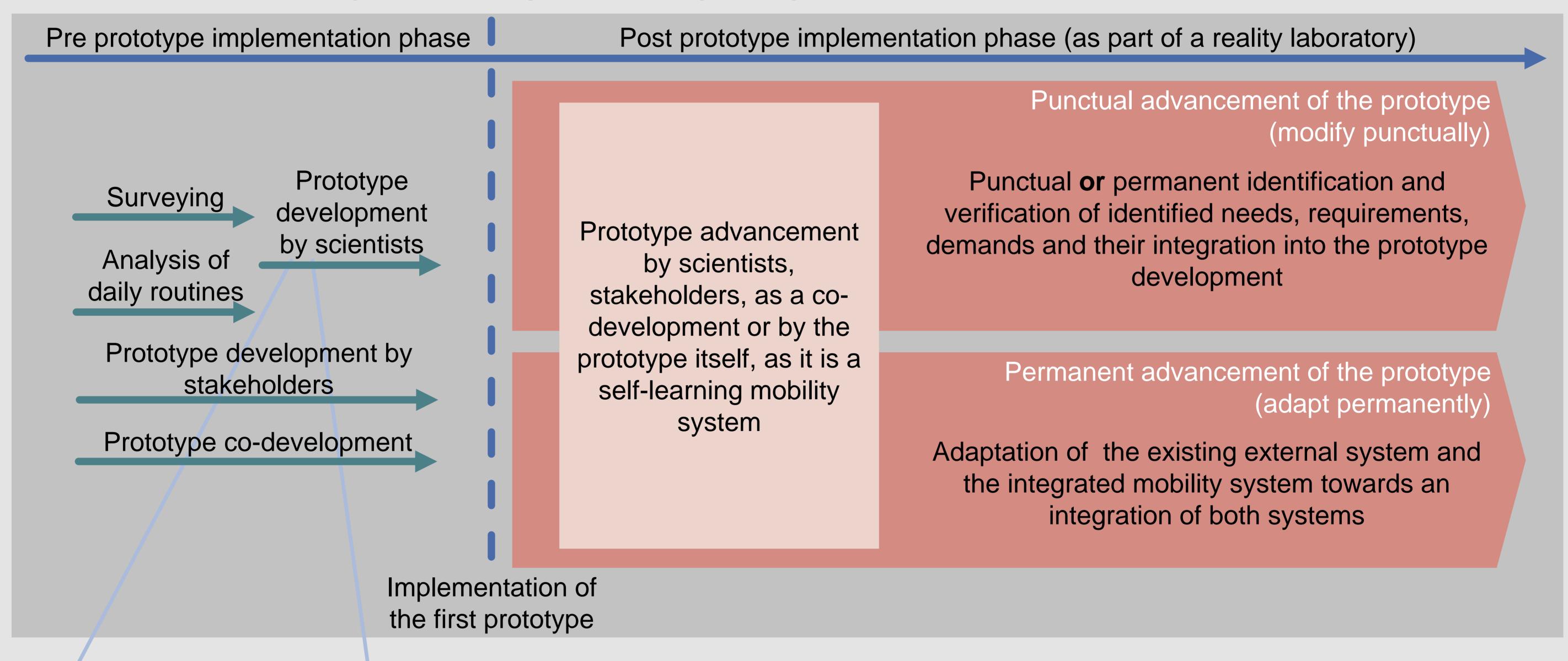
approach Practice oriented research projects

Integration of different scientific disciplines

> Integration of stakeholders as equal problem solver

Method is defined as concrete activities when following an approach. Methodology is defined as theory and ways of thinking behind the execution of methodical activities.

Approach of collecting, analyzing, and integrating needs, requirements, and demands



Experiences in balancing methodological and methodical focus

Focusing on method over methodology (example of a morphological analysis)

- Required steps have been carried out
- Two types of results
- Before expected, losing creativity and stakeholder orientation
- System changing, in favor of stakeholder orientation
- Thinkable options have been considered but the thinkable differed

Focusing on methodology over method in the development of an approach

- Purely theoretical approach
- Hardly practice-oriented approach
- Difficult to use the approach in practice oriented research projects

Analysis and implications for further development and further research

Assumption

Different disciplinary and personal backgrounds

Different mindsets and ways of thinking

Different and possibly contradicting results with the same method

- Important issue in transdisciplinary research projects since they integrate different backgrounds
- Amount of adequate focus on methodology depends on the different ways of thinking of participating actors and methodologies behind used methods
- Small sample requires further investigation of experienced phenomena

