



Scenario Tool for Network Investments

Water PiPP

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Our Vision for Pre Investment Analysis Tool

General:

- Supporting the strategic planning and principal decisions
- Focused on water distribution and sewer systems
- Based on maps: regions and major pipelines
- Tool for a long term capacity sketching
- Tool for tackling future uncertainty: finding the most resilient solutions
- Need to find interdependencies between various plans and projects
- Need to find the correct execution order for interdependent projects

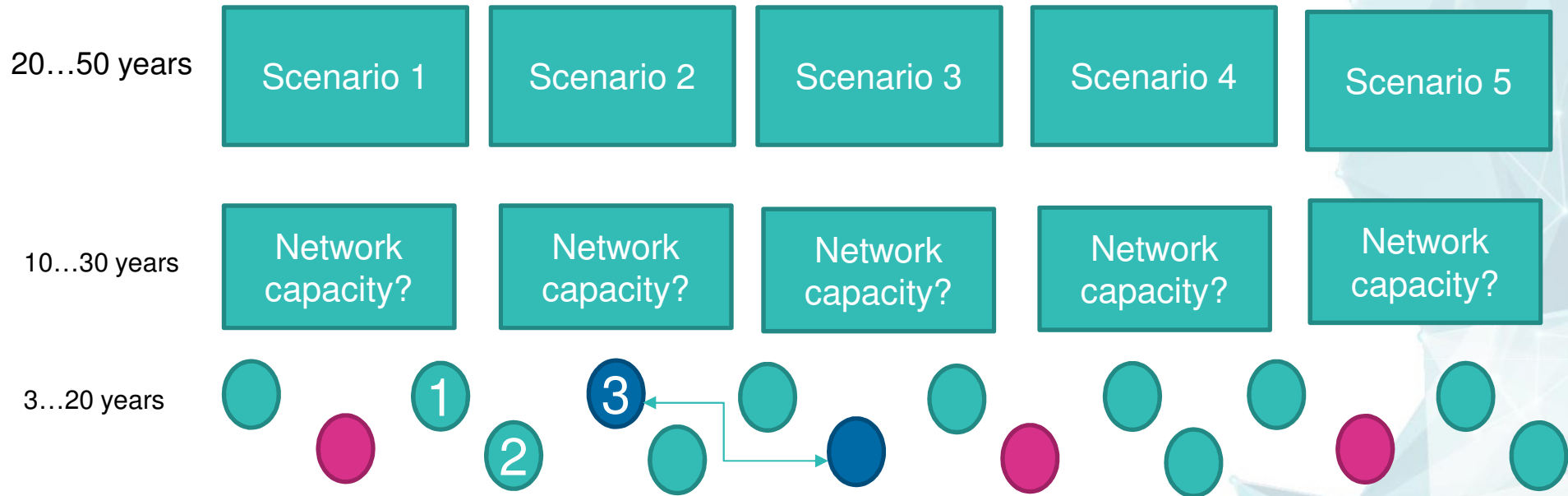
Features:

- Future Scenarios – timeline and alternative futures
- Network capacity analysis for various scenarios
- Identification of the investment needs
- Interdependencies between investment needs and rough scheduling
- Updating and adjusting the forecasts



Features for Scenario Tool

Adjustable Parameters: Local water usage, Population forecast, Changes in the network capacity, Expected residual pipeline lifetime, Year of planned investment



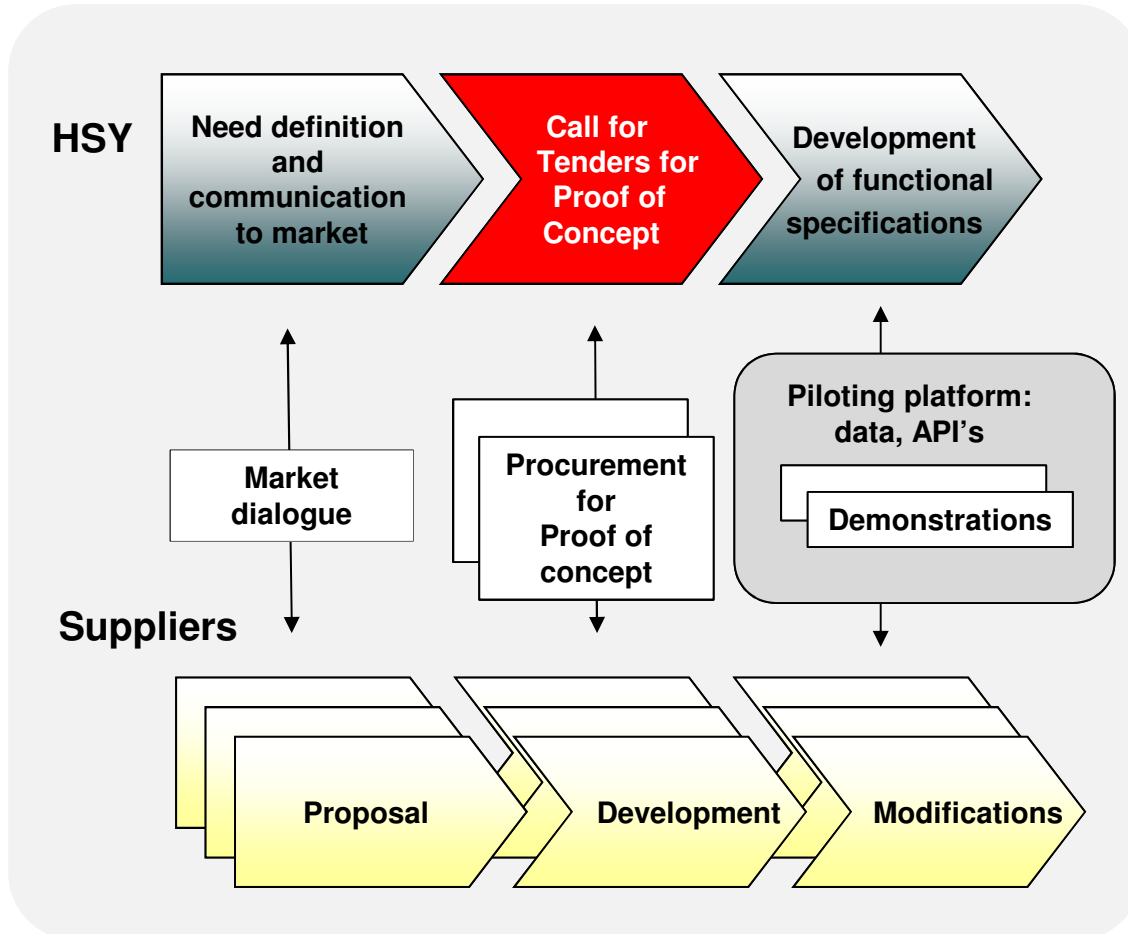
- How do the scenarios affect the capacity needed?
- Capacity analysis generate the investment needs. Which of the investments would bring the most resilient solution, feasible for many scenarios?
- How to find inter-dependencies between investment needs?
- Which forecast will be selected?

The Project at the Moment



Innovation procurement model for HSY Smart Water

Project scope:



Outside the project scope:

