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# Roadmaps



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## Persuing the objectives.....

Lowest possible overhead for users when operationalizing new functionality

Lowest possible overhead when SINTEF integrate new functionality

Lowest possible overhead when SINTEF increase the developer capacity



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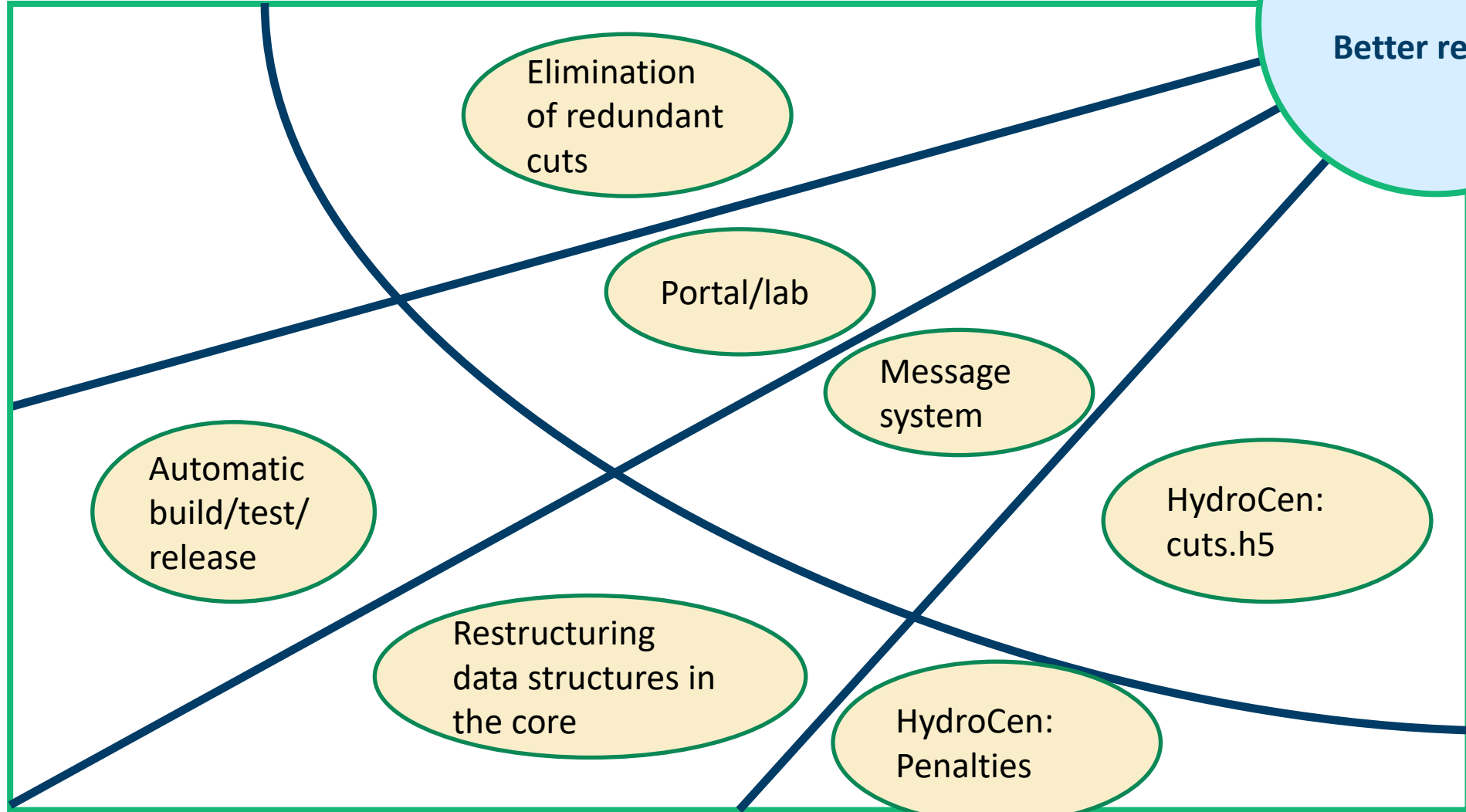
2022.03.23  
V10.3

2022.11  
V10.4

# ProdRisk Roadmap

Functions

System adaptations



Restructuring

From research

Lower overhead  
Better results

Elimination of redundant cuts

Portal/lab

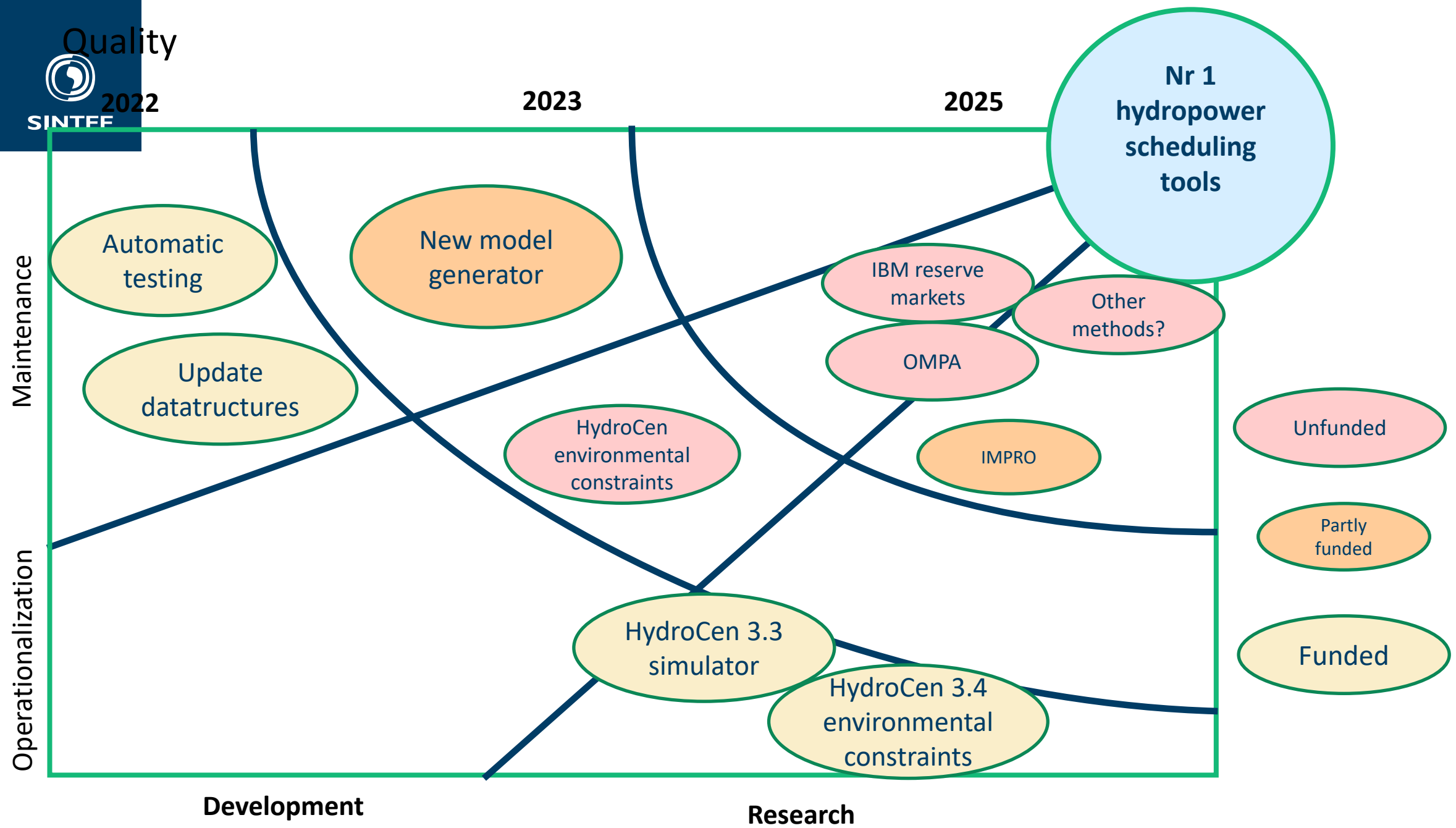
Message system

Automatic build/test/release

Restructuring data structures in the core

HydroCen: cuts.h5

HydroCen: Penalties





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2022.03.23  
V10.3

2022.11  
V10.4

Lower overhead  
Better results

Functions

Include missing input functionality in V10

Improved automatic testing

Improved documentation

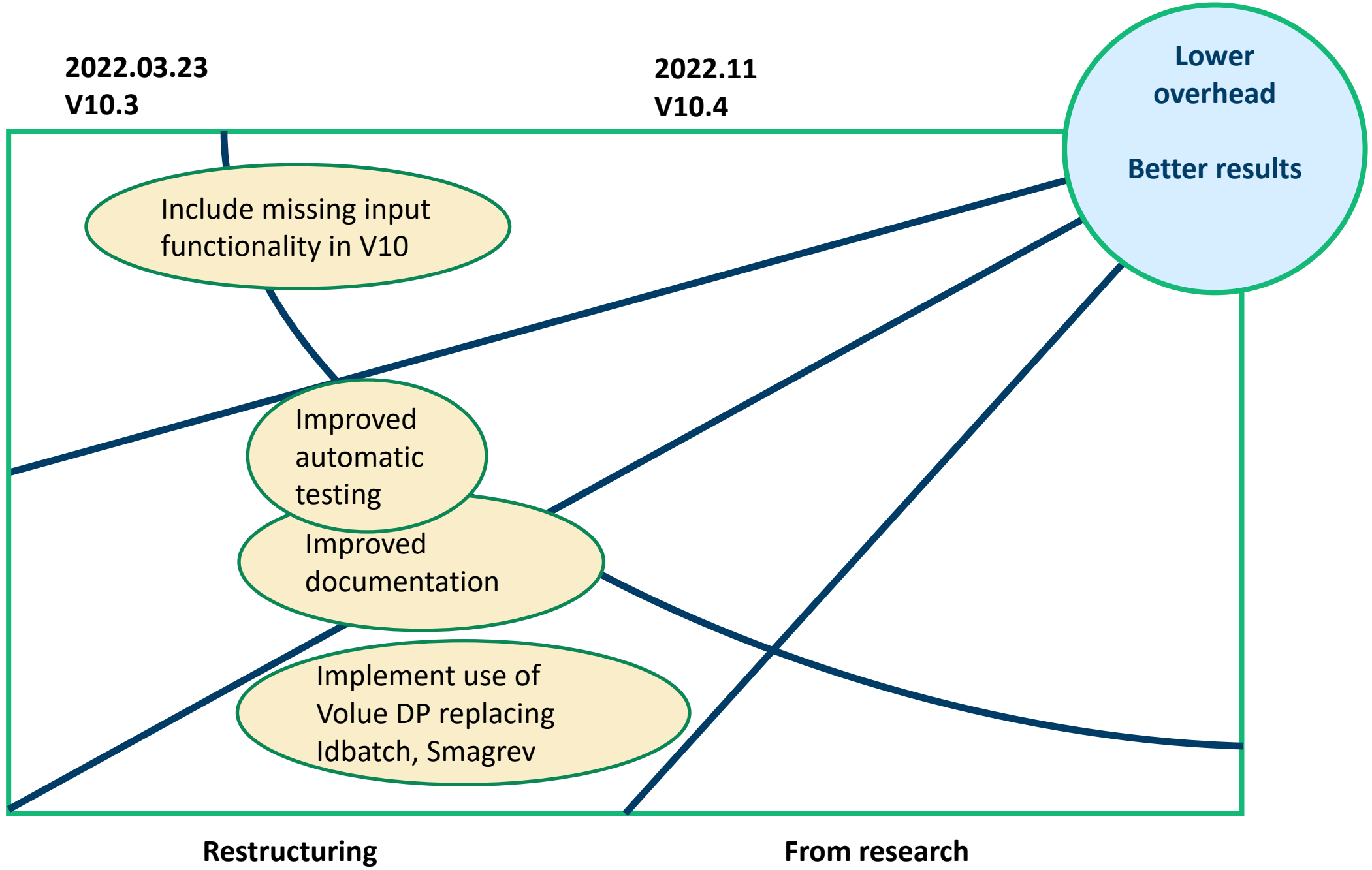
Implement use of Volue DP replacing Idbatch, Smagrev

System adaptations

Restructuring

From research

# LTM Roadmap





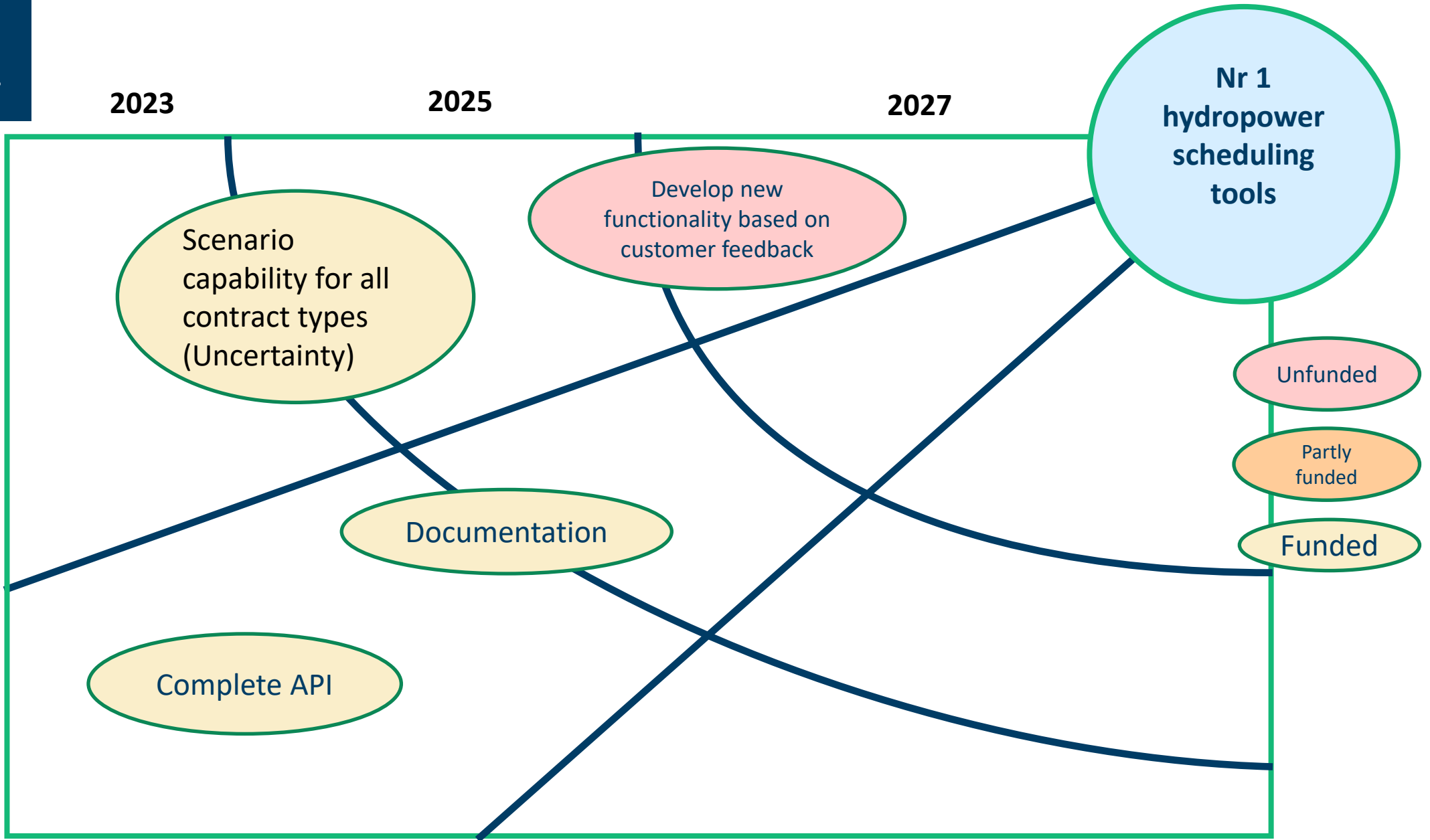
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2023

2025

2027

Development



Nr 1  
hydropower  
scheduling  
tools

Develop new  
functionality based on  
customer feedback

Scenario  
capability for all  
contract types  
(Uncertainty)

Documentation

Complete API

Unfunded

Partly  
funded

Funded

Maintenance

Research

# LTM Roadmap



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# Strategy for SHOP development

Easy to operationalize new functionality

Easy to integrate new modules into SHOP

Easy to increase development capacity for SHOP

Robust

Consistent

Well documented

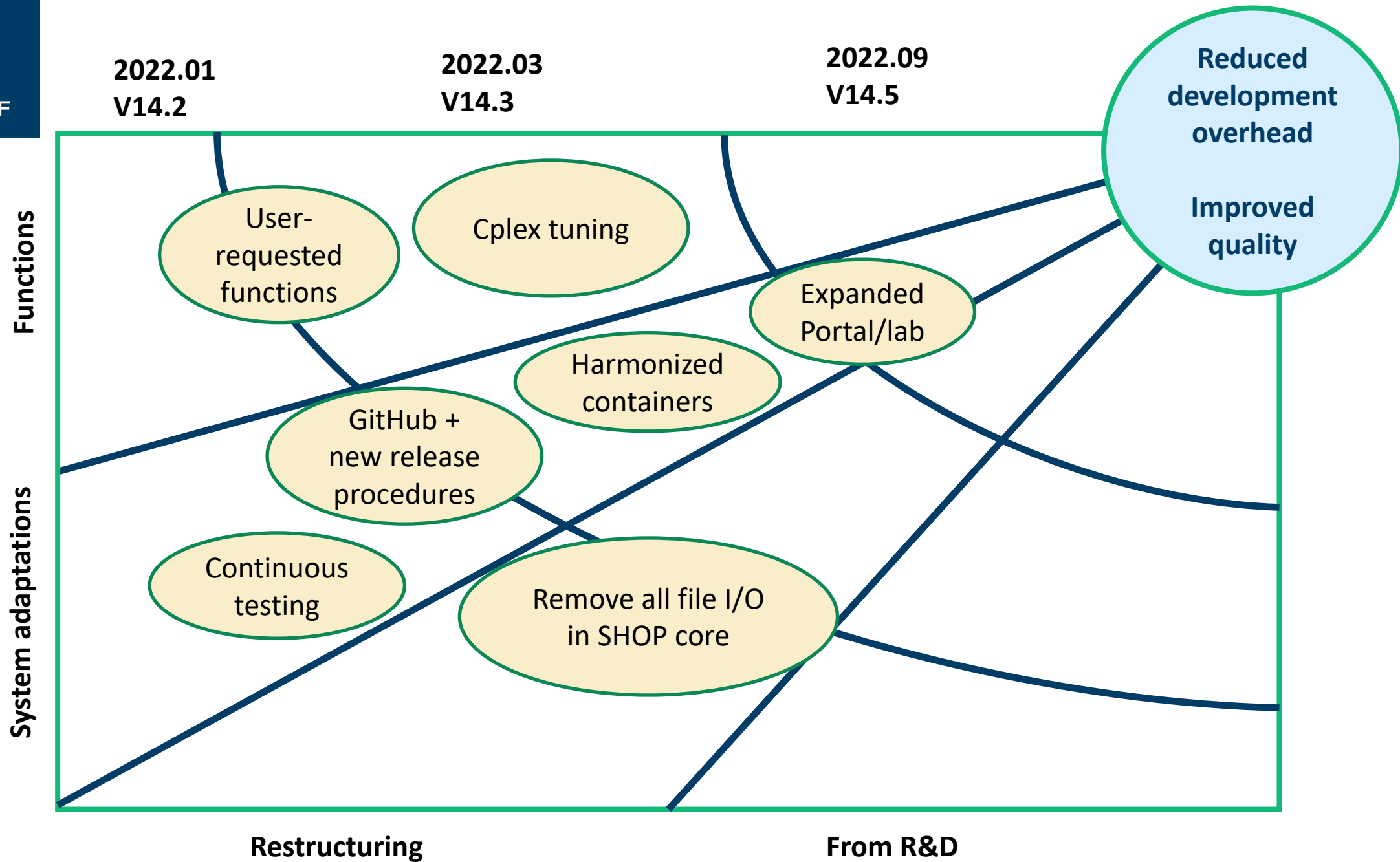
# Roadmap and release of SHOP 14.5

- SHOP 14 is now defined as stable, and is the main version of SHOP
- Latest version is SHOP 14.0.2.5, released 02/11-21
- SHOP 14.1 to be released next week
  - LP model exposed in API
- SHOP 14.3 to be released on 01/03-22
  - River module
  - GitHub + Updated release procedures and continuous testing
- SHOP 14.5 to be released on 01/09-22
  - Prioritized new development
  - Move non-essential code from the SHOP core to outside of API
- Workshop with IBM on Cplex tuning





# SHOP Roadmap

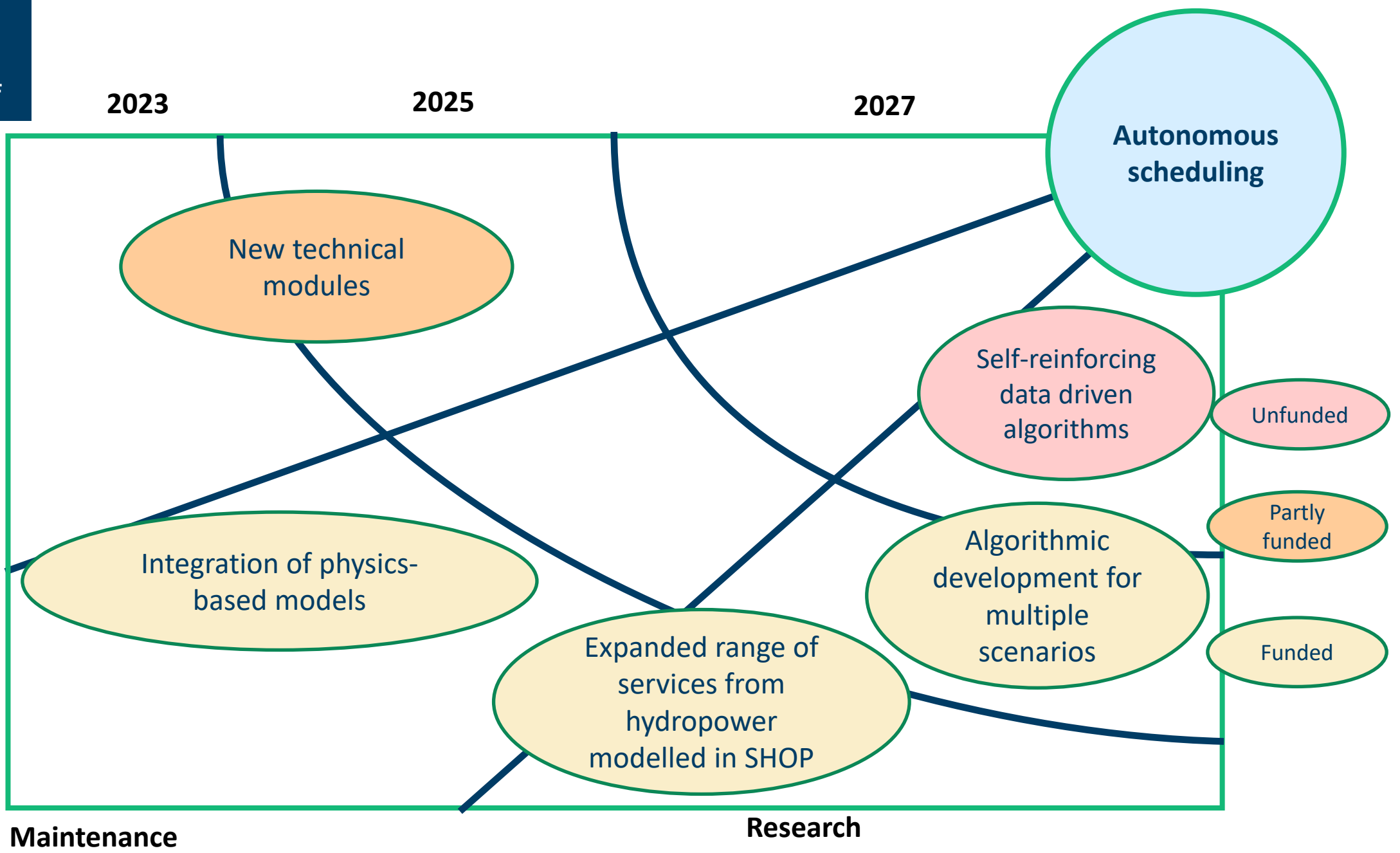




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# SHOP Roadmap

Development



Maintenance

Research

2023

2025

2027

Autonomous scheduling

New technical modules

Integration of physics-based models

Expanded range of services from hydropower modelled in SHOP

Self-reinforcing data driven algorithms

Algorithmic development for multiple scenarios

Unfunded

Partly funded

Funded



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Technology for a  
better society