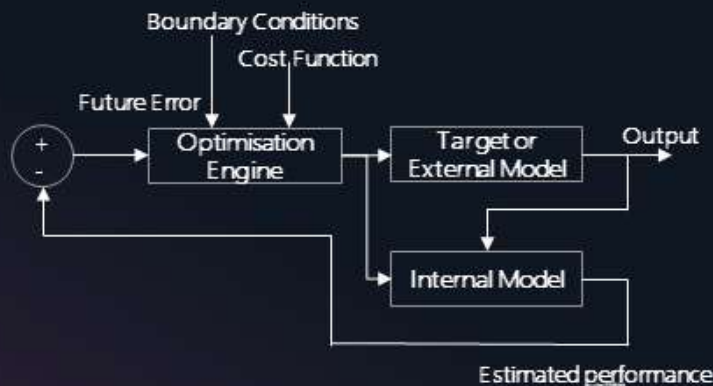


# BeProAct and Model Based Predictive Control for Wastewater Collection Systems

RTC4Water's Core Technology is Model Based Predictive Control



Technology	Overflow Reduction (Load)
Without MPC	0
With Volume Based MPC	10-30%
With Load Based MPC	20-50%

Notes:

- The Model developed can also be used for “Digital Twinning”
- A Digital Twin can be used for Asset Management
- The “Health” of an MPC controlled System can be captured with only a few variables using something similar to “feelings”
- Networking of MPC systems (Water and Wastewater MPCs) and integration of weather data allows detailed forecasting using AI technologies

Interreg



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North-West Europe

BEPROACT

Building an ecosystem to proactively develop data-driven asset management

*Towards More Data Driven Asset Management*

**RTC<sub>4</sub>Water**  
Real Time Control of Water Infrastructure