

# SMARTER WATER

How Ramboll applies AI in the water sector.

**RAMBOLL**

Bright ideas. Sustainable change.

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# Water suppliers: predicting consumption

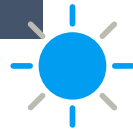


# An AI-powered prediction from many data sources

Public  
data



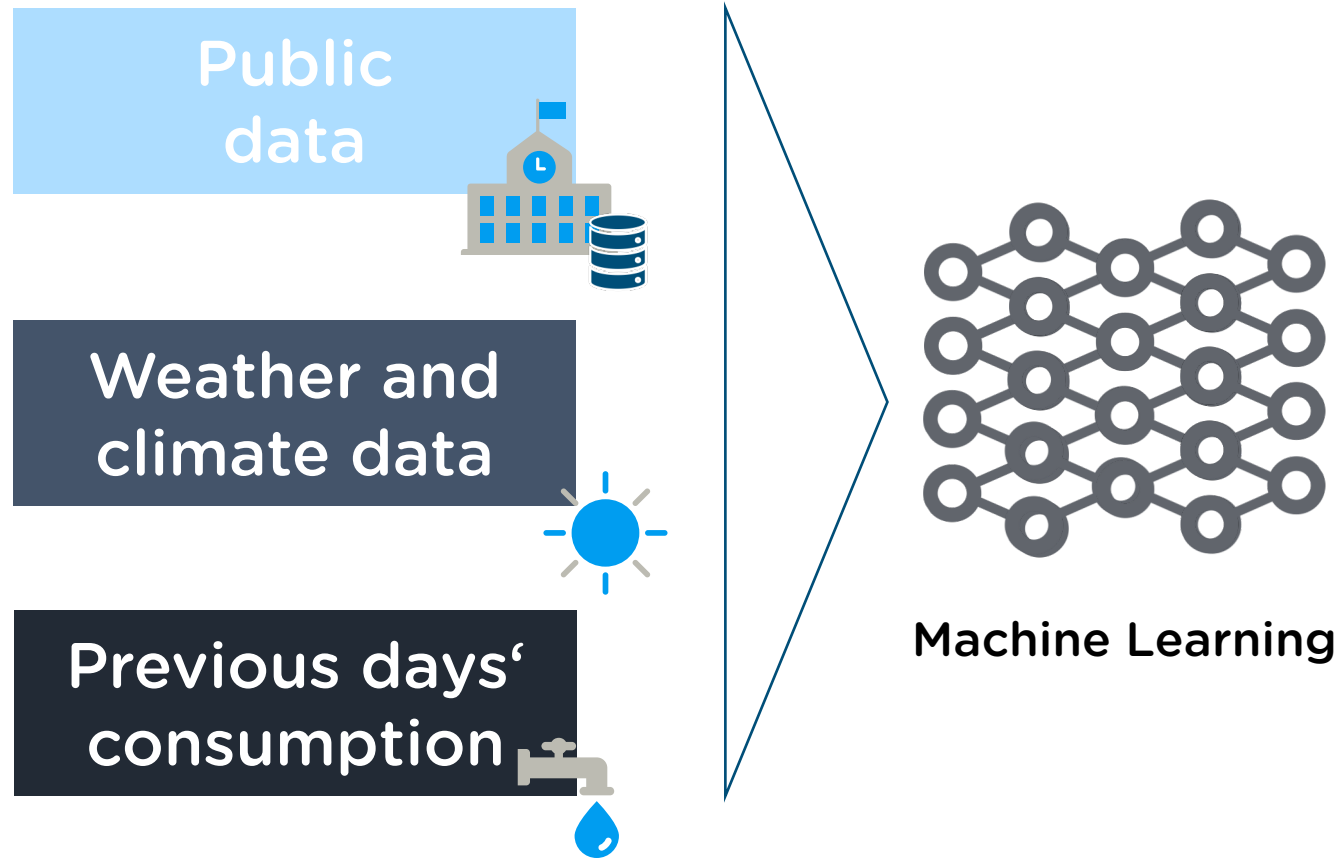
Weather and  
climate data



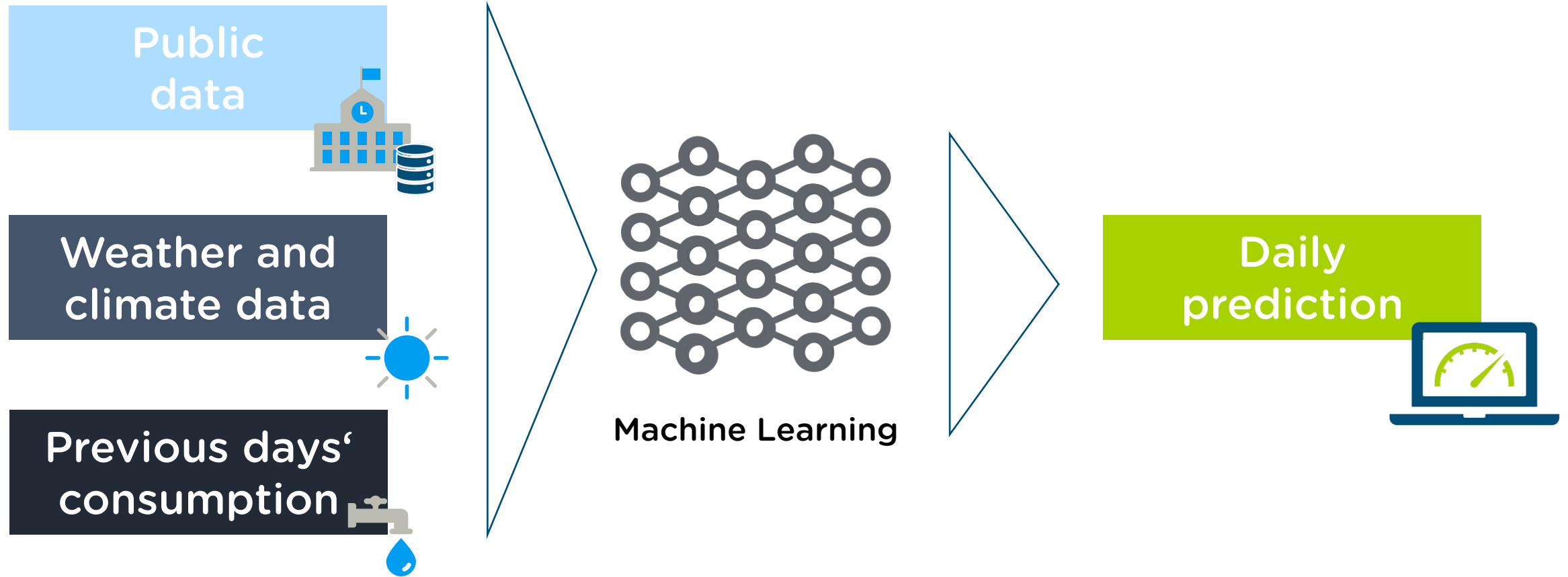
Previous days'  
consumption



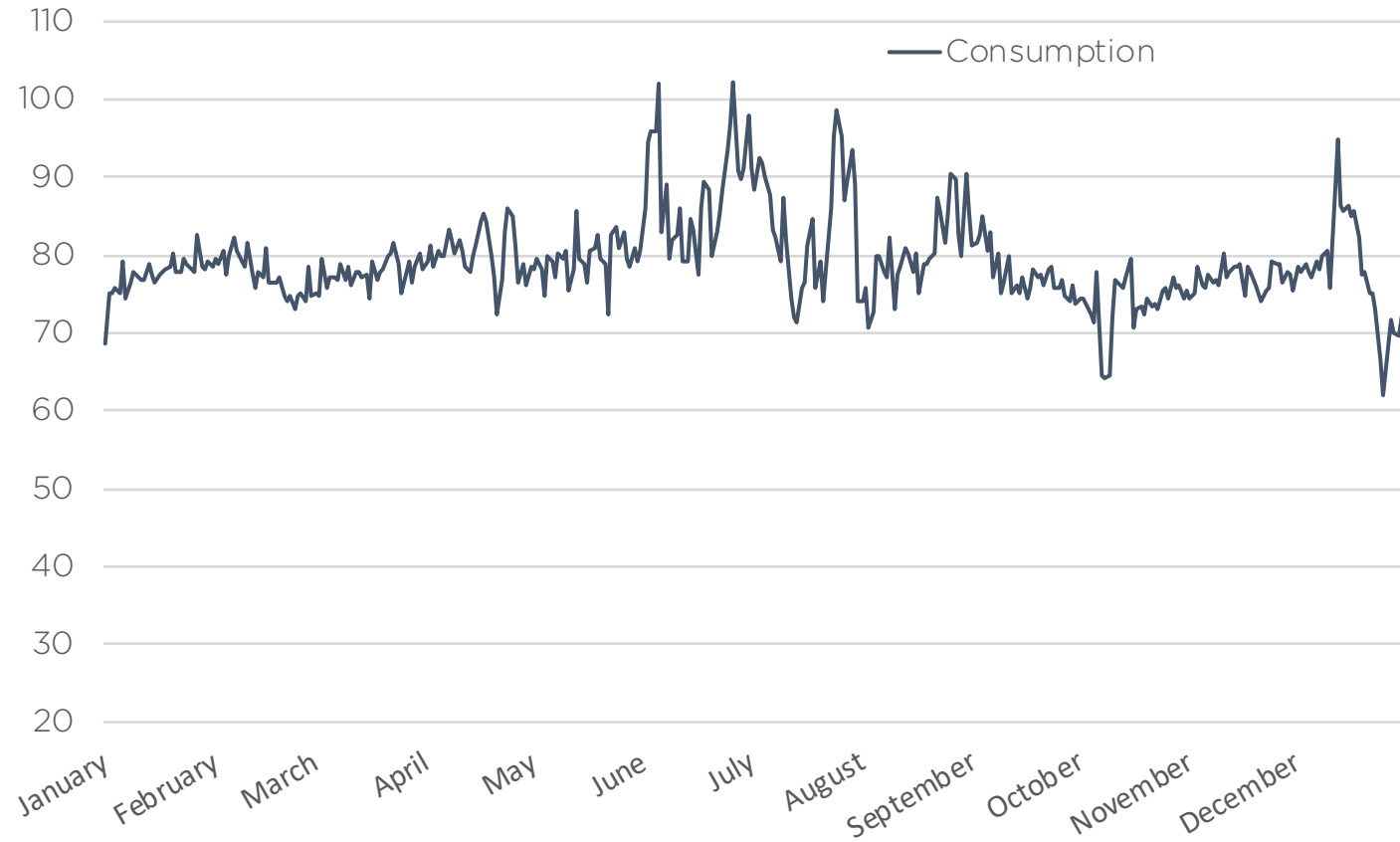
# An AI-powered prediction from many data sources



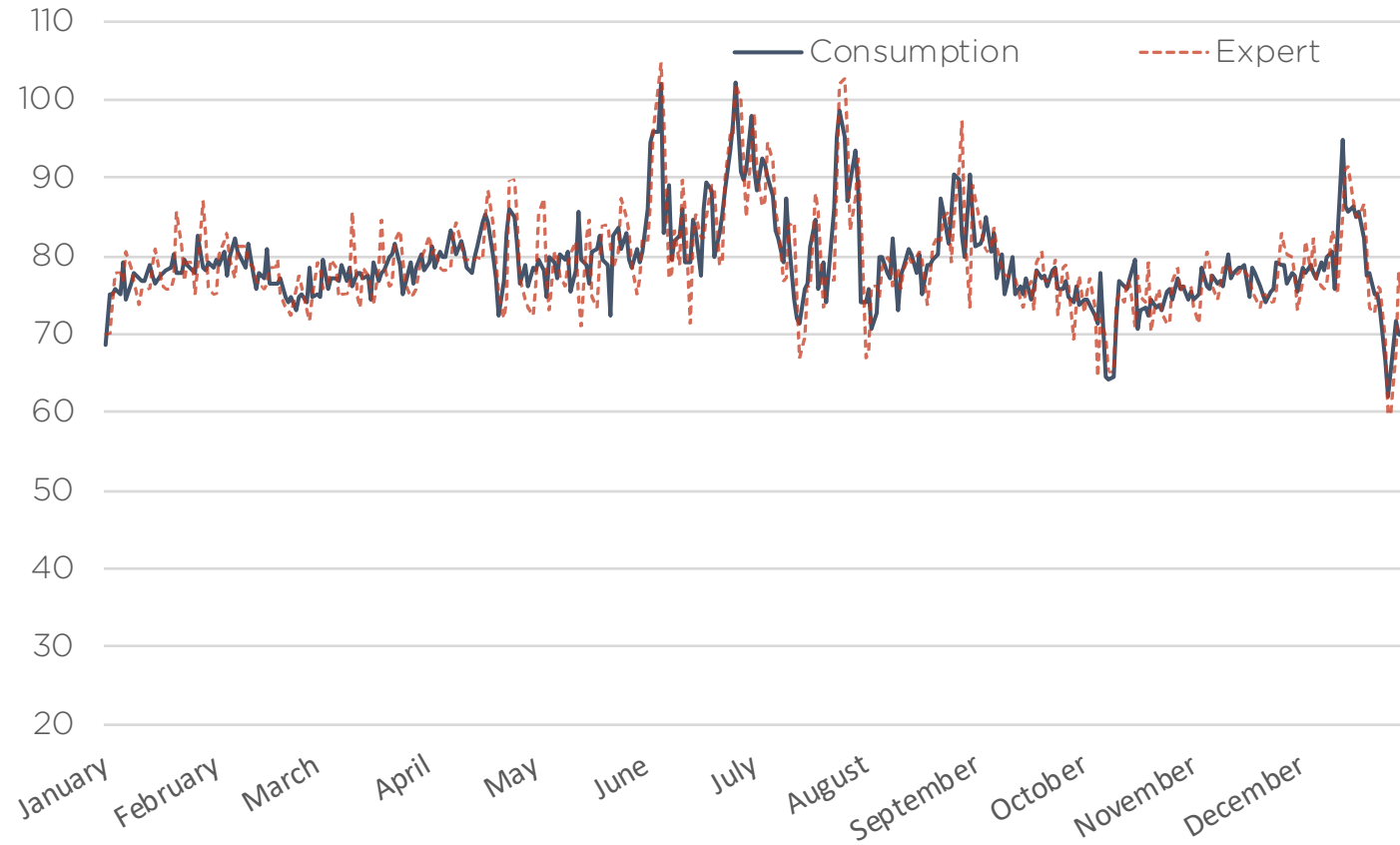
# An AI-powered prediction from many data sources



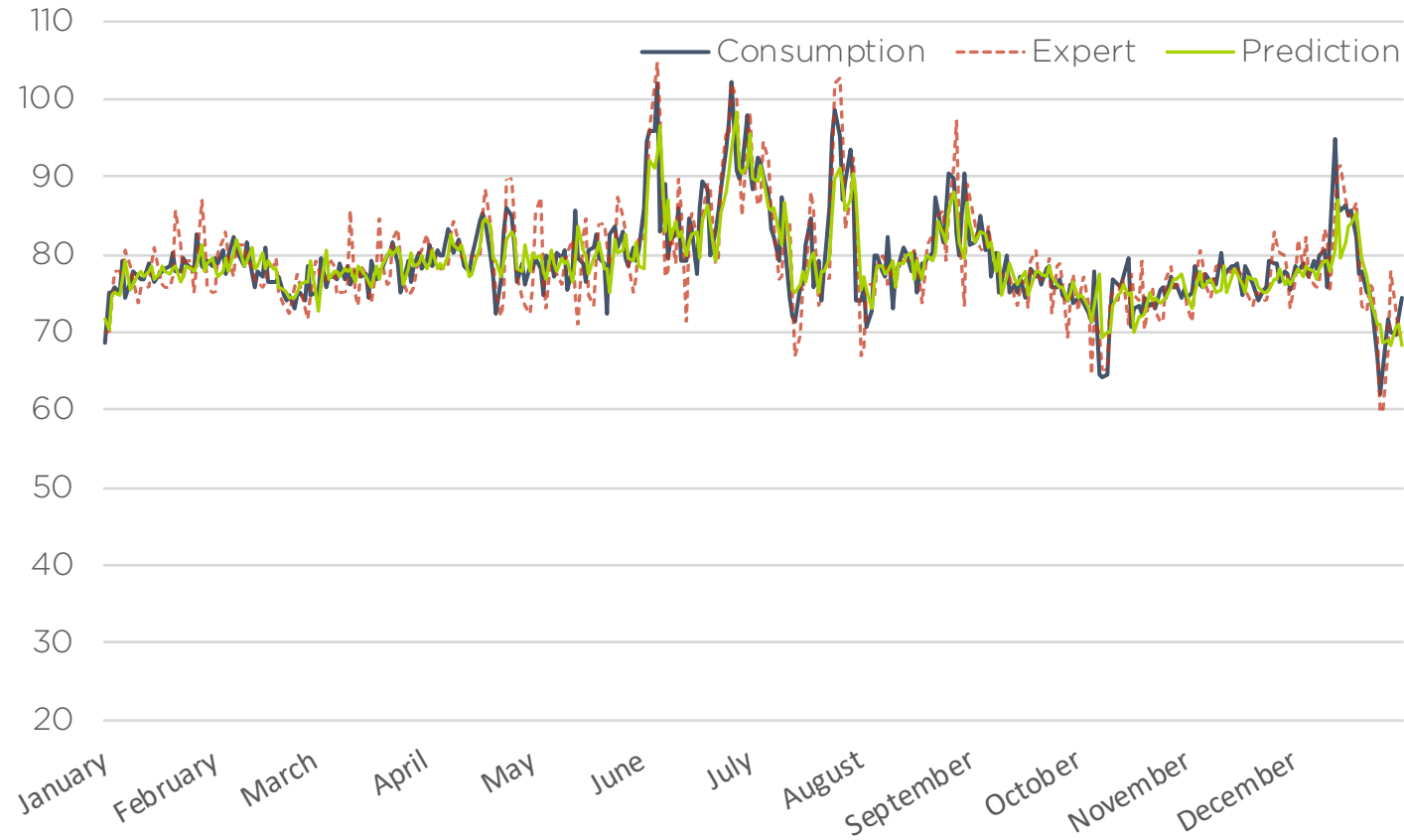
# Our daily prediction matches the human expert



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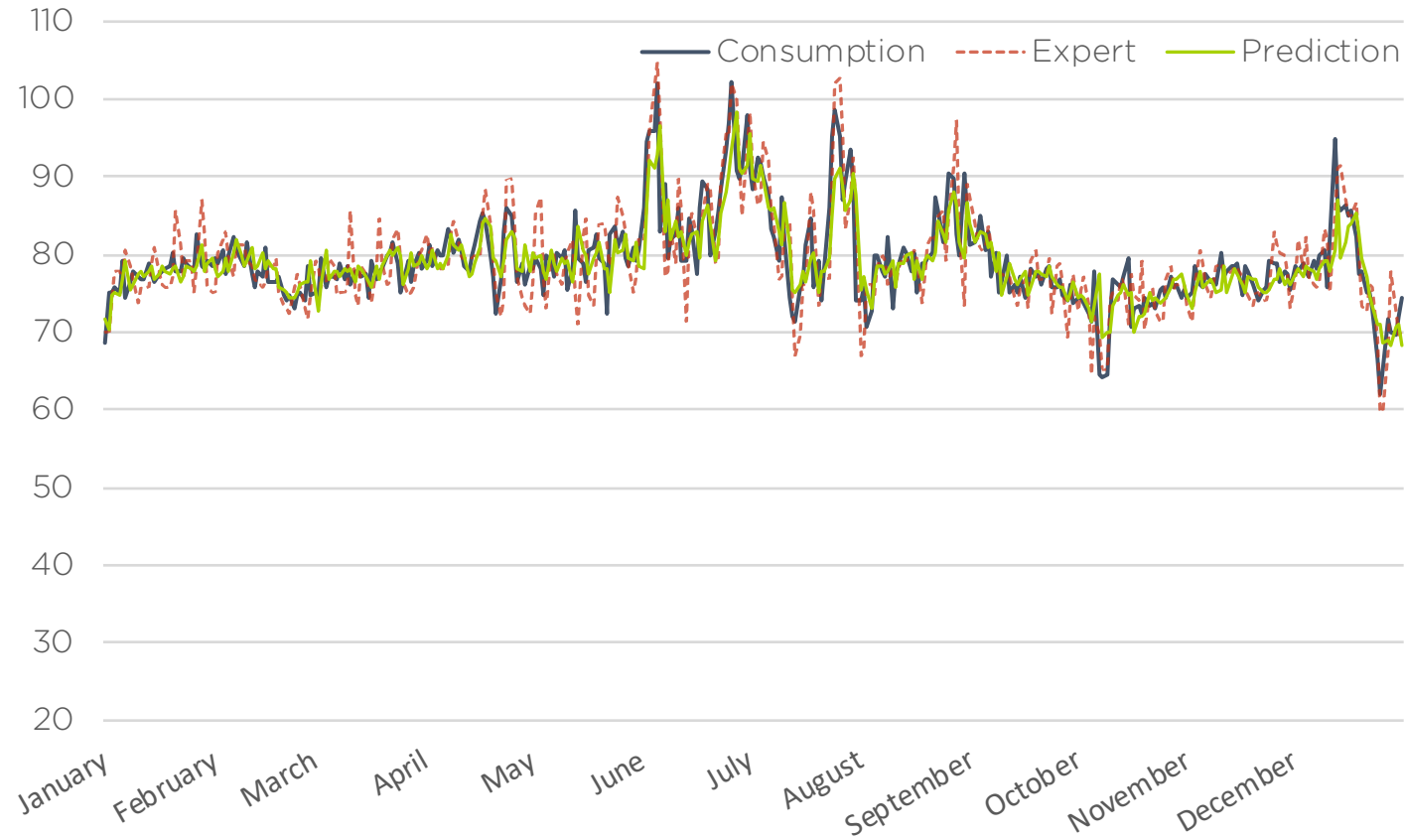


# Our daily prediction matches the human expert





# Our daily prediction matches the human expert



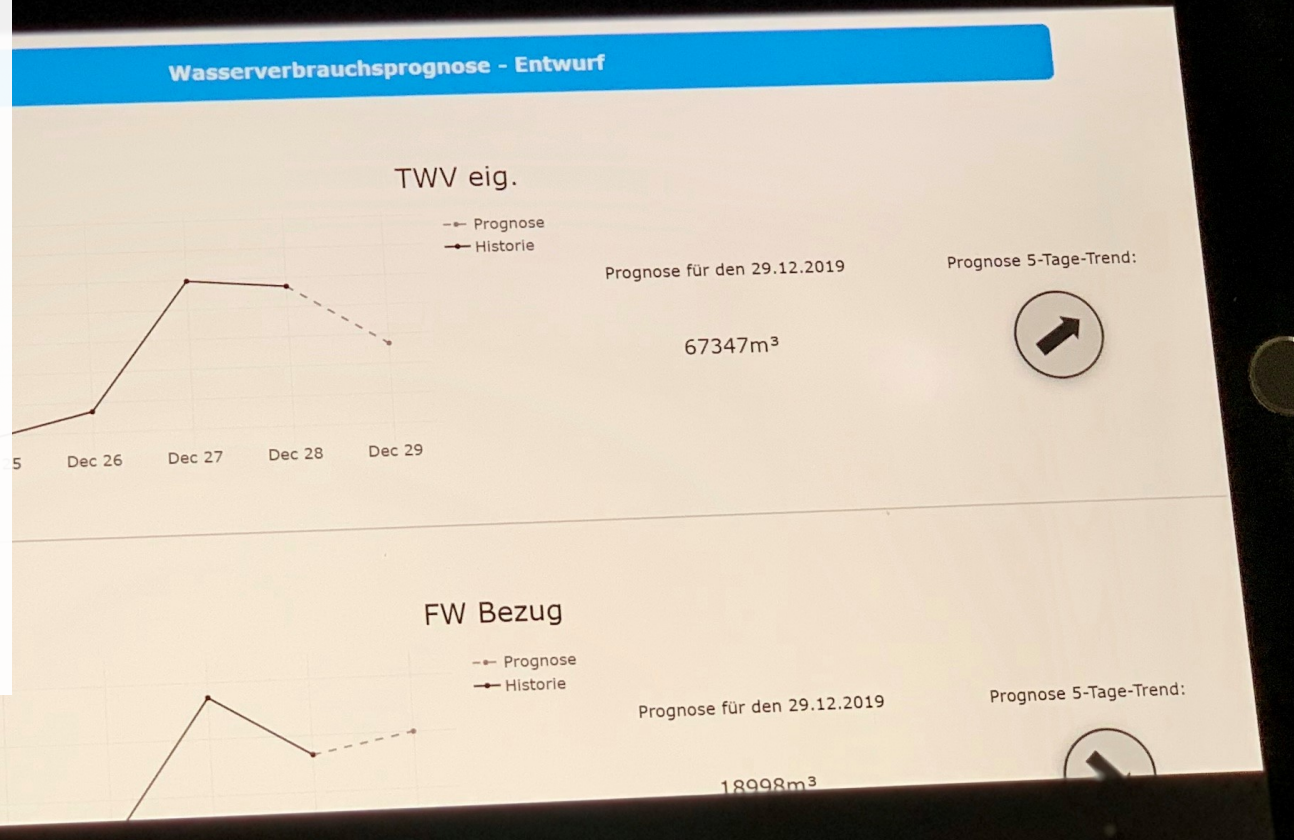
**>94%**  
**accuracy**

## DASHBOARD

- Relevant consumption data at a glance
- Daily forecast
- Trend forecast

## USAGE

- We need access to consumption data
- Access via a protected web service
- Or implement on-premises

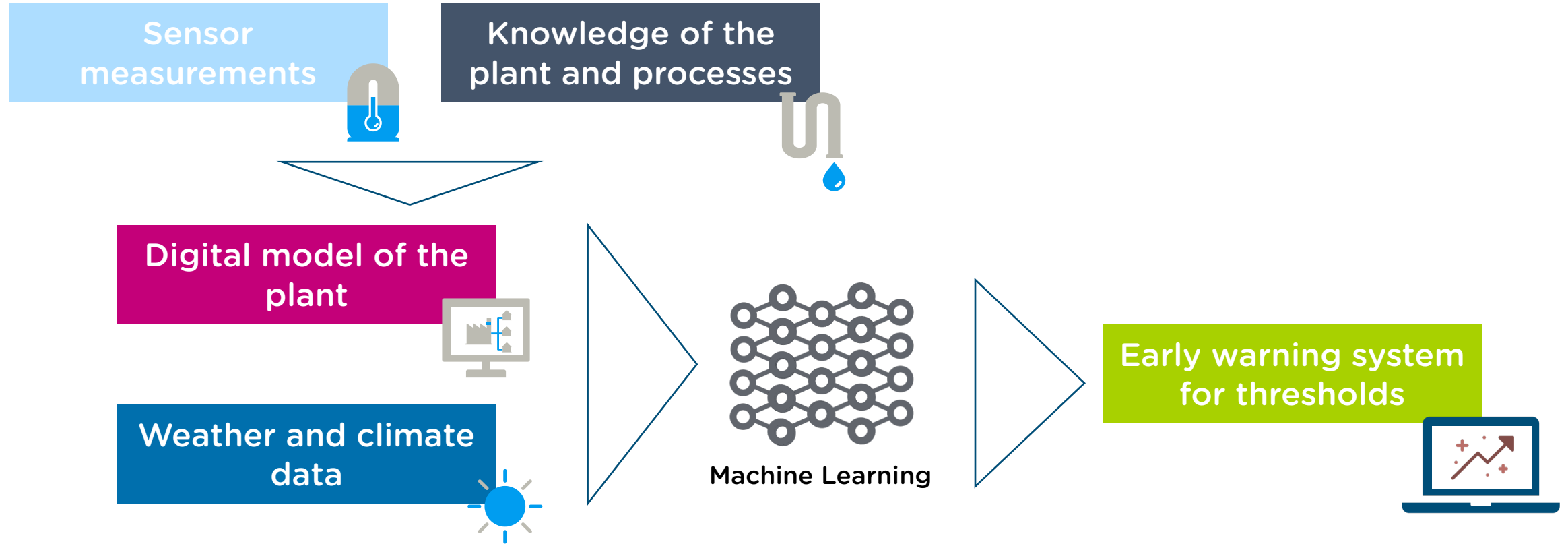




# Waste water utilities: Concentration of chemicals and Microbiological analysis



# We digitally map the plant and its environment to forecast the concentration of chemicals



# Our AI detects bacteria in wastewater



240x  
faster



# Passing remarks



Acquire new data sources

Experiment with new methods

Encourage unconventional solutions

Allow exchange within your organisation



**RAMBOLL**

**Thank you!**

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