Rijkswaterstaat
Ministerie van Infrastructuur en Waterstaat

Online Information session Market Consultation Forecast Assistant

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27 October 2029



AI Impuls Programme for Water Movement models (AIWaM)

A collaboration between Rijkswaterstaat, Deltares, Royal Netherlands Meteorological Institute and DigiShape

Content

14:00-14:15 Introduction by RWS

1. Invitation, conditions & planning
2. Objective AIWaM
3. Context and Objective Forecast Assistant

14:15-15:00 Questions



Ground rules information session

- The information session will not be recorded, and no written report of the session will be made.
- If you still have questions after the information session of today you can send them either by:
  - TenderNed module “berichten”. Preferable as a MSWord document.
  - E-mail to aiwam_forecast_assistant@rws.nl.
- All answers will be published according the planning given in TenderNed anonymously in the “Berichten”-module in TenderNed.
- No rights can be derived from any information other than that published on TenderNed.

- We prefer that questions will be asked at the end of the presentation, grouped by topic / slide.

Invitation, conditions & planning

Market Consultation Forecast Assistant

- Rijkswaterstaat is exploring the possibility of initiating a Request for Proposal (RFP) for a Forecast Assistant:

  A tool and/or agent or a subset of tools and or agents which support the hydrological forecaster to get the right information efficiently and effectively.

- Objective of the market consultation:

  Gain insight in capabilities and potential of the market and share knowledge.

Invitation

- Rijkswaterstaat would like to receive answers on questions regarding:
  - General (procurement and project related)
  - User requirements.
  - Functional capabilities.
  - Technical requirements.

- Parties who would like to contribute are invited to respond – every response helps us:
  - Answer all questions — or just those relevant to you using appendix B.
  - A brief description of the proposed solution and / or vision.
  - One-page summary to select six presentations for DigiShape-event on 19 November.
  - Presentation (7 minutes and 3 minutes for Q&A).
  - More information in §2.3 and §2.5.

Max. 10 pages

Conditions (§2.4)

- Rijkswaterstaat observes the principles of non-discrimination and transparency, as referred to in the Dutch Public Procurement Act 2012 (Aanbestedingswet 2012), throughout this market consultation.
- Rijkswaterstaat has included information in this document to the best of its knowledge at the time of publication. Information from this market consultation will be used to make a better assessment of the intended procurement.
- All relevant information required to prepare a response will be provided in the procurement documents.
- Rijkswaterstaat will use the insights gained from the market consultation (where relevant) in the preparation of a future procurement and the procurement documents. Rijkswaterstaat reserves the right not to use these insights, or to use them only in part.
- Information in this market consultation may therefore differ from information provided later in the context of any intended procurement.
- This market consultation is not an invitation to submit a tender for any future procurement.
- Rijkswaterstaat reserves the right to amend the planning outlined in this document at its own discretion, and/or to terminate the market consultation process in whole or in part.
- The information provided to Rijkswaterstaat through this market consultation will be treated as confidential and will not be used for any purpose other than gaining market knowledge to arrive with better procurement documents.
- Rijkswaterstaat does not offer any compensation for costs incurred or to be incurred in connection with this market consultation.
- **By participating in this market consultation, the interested market party declares that it agrees to all the conditions stated above.**

Planning

Activity	Deadline
Publication of announcement (TenderNed)	Tuesday 20-oct
Registration deadline information session	Monday 26-oct, 1pm
Online information session (MS Teams)	Tuesday 27-Oct 2pm
Deadline for questions (TenderNed & E-mail)	Monday 2-Nov
Publication of answers (Summary of Questions and Answers, TenderNed)	Friday 6-Nov
Deadline market response and registration for presentation	Wednesday 11-Nov
Notification of selection for presentations	Monday 16-Nov
Presentation DigiShape-event	Thursday 19-Nov

AI Impuls programme for Water movement Models

AI Impulse programme for Water movement Models (AIWaM)

Challenges
Climate change leads to more extreme weather and increasingly **unpredictable** weather and water conditions.

This calls for
Faster access to the right data for **decision-making**
Better insight into current and future water situations

To limit the impact for:
Shipping
Water managers
Asset managers

For this purpose, we **develop** reliable, fast **ML models, high-quality datasets & data-driven tools** that let us run **scenarios** more often and faster.



… to jointly build **knowledge** & accelerate **innovation**.

…we will bring the models & tools into **production** and manage them from day one.

In collaboration with

DigiShape
Datascience for Deltas

Deltares

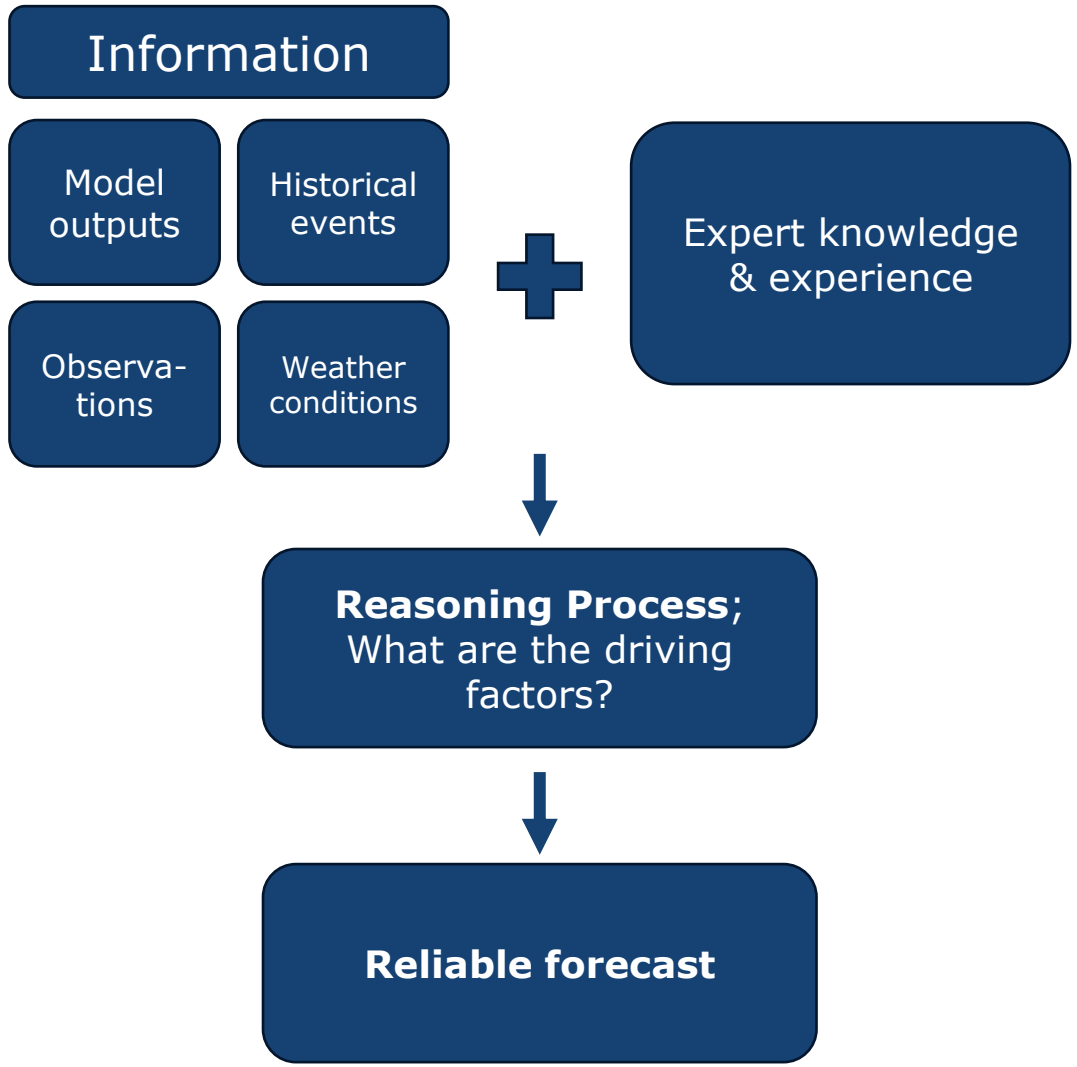
Koninklijk Nederlands Meteorologisch Instituut
Ministerie van Infrastructuur en Waterstaat

Context & Objective

AIWaM Forecast Assistant

Context

- WMCN is responsible for **operational water forecasting** and water information services in the Netherlands.
- Forecasters **combine a lot of information**
  - observations, model outputs and their knowledge on similar historical situations
- Especially in river forecasting, **many driver influence the situation,** and model performance can be poor
- Forecasters must deal with **uncertainty**
- Reliable forecasting **requires years of operational expertise**:
  - assessing model performance, interpreting uncertainties, combining multiple sources.
- The operational challenge **is twofold**: information keeps growing, while the expertise to interpret it is becoming scarcer.



Scope

Goal of project:

- Making expert knowledge more accessible
- Support the forecaster in constructing a transparent “line of reasoning” (“redeneerlijn”)

- A tool / a set of tools that assist a forecaster
- Shaped a set of the most relevant user needs (from a river forecasting perspective)

User needs	
UR-01	Identify, prioritise and summarize most relevant information
UR-02	Relevant historical forecasts
UR-03	Insights into uncertainties
UR-04	Insight data quality issues
UR-05	Insight dominant drivers of forecast outcome
UR-06	Provide feedback

Objective of market consultation

- Exploring possibilities with the market
- Intentionally a broad scope
- We are curious to your perspectives on:
  - What the tool should do (functional capabilities).
  - What is need to realise (technical requirements and conditions).
  - What is feasible and where the limitations are.
  - What should be included for a follow up project or project(s)

1. Market Consultation invite, condition & planning
2. Context & objective AIWaM Forecast Assistant

Questions