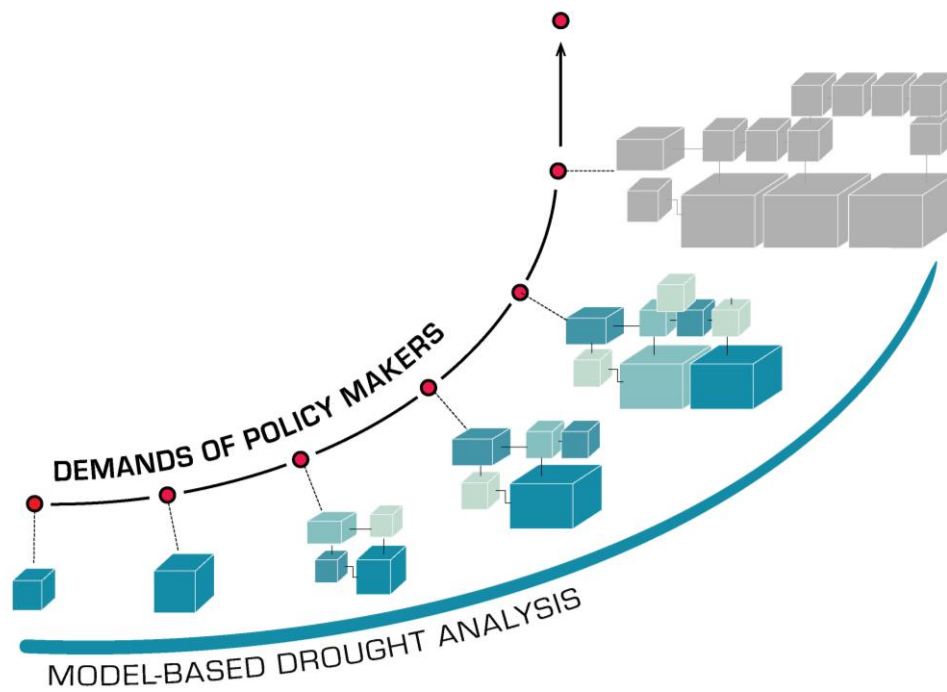


Invitation for NMDC workshop / hackathon on:
**Pushing model-based drought management
of the Netherlands beyond its limits**

How to respond to ever-increasing demands of policy makers?



Date: **July 3, 2019.**

Time: 09.30-17.00 hrs.

Location: Paviljoen, Deltares, Boussinesqweg 1, Delft.

In this workshop / hackathon we will:

- *Exchange experiences from various domains on how we respond to the dilemma of the ever-increasing demands of policy makers of delivering more accurate and faster models for model-based policy analysis.*
- *Use the National Water Model as a case to:*
 - *Explore the possibilities of shortening the run time of the National Water Model.*
 - *Identify for which topics the participants can cooperate.*

PROGRAMME:

09.30 – 10.00 Registration and coffee

10.00 – 12.30 Plenary session

- The ever-increasing demands of policy makers in drought risk management.	Neeltje Kielen, Rijkswaterstaat
- How the National Water Model pushes itself beyond its limits.	Bennie Minnema, Deltares
- Current dilemma's in the Exploration & Production sector of the oil and gas-industry: the trade-off between precision and accuracy.	Christian Bos, TNO
- Weather and climate modelling in the era of Big Data.	Ben Wichers Schreur, KNMI
- How PBL responds to detailed 'emergency-questions' of politicians.	Sido Mylius, PBL
- Low-hanging fruit solutions? Simpler concepts, stochastic modelling, high-performance computing, AI-techniques, cloud computing, quantum computing?	Panel discussion facilitated by Lennart Booij

12.30-13.30 Lunch

13.30-15.30 Parallel working sessions, using the NWM case

In parallel working sessions we will further explore the possibilities to shorten the run time of the National Water Model along the following themes:

- 1. Simplifying concepts**
- 2. Stochastic analysis versus time-series analysis**
- 3. Hardware and high performance computing possibilities**
- 4. Data-driven modelling, AI-techniques**

Each session starts with a *pitch* after which we will address the following questions:

1. Are there any 'low-hanging fruit' solutions?
2. What do we NOT know yet? – Which topics should be explored further?
3. How can different domains cooperate?

15.30-16.15 Wrap-up

16.15-17.00 Drinks

Participation is free; however please register in advance by sending an e-mail to NMDC@deltares.nl