

Stakeholder meeting 15.05.2023

The presentation of the meeting can be found [here](#).

Aim

- update on the current status of the project
- explain first methodological priorities and choices w.r.t. the modelling

Where are we now?

- still in the stakeholder interaction part
- no climate data produced yet, CORDEX.be group first wanted to align further on the stakeholder needs

Pre-production phase

- prioritize on the scenarios and Global Warming Levels (GWL)
- preparation for model runs (GCM selection, technical prepping)
- Benelux meeting on the national climate scenarios
 - three institutes: KNMI (The Netherlands), LIST (Luxemburg), RMI (Belgium)
 - same methodological focus: warming levels, extremes
- urban measurement campaign

Recap kick-off meeting 13.02.2023

- GWL approach
 - include a +4°C Warming Level
 - results provided as eg SSP5-8.5 in the world at +2°C
 - example output of expected GCM climate signal for Belgium
 - from GWL to time period → priority for near and mid future, thus also include +2°C warming level
- incl most pessimistic, still realistic scenario
- priority of near and mid future
- resolution, as high as possible (both in space and time)
- diverse needs in project outcomes
- parameter/indicator needs from VMM and NCCN

Proposal on methodological choices

- not final (!)
- stakeholder feedback is welcome, CORDEX.be group aims to involve stakeholders in the decision making process
- these proposals are aimed to have a common framework
 - GWL4 and GWL2
 - SSP5-8.5
 - parameters & indicators focus on precipitation and temperature

Variables list

two categories of outcomes

1. raw data & statistics: 20-yr time slices, hourly output, 4-km resolution for BE
2. extreme heat and precipitation cases: specific locations eg cities, catchments, higher resolution spatially and temporarily will be possible

which variables?

Temperature and precipitation.

Wind, cape, snow flux → nuanced use of these variables

Answers to VMM and NCCN questions can be found in the documents below as highlighted text and comments:

[VMM - Variables list Q&A](#)

[NCCN - Variables list Q&A](#)

Timeline & comm

- summer next year - provide stakeholders pilot data, to verify if the type of data is useful and useable
- Jan. 2026 - final data expected to be ready along with the storylines
- quarterly stakeholder interaction (i.e. each 3 months) → would happen by means of different formats: a meeting, information session and/or newsflash
- there is no objection from the stakeholders to share the meeting summaries (not minutes) on the website
- there were no other timeline items mentioned to be added

Discussion

- [VMM] final data will be ready by Jan. 2026 to be included in their impact tools, the pilot data which are foreseen to be ready in 2024 could already be used to test if from technical point of view everything aligns with the existing VMM tools
- [RMI] storyline approach
 - are the events already selected? eg the Vesder case, elaborate with SPW-MI
 - extreme precipitation cases → couple to hydrological models WOLF and SCHEME
 - work with weather generators? KULeuven will select the most extreme event and implement different land use schemes
- [NCCN] this meeting provides very useful information and answers to their requests, which they will share with their sectoral stakeholders
- [City of Ghent] is very much interested in the storylines and to use the project outcomes through the VMM adaptation-tools (e.g. the IMPACT-tool)

Actions

- for next stakeholder meetings:
 - share the documents/presentation in advance
 - clearly specify that everyone can speak its own language
- share presentation and answers to VMM and NCCN

- put meeting summaries on the CORDEX.be website
- Oct-Dec 2023: next stakeholder interaction

Participants

Stakeholders

- Jelle Dehaen, Federal Climate Change Department of Federal Public Service (FPS) Health, Food Chain Safety and Environment
- Olivier Robyns, Alyssa Thonner, Kevin Schmidt, and Ali Kheffi, Service for Critical Infrastructure Protection and Risk Assessment of the National Crisis Center
- Delphine Pontégnie, Service public de Wallonie - mobilité infrastructures, Département Expertises Hydraulique et Environnement, Direction de la Gestion Hydrologique
- Anaïs Lecoq, Service public de Wallonie, Walloon Air & Climate Agency
- Johan Brouwers, Flanders Environment Agency - Dienstencentrum Water, Lucht en Klimaatadaptatie
- Maaïke Breugelmans, Dienst Milieu en Klimaat, City of Ghent
- Aline Van der Werf, Belspo

Consortium

- Piet Termonia, Nicolas Ghilain, Kobe Vandelanotte, and Bert Van Schaeybroeck, Royal Meteorological Institute of Belgium
- Fien Serras, and Nicole van Lipzig, KULeuven
- Filip Lefebvre and Dirk Lauwaet, VITO
- Steven Caluwaerts, UGent
- Xavier Fettweis and Josip Brajkovic, ULiège
- Etienne Hannon and Rozemien De Troch, Belgian Climate Centre