

PROCLIAS TG 1.2 Automatic QC/QA tool

Increasing the credibility of impact models with the ISIMIP data quality assessment tool – proposal for NFDI4Earth pilot project

Hannes Müller Schmied^{1,2}, Matthias Mengel³, Jochen Klar³, Gerbrand Koren⁴

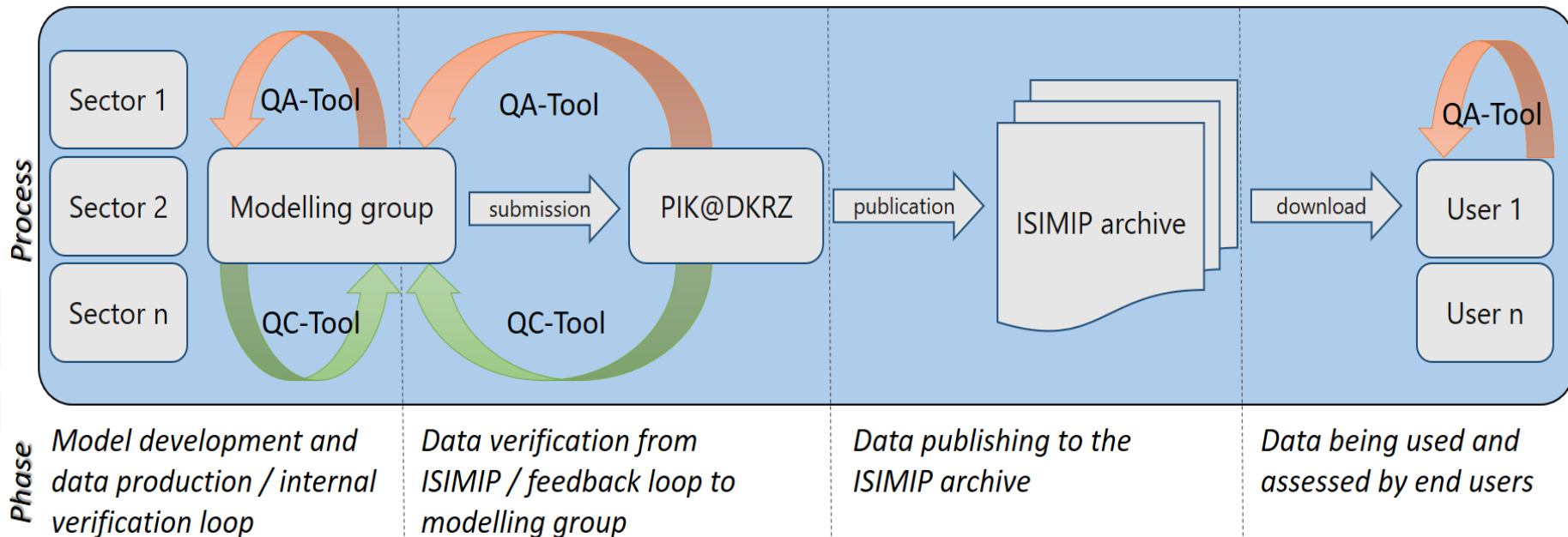
¹Goethe-University Frankfurt, ²Senckenberg SBIK-F Frankfurt, ³Potsdam Institute for Climate Impact Research, Potsdam, ⁴Copernicus Institute of Sustainable Development, Utrecht





- NFDI4Earth is a German NFDI Consortium to address digital needs of researchers in Earth System Sciences, driven by researchers' needs and requirements for research data management according to FAIR principles
- The „Pilots“ are 1 year FTE funding for different domains of the community □ for developing a prototype
- We submitted a proposal to further develop the QA-tool, decision will be made in June 2023

Data workflow in ISIMIP process



- Integration of QC-tool (in operational use) and QA-tool (in development) into the data workflow of ISIMIP

Proposal idea

- Evaluate model outputs with reference data;
 - e.g. for global water sector: streamflow (gauging stations) and total water storage anomalies (GRACE satellite)
- Providing meaningful aggregation methods, metrics, maps, diagrams
- To be applied similar as QC-tool (at modellers side and at PIK side) but also helpful for post-processing / academic education

Proposal idea

- Develop a prototype of the QA-tool (software) and a specific application to the global water sector (as pilot sector)
- 0.5 FTE at PIK for tool development, 0.5 FTE at GU for preparing reference data, aggregation methods, metrics and visualization needs
- Hackathon in Utrecht (Sept 2023) (PROCLIAS)
- Software and data; handbook; user tutorials; webinars; online user workshop

Proposal idea

- Interested in joining the effort / adding your sector?
Contact us!

