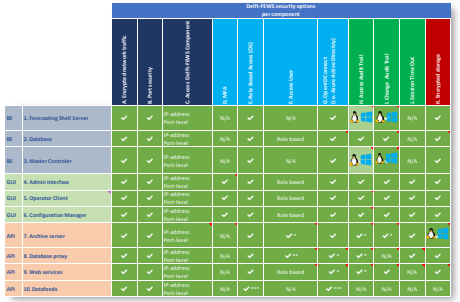
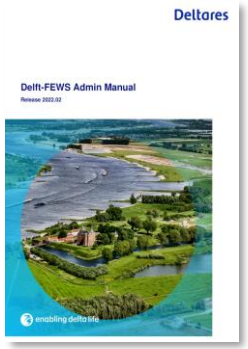
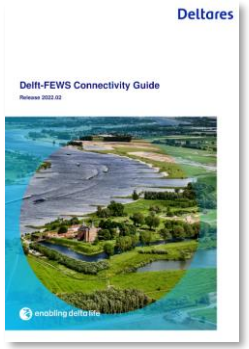
Relation between documents…







	Security Matrix + Description	Admin Manuals	Connectivity Guide
Location	Delft-FEWS PM one drive	https://publicwiki.deltares.nl/display/FEWSDOC/Delft-FEWS+Admin+Manuals	https://publicwiki.deltares.nl/display/FEWSDOC/Delft-FEWS+Connectivity+guides
Available	Deltares (-USA) Clients (on request + discussion)	WIKI (login required)	WIKI (login required)
Status	Final Draft available	Available for: 2018.02 – 2023.01	Available for: 2018.02 – 2023.01
Topic / focus	**What** security aspects are relevant for Delft-FEWS systems? And **where** to solve them.	Recommended deployment steps + explanation on **how** to install in a secure way	Even **more technical details on the how** to install the Delft-FEWS components secure.
2023.01 update	First version	Security aspects added	Security aspects added

Python Integration

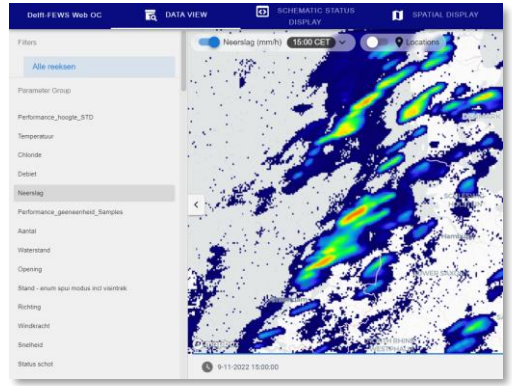
- Goal: embedding Python in Delft-FEWS (Java Embedded Python package)
- First objective: **General Adapter** + in memory transfer
  - Scalar time series
  - Gridded time series
  - Minimal support for: *xarray*, *numpy* and *pandas*
  - Interesting use cases (like PCRaster functionality, but also handling ensembles etc)
- Second objective: Create own Transformation
  - Embedding Python in **Transformation** Module

- More info: Boyan.Domhof@deltares.nl or Arjen.Haag@deltares.nl

Other roadmap developments
Web Operator Client in 2023

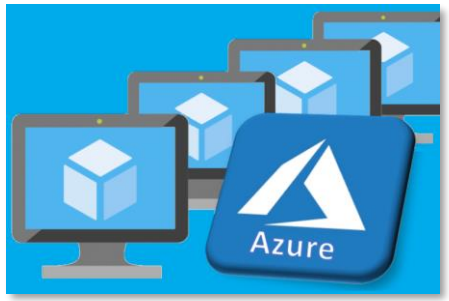
From beta-version to full product: Web OC is a stable component of the Delft-FEWS software suite.

- **Stable version Web OC** based on 2023.02 Delft-FEWS release. Web OC component configuration will be managed from Delft-FEWS configuration (components: data view, topology, ssd, system monitor, spatial display).
- **Stable version with limited functionality** will be the starting point for further development withing projects.
- Documentation, Support, EULA, testing process in place.
- User roles and permissions as configured in Delft-FEWS will be respected by Web OC back-end and front-end.
- CI/CD pipeline in place
- Take feedback from INT User Days 2022 into account.



Other roadmap developments:
Master Controller *high availability* (using Azure cloud services)

- Implementation based on ARM templates (this already works icw upgrade to 2022.02 or later) using the **Azure Virtual Machine Scale Sets** concept
- Definition of a spare VM (with a Delft-FEWS MC on it) ready to be launched when the primary MC goes down

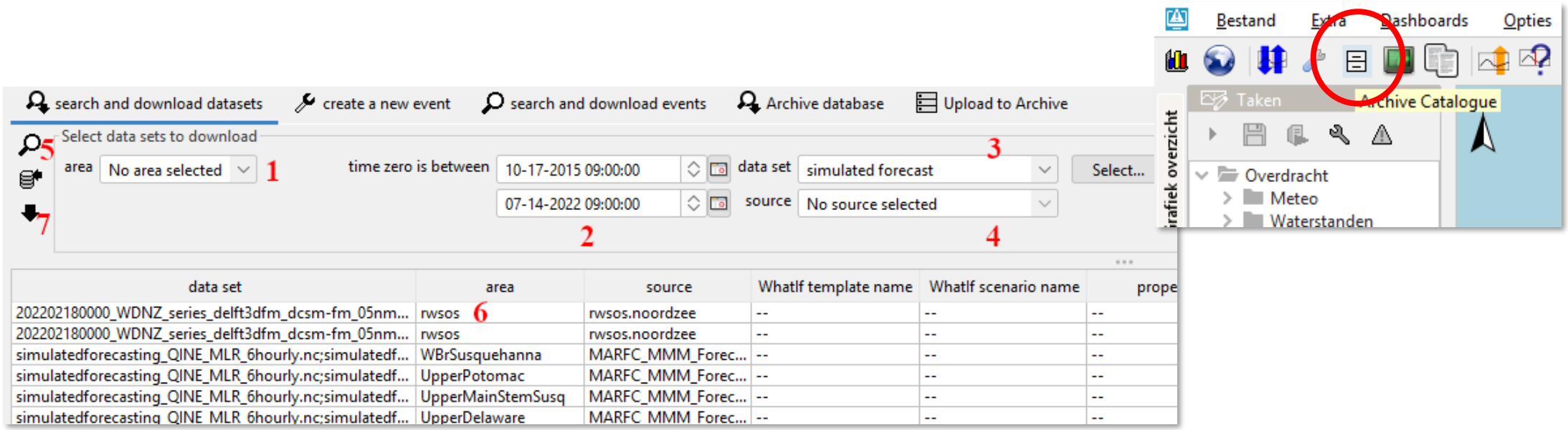


Additionally (read: version 2 of the High Availability)

- **Azure KeyVault integration** and **Health Checks** to support scale sets/kubernetes probes requires development.
- Even without these developments, the improved ARM templates have added value (= high available MC, FSSs in another Azure availability zone)

Open Archive

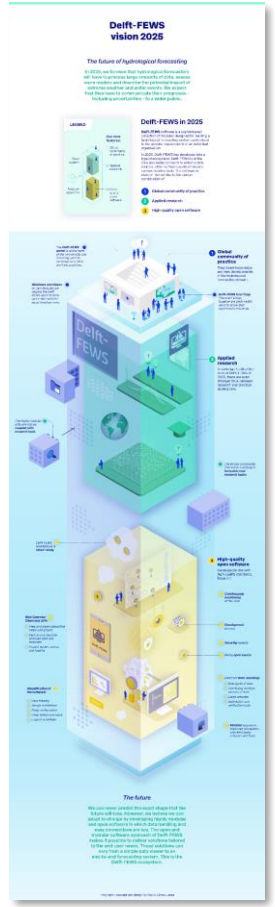
- New **vision document & implementation plan** for the Open Archive (Q3 2023)
  - Open Archive: more & more important
  - Projects & developers determined functionality & priorities
  - Need for vision (document), implementation plan and structural attention by PO
  - External (but known) party to co-ordinate & construct this vision (Deltares supervision)



New Delft-FEWS vision – start in 2025…

- Towards a new vision for Delft-FEWS (successor of current Delft-FEWS 2025 vision)
  - Current vision “Delft-FEWS 2025” has an end…
  - Evaluate & share what did we accomplish?
  - Start preparing/thinking about successor…
  - Content: Strategic agenda, Digital Transformation, OWM Strategy…
  - Involvement of the Delft-FEWS community, CSB…
  - Community will be part of new vision…
  - Get information from end-users, consultants…
  - Co-creation, external guidance (process)…
  - Storytelling…

  - Reach out if you have ideas, contributions!!



Where are we in ±1.5 years…?

- Vision: ready
  - Evaluate and share what has been accomplished (2020-2024)
  - Open Archive Vision (document ready in 2023): implementation is on-going
  - New Delft-FEWS Vision for another 5 years (2025-2029) scoped and ready
- Security: top of mind
  - OWASP checks available (+ all green) in all supported branches.
  - OWASP procedure fully functioning for all supported branches
  - Development process adjusted towards security & code quality
- Python integrated in Delft-FEWS
- Cloud features/services implemented, e.g.
  - FSS (up & down) scaling implemented
  - High availability of Master Controller using Azure features
- Web Operator Client developed, delivered and maintained as part of the Delft-FEWS product suite
- AND of course…all the new features in 2023.02, 2024.01 and 2024.02…

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