

## Delft-FEWS AnwenderTreffen

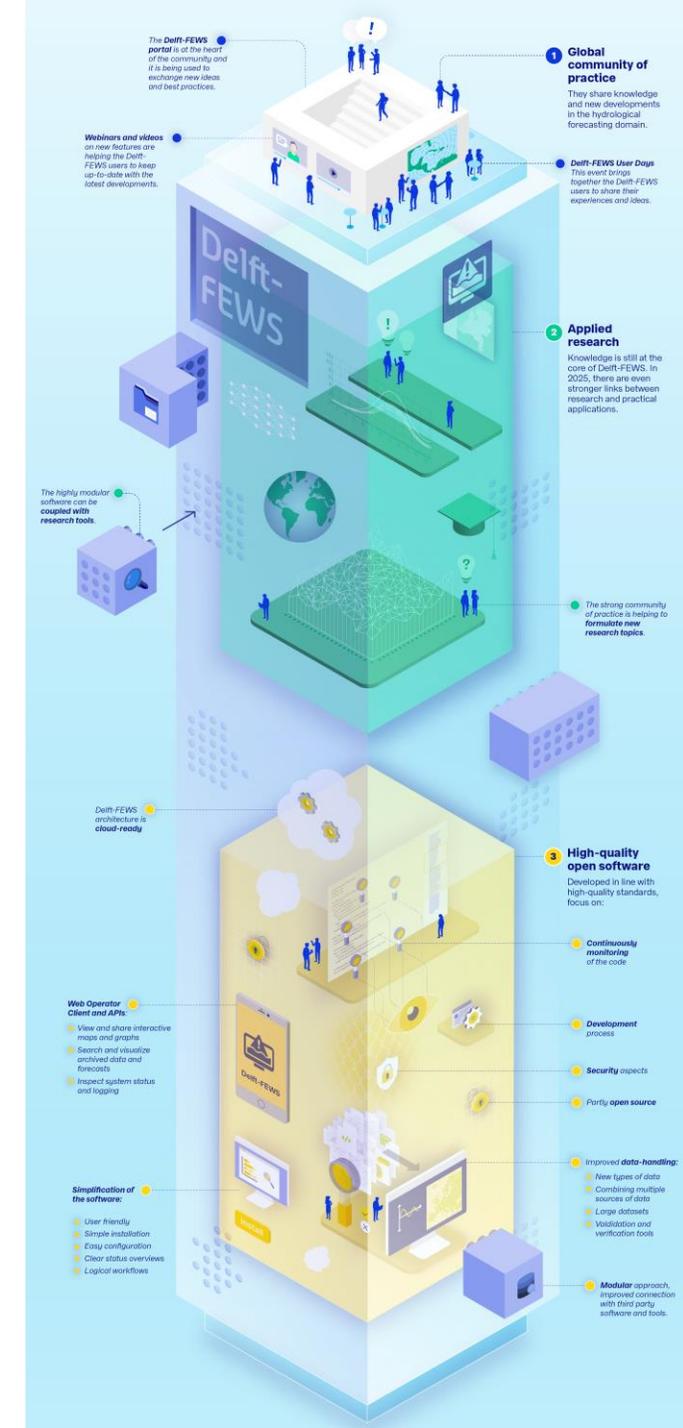
- 1) Update from the CSB
- 2) Delft-FEWS Vision & Roadmaps

Delft-FEWS Product Management

June 2023

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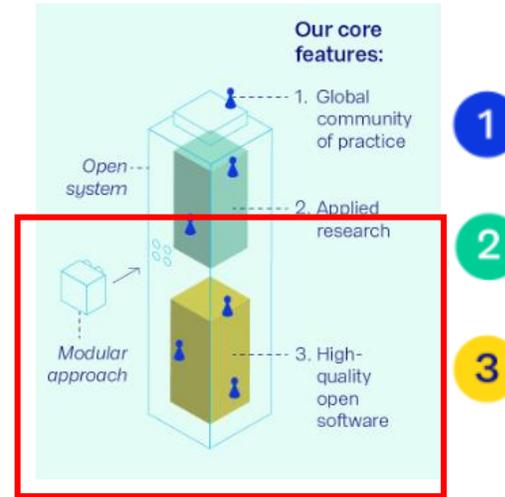
- Delft-FEWS Vision 2025
- Delft-FEWS Roadmap 2023
  - Code clean-up
  - Code quality
  - Release Test Automation
  - Security
  - Python Integration
  - Other roadmap developments
- Vision activities for the near future
  - Open Archive
  - Delft-FEWS 2025 successor



# Delft-FEWS Vision 2025...

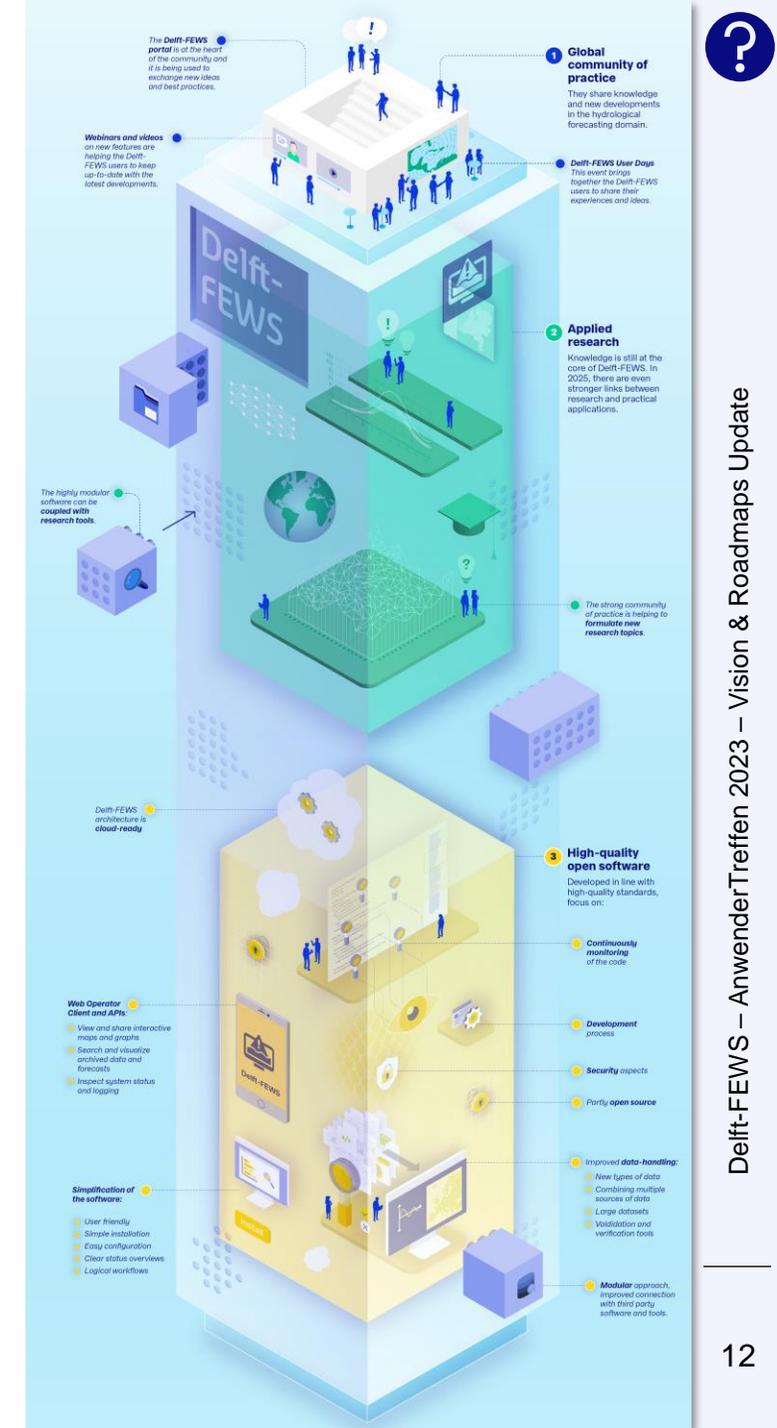
- Delft-FEWS Vision 2025 core features

- 1 Global Community of Practice
- 2 Applied Research
- 3 High quality open software



- Show and tell...story, presentations and infographic

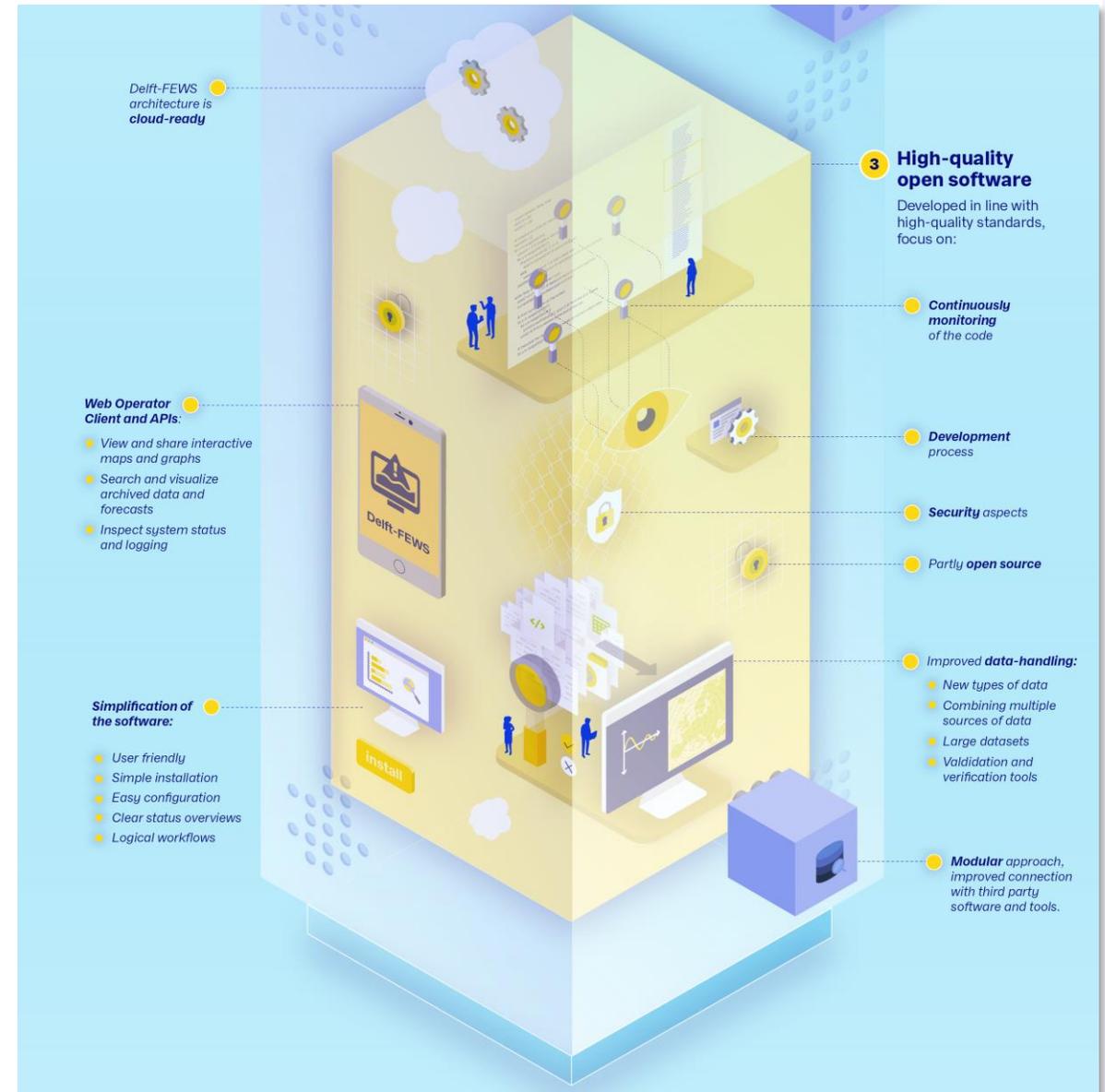
- Delft-FEWS [portal](#)
- [Video](#)
- [User Days / Events](#)
- Updates to the [CSB](#)



# Outlook Roadmap 2023

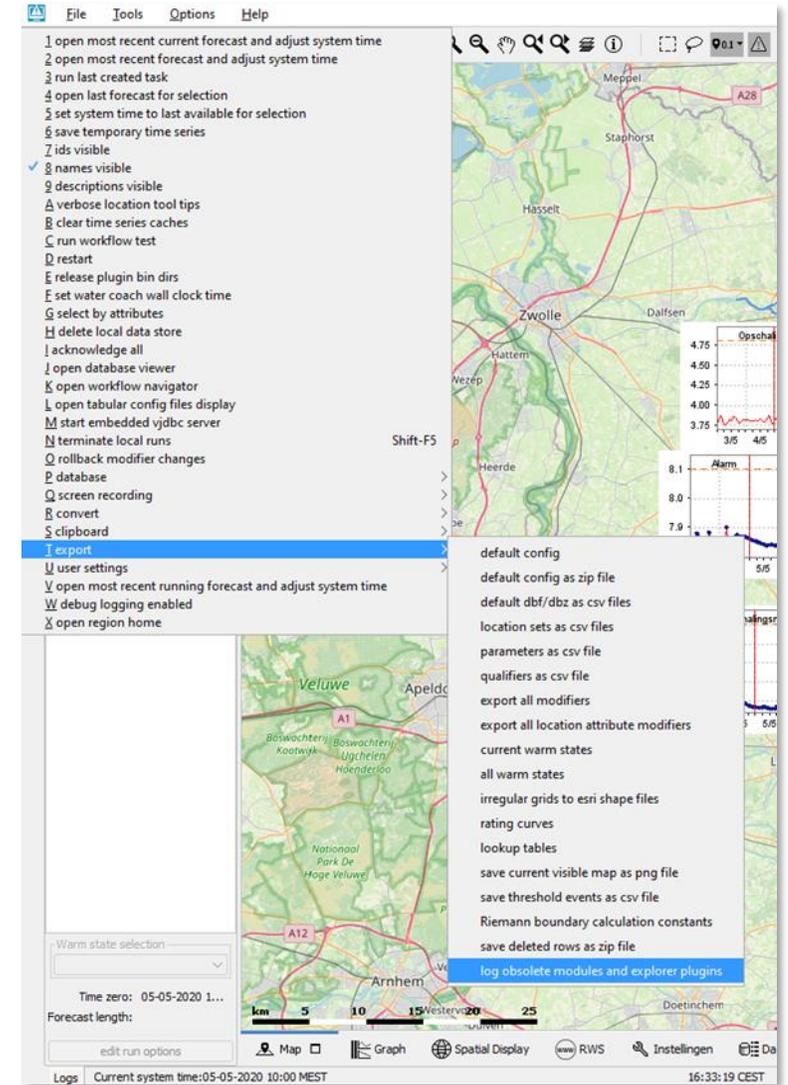
## Outline

- Continuation of 2022:
  - Code clean-up
  - Code quality
  - Release test automation
- Security
- Python Integration
- Other roadmap developments
- Open Archive
- Start of preparation of the Delft-FEWS Vision 2025 successor



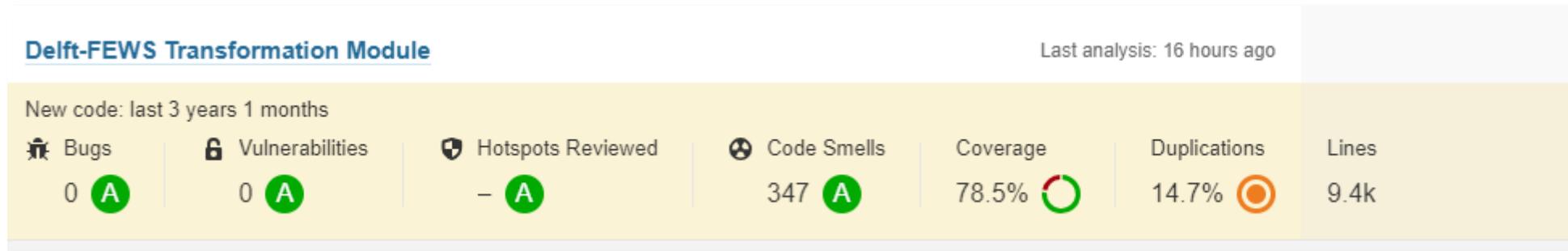
# Code Clean-up

- **Goal:** maintainability of our code
  - Remove old/outdated code
  - Develop new/better alternative (before removal old parts!)
- **Always** assess your configuration by using the [<F12>](#) **Option T + Log obsolete modules and explorer plugins**
- [This WIKI page](#) will contain information about the end-of-life configuration options and in which version.

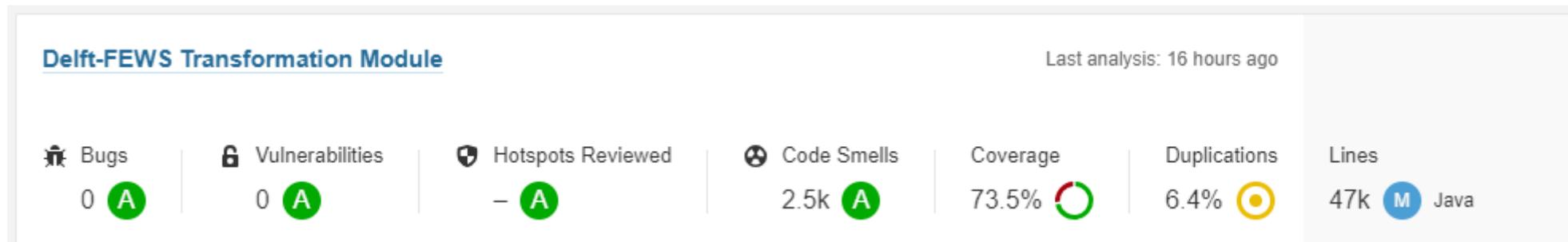


# Code Quality

- SonarQube – code assesment tool (since May 2020)



new

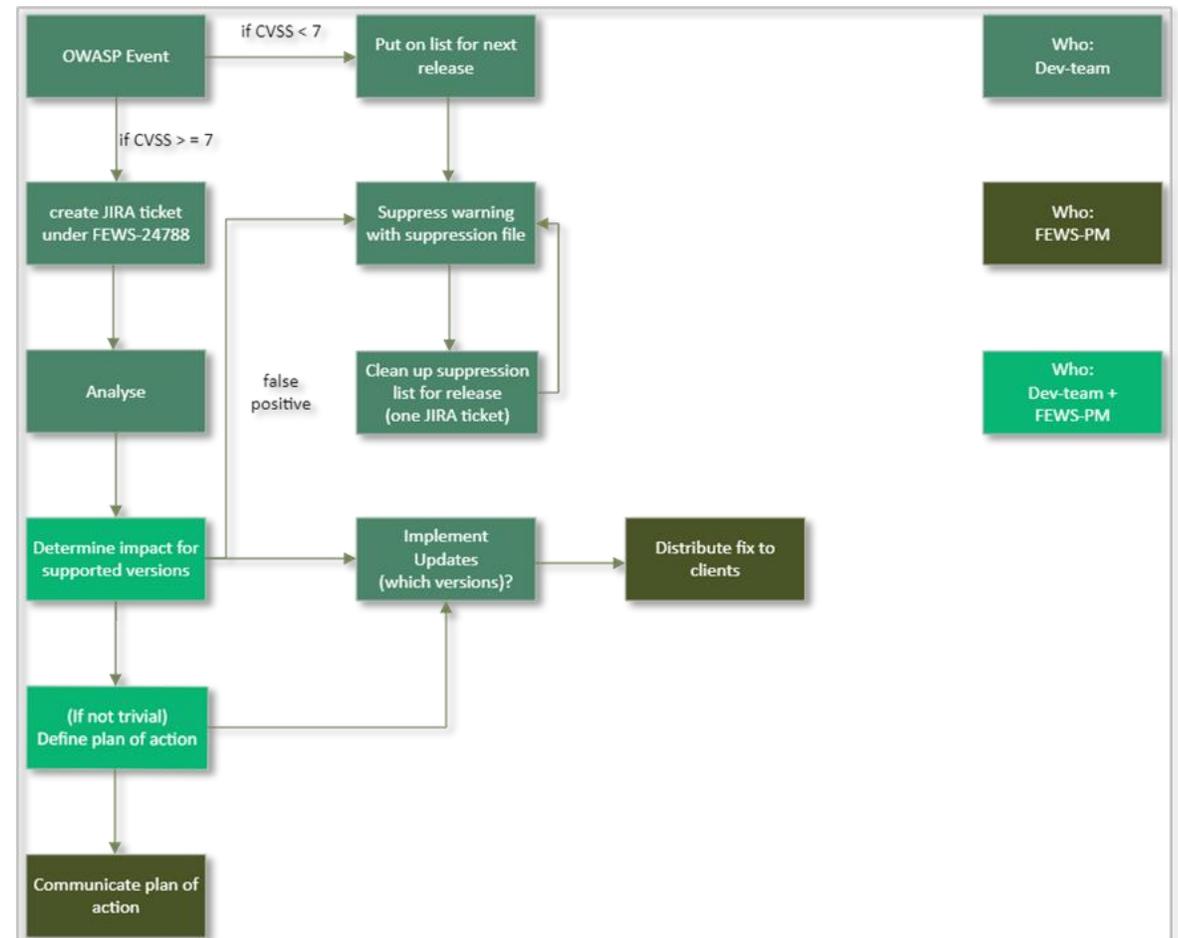


all

# Code Quality

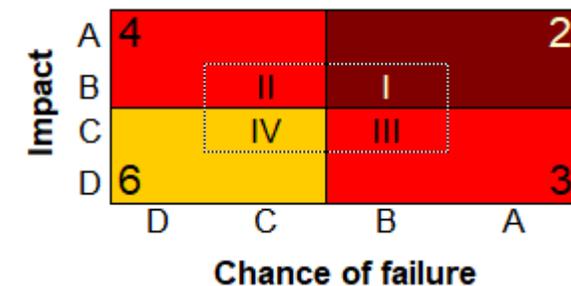


- Vulnerabilities in third party libraries: Daily OWASP checks
- OWASP = Open Worldwide Application Security Project
  - Database: known vulnerabilities in third party libraries
  - Standard build process for OWASP check (daily)
  - If score is critical → active communication → solve asap
  - If score is high → wiki page with information → solve in next version
  - [Overview of known CVE issues](#)



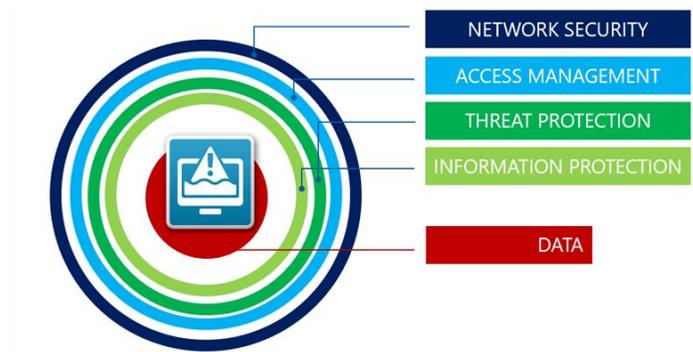
# Release Test Automation

- Goal is to automate our **release testing** as much as possible
  - Automatic Unit Tests
  - Comparison Tests (between versions)
  - Performance Tests (between versions)
  - Component Tests (every version, around 80(!) different modules, displays etc)
  - Stress Tests (multi MC, multi OC environment)
  - Integration Tests (full application test)
- Automation steps
  - Use of Docker
  - Full Open Archive test system in place
- Release Process
  - **Product Risk Analysis** / Release Retrospective
  - Master Test Plan / Release Test Plan(s)
  - Transferable test scripts
  - Knowledge transfer between testers



# Security

- **Security Matrix** and **Description** finalized
- Start for **security discussion** with IT departments
- Contact us!!



		Delft-FEWS security options per component										
		A. Encrypted network traffic	B. Port security	C. Access Delft-FEWS Component	D. MFA	E. Role Based Access (OS)	F. Access User	G. OpenID Connect (i.e. Azure Active Directory)	H. Access Audit Trail	I. Change Audit Trail	J. Session Time Out	K. Encrypted storage
BE	1. Forecasting Shell Server	✓	✓	IP-address Port-level	N/A	✓	N/A	✓			N/A	✓
BE	2. Database	✓	✓	IP-address Port-level	N/A	✓	Role based	✓	✓	✓	N/A	✓
BE	3. Master Controller	✓	✓	IP-address Port-level	N/A	✓	N/A	✓			N/A	✓
GUI	4. Admin Interface	✓	✓	IP-address Port-level	✓	✓	Role based	✓	✓	✓	✓	✓
GUI	5. Operator Client	✓	✓	IP-address Port-level	✓	✓	Role based	✓	✓	✓	✓	✓
GUI	6. Configuration Manager	✓	✓	IP-address Port-level	✓	✓	Role based	✓	✓	✓	✓	✓
API	7. Archive server	✓	✓	IP-address Port-level	N/A	✓	✓*	✓	✓*	✓*	✓	
API	8. Database proxy	✓	✓	IP-address Port-level	N/A	✓	✓**	✓*	✓*	N/A	✓	✓
API	9. Web services	✓	✓	IP-address Port-level	N/A	✓	Role based	✓*	✓*	✓	N/A	✓
API	10. Datafeeds	✓	✓	IP-address Port-level	N/A	✓***	N/A	✓***	N/A	N/A	N/A	N/A