

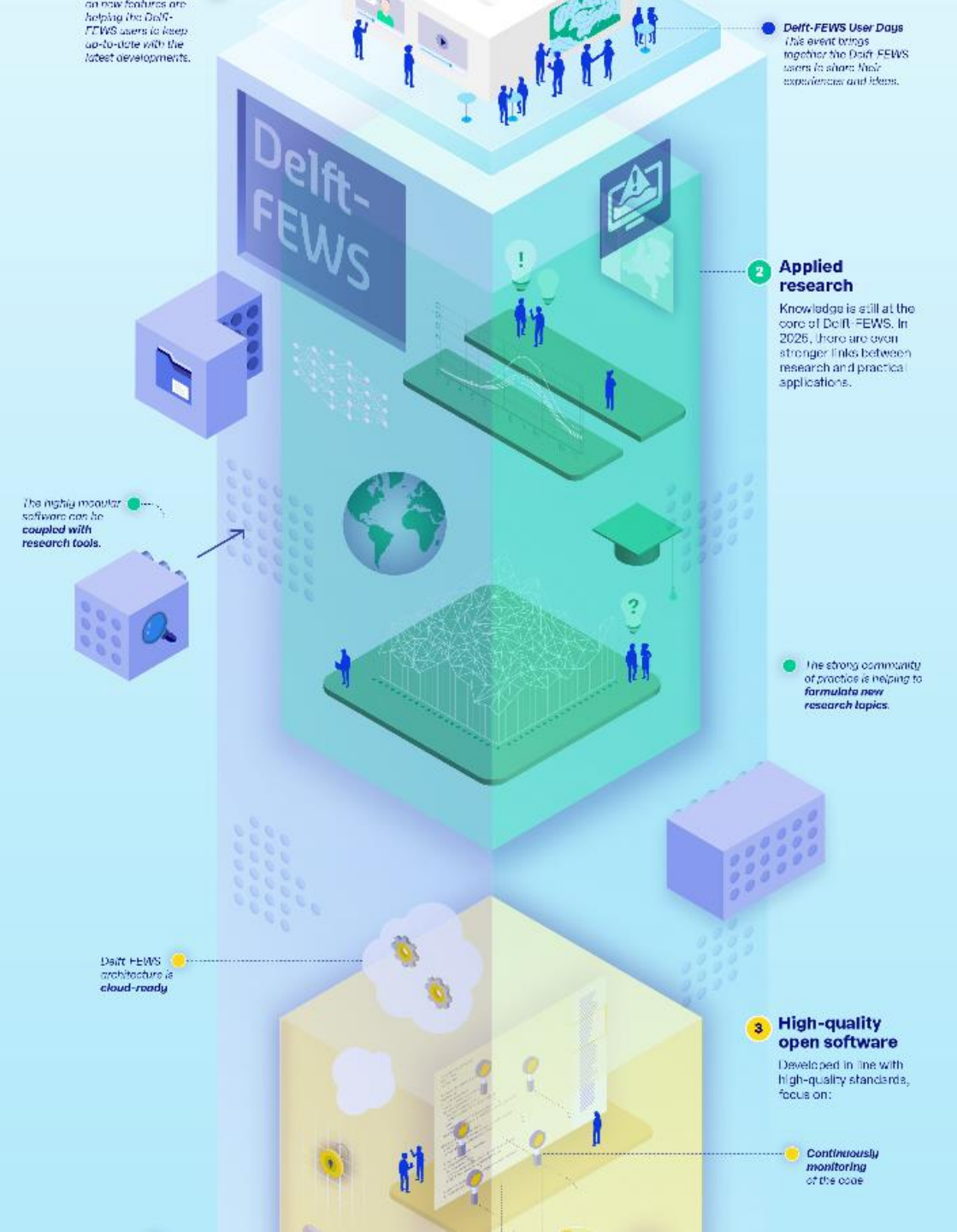
## Delft-FEWS Vision & Roadmap Update

*Delft-FEWS Anwendertreffen*  
*20.06.2022*

Delft-FEWS Product Management

Marcel Ververs and Gerben Boot

June 2022



# Introduction...

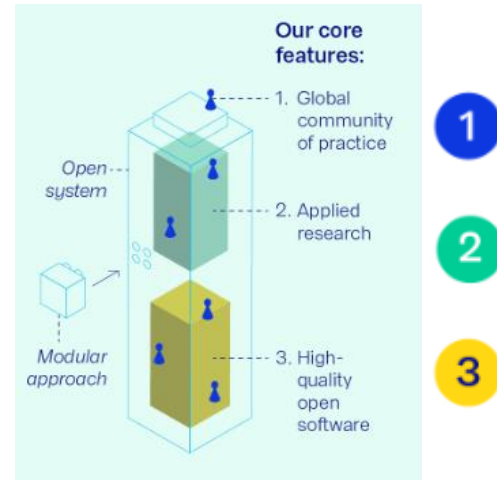
- Welcome!
- Everyone on the same page
- Timeline
- Roadmap 2022 Update

As usual: [Links for more info](#)

# Delft-FEWS Vision 2025...

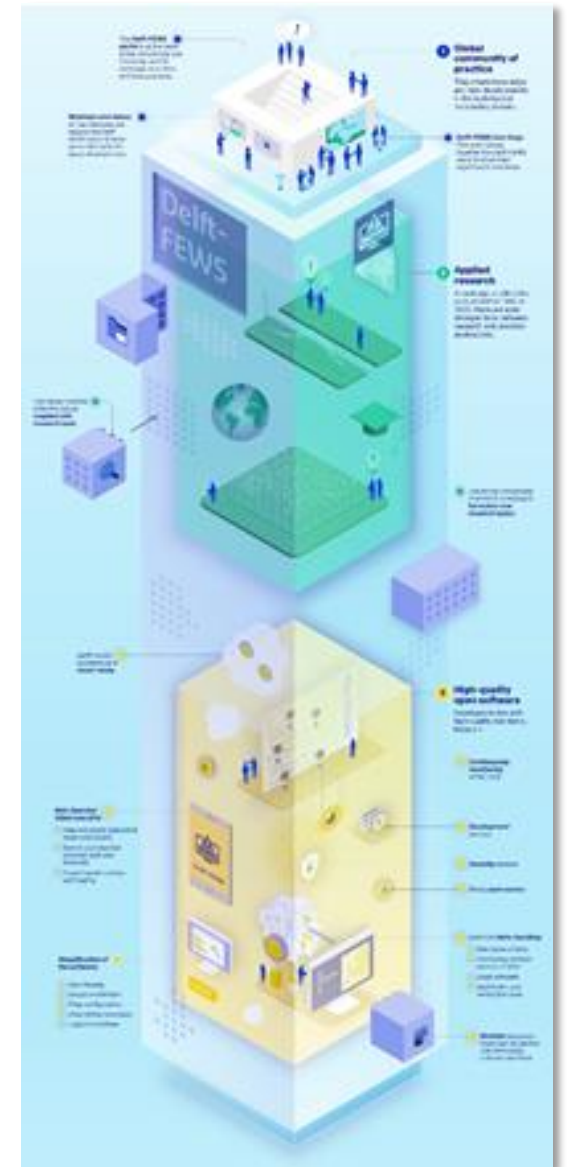
- Delft-FEWS Vision 2025 core features

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

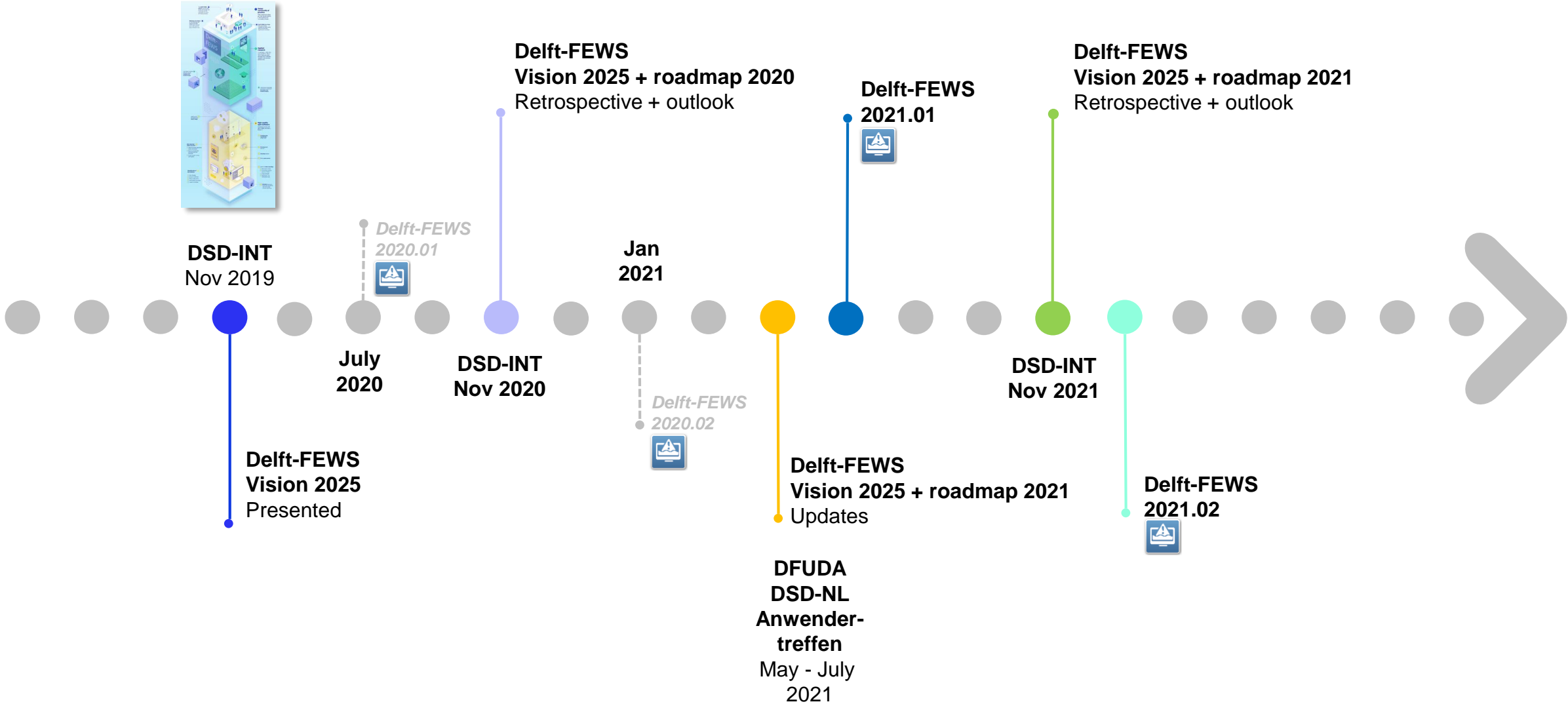


- Show and tell...story, presentations and infographic

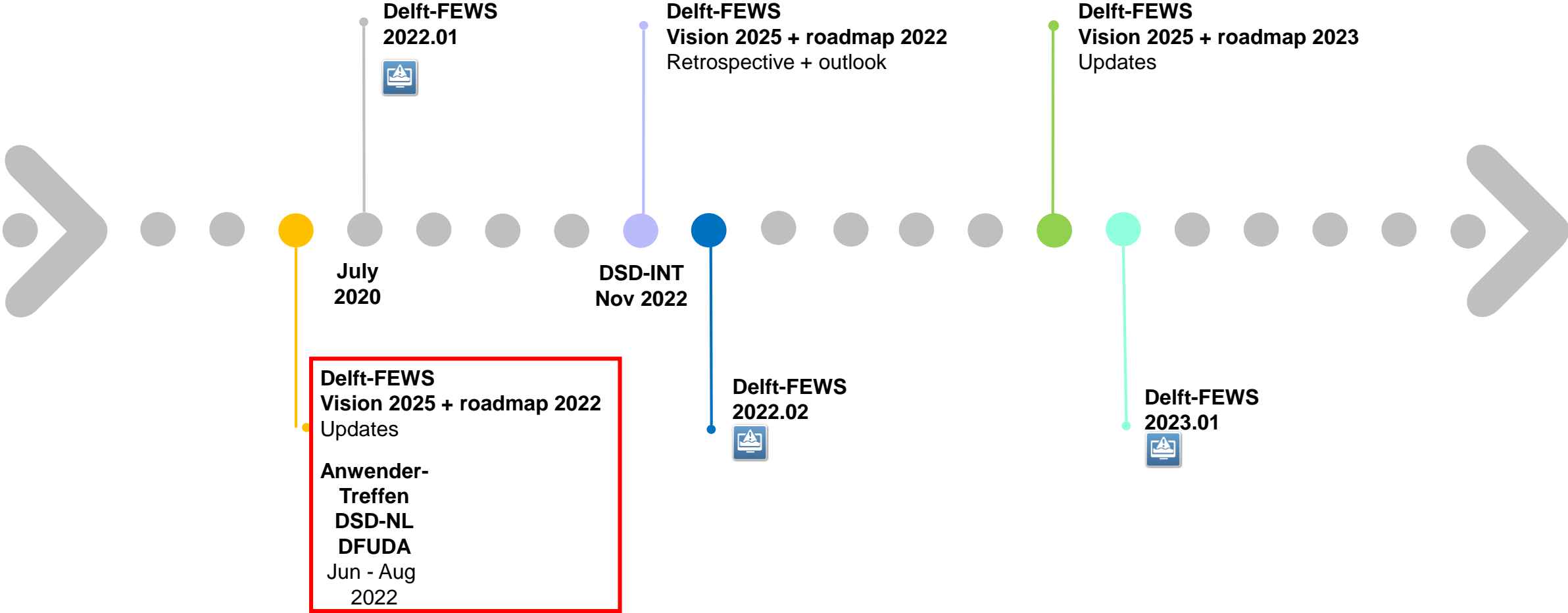
- Delft-FEWS portal: [vision](#) and [roadmaps](#)
- [Video](#)
- [User Days / Events](#)
- Updates to the [CSB](#)



# Delft-FEWS Vision 2025: timeline



# Delft-FEWS Vision 2025: timeline



# Roadmap 2022 - update

To realise the Delft-FEWS [vision for 2025](#), we set goals in annual roadmaps.

The focus of a roadmap is to keep the quality of the software components (client-side, server-side, web service, archive) up-to-date.

Focal points are:

- High-quality open software
  - Code clean-up
  - Code quality
  - Release process and Test automation
  - Security aspects & cloud developments
- Web-based Operator Client
- Computational Framework

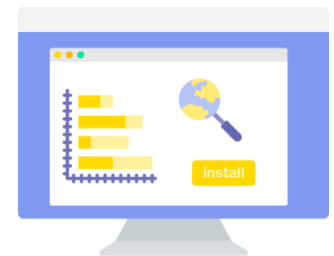
# Roadmap 2022 – High Quality Open Software

## *Code clean-up*

“To keep the code clean and maintainable, we have identified outdated and end-of-life modules and displays”

- **Continue the work from 2021**
- **<F12> option is always up-to-date**
- **Important third party library updates**

- A wiki page is kept up-to-date to share our latest plans (what components are removed by when) and our progress. The <F12> check in your application is aligned with this [WIKI page](#).
- Expected effort in 2022: ±35 days
- Main contact for this roadmap theme is: [Marc van Dijk](#)



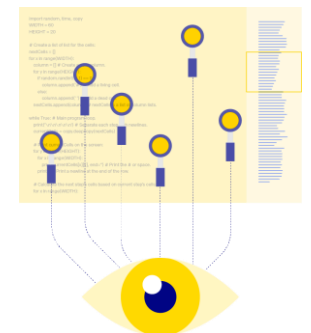
# Roadmap 2022 – High Quality Open Software

## *Code quality*

- “Our code quality is constantly monitored and all code commits are checked against the latest java coding rules”

- **SonarQube code commit analysis**
- **DevOps pilot**
- **Increase unit test coverage %**
- **Transparent reporting**

- Besides that we will actively maintain the (newly structured) [Delft-FEWS hard and software requirements page](#) and will launch a [Delft-FEWS update strategy page](#). The latter contains an overview of all supported versions of relevant operating systems, database types and third-party libraries, java and middleware like Tomcat per Delft-FEWS version and by when this will change.
- Expected effort in 2022: ±40 days
- Main contact for this roadmap theme is: [Gerben Boot](#)





# Roadmap 2022 – High Quality Open Software

## *Release process and test automation*

“We are continuously improving our release process to deliver high quality and well-tested releases“

- **Product Risk Analysis**
- **Release Retrospective**
- **Test scripts transferable**
- **Increase automatic tests (Docker)**

- Separating GUI code and business logic is also on our radar this year and we will further complete our **Master Test Plan** to easily derive the our **Release Specific Test Plans**.
- Expected effort in 2022: ±20 days
- Main contact for this roadmap theme is: [Marcel Ververs](#)



# Roadmap 2022 – High Quality Open Software

## *Security aspects and cloud developments*

“For Delft-FEWS a **security matrix** is available to visualize all security options per Delft-FEWS component”

- **Network Security**
- **Access Management**
- **Threat Protection**
- **Information Protection**
- **Data (encrypted storage)**

- We also respond quickly to our daily checks with respect to OWASP messages (OWASP=Open Web Application Security Project) which runs on our build & test environment (TeamCity)
- Expected effort in 2022: ±40 days
- Main contact for this roadmap theme is: [Gert-Jan Schotmeijer](#)
- Documents are available in draft but available on request (and WIKI – Admin Pages)
- Available for questions/discussion (MS Teams)

**Deltares**



# Roadmap 2022 – High Quality Open Software

## *Security aspects and cloud developments*

“Delft-FEWS is cloud agnostic and Deltares is willing to support you to make effective and efficient choices migrating Delft-FEWS to a cloud-environment”

- **Incorporate cloud services in Delft-FEWS components**
- **Sharing knowledge for migrating to the cloud**

- In 2022, we continue learning from our ongoing cloud (migration) projects. These projects are focusing on the up- and downscaling of computational cores using docker containers and switching components on/off from a financial perspective.
- From a knowledge sharing perspective we will capture these experiences in our [documentation WIKI](#) and we will complete the documentation based on the material(s) we previously shared in the "[Delft-FEWS in the cloud](#)" [webinar](#) (from January 2022).
- Main contact for this roadmap theme is: [Gert-Jan Schotmeijer](#)



# Roadmap 2022 – Web Operator Client

- End of 2021 / early 2022: development & innovation sprints
  - Improve the underlying FEWS webservice
  - Organize the development process and tooling
  - Investigate and experience integration of Web OC components in other web-based systems

- **Deliver Web OC MVP in 2022**
- **Involve (potential) users in UX/UI design**
- **Approach external stakeholders for co-creation**

- Expected effort in 2022: ±140 days
- Main contacts for this roadmap theme are: [Daniel Twigt](#) and [Tom Bogaard](#)
- 



# Roadmap 2022 – Computational Framework

- The Computational Framework is the *mode* of Delft-FEWS to run scenarios which are not strictly connected to the 'here & now' like in operational forecasting systems. You can define and run scenarios in the (far) past or future, visualize, compare and manage them.

- **What-If Editor and What-if Template functionality fully available, also for Client-Server systems**
- **Interaction with Open Archive for storing and searching scenarios**
- **Exchange of scenarios between users**
- **Deliver blueprints for Deltares models**

- Expected effort in 2022: ±55 days
- Main contact for this roadmap theme is: [Peter Gijsbers](#)



# Contact

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