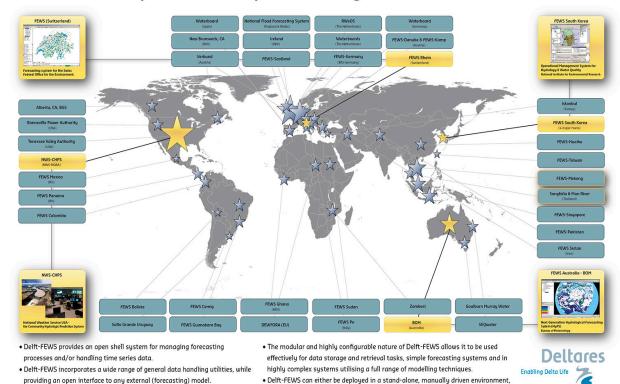


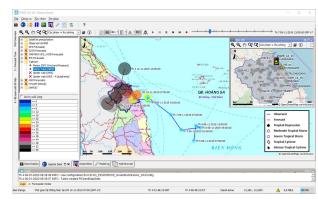
Delft-FEWS and Flood Early Warning

Delft-FEWS as platform for operational systems worldwide

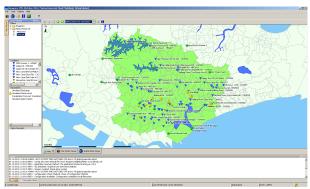


https://oss.deltares.nl/web/delft-fews/

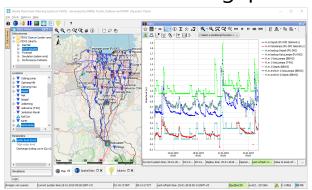
or in a fully automated distributed client-server environment.



Vietnam



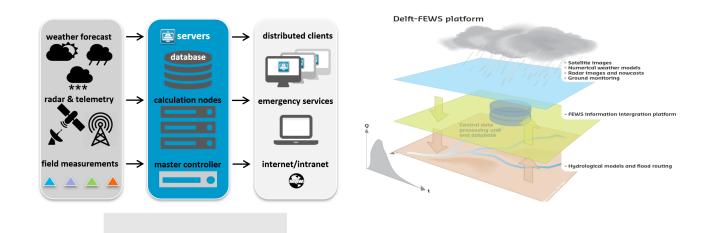
Singapore



Indonesia (J-FEWS)



Mainstream Flood Early Warning



Sparse measurements



https://www.dutchwatersector.com/



https://novalynx.com/

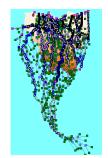


https://www.newsdeeply.com/



WR110 https://www.furuno.com/

Models

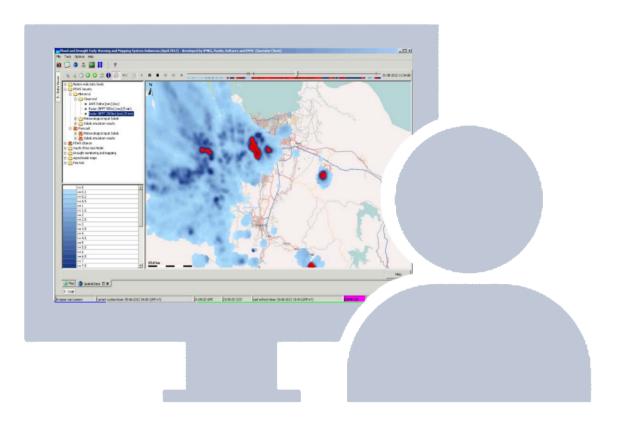




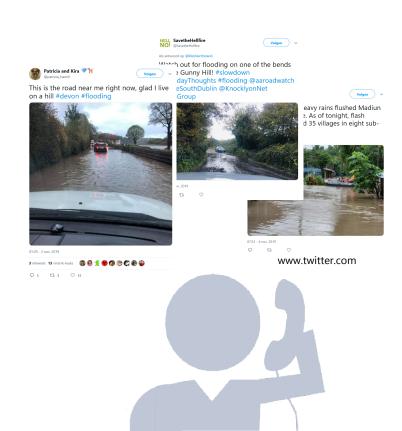


Deltares

What is happening on the ground?



What is actually happening on the ground? What is the impact of a flood event? How good was my forecast?



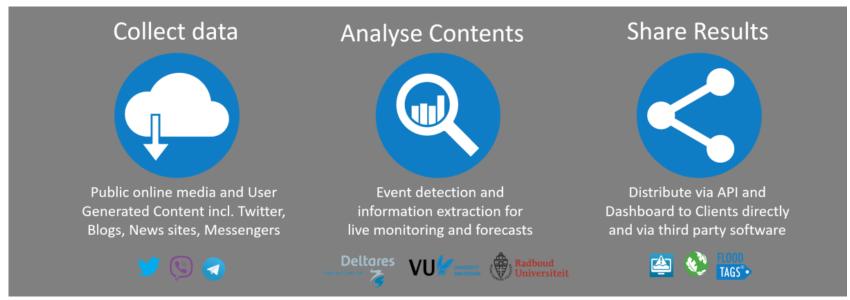
Exploring different solutions

Currents from ship based AIS Rainfall estimation from cellular networks Better DEMs from car navigation

••

Flood mapping and monitoring using online media

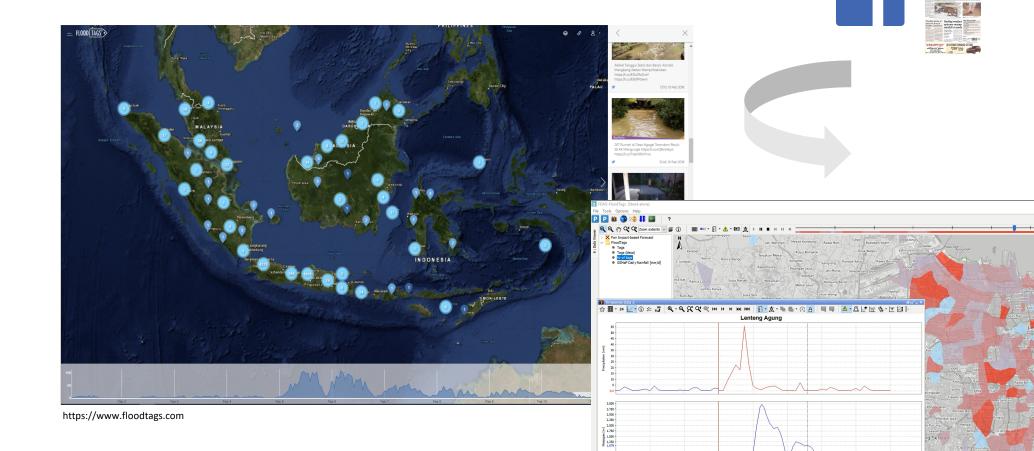
In cooperation with FloodTags (https://www.floodtags.com)





Mining online media

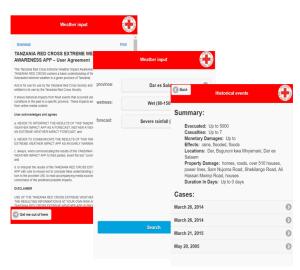




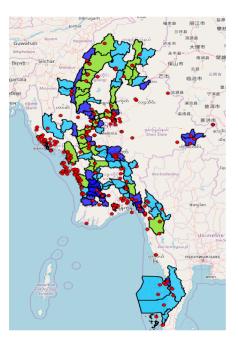
Mining online media







Impact based forecasting



Model validation



Active user engagement



Some challenges moving forward

- Access to data (proprietary, asset)
- Getting the signal from the noise
- From qualitative to quantitative data
- From R&D to operations







Your thoughts and ideas?

