# **On-demand DT**

& its interactability

Xiaohua Yang (DMI), on behalf of the On-demand DT (DE330) team





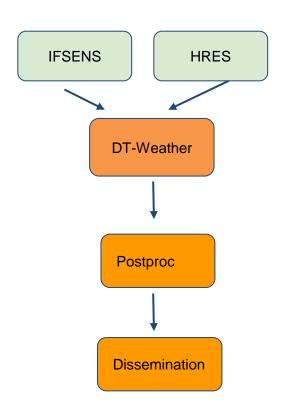




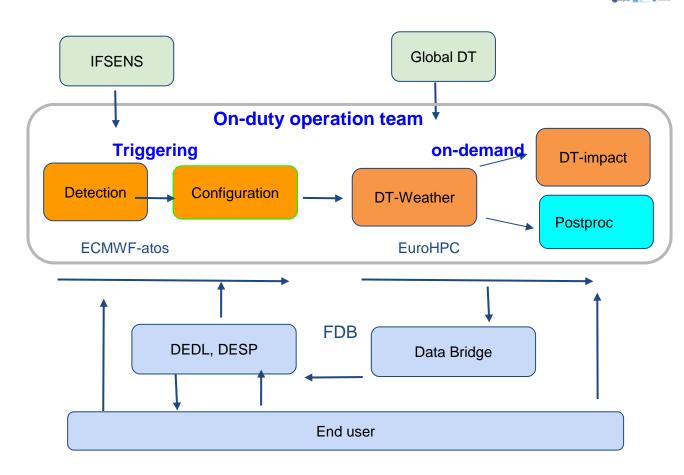




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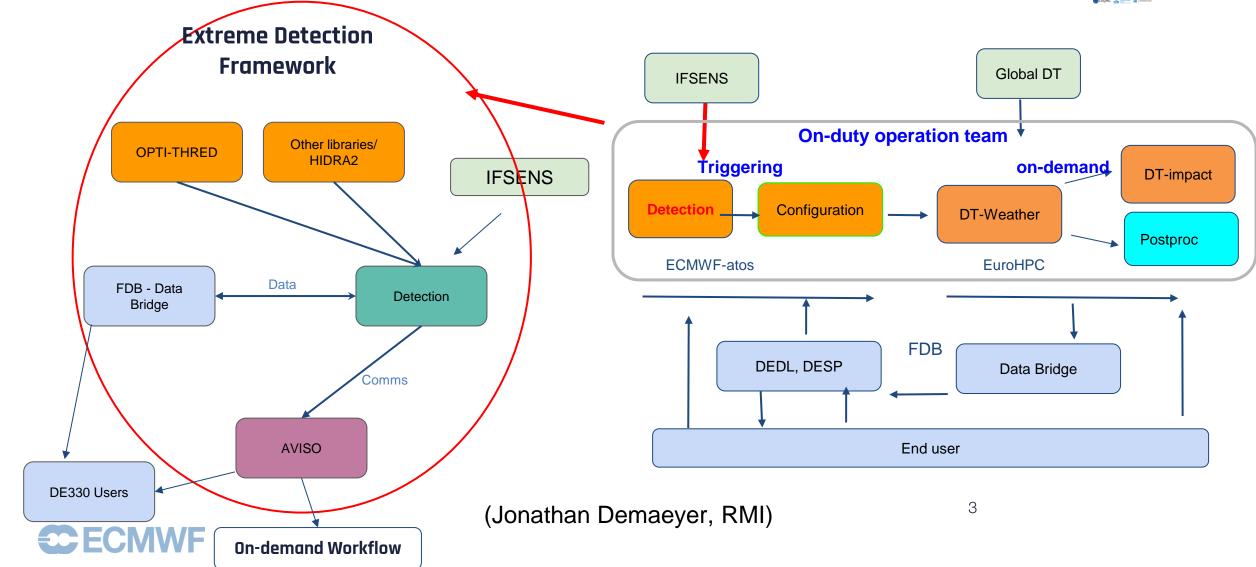
**Operational LAM** 



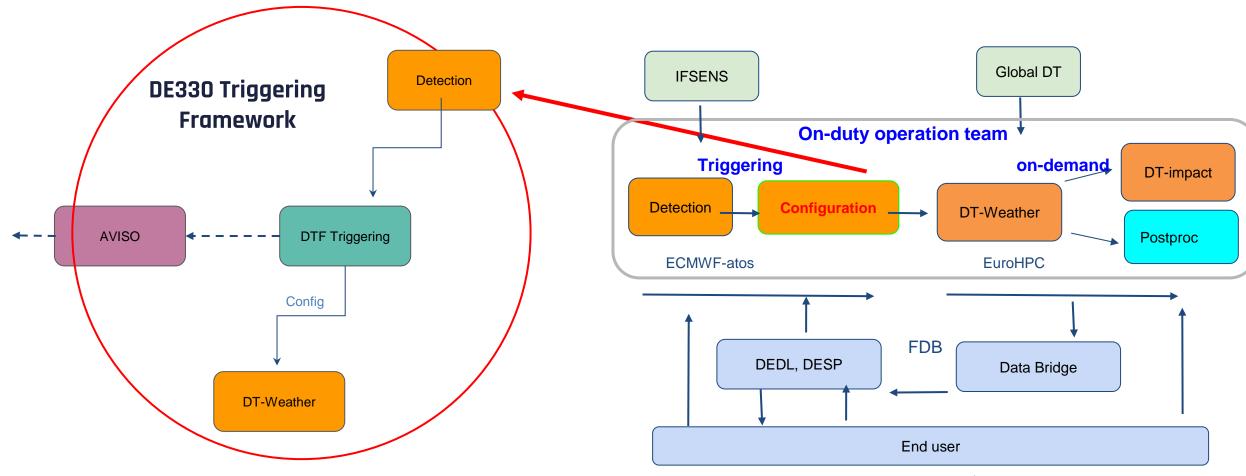
**On-Demand DT** 



# CECAMF CONTROL CONT

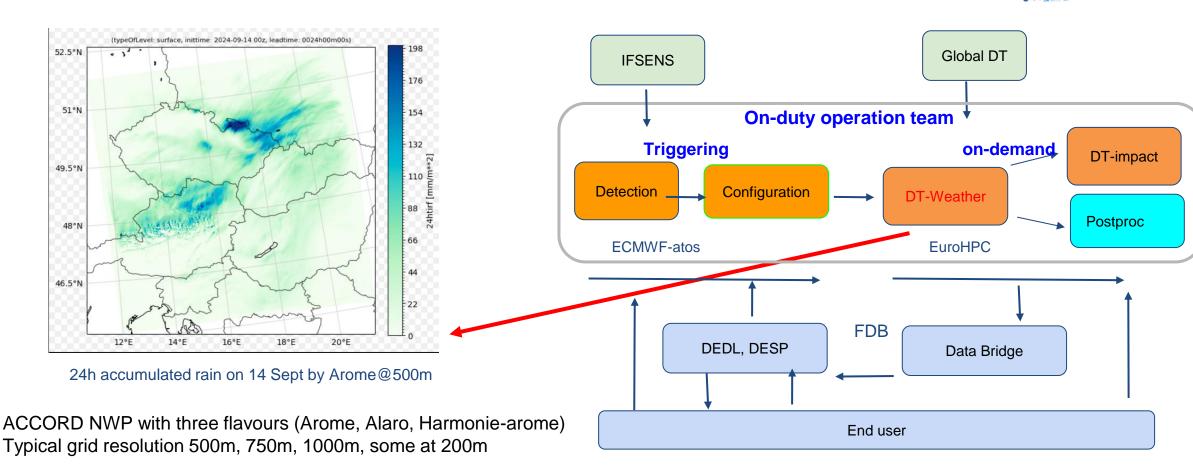






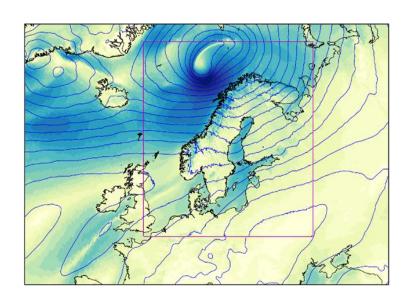


# Secret constants



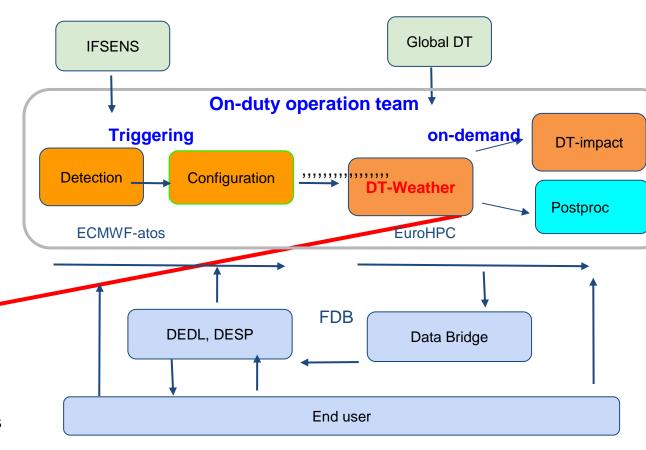


# CECHWIF CHOCKET CONTINUES CONTI



Al-based forecast for storm Ingunn Feb 2024 (Thomas Nipen)

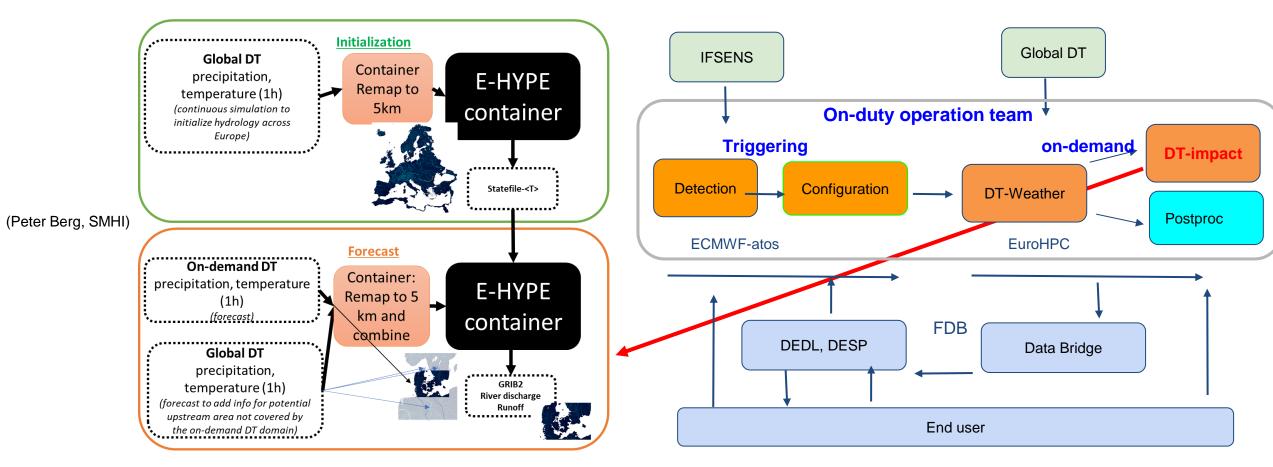
- Uncertainty quantification with either
  - o physics-based sub-km EPS with limited numbers
  - o rhigh resolution data driven weather forecast ensembles
  - o or via statistical-processing approaches





# CECHNIF CONTROL CON

#### Connecting components of the end-to-end integrated workflow around extreme events



More examples on coupling with impact sectors in the presentations at the Extreme DT sessions

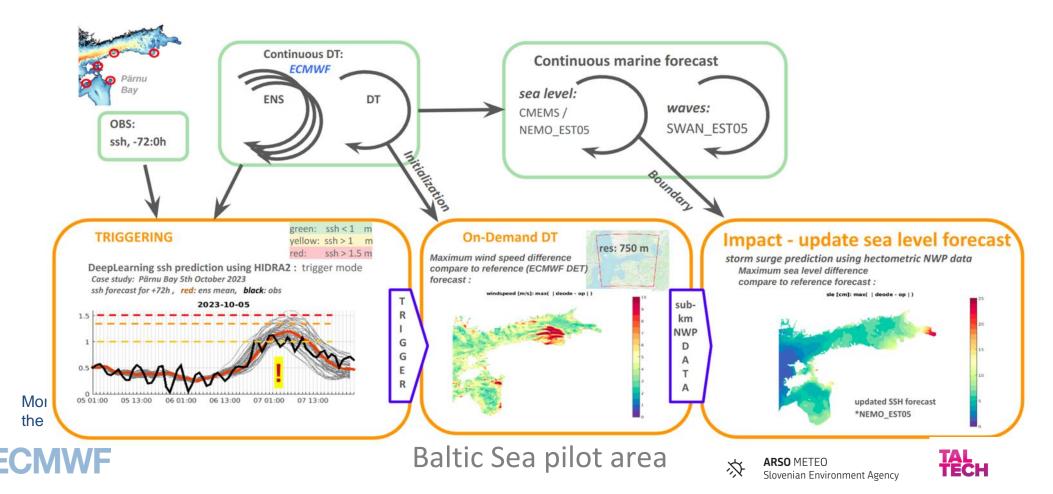


Connecting components of the end-to-end integrated workflow around extreme events

CECHWF

Contractor

Sea level height forecast: triggering and post-NWP SLH forecast with Nemo

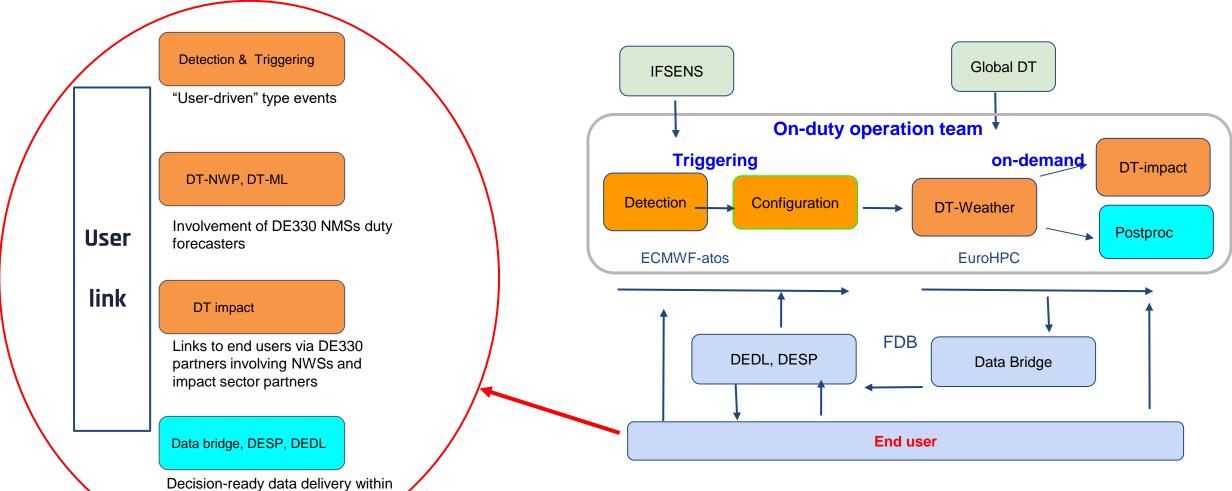


specified policy framework on data

bridge adjacent to EuroHPC

### On-Demand DT workflow





#### Iterative process to update the event-triggering lookup table

