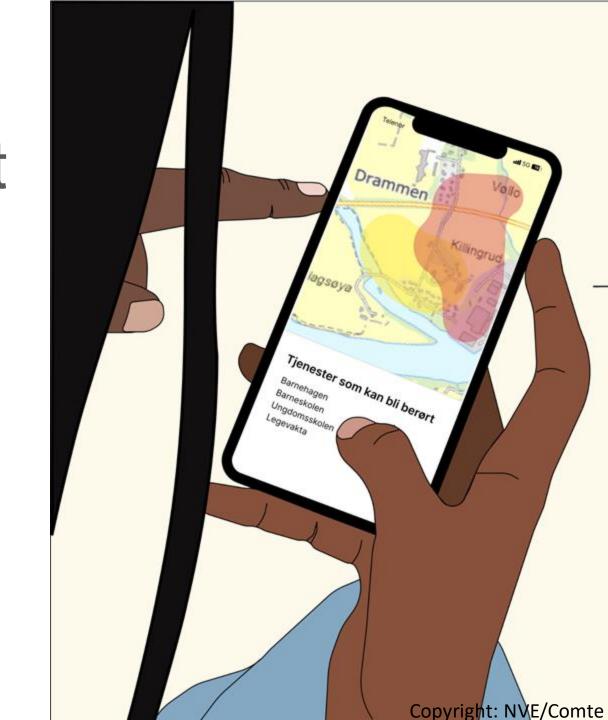


FlomRisk Decision support system

Trine J Hegdahl (NVE), K. Ugstad (NVE), Ø. Evensen (Comte)

Lillehammer 20.09.2023





FlomRisk - Aims



- External decision support system
- User oriented: Five pilot municipalities



Bergen



Stockholm







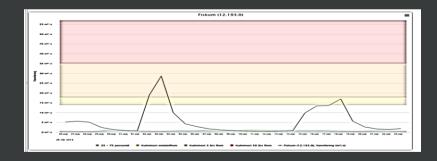
NORGE

Beiaren

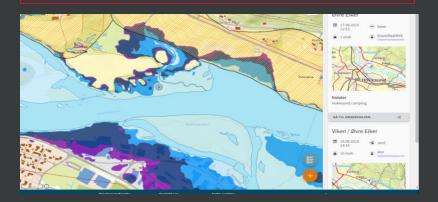


Why should we and how can we issue warnings based on impact?

Models -> streamflow



Models -> flooded area



Municipalities - maps

- Critical
- Infrastructur
- Buildings

Emergency prepardness and action plans

Communication:

- What
- When
- Understanding

Weather



Measurements



Other information





Decision support system

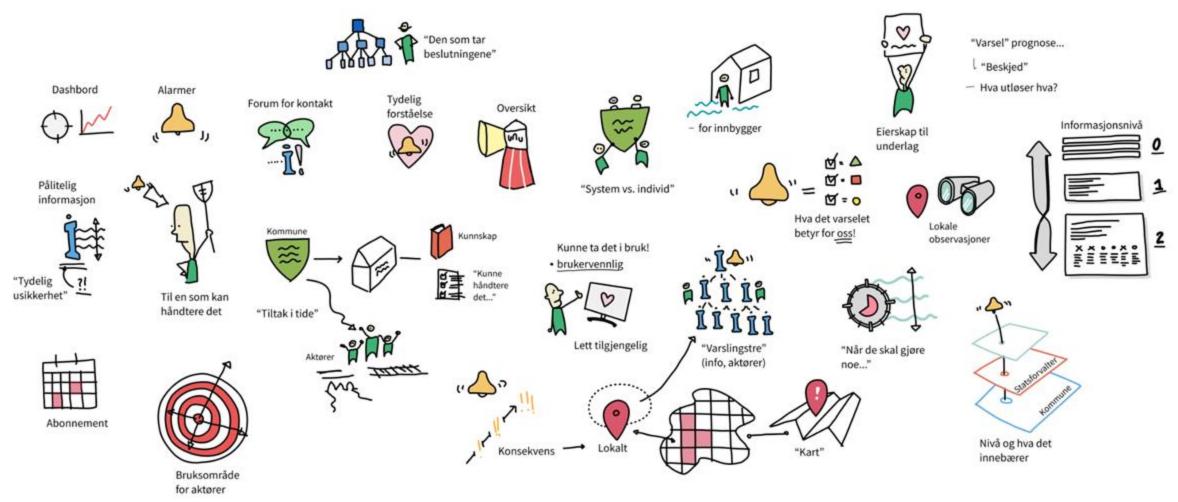
A tool, a system or a method that will help municipalities prepare for and priorities actions ahead of and during a flood event

Question:

what do WE think they need, and what do they ACTUALLY need? -> Service design approach.



Internal expectations



Copyright: NVE/Comte



Interviews and cocreation of sollutions

5 Municipalities

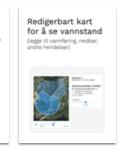




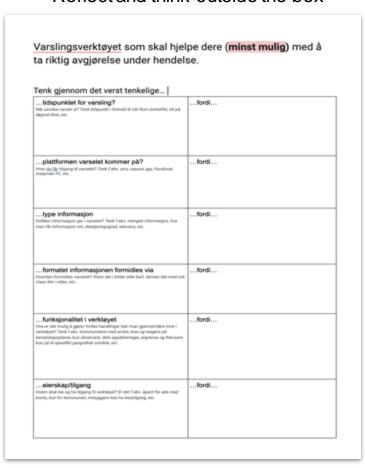
Interviews and cocreation of sollutions







Best and Worst case scenario-Reflect and think outside the box



ldékort-

Priortize and specify, new ideas.





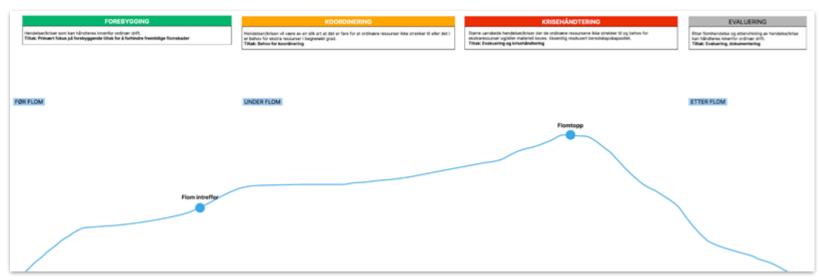






Timeline of event

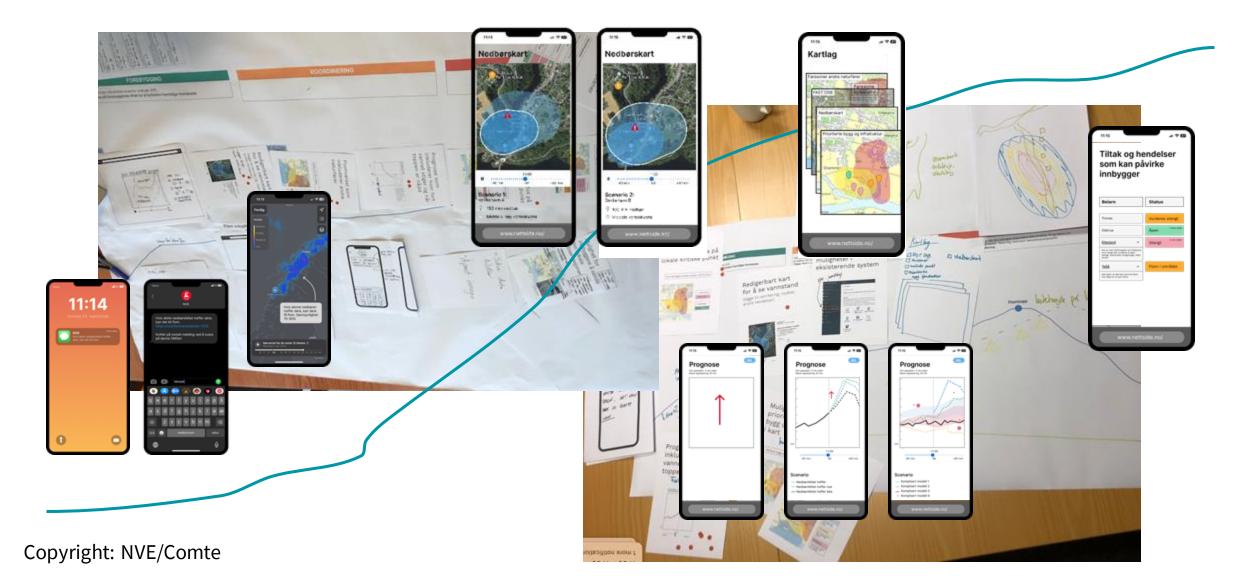
Vizualise and concretize needs and sollutions, during an event



Copyright: NVE/Comte



Practical use: what, when and who





Questions further:

- ➤ How can we define a decision support system that accommodate that decisions are made under uncertainty the sequence of decisions to be made.
- ➤ How can we communicate probability so that all can understand? (need we or should they)
- > Can we create a tool useful for municipalities independent of the size of the municipality, internal organizations, systems, routines etc.



Thank you!