

SPRICE – CROWDSOURCING SPRAY ICING INCIDENTS THROUGH THE *TIL HAVS* APP

September 2022

Crowd-sourcing observations

- Types of observations:
  - Weather observations
  - Spray icing incidents
  - Accidents or near-miss accidents
- Use of sea spray icing forecasts

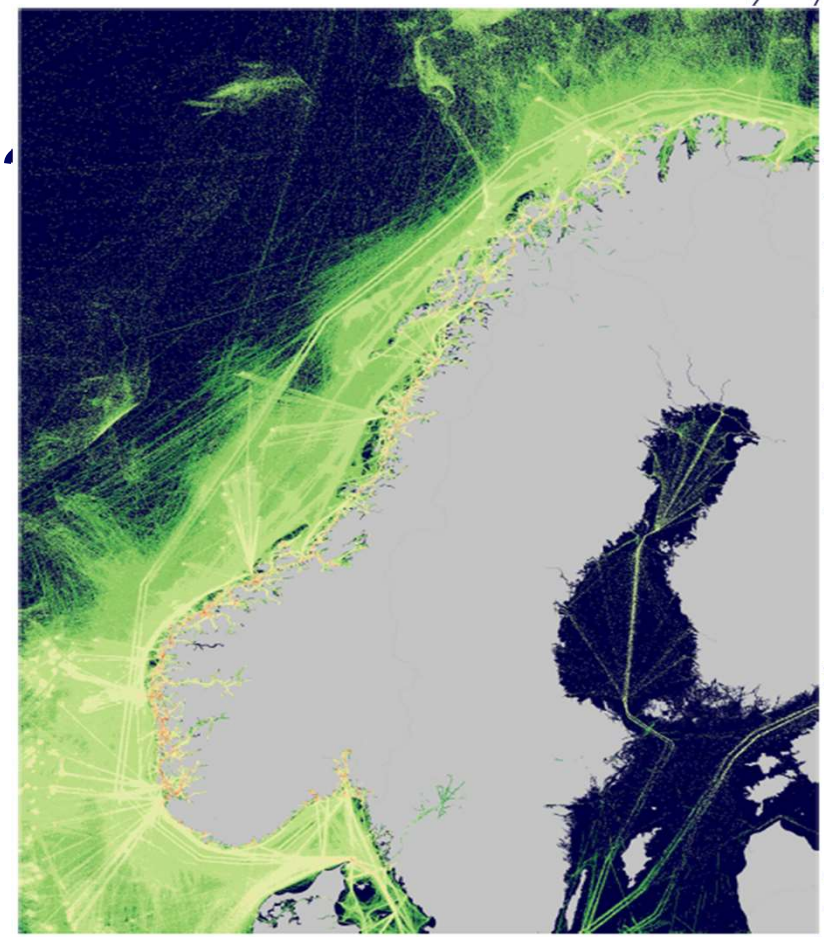
Benefits of crowd-sourcing observations

- Collects information from a real userbase, in real-time
- Creates a connection between science and society
- Allows for an opportunity to gain feedback from important stakeholders on the applicability of information collected, as well as how it is / can be used

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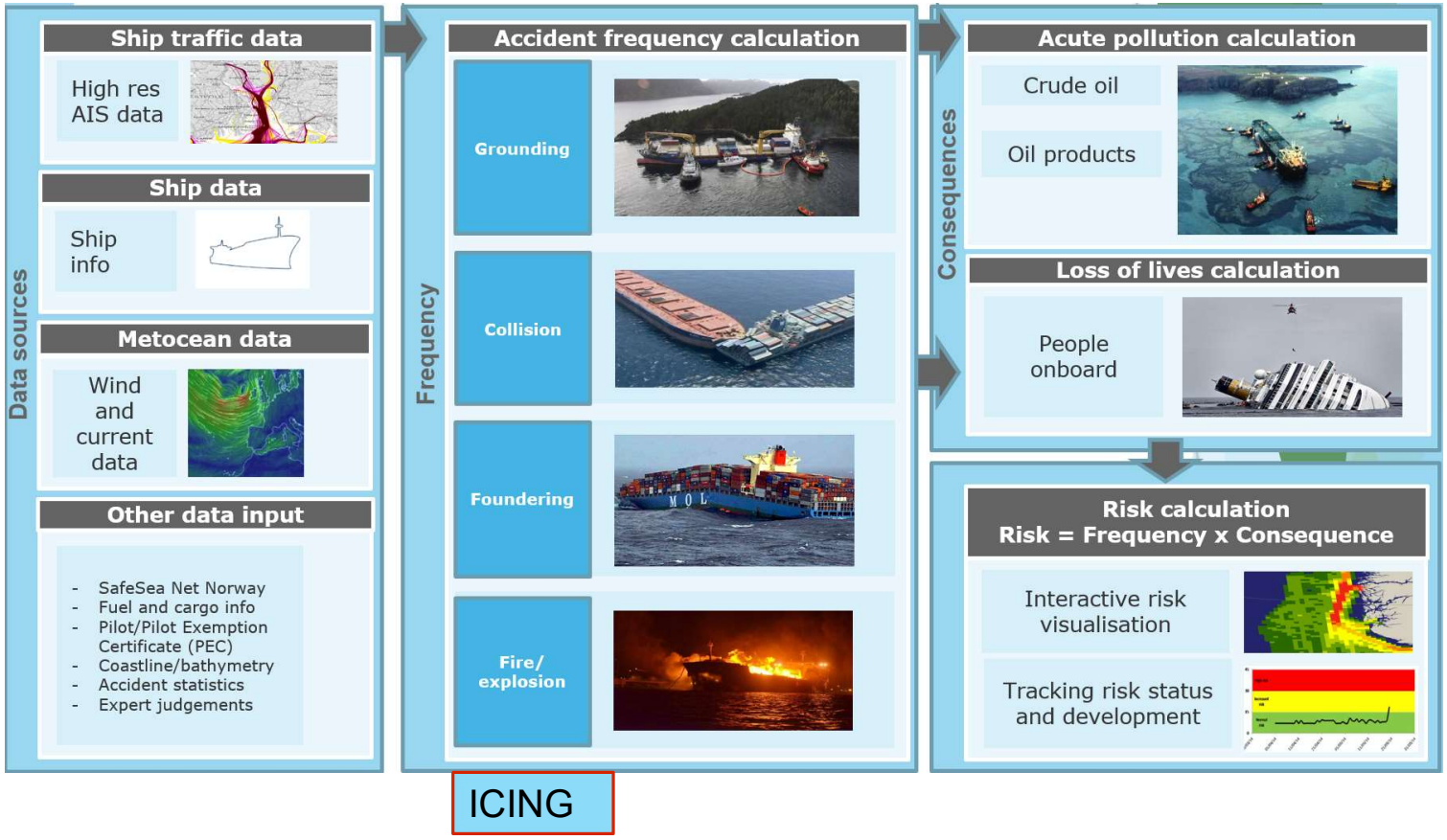
Hva er AISyRisk og EnviRisk

- AISyRisk
  - verktøy for beregning av risiko for utslipp og tap av menneskeliv som følge av skipsuhell.
- EnviRisk
  - verktøy for beregning av miljø-konsekvenser og miljørisiko som følge av utslipp fra skip.



KYSTVERKET

AISyRisk



Flow of development

- Phase I: gathering of user requirements and stakeholder consultations
- Phase II: beta testing and prototype of SPRICE app. Leverage existing FiskInfo app platform and user base.
- Phase III: soft launch of SPRICE app.
- Phase IV: integrate spray icing modelling / forecasts into BarentsWatch app / website.

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MET – Orap observation reporting form

- Free text forms
  - List of valid inputs, not easily accessible
- Time-consuming to fill out
- Report time in UTC
  - Conversion from local time needed by user



Setting av observasjons termin (UTC)

Obstid (UTC)
2022-09-13 13:11:11

Synop (UTC)
13 Sep 2022 | 13

Fartøyets kallesignal og posisjon

Fartøyets kallesignal (cal) | Fartøyets breddegrad (LaLa) Grader, minutter (desimalgrader) | Fartøyets lengdegrad (LoLo) Grader, minutter (desimalgrader)

Luft temperatur,sjøtemperatur

Temperatur (TT) | Sjøtemperatur i tidels grader (heltall) (Tw)

Vindobservasjoner

Når maks middelvind? (tz) | Maks middelvind i knop (fx) | Største vindkast i knop (fg)

Bølgehøyde(Vinddrevet)

Høyde for vindbølger (HW) i meter (Visuelt) | Periode for vindbølger (PW) i sekunder (Visuelt)

Dønningshøyde

Høyde for første dønningssystem (HW1) i meter | Periode for føste dønningssystem (PW1) i sekunder | Retning for første dønningssystem (DW1) i grader

Is på havet

Konsentrasjon av havis (ci) | Havisens utviklingsstadium (tykkelse) (Si) | Is på sjøen (bi) | Retning til nærmeste iskant (Di) | Sjøisforhold i øyeblikket og utviklingen de siste 3 timer (zi)

Is på fartøyets skrog

Årsaken til isingen (Is) | Istykkelse (EsEs) i centimeter | Endring i isingen (Rs)

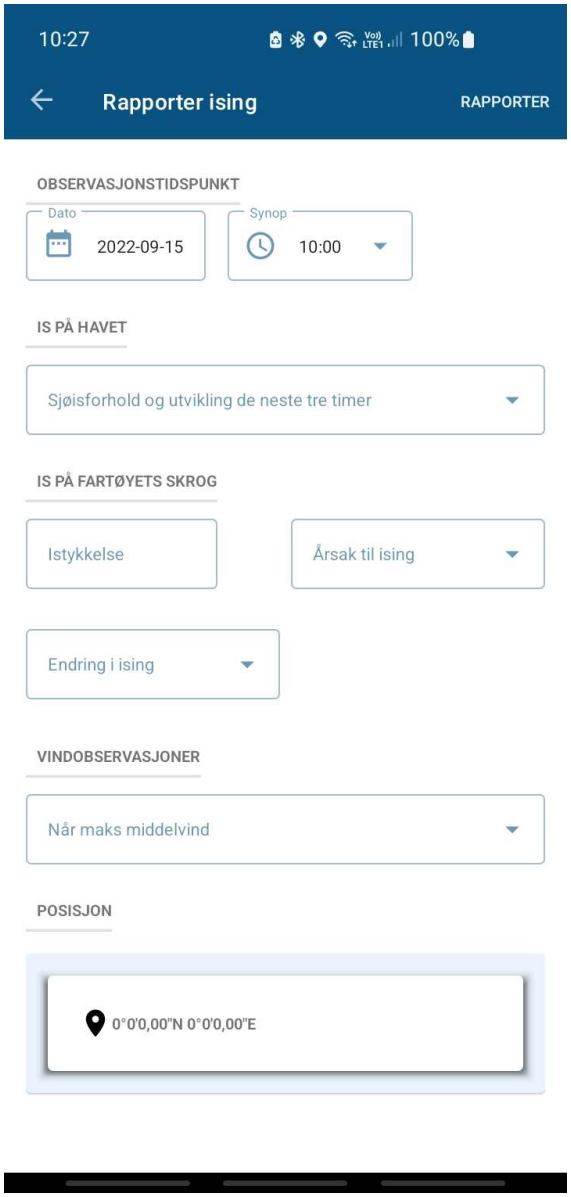
Når du er ferdig må du kontrollere meldingen ved å trykke på knappen ***Kontroller melding***

Kontroller melding | Avbryt registrering

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App observation reporting form

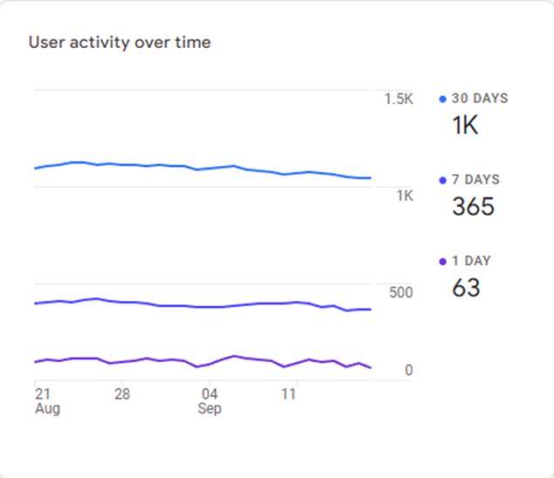
- Drop down menus for quick selection
- Automate what we can
  - Get position from device
  - Set default report time to current time
- Converts date/time to UTC behind the scenes, user only interacts in local time.

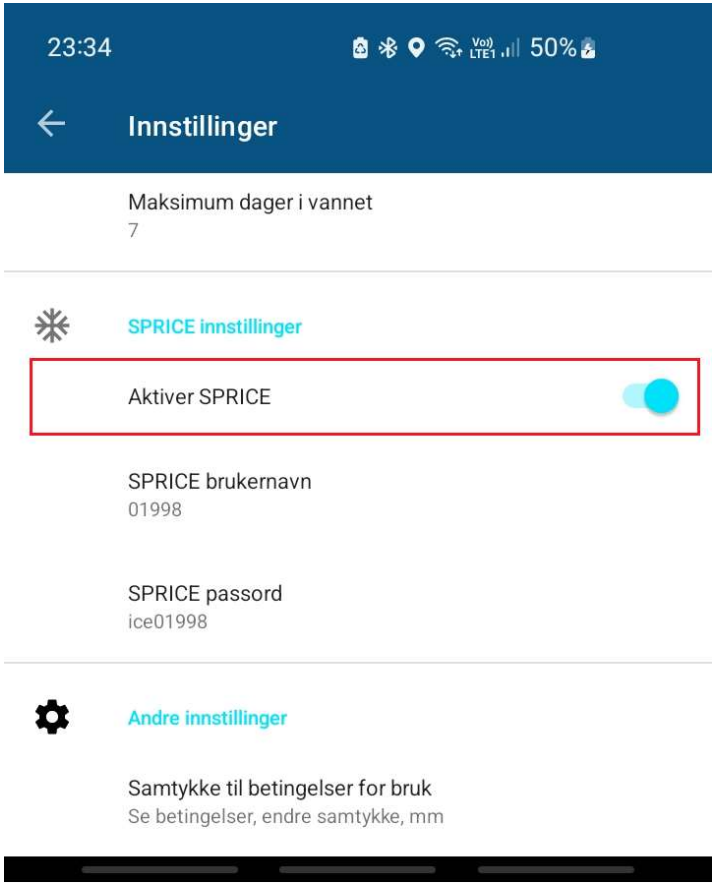


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App integration

- Extension of existing app
  - Activated in settings
- Will be available in a future app update
- Existing user base

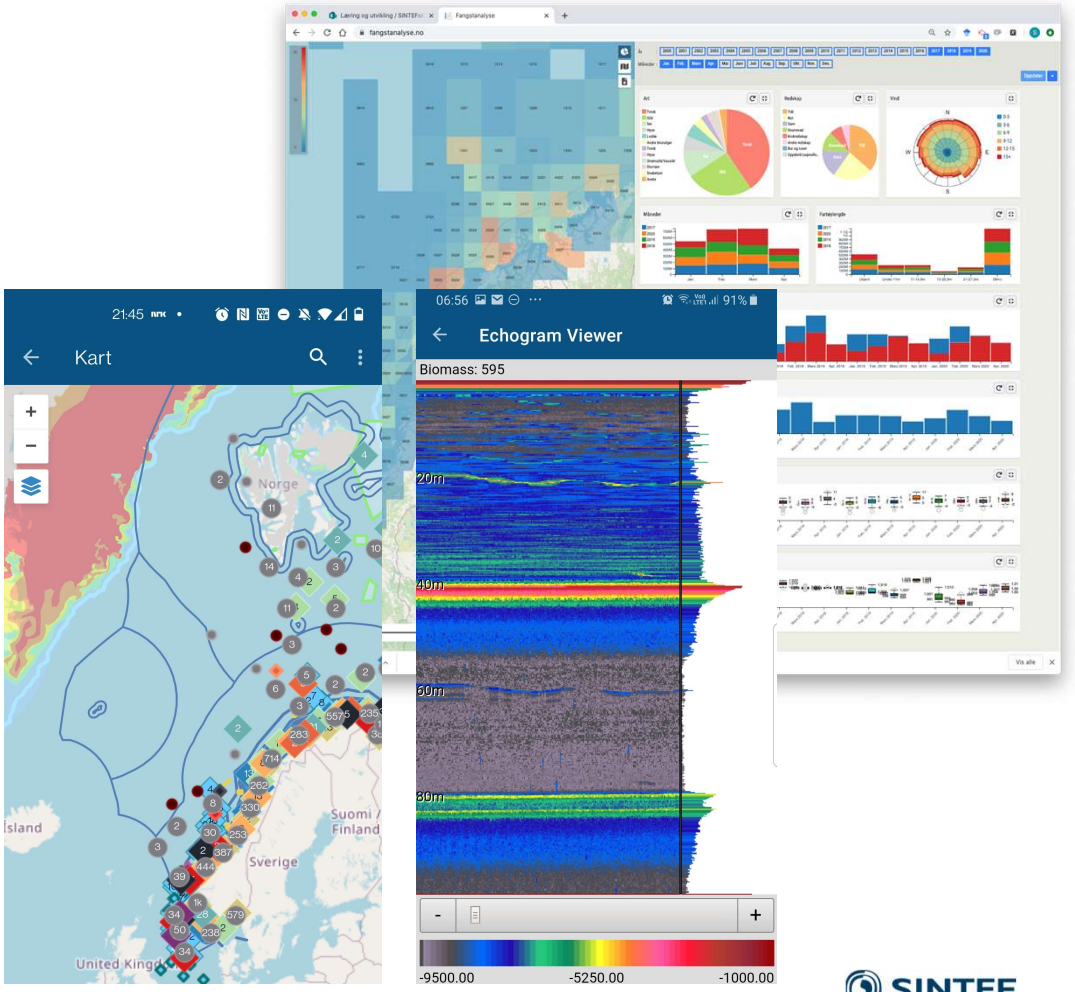




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Til Havs

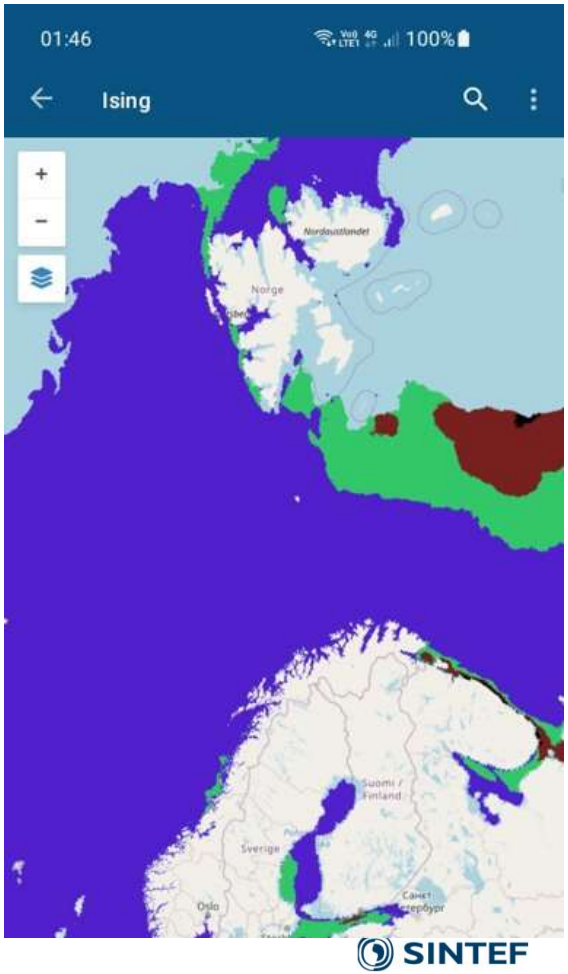
- Formerly called **FiskInfo**
- Platform for dissemination of information to the fishing fleet
- Iterative projects according to user demands and input - since 2013
- SnapFish – sharing of data snapshots from echo sounders
- Fangstanalyse – Historical catch data analysis



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Spray icing forecasts

- Implement route planning through BarentsWatch APIs
- Allow users to receive icing surveys
- More detailed icing reporting
- Drag-and-drop location selection
- See forecasts for different times
- Offline forecasts



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Next steps

- Launching app among a beta user group
- Collect information from beta users on the app's ease-of-use, as well as their thoughts on how the data is or is not useful to them
- Eventual dialogue / workshops with users on how the app supports their decision needs

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Technology for a
better society