



climatefutures

Navigating Climate Risk

Hva er Climate Futures?

Et nytt Senter for Forskningsdrevet Innovasjon (SFI), finansiert av Forskningsrådet

Oppstart 1. oktober 2020, varighet 8 år

Totalt ca. 40 partnere, budsjett > 200 mill.

Forskningspartnere



Statistisk sentralbyrå
Statistics Norway



Mål

Værvarsling



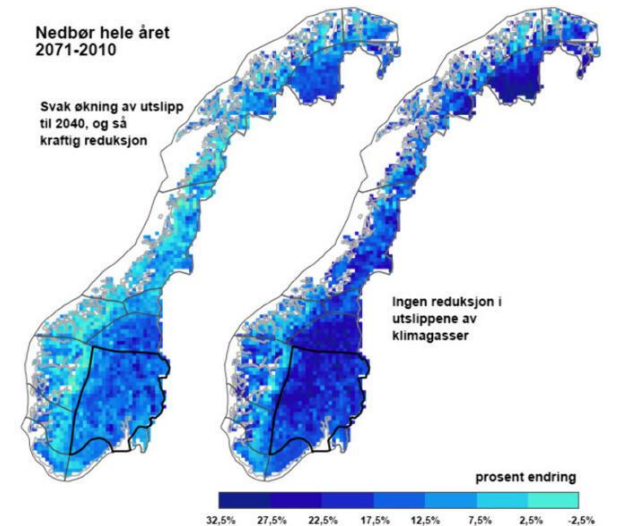
0 dager

10 dager

Mål: å utvikle nye og innovative løsninger for varsling og håndtering av klimarisiko fra 10 dager til 10 år fram i tid, i samarbeid med en klynge av partnere i klima- og værutsatte sektorer

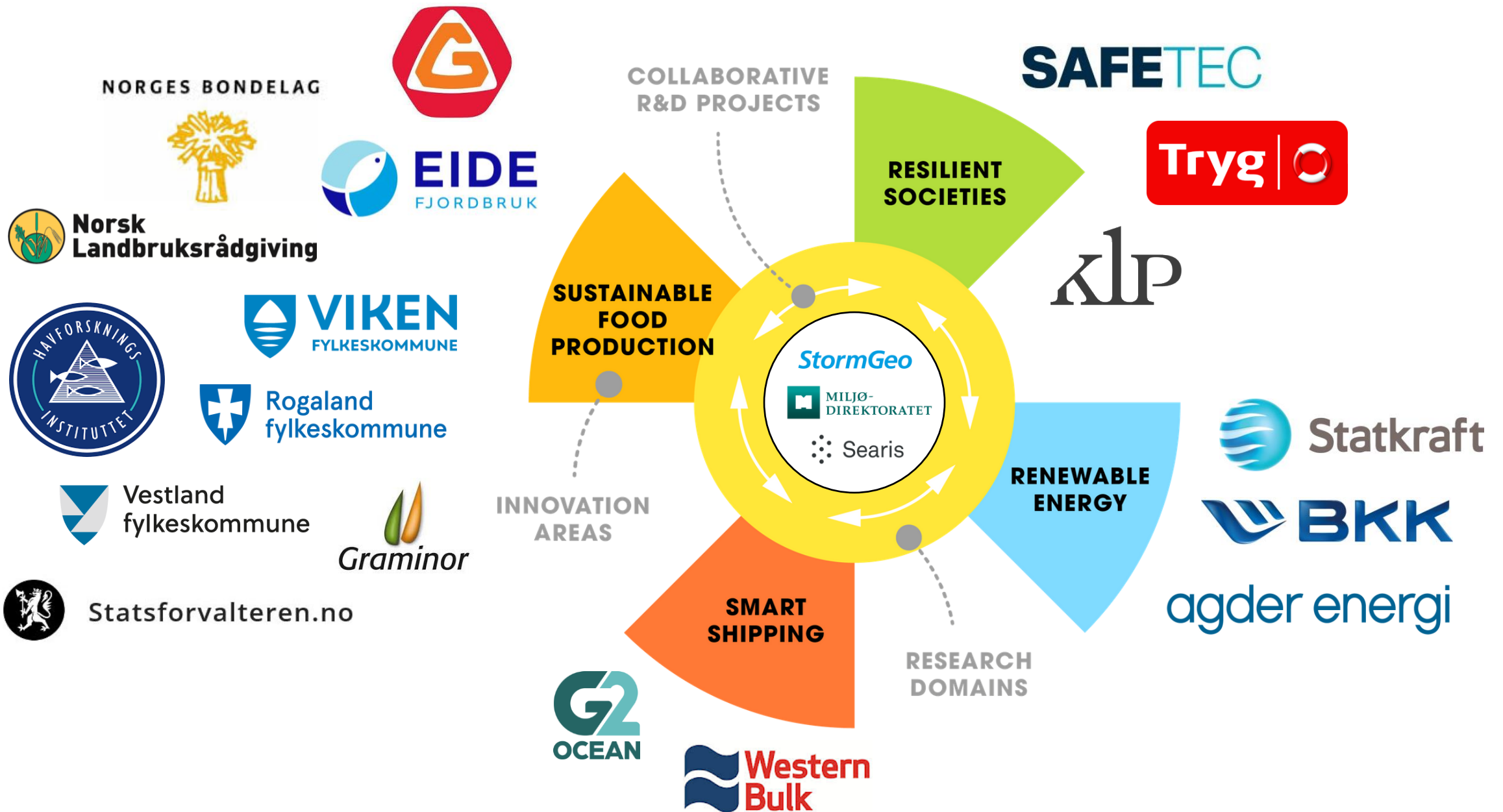
Tidshorisont

Klimaframskrivninger

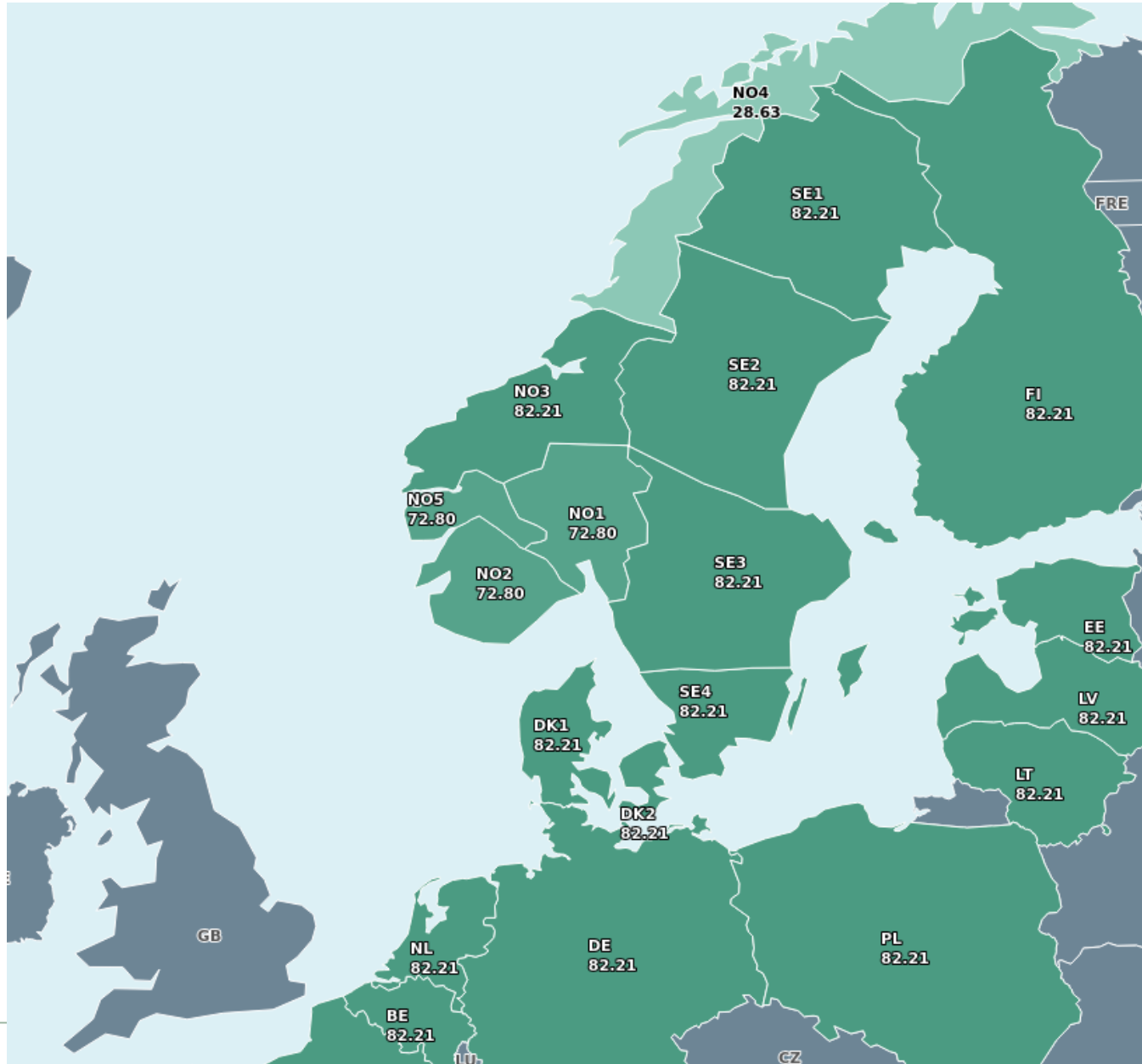


10 år

100 år



Modeling the Nordic and European Electricity Markets



Masters Projects Topics in Energy Markets

- Demand for electricity and temperature forecasts
- Renewable energy production and wind speed forecasts
- Precipitation forecasts and market bidding behavior
- Stratospheric winds and winter temperatures
- Price Forecasting

Methods Include

- Principal Component Analysis (PCA)
- State space models, time series methods, Kalman filters, etc.
- Generalized additive models (GAMs)
- Quantile regressions with spline functionals
- Survival time modeling

Structure etc.

- First and foremost, these are forecasting exercises
- Data are in place and can be up to 100's of GB in size
- Objectives are easy to articulate, high potential for industrial impact
- Clear metrics to assess a successful model
- Rough prototyping already been performed – high chance of success
- Feel free to contact me at alex@nr.no