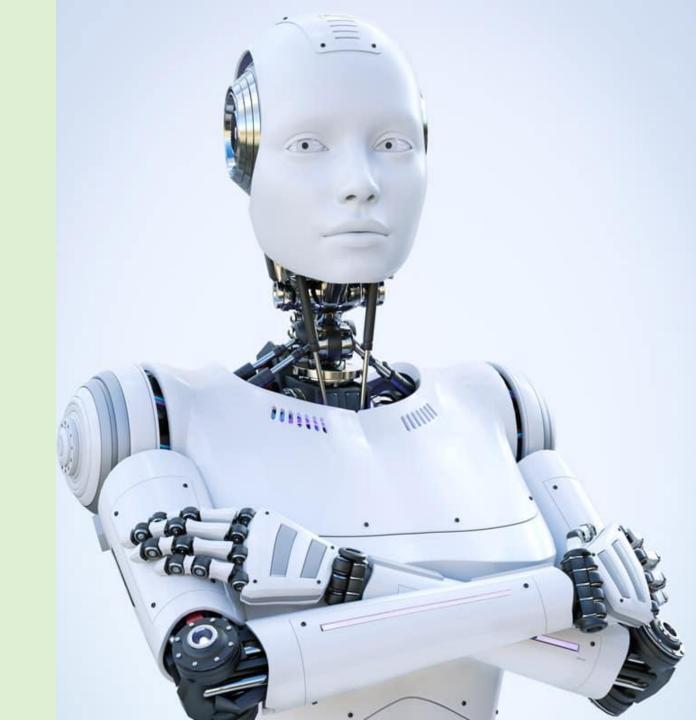


March 2024

Open Data - Open Tech Local innovation

Christer Solheim Gundersen



Norwegian strategies and OpenEPI











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RESEARCH DATA INITIATIVES INSIGHTS

All Eyes on COP27

Key Outcomes from the COP27 Climate Summit

Insights

What Is "Loss and Damage" from Climate Change? 6 Key Questions, Answered Insights

Closing the Emissions Gap: A Climate Action Roadmap for Limiting Warming to 1.5 Degrees













Every year, humans continue to expand into large areas of tropical forests. The IPBES report published in 2019 noted that 100 million hectares of tropical forest has been lost in the years from 1980 to 2000. This is equivalent to tropical forest loss three times the size of Germany.

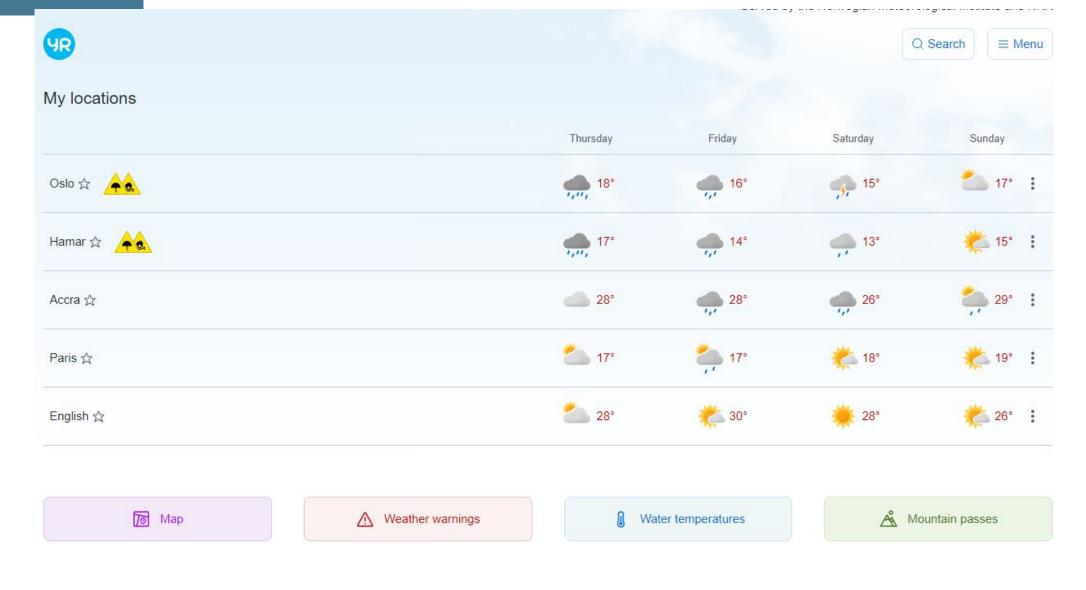
Drivers of Deforestation

Tropical forests have been and are still being converted to other land uses on a large scale worldwide. The main reasons are governance failures and the use of forest areas for agricultural lands and pastures.





What drives deforestation is a complex mix of many different actors and underlying causes:



Other services from The Norwegian Meteorological Institute



Norad Open
Policy for
Climate, Nature,
Ocean and Food
security

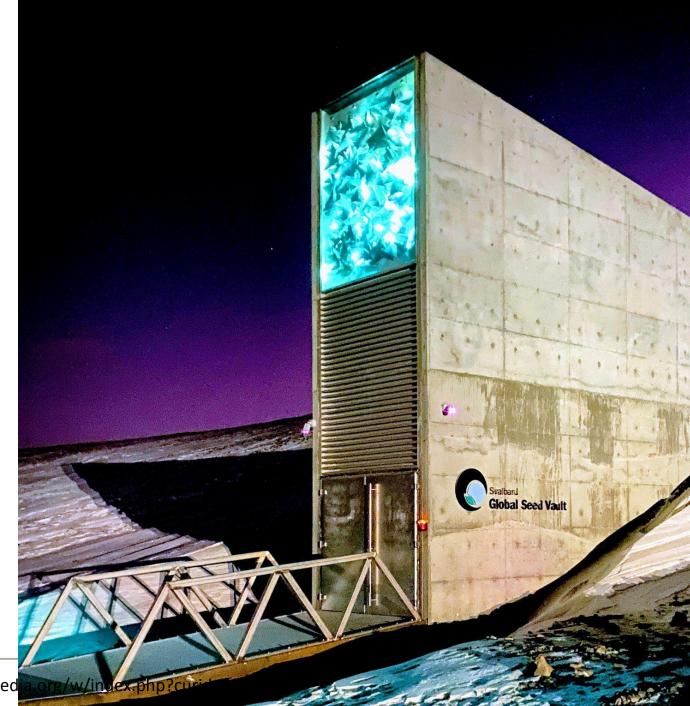


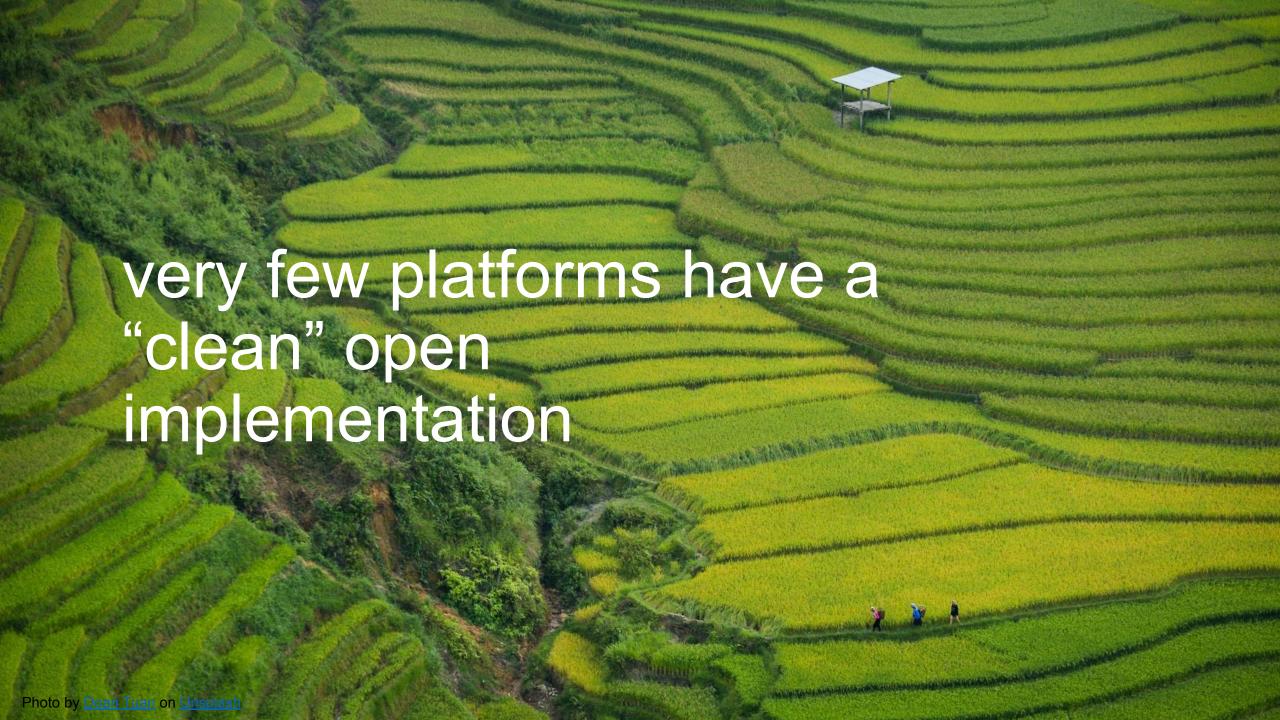


Challenges?



No long term plans for storage and archive of selected high value datasets







Organizational lock-in kills open data





No scalable way to support existing bedrock of the open movement

that we are all depending on....





No real way to support the open source developer community in our collaborating countries











Open Earth Platform Initiative

Help governments, NGOs and private sector working to solve climate related issues and maximize their impact

through open data, open source technologies and open Al

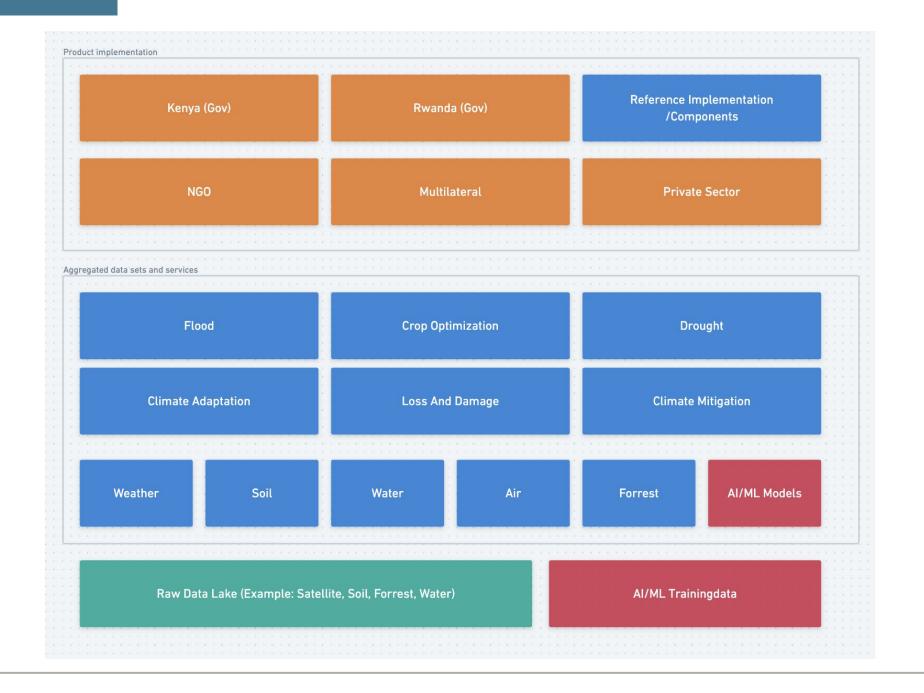
13.11.2023 openepi.io 19

Two main focus avenues

Long term
Global Data Vault
Storage and
archive of
High Value Data







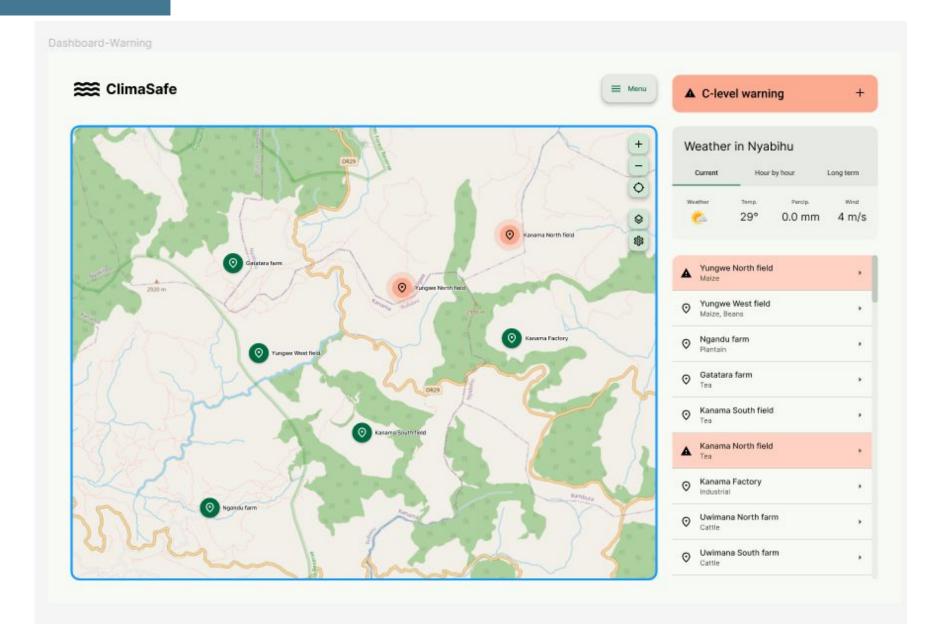
Not one platform - a platform of interoperable platforms

Local innovation?

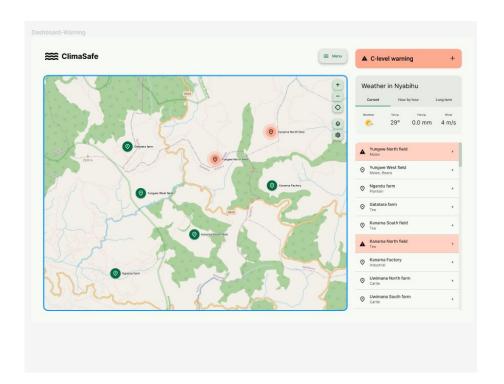


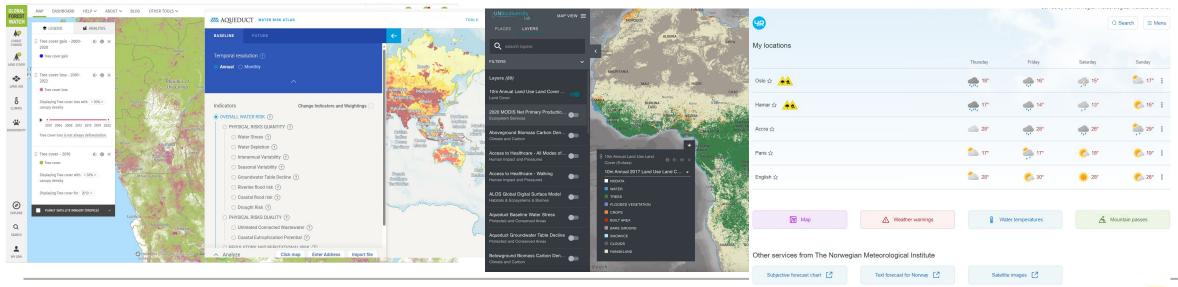
Open Policy

Third party perspective



Third party perspective

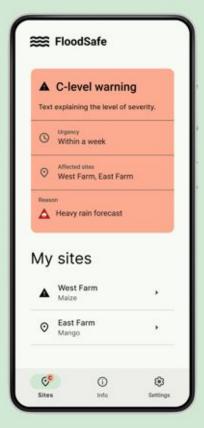


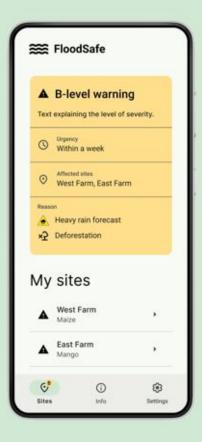


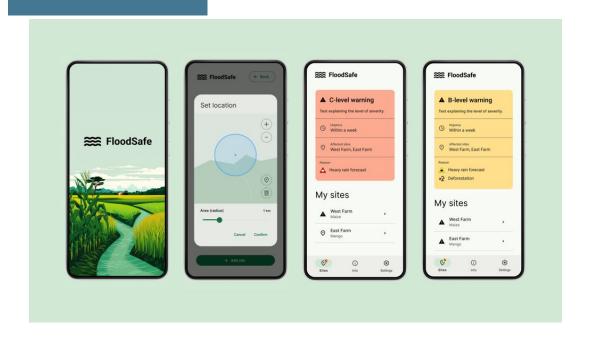


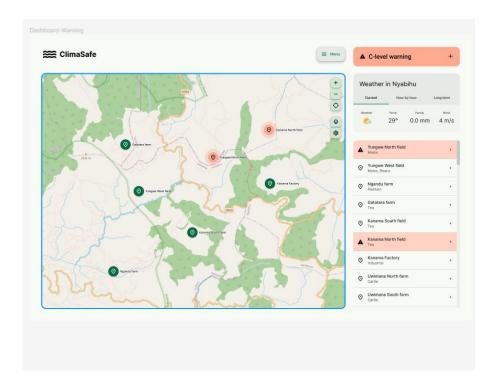










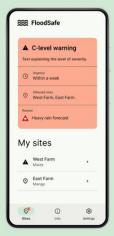


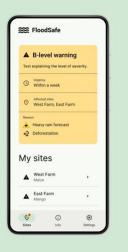


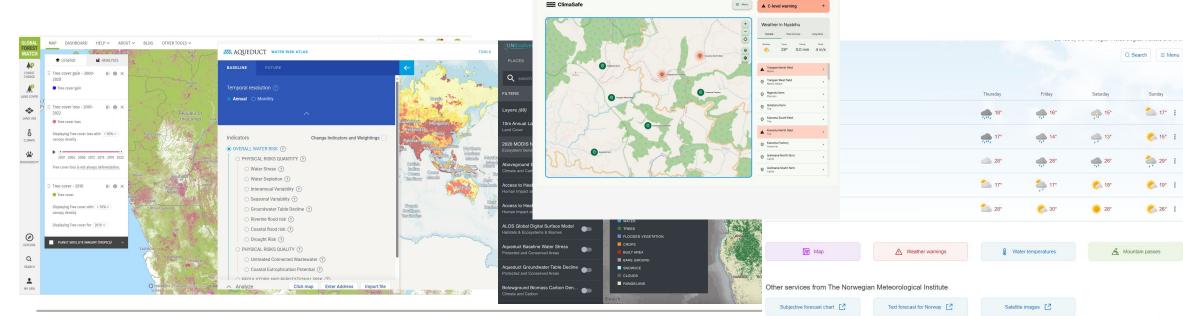










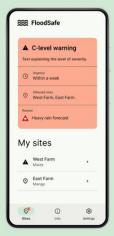


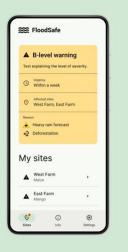


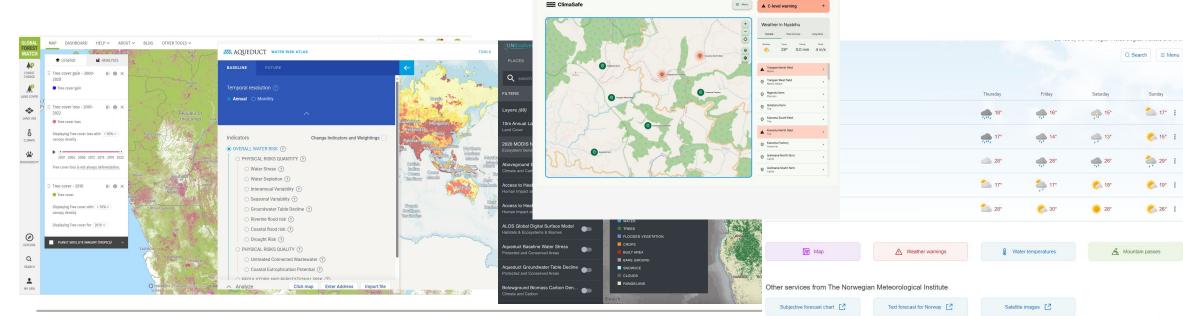
₹ 15° :









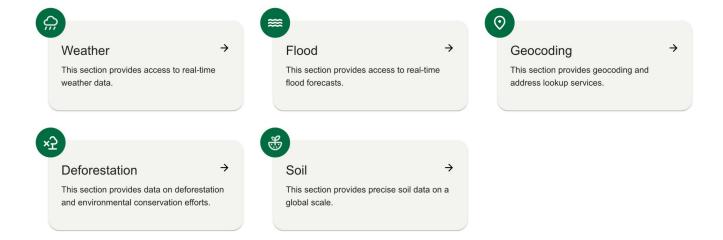




₹ 15° :

Data catalog of open data

We currently have 5 APIs available.



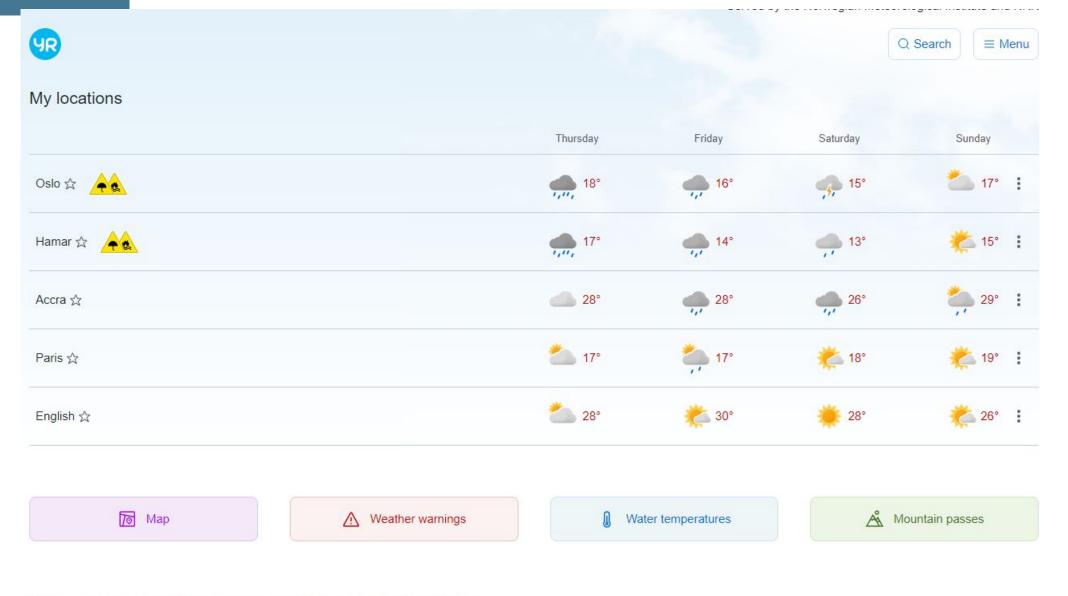
Client libraries

We provide two client libraries to make use of our data easier.

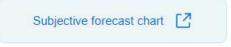








Other services from The Norwegian Meteorological Institute











Yr.no API Open source **AROME-Arctic model ECMWF** model Open source Supercomputers Open source Copernicus data Open source Satellites



Weather APP

Yr.no

API

AROME-Arctic model

ECMWF model

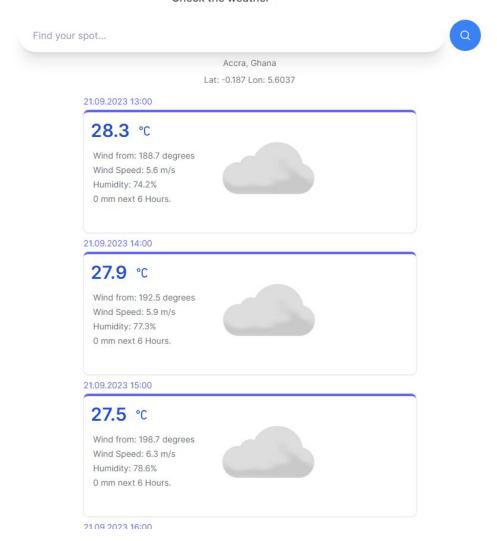
Supercomputers

Copernicus data

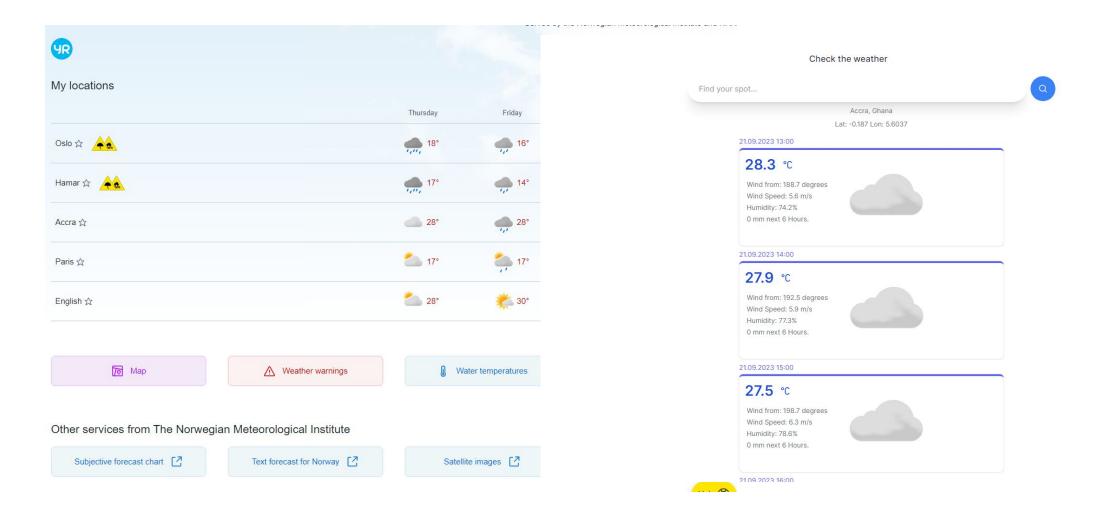
Satellites



Check the weather









Weather APP

Yr.no

API

Weather model

Weather model

Supercomputers

Copernicus data



Weather APP

Reference implementation

Yr.no

API

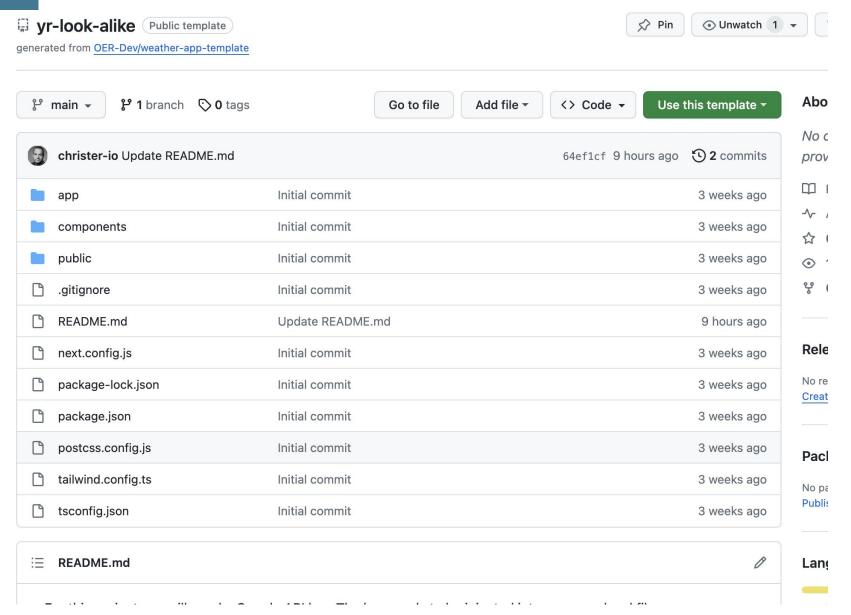
Weather model

Weather model

Supercomputers

Copernicus data





https://github.com/christer-io/yr-look-alike

Runway?

- 2-5 minutes





Open Policy

Re-use of data many possible use cases

Sector agnostic





March 2024

Thank you for your attention!

