Map Whiteboard

COLLABORATIVE REAL-TIME MAP MAKING

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Map Whiteboards

- ...are to maps what Google Docs is to Word Documents
- Allow people to cooperate on a map surface
- Creating/adding layers
- Drawing features
- Editing attributes
- Improving shared understanding
- Like this...

A Little from History

- **September 2016 INSPIRE Hackathon**

- Initial idea of map whiteboard came up at the INSPIRE Hackathon 2016 in Barcelona. The proof of concept application was developed. Final report from the hackathon can be found here.

- **September 2020 W3C/OGC Joint Workshop Series on Maps for the Web**

- The concept of the map synchronization was introduced with the workshop.

A Little from History

- **October 2020 COVID-19 INSPIRE Hackathon**

- First working version of Map Whiteboard was developed and [demonstrated](#).

- **2021 Dashboard app development**

- Application for administering the Map Whiteboard projects had been developed and heavily tested.

- **June 2021 Open Spring INSPIRE Hackathon**

- Business models were discussed through the hackathon [challenge #7](#) and later in 2021 during the [AgriHub INSPIRE Hackathon](#).

A Little from History

- **May 2022 AgriHub INSPIRE Hackathon**

- Second AgriHub hackathon aimed at technological advancements (authentication and stability of the system) and propagation through use cases.

- Read more about **MapWhiteBoard**

- Map Whiteboard Cloud Solution for Collaborative Editing of Geographic Information
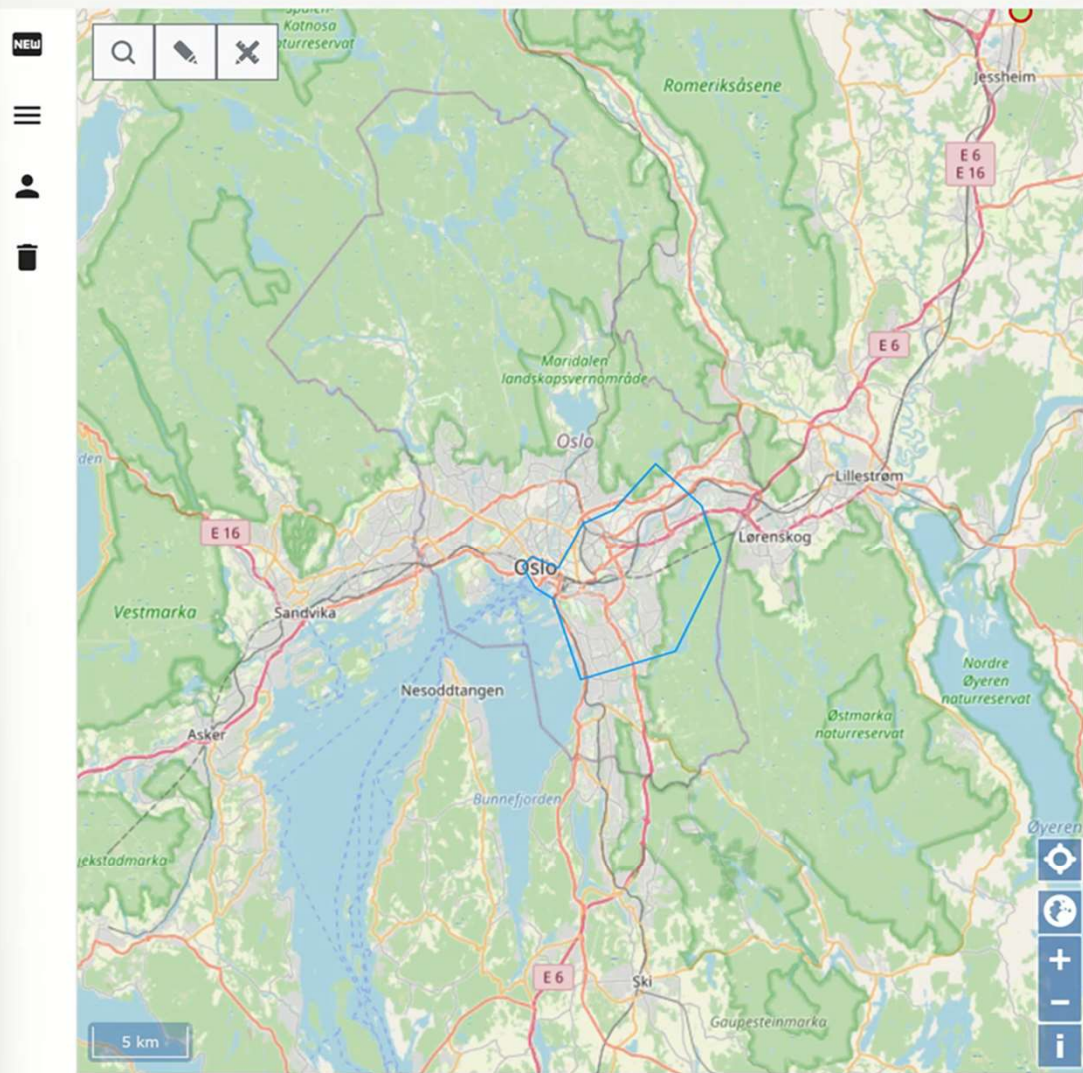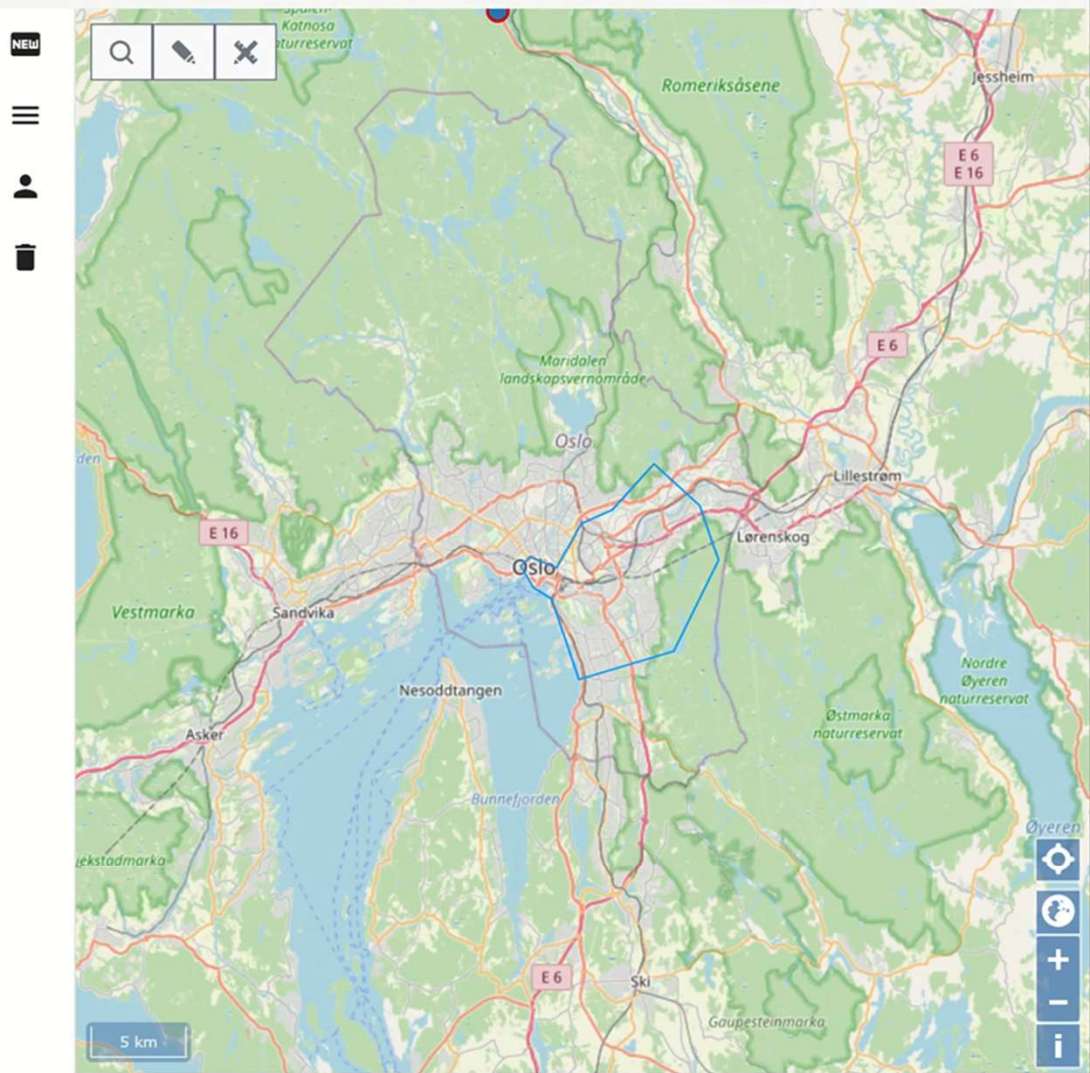
Business Cases for Map Whiteboards

- To demonstrate and validate the potential of Map Whiteboard technology as an enabler for sustainable innovation, it is necessary to implement thematic demonstrators that target specific domains:

Collaborative analysis for smart farming

Inspiration: digitalization in smart farming

Concept:

- The MapWhiteboard is used as an add-on to an application that performs automatic zoning of agricultural fields based on remote sensing data. The application takes as input a field, automatically acquires satellite imagery time series data, calculates indices such as the NVDI and uses the resulting 4D data to determine zones in the respective field that should be treated differently with respect to fertilisation, irrigation and pesticide application.
- The MapWhiteboard component adds value to this scenario in two ways:
- Users can indicate points that reside within distinct areas of the field
- Users can modify the resulting zones after auto-classification
- Users can add recommendations, rates to the individual zones

Integrated (spatial) planning tool
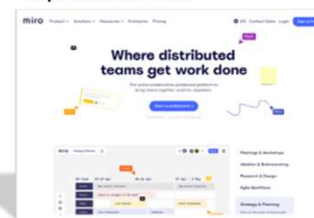
Inspiration: traditional planning

Concept

- The Map Whiteboard is used as a component supporting collaborative planning processes that involve regional sector authorities, local authorities/municipalities and stakeholders in the planning processes from business/industry/real-estate and NGOs/civil society/organisations.
- The traditional planning process requires these stakeholders to work together either separately or, traditionally, in meetings. Much of the interaction concerns maps where people with varying experience in interpreting maps and spatial data work together in meeting rooms on big screens or hunched above printed maps laid out on a table.
- The MapWhiteboard augments the meeting experience, allows people to see exactly what is referred to and can add contextual information to better understand exact locations. A person inexperienced in GIS concepts can see the map as if it was Google Maps, can switch to satellite/aerial imagery background and make simple annotations. A more technical user may add WMS services and other contextual information. All can see each other's pointers.

Generic meeting augmentation tool

Inspiration: Miro.com

Concept

- Inspired by tools like menti.com which provides polling functions to ensure participative conferences and miro.com which offers a comprehensive digital whiteboard functionality, the MapWhiteboard may be used to bring up a shared map and allow users to cooperate on the surface by drawing and annotating.
- After the meeting is ended, the annotations must be saveable, archived for future reference or for export into GIS tools or other visualization solutions.

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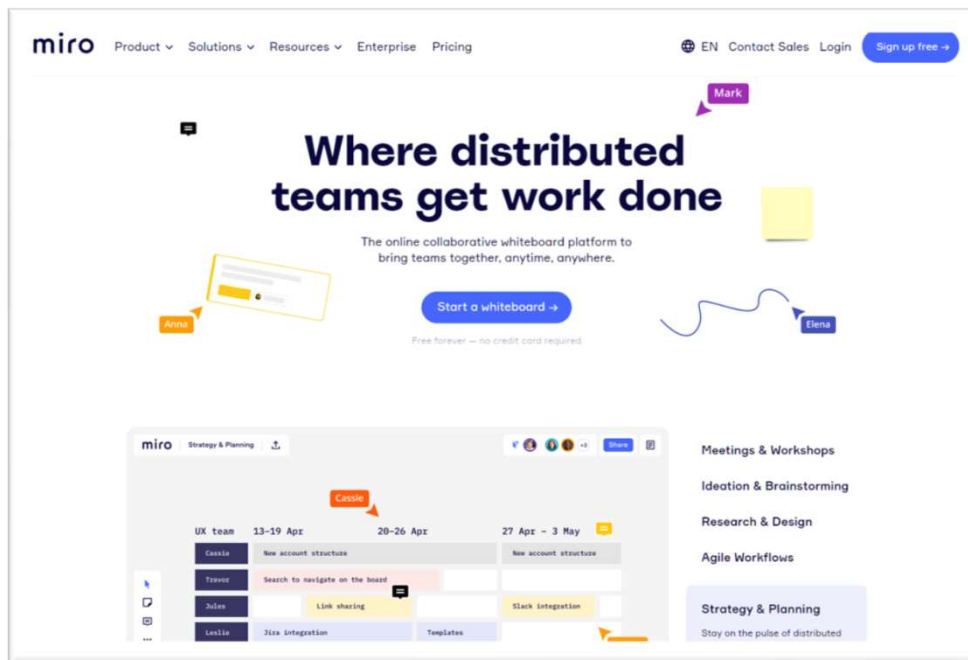## Inspiration: traditional planning

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