

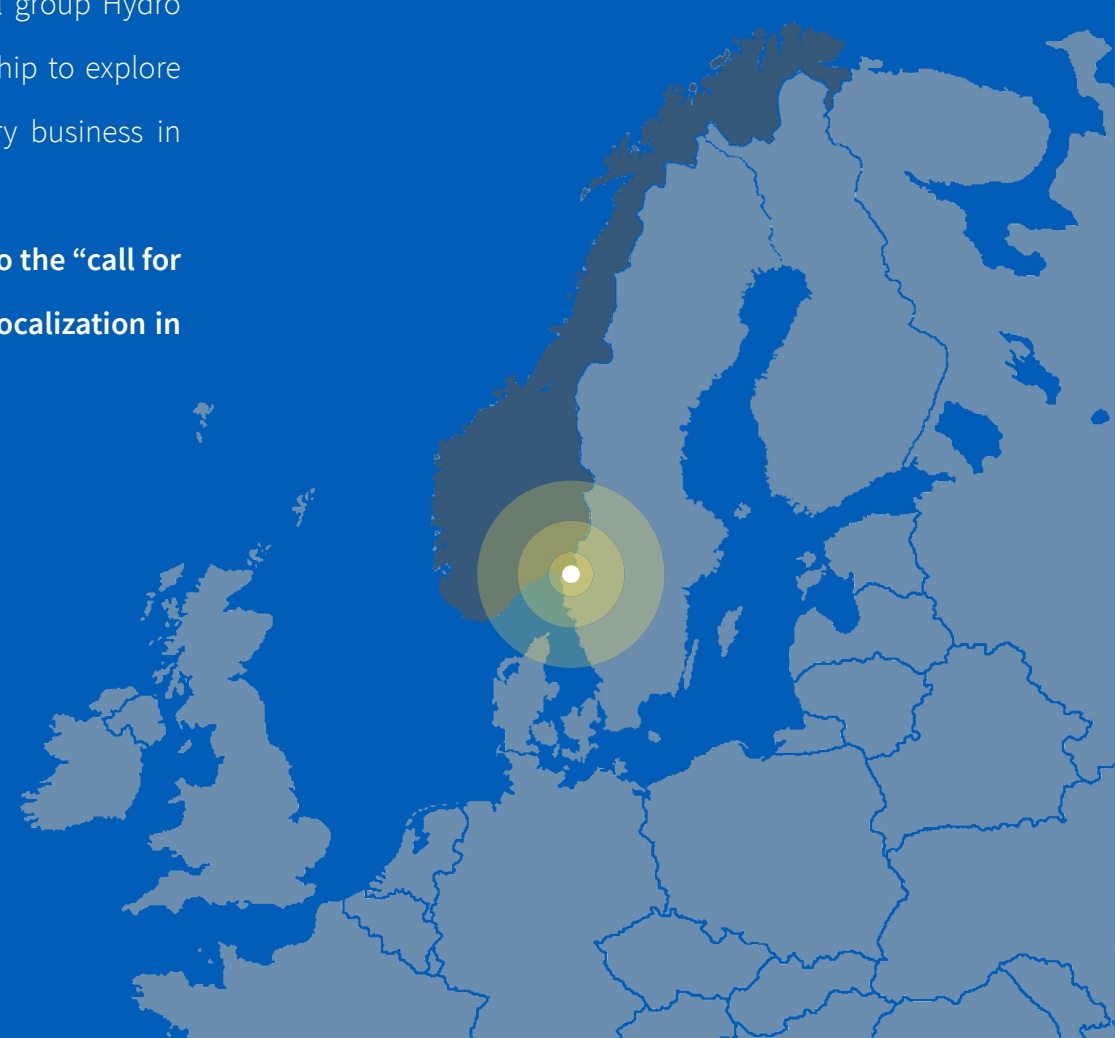
Site proposal

Leading technology company Panasonic, energy company Equinor and industrial group Hydro have signed a Memorandum of understanding (MoU) to form a strategic partnership to explore possibilities for establishing a sustainable and cost-competitive European battery business in Norway.

This document is prepared by the Municipality of Halden as a direct response to the “call for sites”, launched in december 2020, and highlights the many advantages of a localization in Halden and the larger surrounding region.



HALDEN KOMMUNE



“The Halden Spirit”

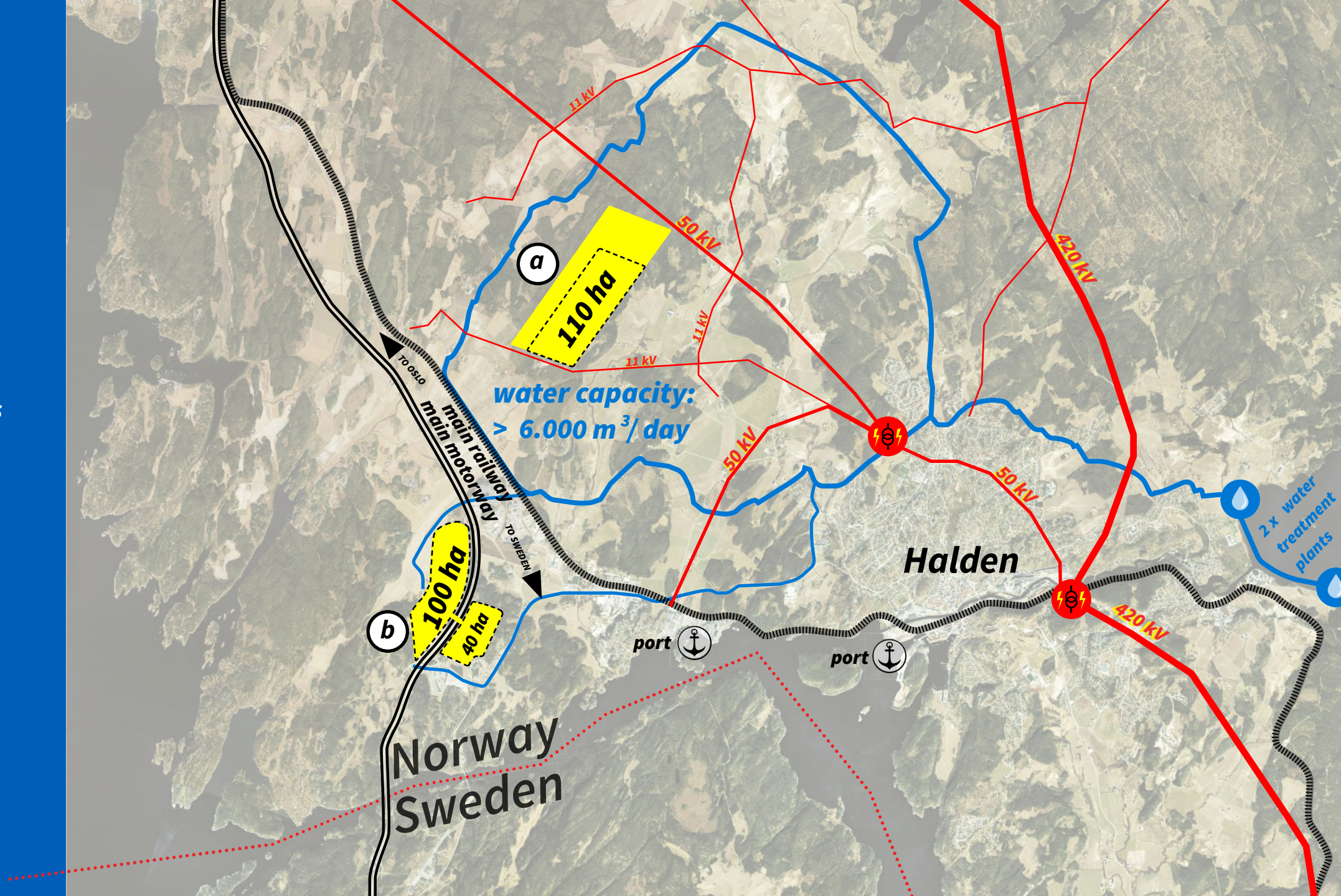
The term emerged in the early 70's, in the professional community associated with the *Halden Reactor Project*. The identity of the originator is unclear. The meaning, however, is certainly not;

It refers to the ability to overcome obstacles by regarding them as interesting challenges rather than problems, and by pulling together through times of difficulty, rather than giving up.

Site(s) attributes

site a: Tobruåsen

site b: Alsrødkloppa



alternative **b**

Land tenure:
1 single land-owner
which is positive
to a possible
development



alternative **a**

Land tenure:
7 different land-owners
of which all are
positive to a possible
development

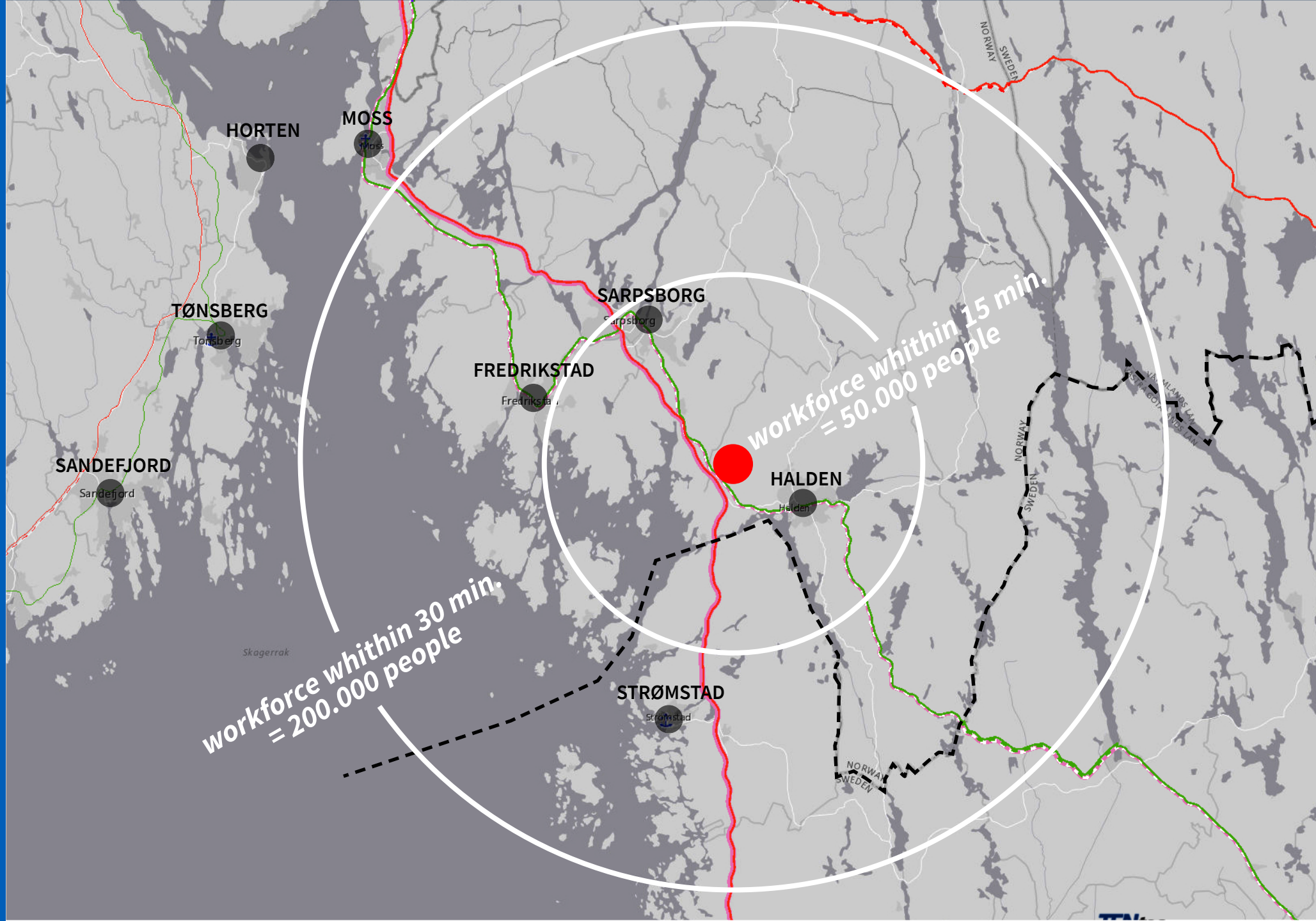


motorway
E6

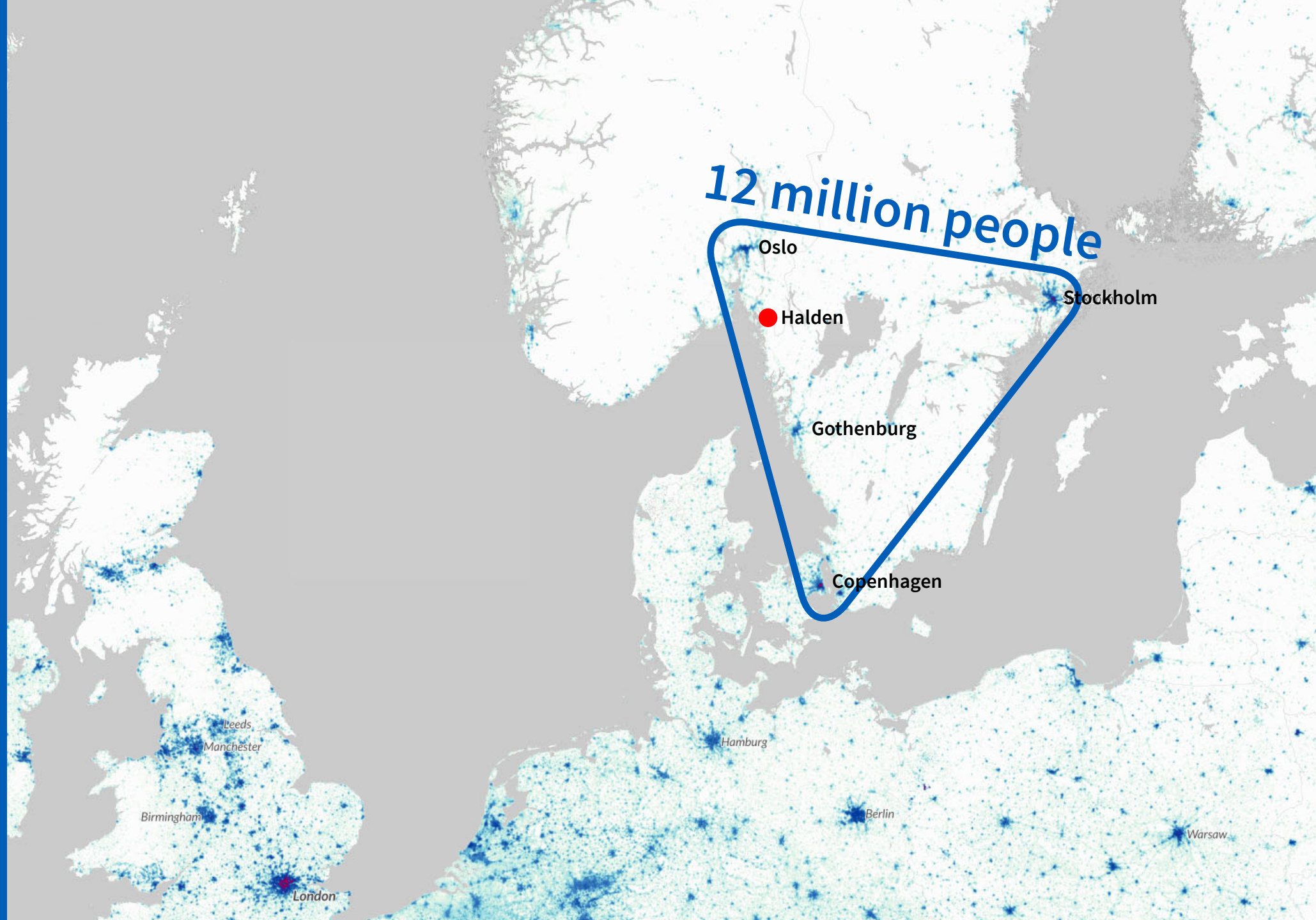
railway

to Holden town centre

Workforce

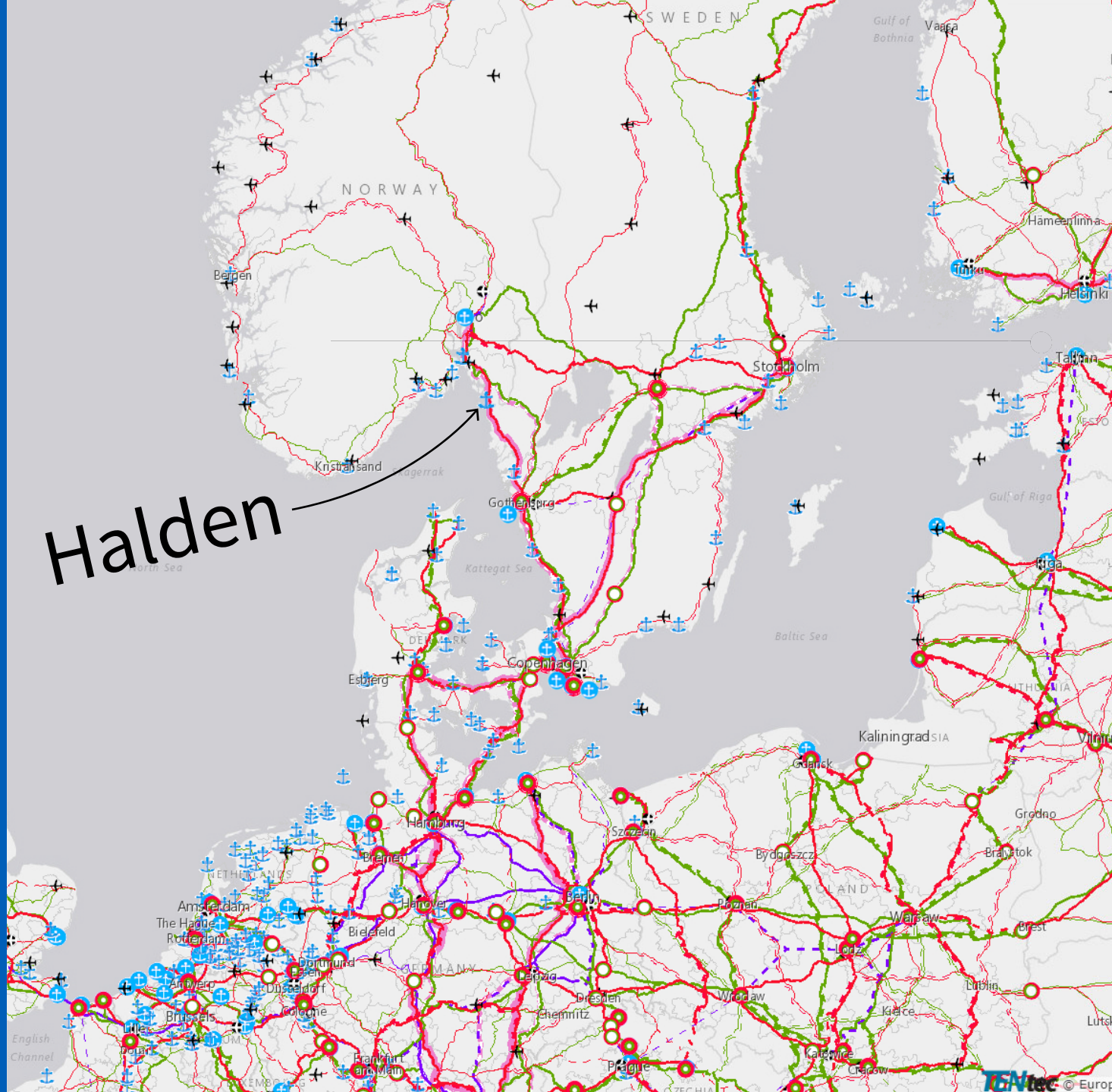



Workforce



Transport & freight

Halden





MOBILITY AND TRANSPORT
TENtec Interactive Map Viewer

Rail-Road Terminals

- Core
- Comprehensive

Airports

- Core
- Comprehensive

Ports

- Core
- Comprehensive

Roads

- Comprehensive Completed
- Comprehensive To be upgraded
- Comprehensive New Construction
- Core Completed
- Core To be upgraded
- Core New Construction

Railways

- Comprehensive High speed Completed
- Comprehensive High speed To be upgraded
- Comprehensive High speed New Construction
- Comprehensive Conventional Completed
- Comprehensive Conventional To be upgraded
- Comprehensive Conventional New Construction
- Core High speed Completed
- Core High speed To be upgraded
- Core High speed New Construction
- Core Conventional Completed
- Core Conventional To be upgraded
- Core Conventional New Construction

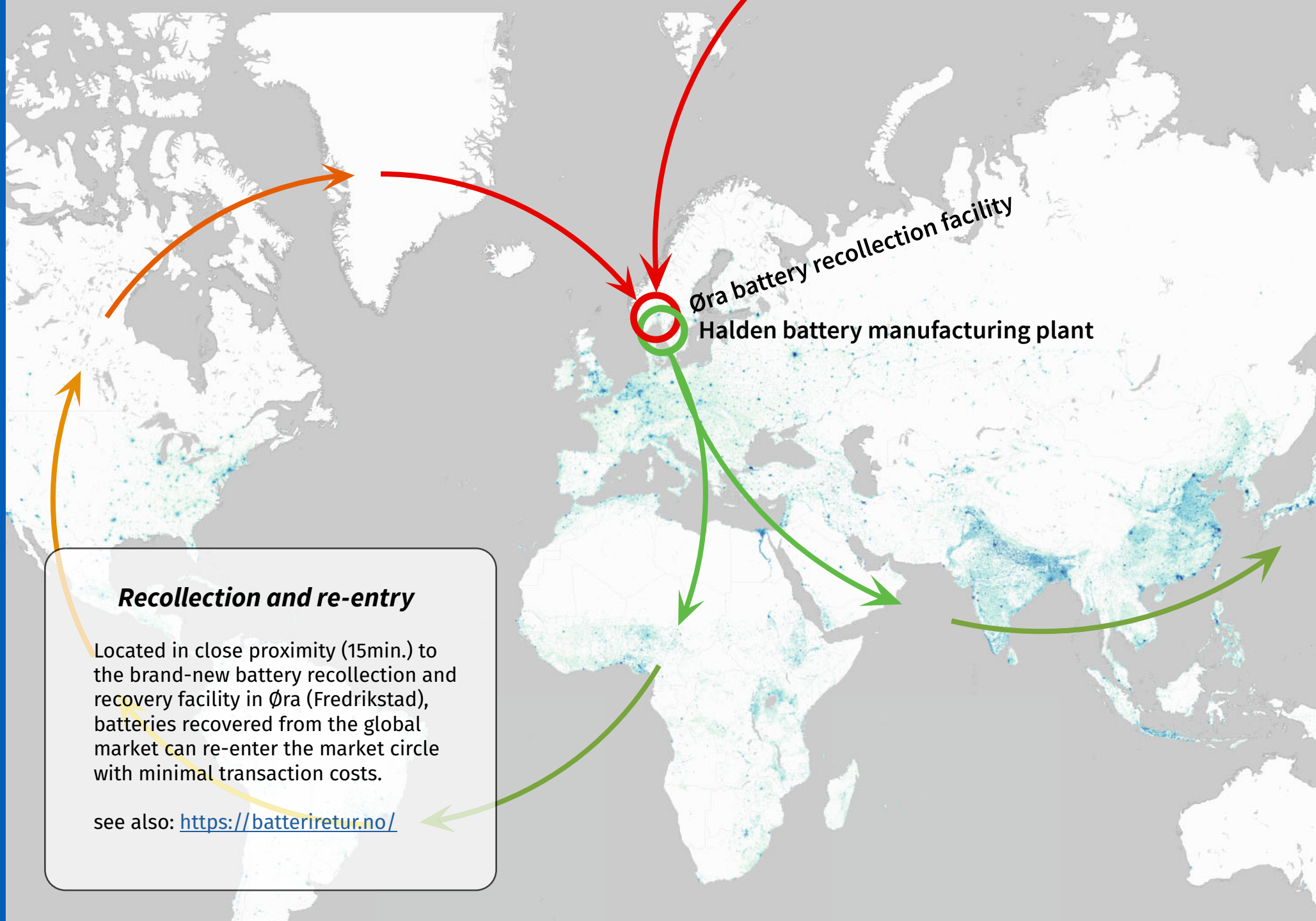
Since the establishment of Saugbrugsforeningen in 1859 (today **Norske Skog**), the **Halden Reactor Project** at **IFE** (Institute For Energy technology) in the 1950's, followed by the establishment of the **Østfold University college** in the 70's, Halden has spawned and attracted numerous high-skill industries such as **Nexans** (highly insulated deep-sea cable manufacturing), **Fresenius Kabi** (pharmaceutical manufacturing), **eSmart Systems** (applied artificial intelligence).

Both the **Norwegian Center of Expertise**-cluster **Smart Energy Markets** and the cluster for **Applied Artificial Intelligence** are co-located with the **College University Campus**, which hosts approximately **4000 students** and is recognized as one of Norway's prime education- and research institutions when it comes to **IT/AI technology**.

This, combined with a solid base of **creative know-how in the industrial supply chain**, forms a unique **set of skills** spanning from academical research, practical application insight and last but not least; advanced prototyping, material knowledge and production-line systems design & engineering.



Circularity



Political will

Regional business development is the highest ranking political ambition in Halden.

This policy is established through the Societal Master Plan (2018-2050), and is acknowledged throughout the political landscape.



International research

Halden is well-known for international research, business development and cooperation. The “Halden Reactor Project” started in 1958 and is an ongoing international research project under OECD’s Nuclear Energy Agency (NEA). Government security organizations, national research foundations and industrial companies from 19 countries collaborate.



Quality of life

We understand the interdependency between the industry's demand for high-skilled labour and the community's ability to deliver a high-standard quality of life.

Our people-friendly residential areas, rich cultural scene and a wide range of educational-, sports- and recreational offers are considered key ingredients in this respect.

see also:
<https://www.visitoestfold.com/halden>



We'd be delighted to welcome you

The task of establishing a battery manufacturing plant of this magnitude will have its challenges, regardless of site choice. We're ready to take on the challenges regarding our site proposal. We believe that the best approach to overcome such challenges is through dialogue.

We'd like to invite you to visit us, so that we together can identify the challenges and outline a possible roadmap for the work ahead.

There's nothing we like better than welcoming guests to Halden.

Let's discuss!

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HALDEN KOMMUNE

