Trondheim is Growing

Projections indicate that the population will increase by between 2,000 and 3,000 people each year in the coming years. With a relative growth of 1.4%, Trondheim is one of the harbors cities that score highest on the list of European cities that grow fastest. By 2050 it is estimated 250,000 people living in Trondheim.

The City, The Harbor and The River

The meeting point between the river and the sea, has had great significance for the development of the city, its commerce and its people. Without Nidelva the city would have never been founded; the estuary, was one of the few good natural harbors along the east coast of Trondheim fjord, with a stable flow powerful enough to prevent siltation. The city point of departure was Skipselva bay and area located just a few hundred meter above the river mouth where ships could sail at high tide and then remain in the sand at low tide, at this point it was also easy to control the traffic from the fjord, facilitating the trading of goods and the development of the city, while working as a natural defense.

One of the most fertile soils in Norway

Only 3% of Norway’s total area is arable area. Trondheim and Trøndelag area has, together with Østlandet and Jærenmøratet the most fertile soil in Norway. In the last couple of years 7,000 acres of good arable land has been dismantled in the Trondheim area and designated to new homes, institutions and roads. Trondheim comparing to Østland, Jærenmøratet and Sandness is the Municipality with more topsoil loses in the latest years. As its mention before Trondheim is growing, isn’t it a paradox that Trondheim is reducing it’s topsoil as it becomes more people to feed?

Norwegian Food Self Sufficiency

60% of the local food in Norway is imported.

Trondheim is the Municipality with more topsoil loses in the latest years

A Mayor Plan was Accepted in 2014 to Relocate the Goods Delivery out of Brattøra

Norwegian Geotechnical Survey

Brattøra

The City Road

Central Station

S. Marienborg

NTNU

Torget

Fish Market

SINTEF

Norwegian Geological Survey

ST. OLAVS HABITAT

MarinTech

2015 2050

180 000 250 000

Year 1000
First settlements

1650 - 1700s
First Harbor

1830
Building of today harbor starts

2015
Today’s harbor

Most of the harbor activity that occupies today Brattøra and Bygstad is expected to be moved to Orkanger by 2018.

Brattøra soil status as contaminated or toxic due to the old industry and harbor activities

A MAYOR PLAN WAS ACCEPTED IN 2014 TO RELOCATE THE GOODS DELIVERY OUT OF BRATTØRA

 REDUCTION OF TOPSOIL IS A GLOBAL PROBLEM!

INCREASE

DECREASE

AVERAGE CONSUMPTION OF FOOD BY NORWEGIAN

3,046 m² PER PERSON
Trondheim harbor is a part of a larger inter municipal infrastructure which includes ports in Trondheim, Orkabjøl, Verdal, Levanger, Sandefjord, Marka, Skedsmo, Veroen, Indreøya, Leirvik and Fosse, Trondheim, being the largest port among them.

The city is growing gradually and therefore with its consumption, this increases the freight traffic by sea, which means larger quantities of goods shall pass the port, elevating the levels of road and rail traffic in the area.

Trondheim Port Authority has decided that it is a sensible idea to work in a new regional cargo hub suitable for the future needs of Trondheim and together with Orkanger Harbor has started working on a new regional cargo hub for the delivery and shipping of goods by sea. Most of the harbor activity that occupies today Brattøra and Nyhavna is expected to be moved to Orkanger by 2018.

Although the Harbor activity will largely disappear, the train station and a small port will remain in Brattøra working as a hub for passenger traffic and small goods that have to stop by the city; nevertheless very large areas will be released for new development.

**Strengths**

/ Proximity to city center
/ On the waterfront
/ Railway connection
/ Proximity to green area Ladehammeren
/ Proximity to strong landmarks

**Weaknesses**

/ Floods danger
/ Big barriers toward neighboring areas (railroad 30 m wide)
/ Poor access by public transport
/ High levels of soil Toxicity

**Opportunities**

/ Continue expansion of the city center towards the sea
/ Improved connectivity between Lademoen, Nyhavna, Brattøra, and Marienborg
/ Meet the need for more dwellings - demographic growth in the region
/ Reactivate harbor activity
/ Re-use of a post-industrial area (heritage and identity)

**Threats**

/ Rise of waterfront
/ Transportation barriers
/ Compete with city center
/ Pollution from traffic system

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Handling of Contaminated Soil

Runoff and Storm Water Management

Parks [P]

Channels [C]

Wetlands [W]

River Islands [I]
WORKING LANDSCAPES

The reuse of pumped sand and sludge

A lot has been talked about the relocation of the current Central station. Some years ago a proposal to relocate it to a central part of the city came to the public, the project re-opens the discussion and tries to demonstrate the benefits that the relocation of the C. Station would bring to the city.

Brattøra, used to be sand banks and river islands at the mouth of the Nidelva. The project aims to restore this habitat by means from the final stage of the storm water management system proposed and the material transported by the channels.

Since 1999, Trondheim harbor was required to take actions against pollution on the recommendation of the Norwegian pollution control authorities. The strategy focuses on cleaning and neutralizing locally contaminated soil that afterwards will be placed back and serve as foundation to create the new landscapes.

Trondheim is a city dominated by research and education institutions, even so, is a city that is not aware of its food consumption. In the last couple of years 7,000 acres of good arable land has been dismantled in the Trondheim area and designated to new homes, institutions and roads. Trondheim is growing, isn’t it a paradox that Trondheim is reducing its topsoil as it becomes more people to feed? The strategy envisages to create a food network and bring knowledge to people about food processes and consumption.
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Soil Remediation

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Trondheim Kommune

TRONDHEIM FOOD NETWORK

Brattøra

Midtbyen

C.Station

Kanalen

Ilsvika

Nyhavna

Fish Market

Aquaponics

Market Hub

Distribution C.

Hydroponics

Relocation of Central Station

Recovering the Delta

Food Network