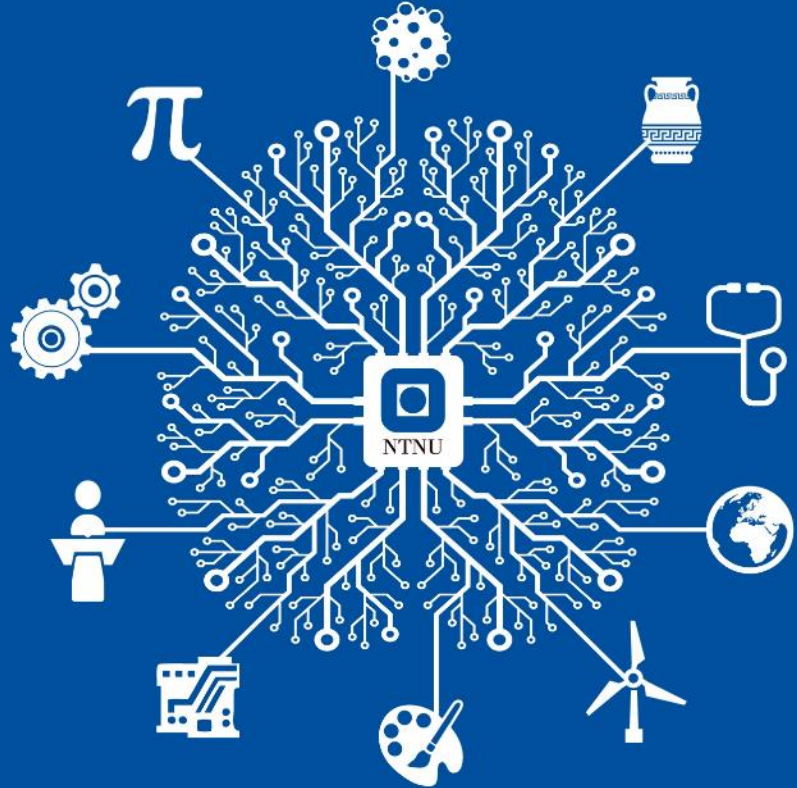
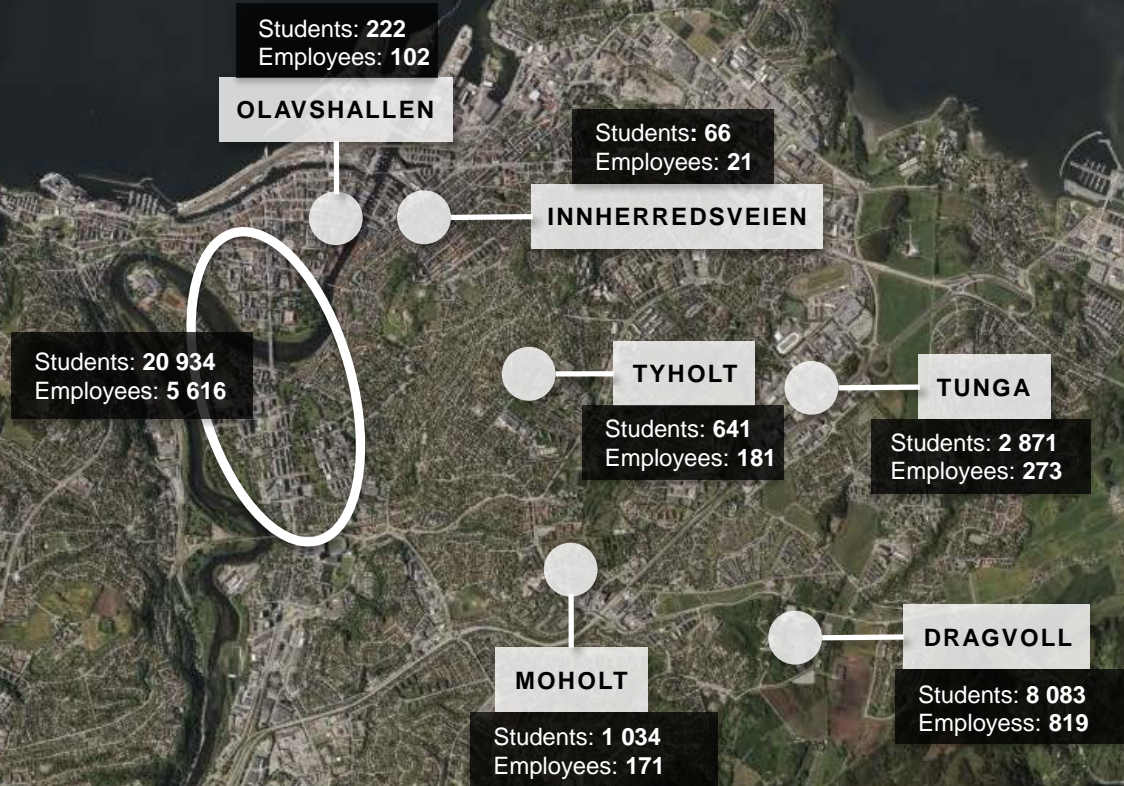


NTNU's Campus development

NUAS
August 2018



2017



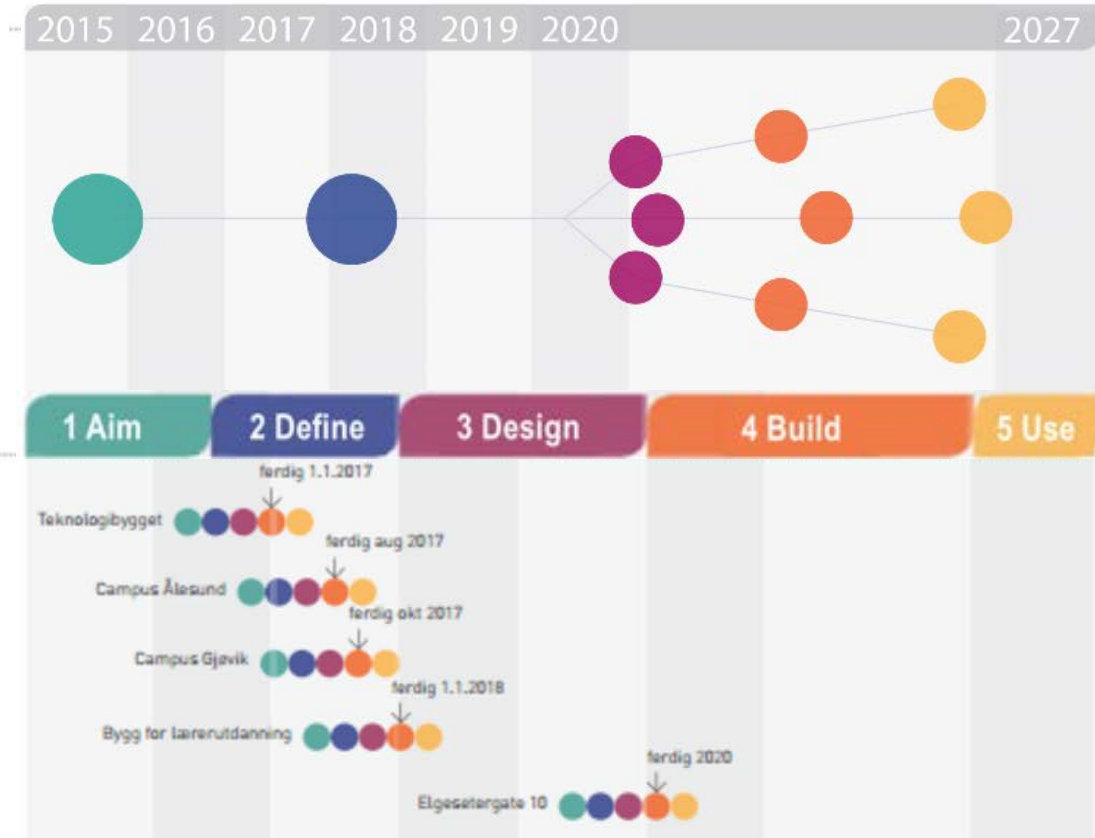
2027

Students: 33 210
Employees: 7 183

TYHOLT

Students: 641
Employees: 181

COMPREHENSIVE CAMPUS DEVELOPMENT IN TRONDHEIM



BUILDING PROJECTS STARTED UP BEFORE UNIVERSITY MERGER IN 2016

Knowledge for a better world

- NTNU's campus is to be the physical frames for international outstanding learning, research, innovation and outreach
- NTNU's campus attracts the best students, employees and partners



Fus
NTNU
Kunnskap for in

Forord
Regjering
Høgskole
Norges t
2016.

Hensikte
klargjøre
støttetje
utløse sy
ambisjor
oppstart
strategi
fagområ

En arbe
berings

NTNU
VISJONER

RAPPORT JAN

KVU FRAMTIDIG

LO
CA
KO

Fram

MØREFORSKING
HOLDE

metier®



Kvalitetsprogr
«Framtidig
Campus NT
Rapport til Kur
Finansdepartet

Kvalitetsprogram
NTNUs campusutvikling 2016 - 2030

Lokalisering NTNU Campus Trondheim

NTNUs campusutvikling 2016 - 2025
Veiløst 26.10. 2015

KOHT

Fysisk plan
NTNUs Campusutvikl



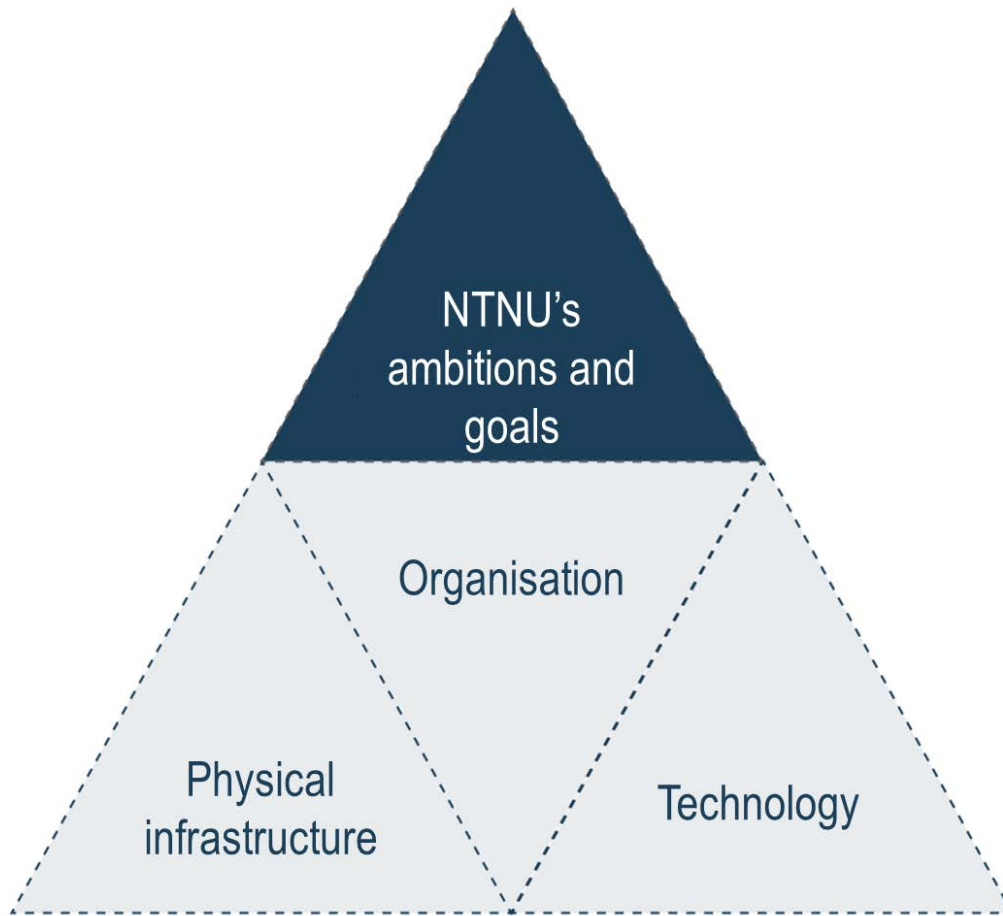
Dato: 03.11.2017

Tilleggsutredning for konseptvalg -
Fremtidig lokalisering av Campus for NTNU

November 2017



STATSBYGG NTNU





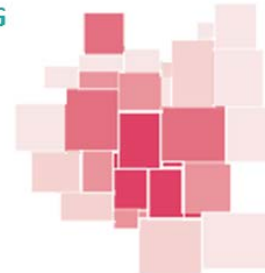
LIVING
LABORATORY



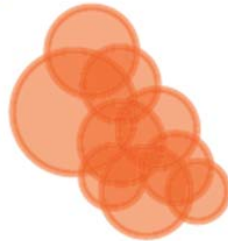
UNIFYING



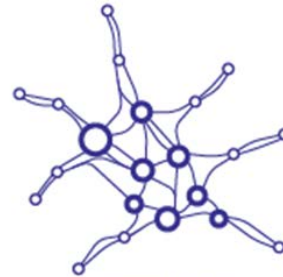
SUSTAINABLE



URBAN



EFFECTIVE



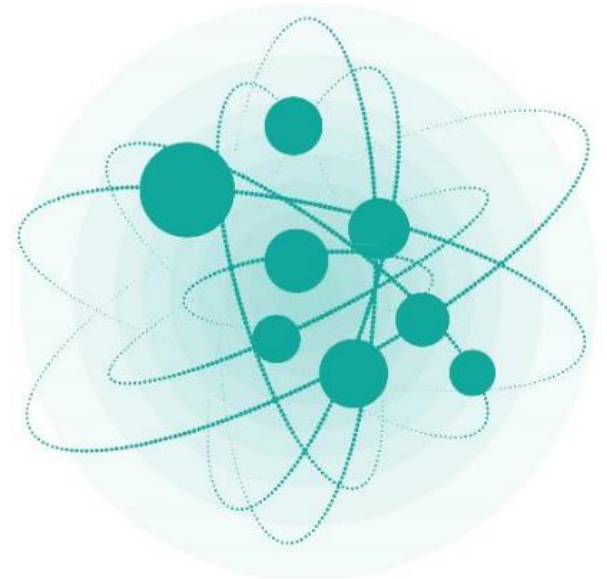
NETWORK
OF HUBS

UNIFYING

CAMPUS CONTRIBUTES TO COMMUNITY

Success criteria:

- Campus gathers relevant disciplines
- Campus is concentrated
- Campus has visible and easily accessible meeting places

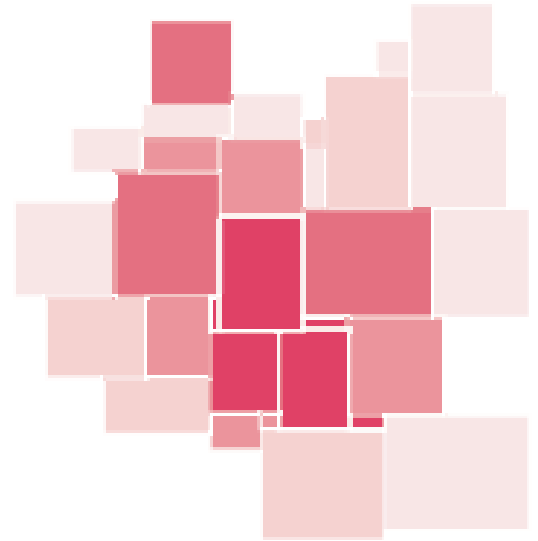


URBAN

AN URBAN CAMPUS IS ATTRACTIVE, OPEN
AND FULL OF LIFE

Success criteria:

- Campus is open and inviting
- Campus and the city share facilities
- Campus has urban features

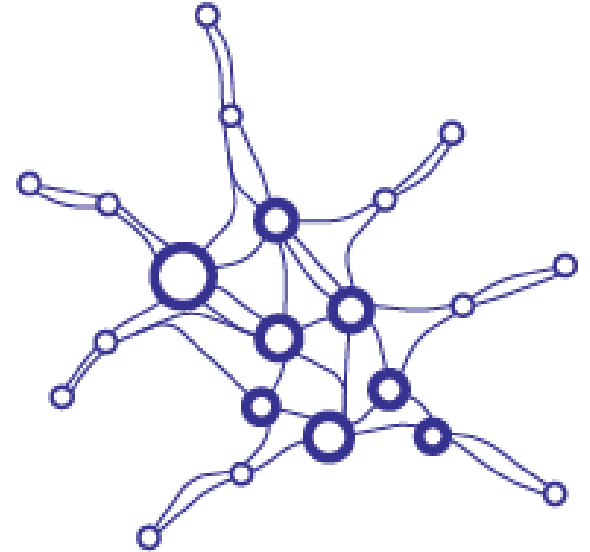


NETWORK OF HUBS

CAMPUS HAS DEFINED HUBS WHICH ARE TIGHTLY CONNECTED TO EACH OTHER AND THE CITY

Success criteria:

- Campus has profiled and outwardly directed hubs
- Campus has walkable distances between hubs
- The network is part of the city's public structure and system for transportation

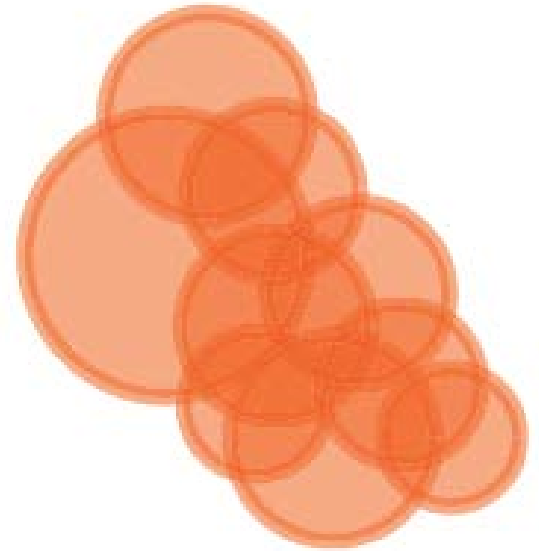


EFFECTIVE

USABLE AND EFFICIENT AREAS
CONTRIBUTE TO GOOD WORK PROCESSES

Success criteria:

- Campus has high usability
- Campus has efficient area use
- Campus has flexibility in area design and use



SUSTAINABLE

CAMPUS IS LEADING IN ENVIRONMENTAL OUTSTANDING SOLUTIONS

Success criteria:

- Campus is energy effective and has a low carbon footprint
- Campus has effective and «green» transport and mobility
- Campus is durable and ecological in its entire lifecycle

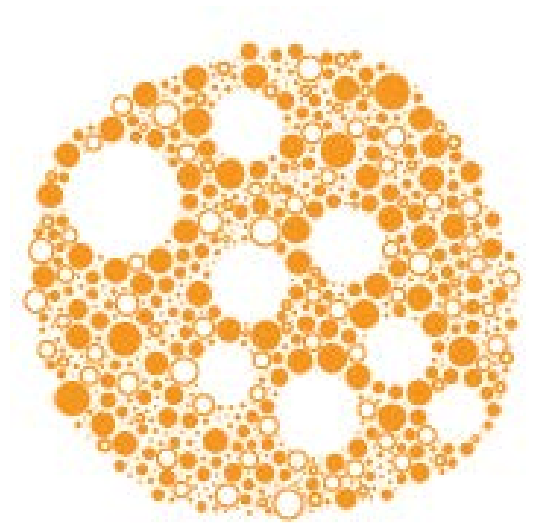


LIVING LAB

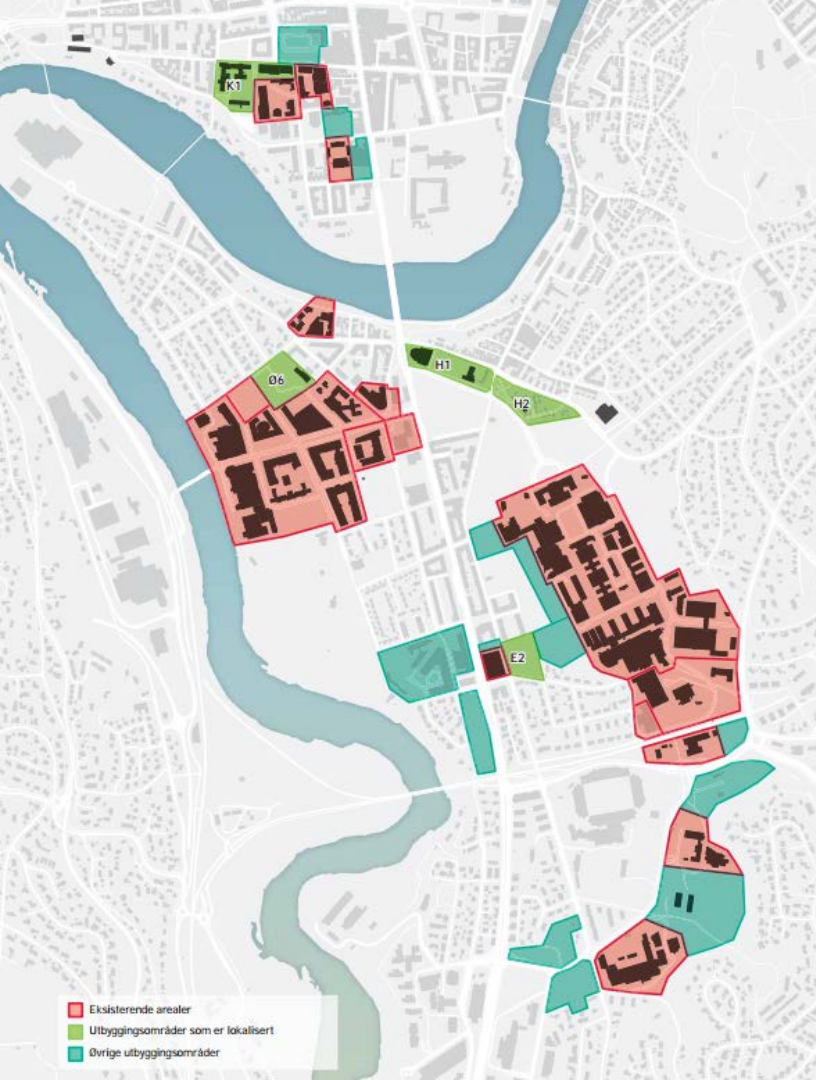
CAMPUS IS THE PLACE FOR EXPLORATION

Success criteria:

- Campus is an experimental arena
- Campus has attractive arenas for innovation, entrepreneurship and the eagerness to create
- Campus has easily accessible experimental infrastructure



2016: Overall location



- Eksisterende arealer
- Utbyggingsområder som er lokalisert
- Øvrige utbyggingsområder

STIPULERT AREALBEHOV

Stipulert arealbehov iht. kunnskapsdepartementets tilleggsutredning 23.02.2015

AREALFUNKSJON	STIPULERT AREALBEHOV M ²	LOKALISERING
Flytting av Dragvoll-miljøene	75 000	3 alternativer
K1 - Vitenskapsmuseet, magasiner og utstilling	20 000	Kalvskinnet
H1/H2 - KAM	25 000	Høgskolebakken
H1/H2 - Flytting av produktdesign til KAM	3 000	Høgskolebakken
E2/G4 - Innovasjonssenter	6 500	Hesthagen
Ø6 - Senter for psykiske helse	6 500	Øya
SUM NTNU	136 000	

Området bør også potensielt ha kapasitet til nytt idrettssenter for Sit på 5000 m²

Arealoverslagene er etablert som underlag for overordnet lokalisering. Det må derfor påregnes justeringer i arealbehovene når de enkelte prosjektene defineres i påfølgende faser i campusutviklingen

SAMLENDE

Campus samler fagmiljø

kvalitativ indikator:

- Kapasitet til å samle fagmiljø (kort tverrfaglighet)

kvantitativ indikator:

- Tetthet studenter/ dekar i hvert campusområde
- Fordeling av studenter i hvert campusområde

Campus er konsentrert

kvalitativ indikator:

- Konsentrasjon av hele campus (lang tverrfaglighet)
- Grad av diversitet NTNU- internt og eksterne, spesielt SINTEF

kvantitativ indikator:

- Grad av konsentrasjon av studenter på campus som helhet

URBAN

Campus er åpen og inviterende

kvalitativ indikator:

- Tydelige ankomstpunkter til campus
- Barrierer og sammenhenger

kvantitativ indikator:

- Nærhet til byfunksjoner
- Interaksjonsmulighet mellom campusområder og bygninger i byen

Campus og by deler funksjoner

kvalitativ indikator:

- Antall og diversitet byfunksjoner på campus/ campusfunksjoner i byen
- Befolningsgrunnlag for å tilby service / fellesfunksjoner
- Nærhet mellom campus og studentbosteder

kvantitativ indikator:

- Nærhet mellom studentbosteder og campusområder
- Interaksjonsmulighet mellom campusområder og bygninger i byen

NETTVERK AV KNOTEPUNKT

Campus har profilerte og utadrettede knutepunkt

kvalitativ indikator:

- Potensielle knutepunkt

kvantitativ indikator:

- Ikke målbart

Campus har gangbare avstander mellom knutepunkt

kvalitativ indikator:

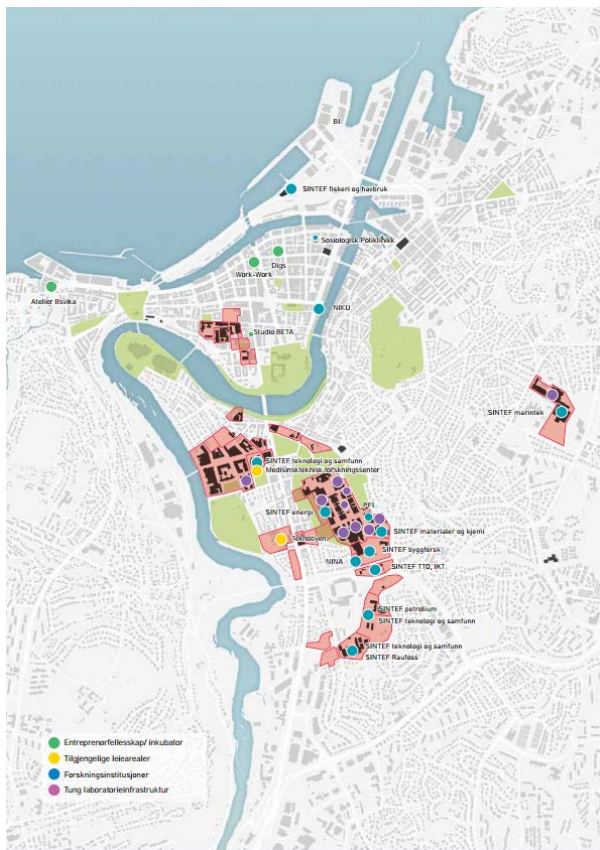
- Gangsavstander i campus
- Nettverkets orienterbarhet, diversitet og grad av sammenheng med byens struktur

kvantitativ indikator:

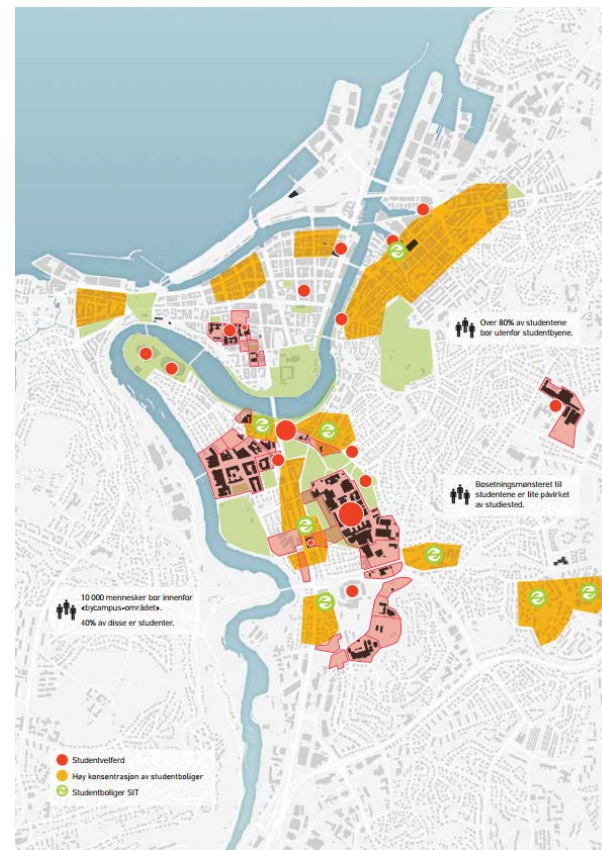
- Grad av konsentrasjon av studenter på campus som helhet

		Alternativ nord	Alternativ vest	Alternativ sør
Samlende	SYNLIG OG LETT TILGJENGELIGE MØTEPLASSER			
	Antall og diversitet eksterne/urbane sosiale arenaer	5	3	1
Urban	CAMPUS OG BY DELER FUNKSJONER			
	Antall og diversitet byfunksjoner på campus/ campusfunksjoner i byen	5	3	1
Urban	CAMPUS HAR BYMESSIGE EGENSKAPER			
	Grader av bymessighet	5	4	1
Nettverk av knutepunkt	GANGBARE AVSTANDER MELLOM KNOTEPUNKT			
	Nettverkets orienterbarhet, diversitet og grad av sammenheng med byens struktur	3	5	2

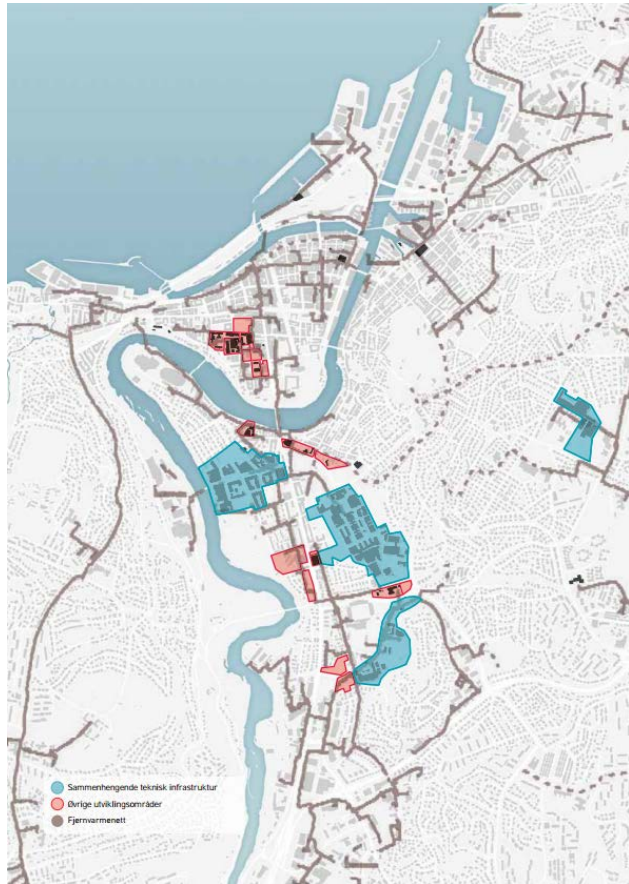
Infrastructure for laboratories, research and innovation:



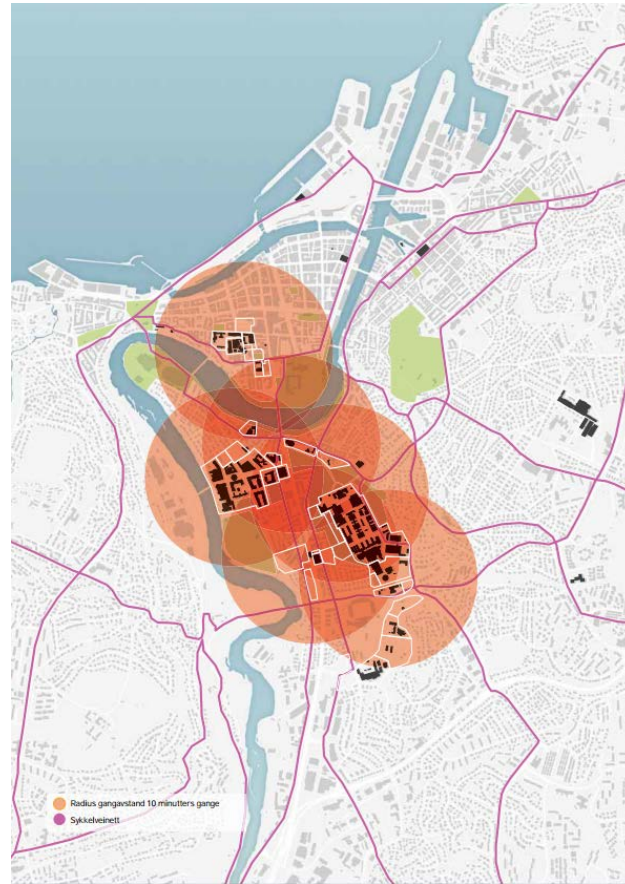
Students: living areas and facilities



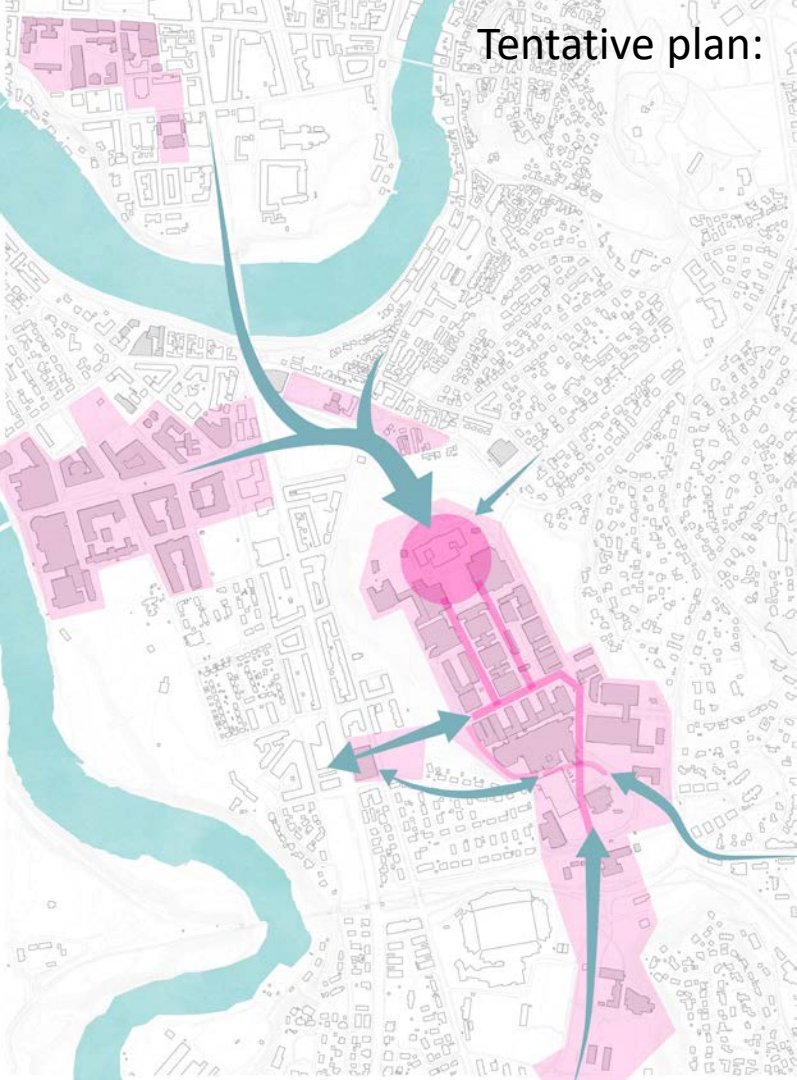
Coherent technical infrastructure:



Walking distances and cycle roads:



Tentative plan:



Development towards a concept for campus

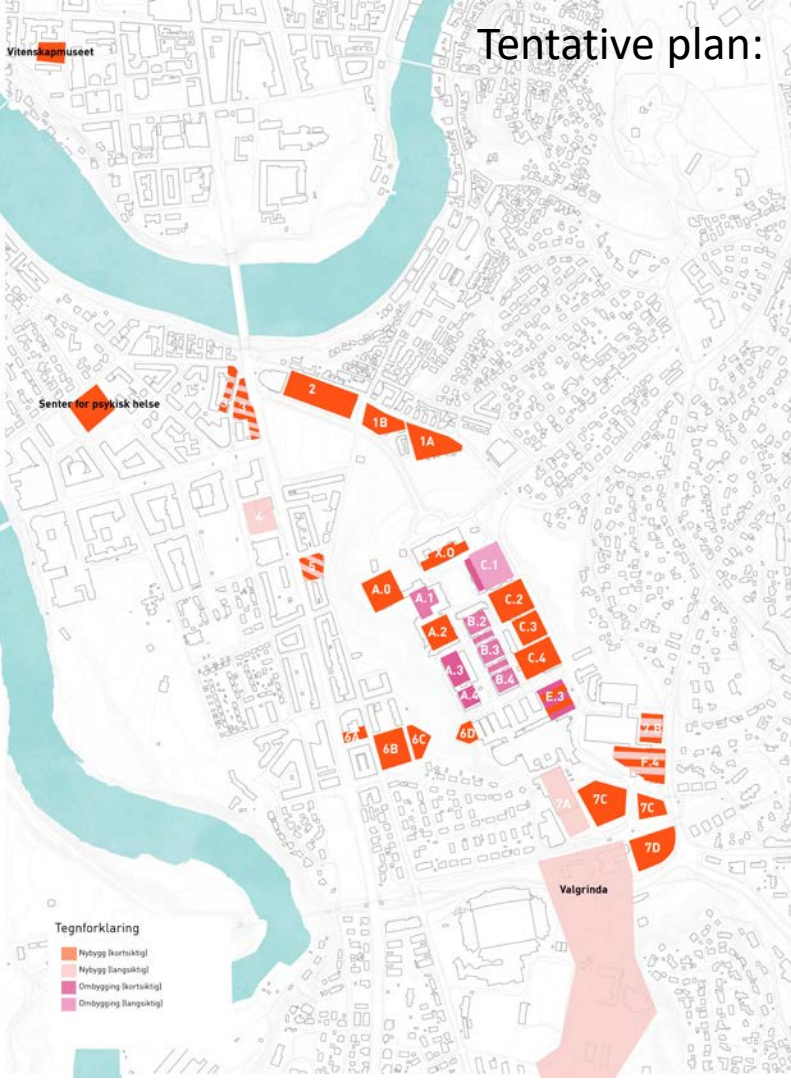
Process:

- Focus on core business
- Open, public and internal discussion
- Densification → discussion of land use and park
- Physical plan, concepts for areas and localization of disciplines → input towards concept
- Involvement and communications
- Anchoring decisions

Tentative plan:

2018:

- Building plots under **current consideration**
- New buildings, reconstruction, maintenance
- Short term and long term



Area plan and planning program

Planning program

- Close collaboration between NTNU and the City of Trondheim
- Accounts for overall societal conditions and solutions
- Program for multiple zoning plans within a larger area

Area plan

- Description of alternatives
- Overall study – in order to choose among building plots
- Basis for zoning plans coming up

MASTERPLAN

Main
physical plan

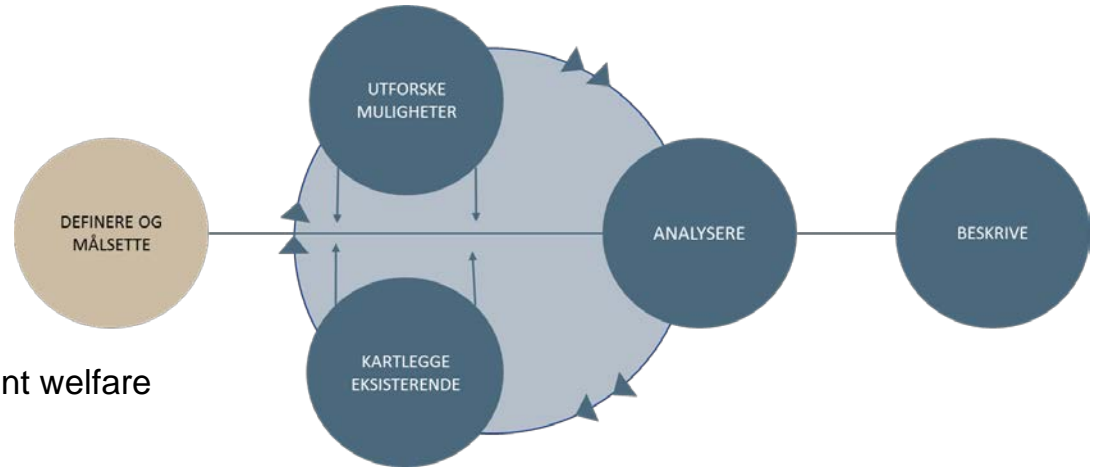
Concepts
for areas

Locating
disciplines



Concept for areas

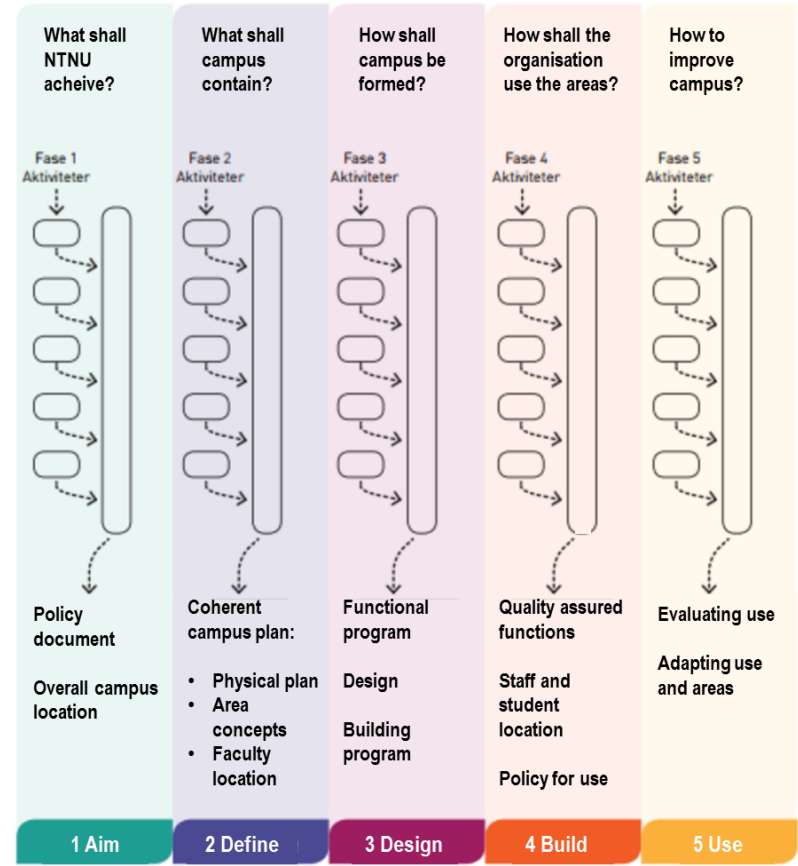
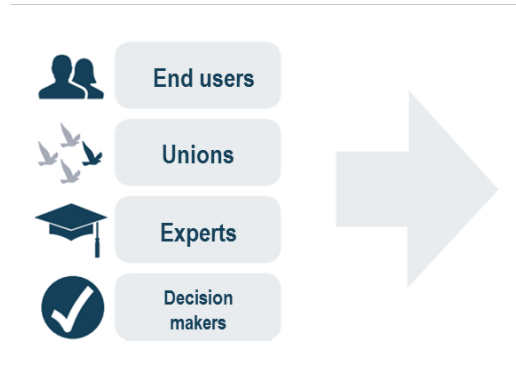
- Survey activity, work patterns and use of premises today
- Develop concepts which describe:
 - Overall function (use) and area (design)
 - Organisational and technological requirements for suggested area concepts
- Area assessments:
 - Top – down
 - Bottom – up
- Work groups within:
 - Arenas for learning
 - Work place
 - Hubs
 - Student volunteer work and student welfare
 - Collaboration partners



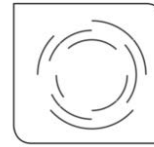
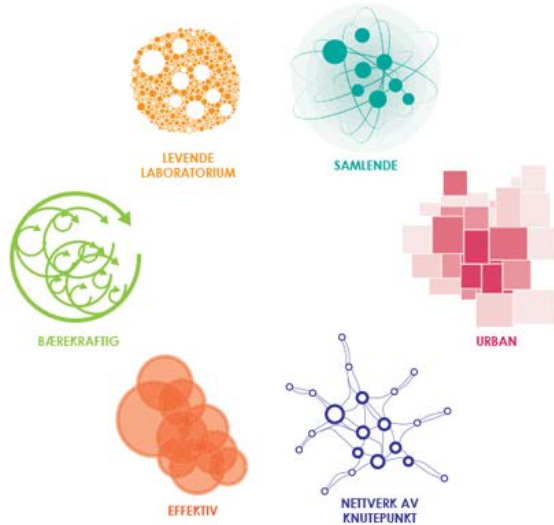
Concept for areas:

- To conceptualize the knowledge about uses of areas and the knowledge about new types of areas for the future university
- The concepts are general, It describes different overall categories of areas and the distribution between them
- Concepts for three main categories/purposes:
 - Learning
 - workplaces
 - hubs

Involvement program



Main concept?



Campus:

Open and inviting for everyone



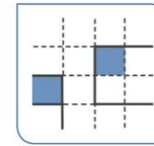
Hubs:

One main central hub, at NTNU



Learning area:

Concentrated varied areas for multiple use



Workplaces:

Adaptable and flexible



Why?

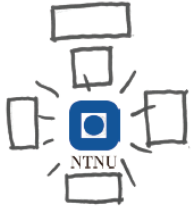


How?

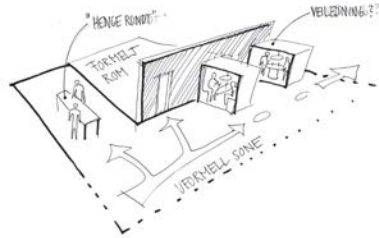


Main concept?

- flexible and clustered areas



A main central 'hub'



Concentrated varied learning areas

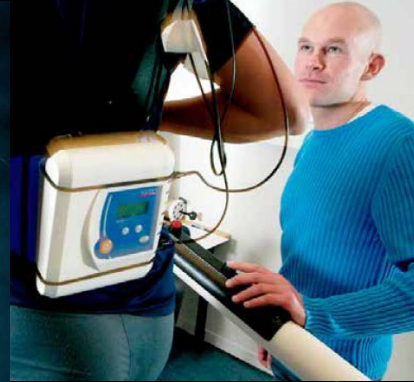


Adaptable workspace areas

Locating disciplines:

- Which disciplines should be close to each other
 - November 2017: Principles and criteria for locating
 - May 2018: Considerations of partners and need of proximity
 - December 2018: Alternatives for locating disciplines
- Where are the hubs in a unified campus, considering
 - students
 - research collaboration
 - innovation
 - outreach and dissemination of knowledge
 - external collaboration partners
- Internal committee
 - The Deans act as board appointed by rector





PEOPLE



ntnu.edu/campusdevelopment