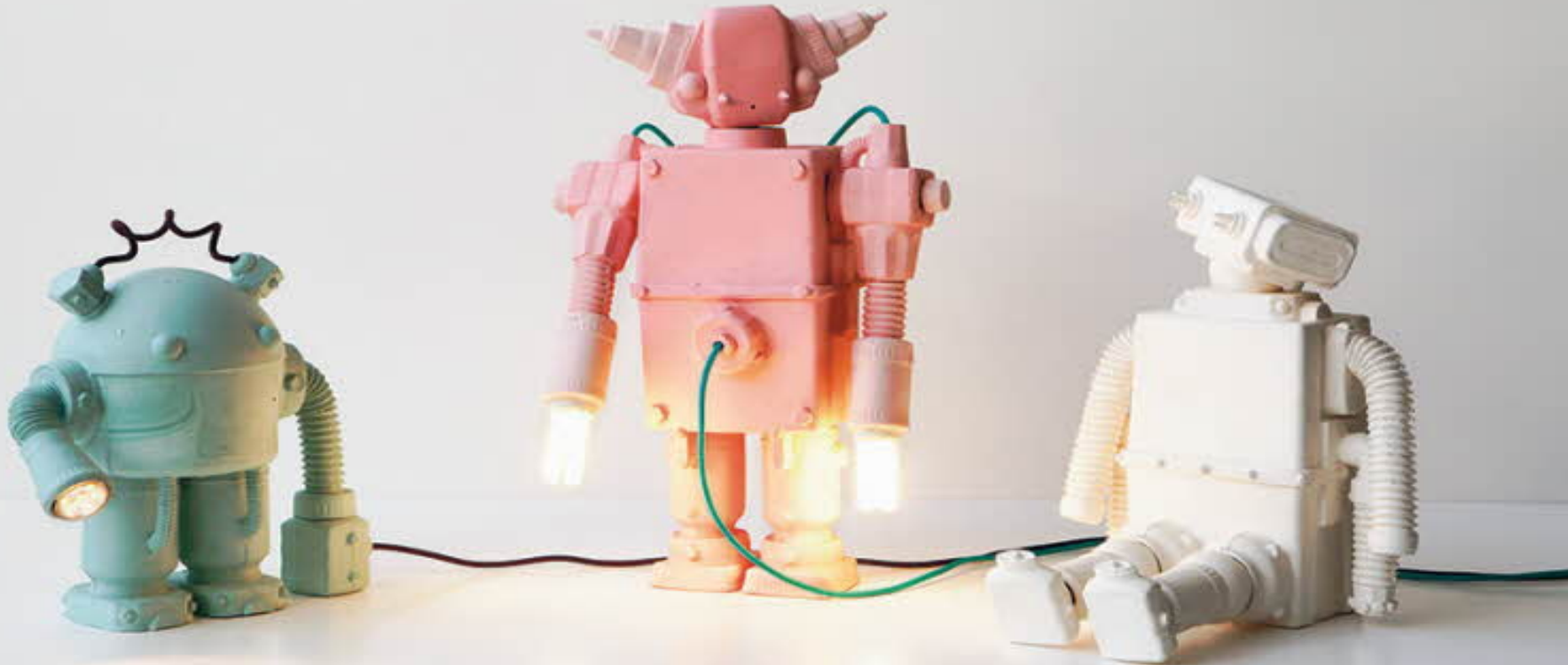


**You are most welcome to the
experimental laboratory of open
innovation – Aalto campus.**



Context

1. Aalto university is a forerunner in campus development in the world, taking part in the **competition between universities**.

Key themes in global campus development:

- 1) Saving climate
- 2) Supporting wellbeing
- 3) Developing partnerships

Otaniemi campus

- sustainable concepts
- urban experiments
- cultural innovations
- entrepreneurship

Töölö campus

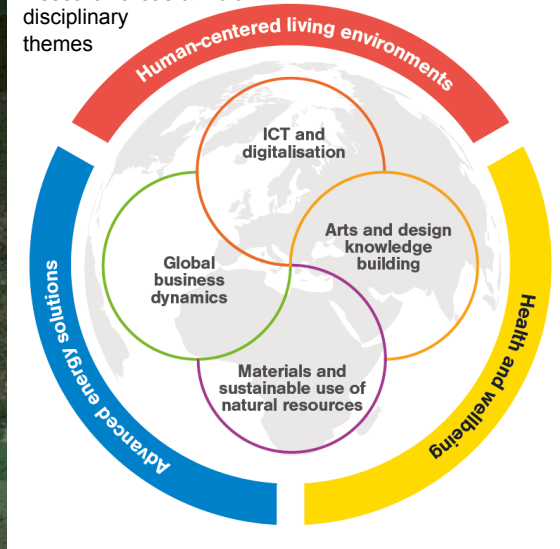
- central location
- programmatic experiments
- cultural innovations
- Entrepreneurship

2. Otaniemi is the **key place for the future of Finland**

National expectations:

- 1) Producing innovations
- 2) Creating new cultural capital
- 3) Boosting economical growth

Research areas & Multi-disciplinary themes



3. Aalto has defined its **profile** amongst Finnish universities

We welcome partners to participate the creative ecosystem physically and by sharing risk and bringing investments in the fields of:

- 1) Human-centered living environments
- 2) Health and wellbeing
- 3) Advanced energy solutions

Storyline




...To the contemporary merger of three universities, entrepreneurship, urbanization by metro, towards a comprehensive dynamo of Finnish culture...

Stemming from glorious history –

TKK, Aalto's 'Greek' campus concept, technology student 'teekkari' culture...

...and towards the **future** with a totally **new type of social, open campus model**, where the spaces of institutions, companies and services mix everywhere, even within buildings. This requires thoroughful partnering and collaboration with external stakeholders. Multi-funding makes faster realisation possible.

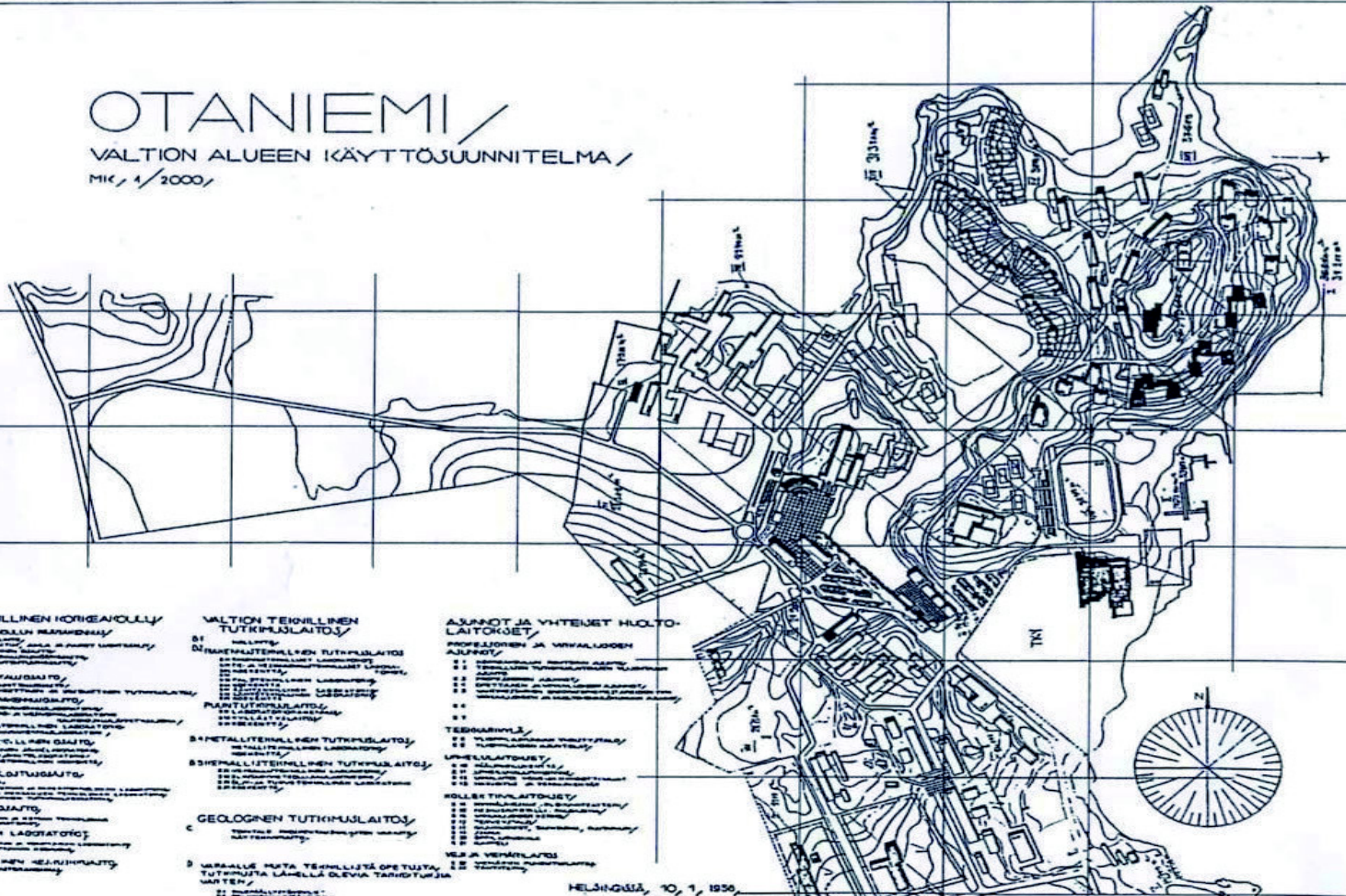




OTANIEMI

VALTION ALUEEN KÄYTTÖSUUNNITELMA /

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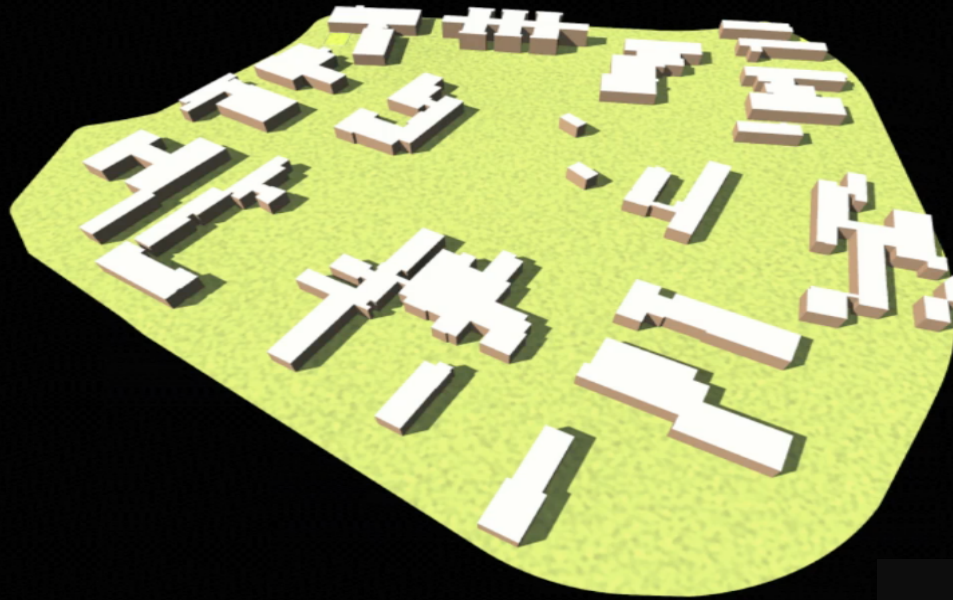
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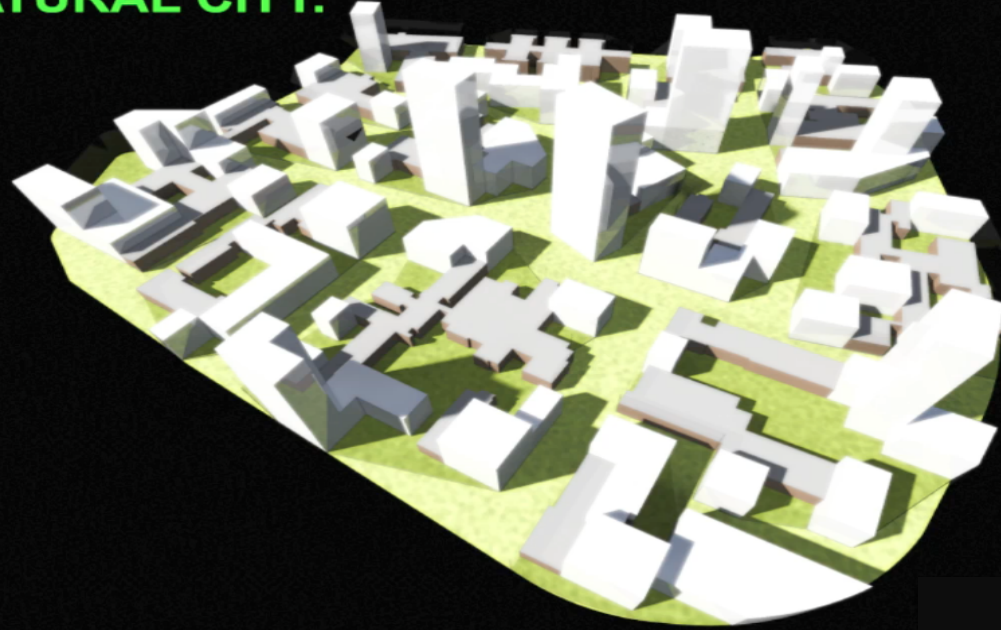


Aalto University
- Where *Science* and
Art meet *Technology*
and *Business*

FROM A FIELD CONDITION...



TO A 21st CENTURY GARDEN CITY OR
PERHAPS A **NATURAL CITY.**



Flexible, divided systems instead of
large, centralised structures, meeting
places for random, positive collisions!

Digital – Tangible Interface



Student Hubs
– Flipped Classroom learning



Design Factory
– Open innovation with industrial
and digital media companies



ADD Laboratory of Digital Design
– Cross-Disciplinary Digital
Thinking Design and Manufacturing

Aim: "Man to the Moon"

On May 25, 1961, President John F. Kennedy announced the goal of sending an American safely to the Moon before the end of the decade. In general, Kennedy felt great pressure to have the United States "catch up to and overtake" the Soviet Union in the "space race."

It is possible to turn Otaniemi into a new city model, comparable to previous successful experiments in the history of urban design:

- Ancient Egypt funeral cult city
- Ancient Greek hill town
- Ancient Roman operational city
- Medieval organic city
- Classicistic grid plan
- Modernistic car city
- Garden city movement

Otaniemi will become a **Paradox City** in equal level of innovation, reclaiming the possibilities of contemporary culture in practice.

Paradoxes are essential to creative practices. A paradox campus combines:

- biodiversity + high density
- holistic vision + diverse environment
- strategic planning + participatory processes
- smart technology + human livability

Otaniemi brings all this together in a manageable way!

A? Aalto University

Monofunctional
greenfield campus

Diversified campus with BOTH
greenfield AND new urban
development

The Sub-Areas of Otaniemi / Otaniemi Campus General Plan

a – Historical limited possibilities to change, activated with temporary additions and programming

b – Open innovation infrastructure: mixed learning, workplaces, services and housing

c – New housing with possibly services and workplaces

d – Mixed learning, workplaces, services and housing

e – Shared learning, services and housing

f – University units in collaboration with other research institutions

(M) – Metro entrance

(J) – Rapid 'Jokeri' tram

+ 7.500 inhabitants
+ 20.000 workplaces
+ 15.000 sqm services



Current Schemes and Visualisations

An aerial architectural rendering of a university campus. The image shows a dense cluster of buildings with various roof colors (red, grey, green) and architectural styles. There are several green spaces, walkways, and parking areas interspersed among the buildings. The overall layout is complex and interconnected.

The following plans and designs only illustrate possibilities based on the before displayed concepts. The exact locations of activities, their extents and final character are to be decided later.



Aalto University

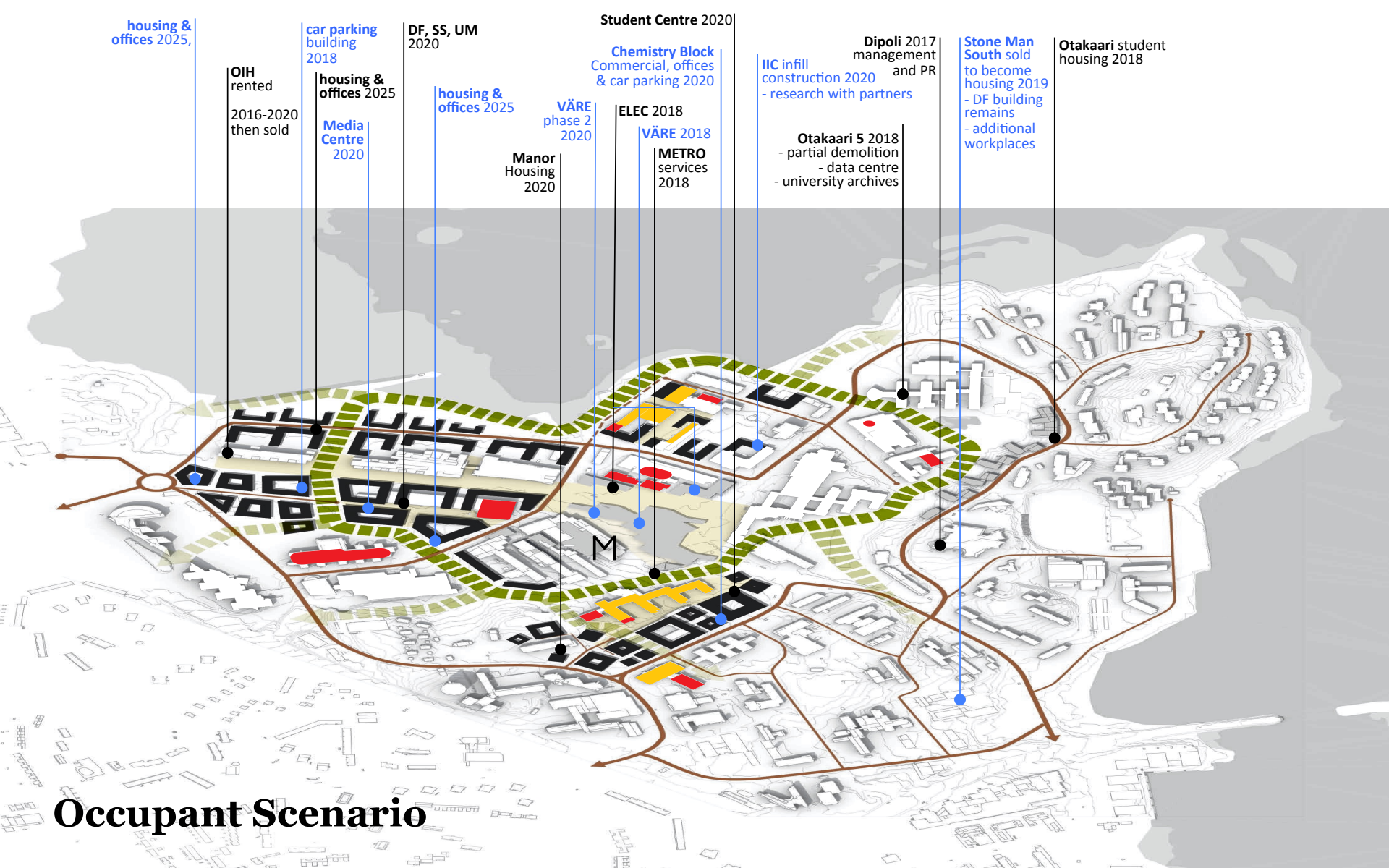




A?
Aalto-yliopisto

A?

Aalto University



housing & offices 2025,

OIH rented
2016-2020
then sold

car parking building 2018

housing & offices 2025

Media Centre 2020

DF, SS, UM 2020

housing & offices 2025

Manor Housing 2020

VÄRE phase 2 2020

Student Centre 2020

Chemistry Block Commercial, offices & car parking 2020

ELEC 2018

VÄRE 2018

METRO services 2018

IIC infill construction 2020 - research with partners

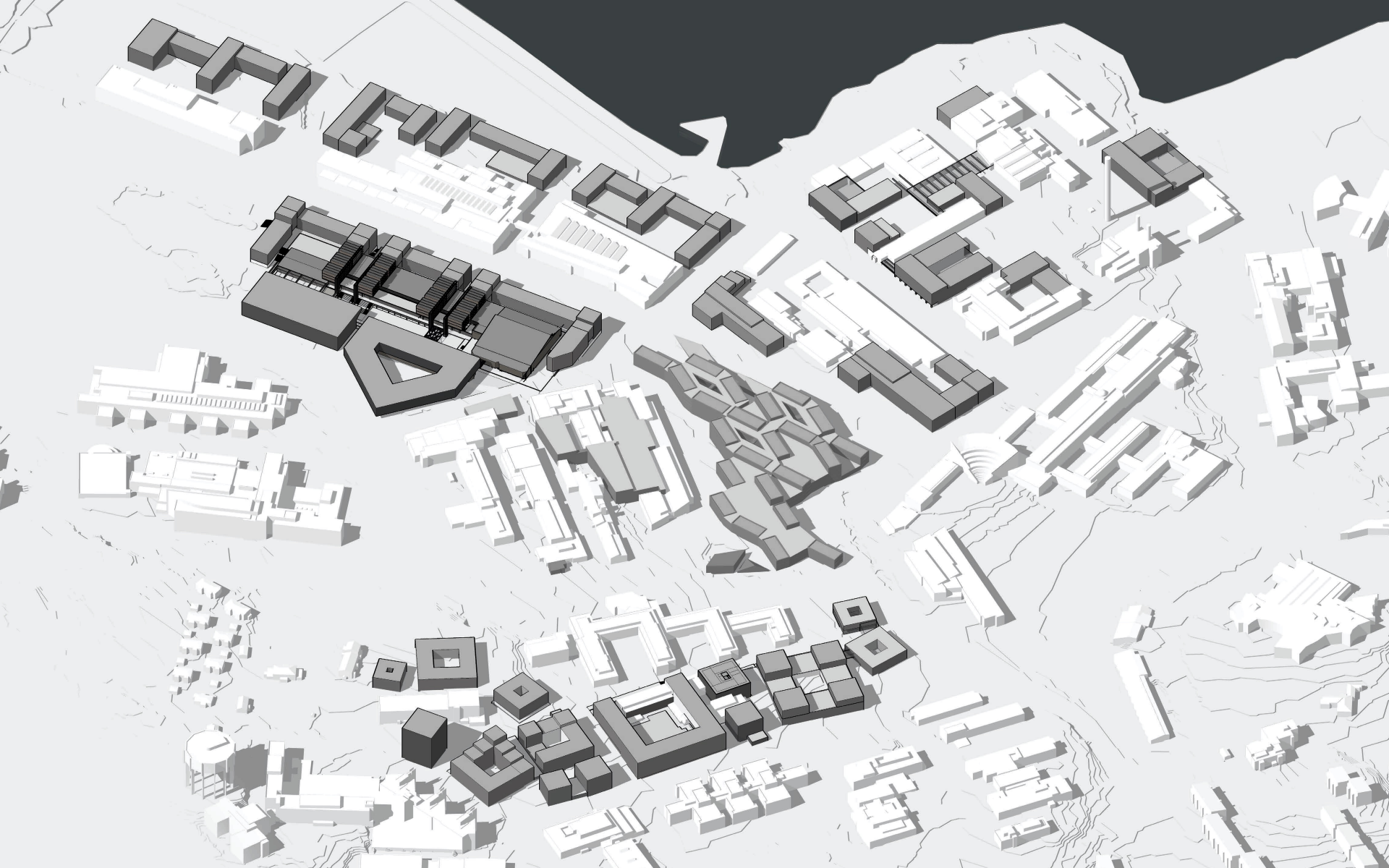
Otakaari 5 2018 - partial demolition - data centre - university archives

Dipoli 2017 management and PR

Stone Man South sold to become housing 2019 - DF building remains - additional workplaces

Otakaari student housing 2018

Occupant Scenario



J

ZOOM 1

aksonometria
vanhasta meritekniiikan alueesta



Konttiasunnot

Opiskelijoille tarkoitetut konttiasunnot säästävät luonnonvaroja kierrätysmateriaalista rakentaen



New Media Center

Aalto ARTS:in Lume-keskus Arabiasta siirtää toimintansa Otaniemeen



Design Factory 2.0

Design Factoryn uudet tilat sijoittuvat meritekniiikan vanhaan halliin



Ice Tank

Jäänmurtajien koeallas jatkaa toimintaansa. Toiminta tuodaan näkyvämmäksi ulospäin.



Uusi jalankulkureitti

Metron sisäänkäynniltä maalinrantaan pääsee suurommaksi osaksi sään suojaassa

M



Aalto University

Garage Quarters – Opening street level

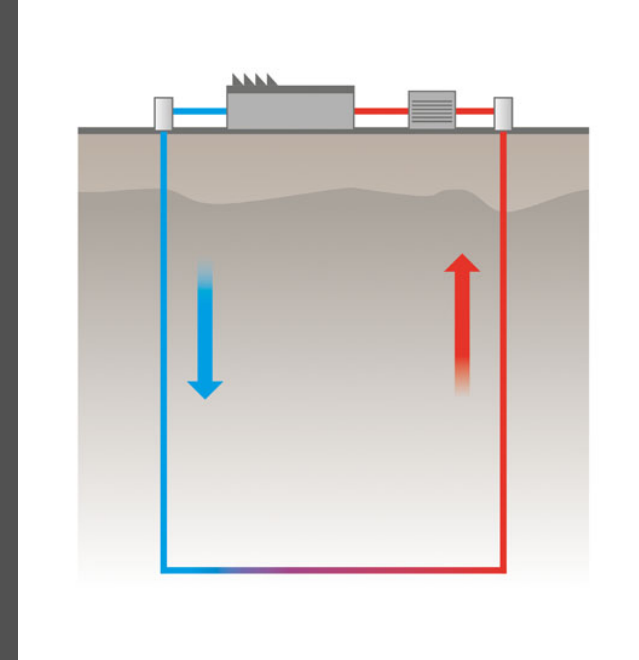
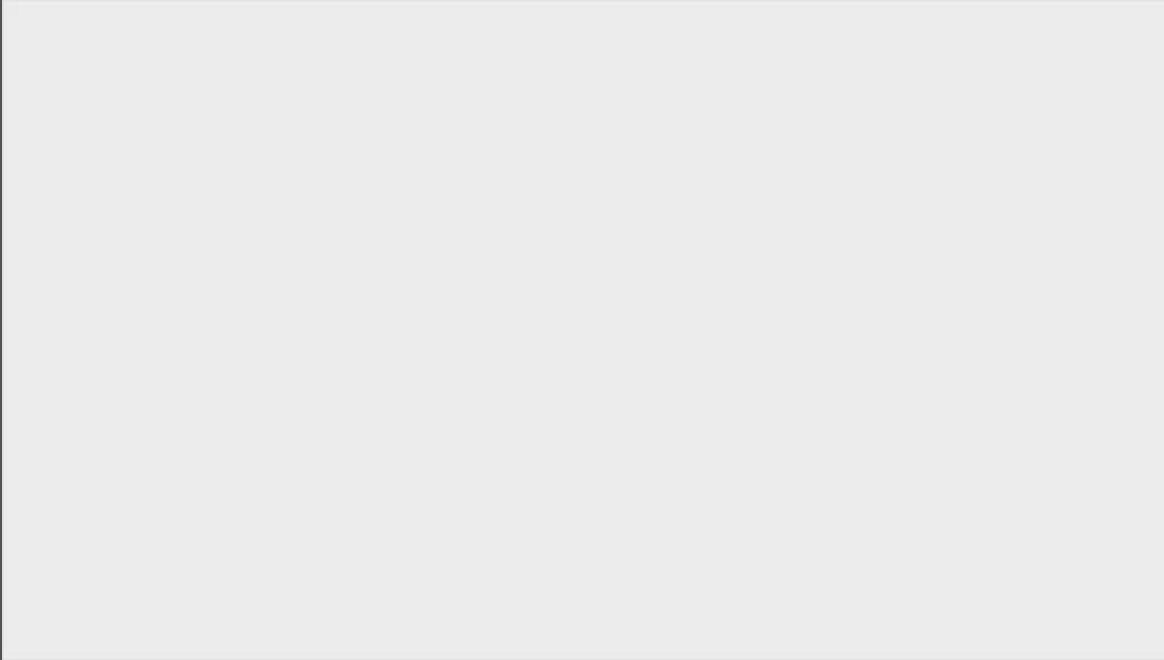




Student Housing as a Third Space

Energy self-sufficiency

- The university aims at energy **self-sufficiency** by 2030 by defining potential energy solutions and changing consumer behaviour
- St1 & Fortum collaboration: 7km deep geothermal 10MW plant producing 10% of the city's heating: active by the end on 2016



Biodiversity

- Students and personnel can rent their own **garden plot** at Otaniemi campus.
- Decaying Garden is supporting biodiversity, in co-operation with Finnish Association for Nature Conservation and University of Helsinki Biosciences
- Grey water recycling




Mobility

- The conditions for sustainable transport improved by Otaniemi Smart Mobility programme, where mobility is taken as a service.
- Shared electric vehicles and campus bikes
- Accessibility through renovations and signage
- Easy access for pedestrians
- Kutsuplus on-demand mass transportation service



Product tour Create account Pricing For businesses Support Sign in






From stop to stop without transfers,
when it suits you.
On weekdays 6am-12pm.

Kutsuplus is a new kind of on-demand bus service - tailor-made rides without having to change buses or worry about parking. [Learn how it works](#)

Create account

Order Pay Ride



Book a ride with your computer or mobile phone.

Pay your ride right away using the Trip Wallet.

Ride by minibus together with other passengers going in the same direction.

OTANIEMI SCIENCE CLUSTERS

Industrial internet
(ELEC+SCI)

BIZ+
(SCI+ARTS)

Nanofab
(ELEC+VTT)



ICT & digitalisation

Arts & design knowledge
building

Materials and sustainable
use of resources

Advanced energy
solutions

Human-centered
living environments

Health and wellbeing

Otaniemi Open Innovation Campus

- Partnering in the development of neighbouring areas for start-ups
- 4 x present population
- **Garage Quarters for Industrial Internet Campus & Future Media Centre**
- **School of Arts, Design and Architecture**
- **Shared Services Block: housing, workplaces & services**