

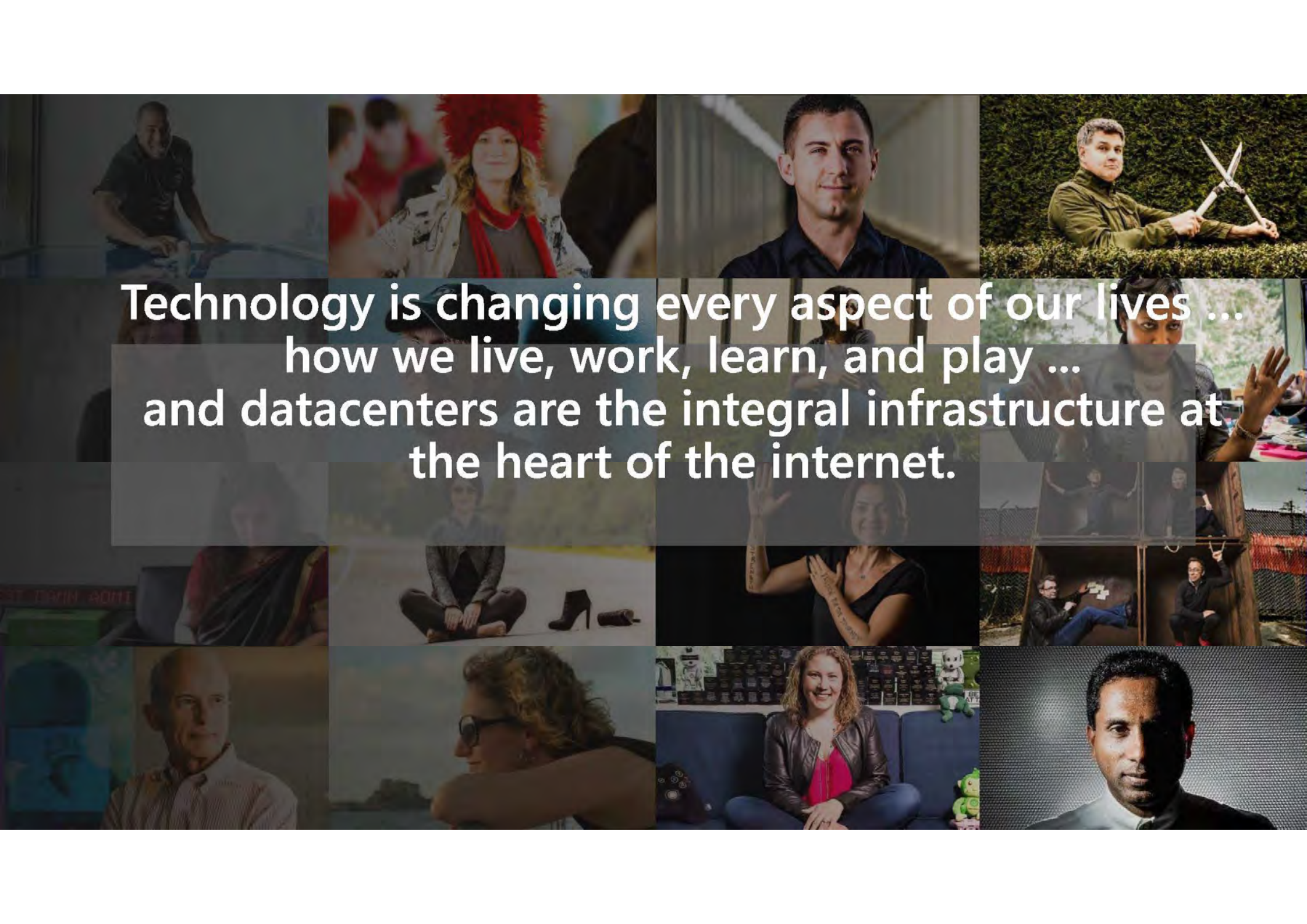


Microsoft Building Datacenters in Finland

Future Data Summit
FDCA Helsinki

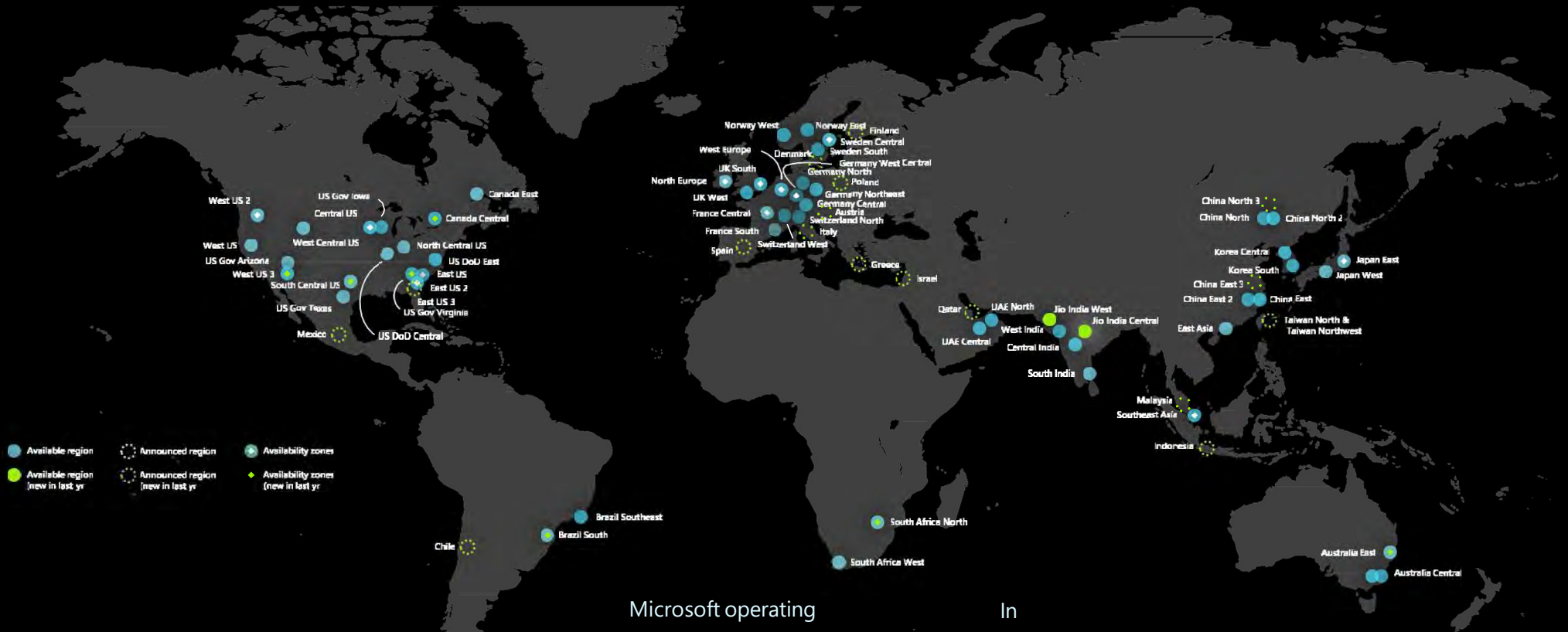
Frej Werner 11 October 2023





Technology is changing every aspect of our lives ...
how we live, work, learn, and play ...
and datacenters are the integral infrastructure at
the heart of the internet.

Microsoft Datacenters around the world



Microsoft operating

200+

datacenters

In

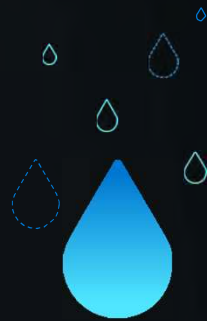
34+

countries

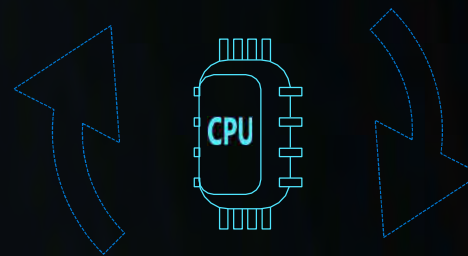
Microsoft - Global Sustainability Goals



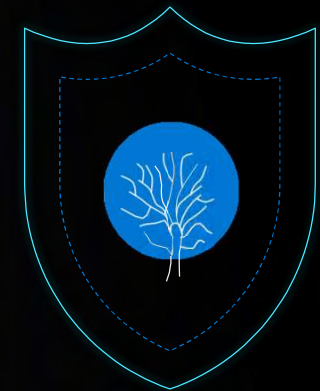
Carbon negative by 2030,
and by 2050 we will remove
our historical carbon
footprint from 1975
onwards



Water-positive by 2030



Zero waste by 2030



We protect more land than
we use by 2030

Energy from three perspectives



A consumer on the grid

Large customer with **stable, high-value load** and high average load factor



A collaborator in clean energy & grid

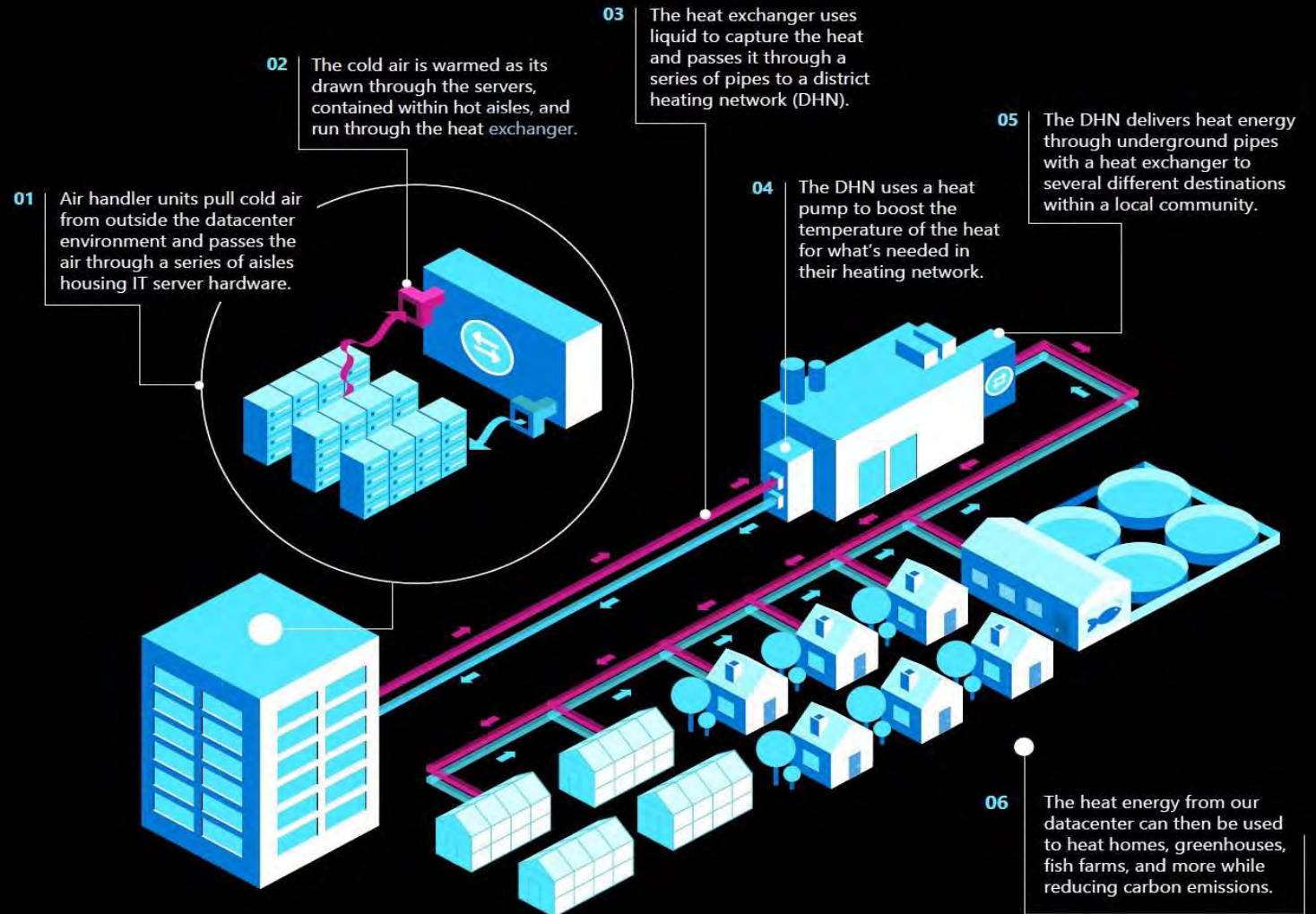
Dedicated to procuring **100% emissions free energy** and being **carbon negative** and **diesel free** by 2030.



An innovator of energy technology

Improving **grid reliability** and enabling **environmental efficiencies**

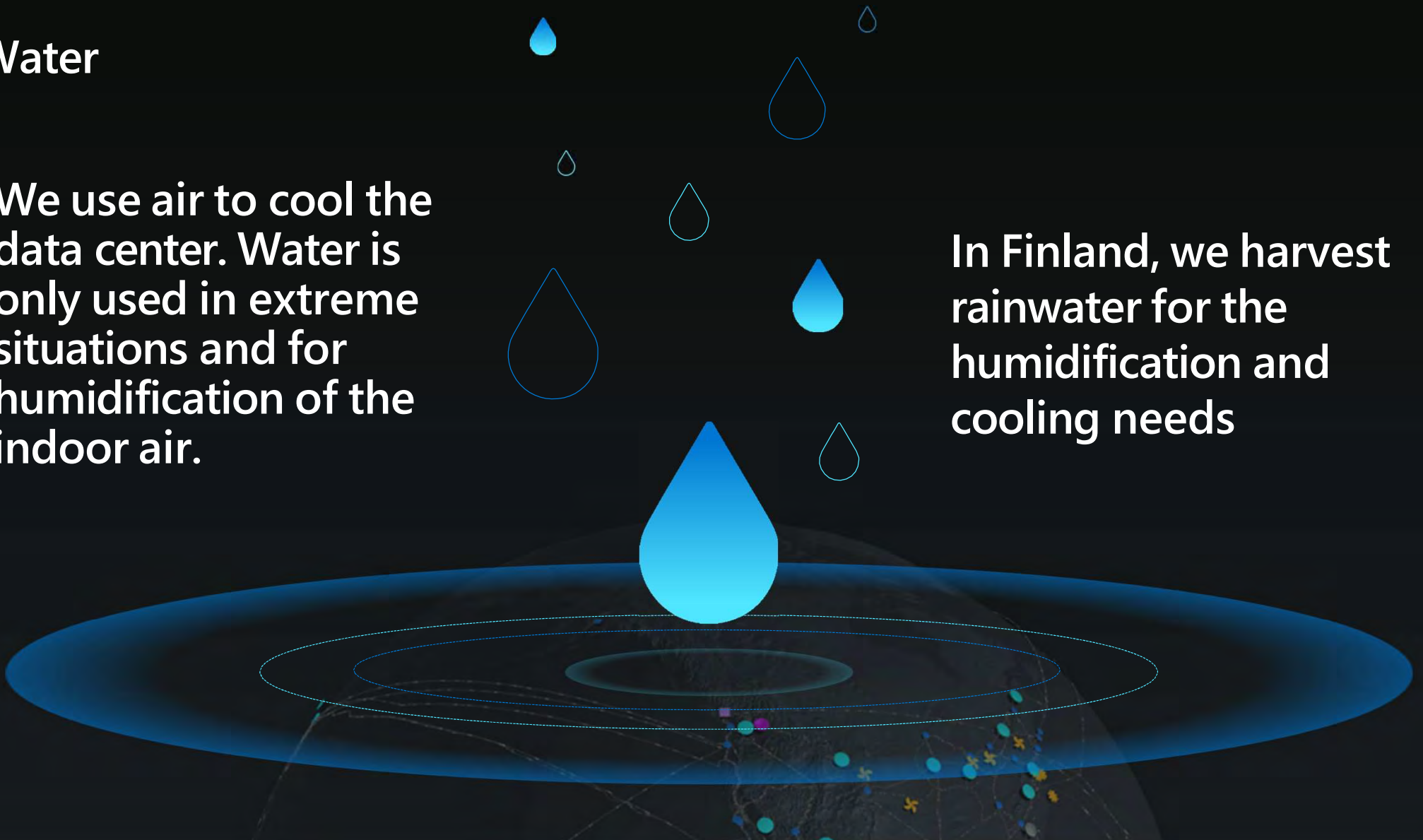
Reuse of waste heat in the aircooled datacenter



Water

We use air to cool the data center. Water is only used in extreme situations and for humidification of the indoor air.

In Finland, we harvest rainwater for the humidification and cooling needs



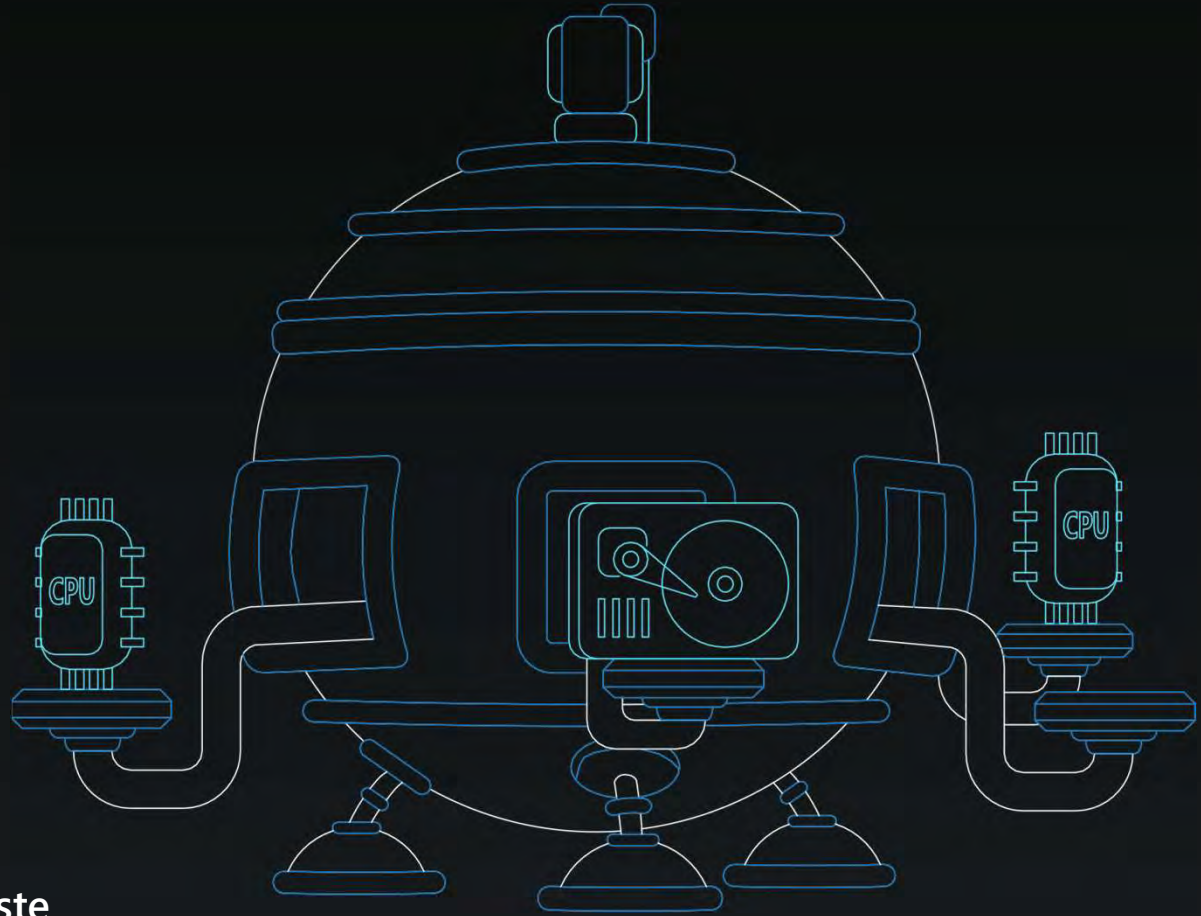
Waste (circular economy)

90%

of servers and components will be recycled **by 2024**

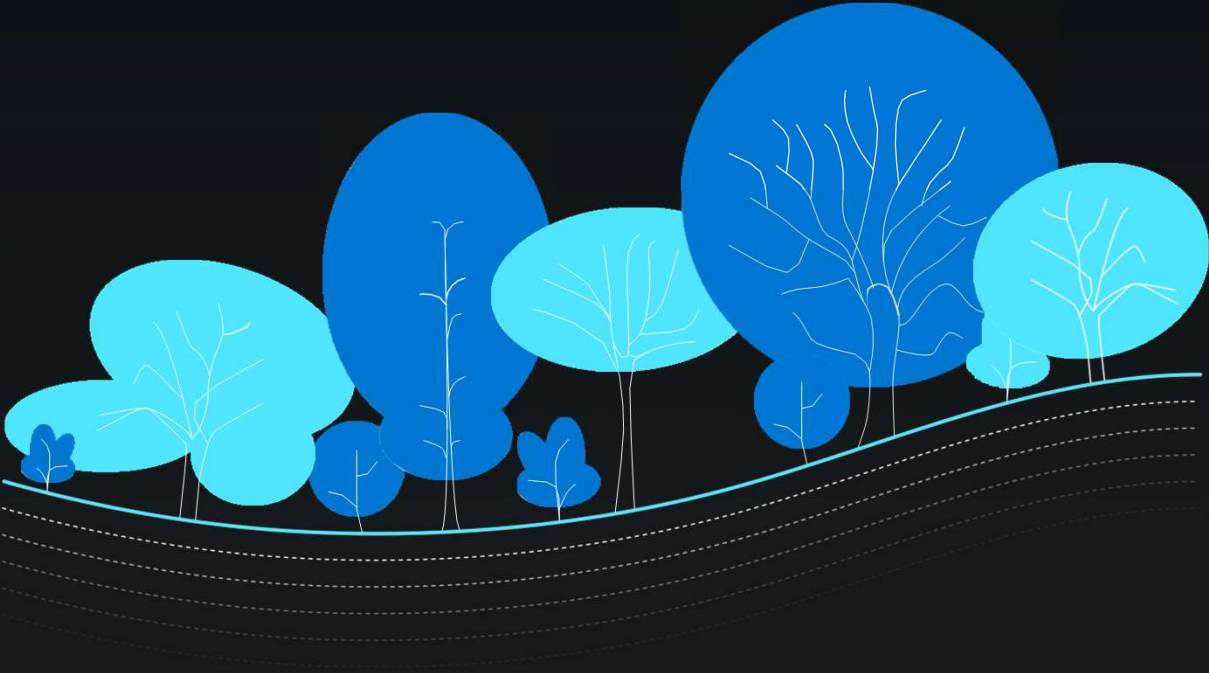
We commit to achieving "zero waste" by 2030

E.g. Dublin Ireland data center zero-waste certificate



Ecosystems

We will protect and restore more land than we use by 2030.



Social Sustainability

Microsoft strives to be a good neighbor and to create a positive impact in the communities that host our datacenters.



We invest in people through **skill-building programs**



We support **local projects** in response to community needs



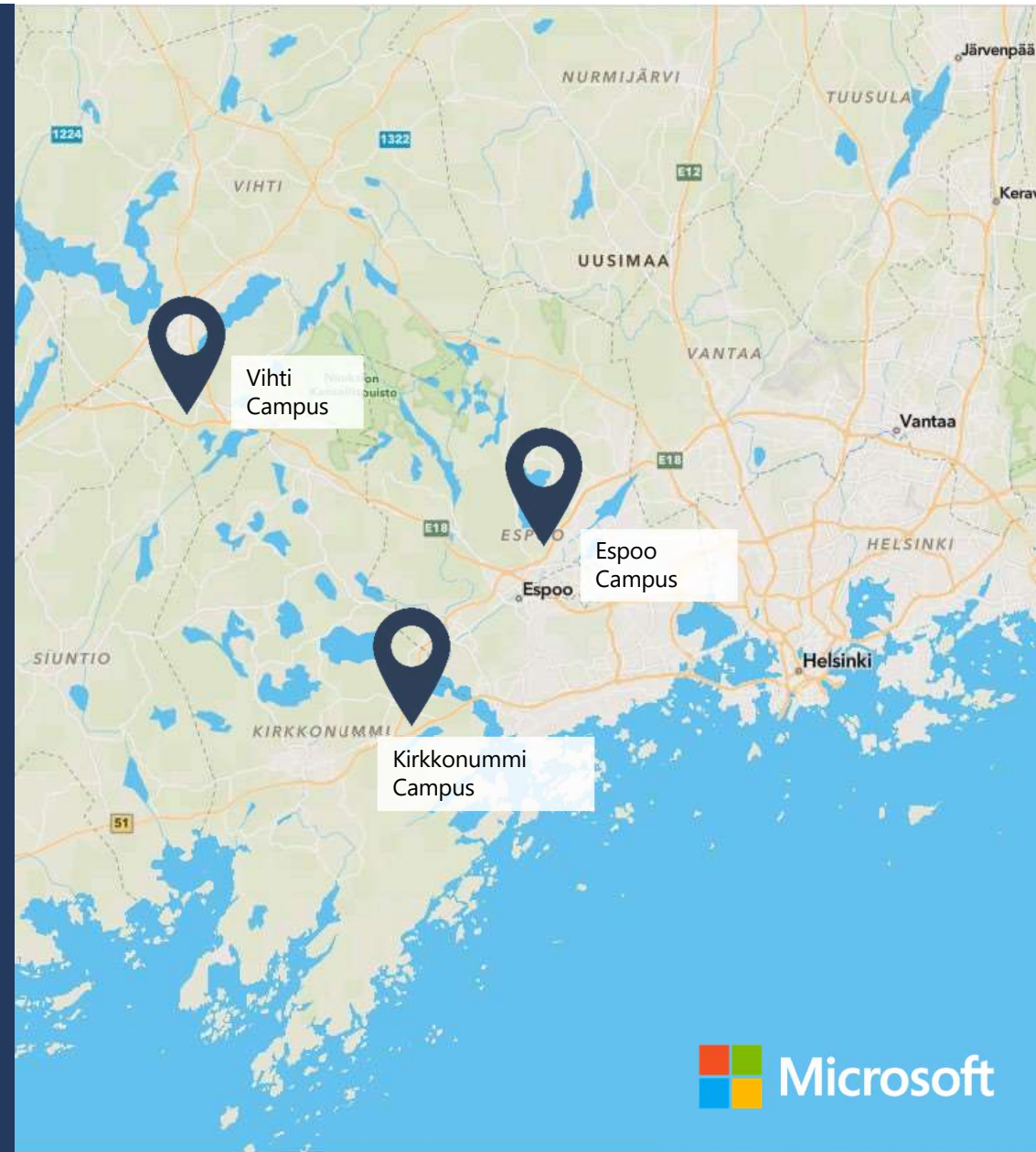
We partner with **environmental sustainability programs** in the region

Microsoft datacenter region program

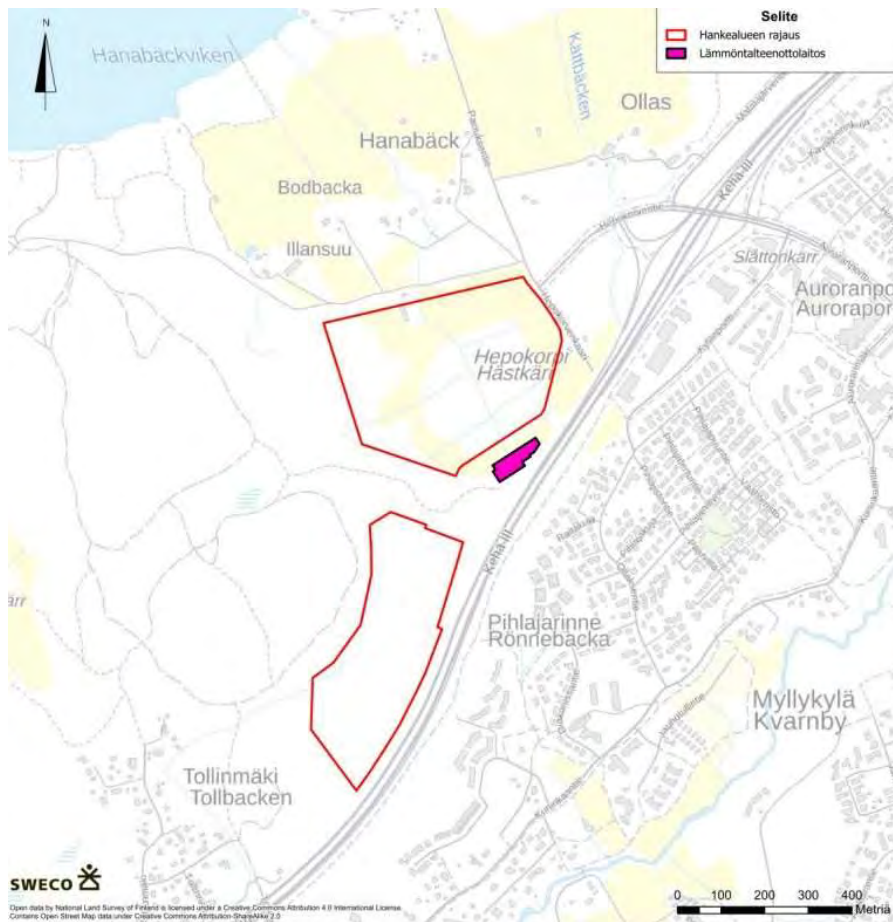
Land area
+ 1,400,000 sq m

Building right
+ 850,000 sq m

Location
Länsi-Uusimaa



Espoon Campus

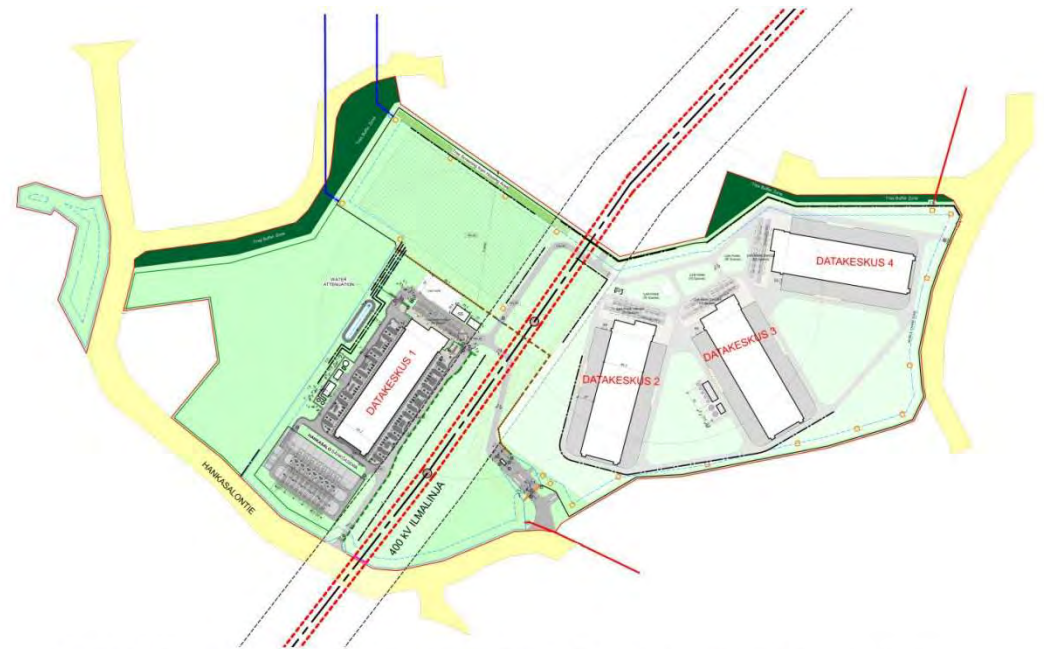
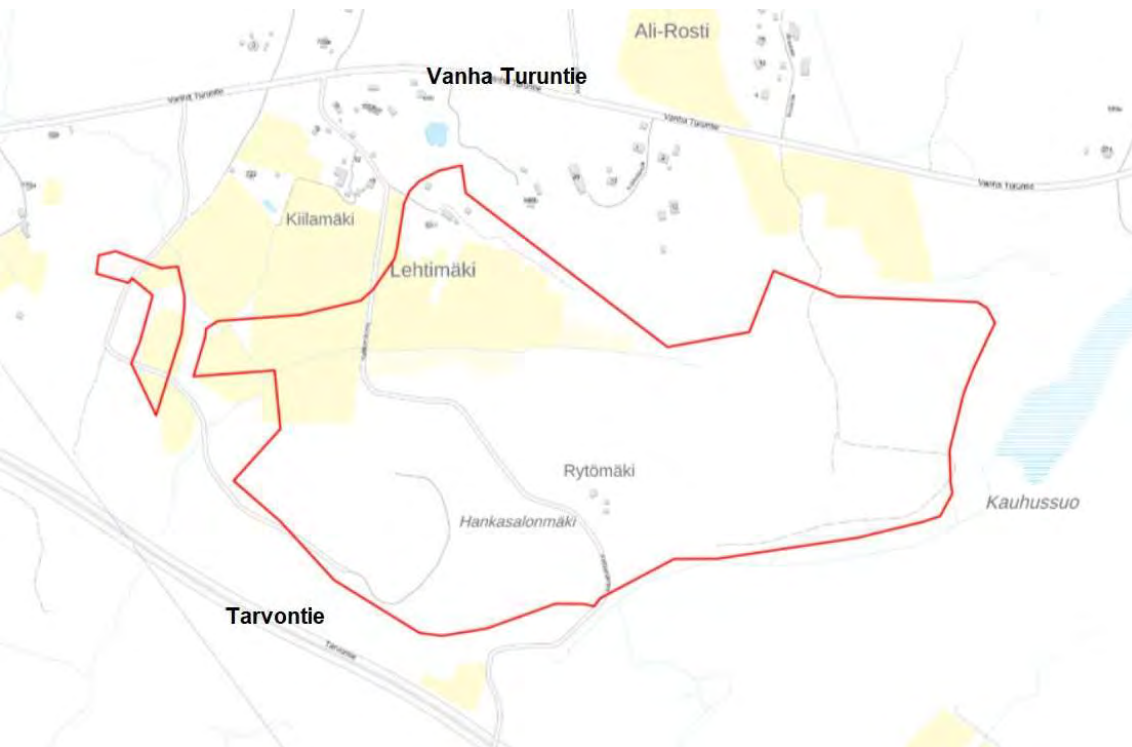


Kuva 4. Nykyisen suunnitelman mukainen asemapiirros. Bild 4. Situationsplan enligt nuvarande plan.

Kirkkonummi Campus

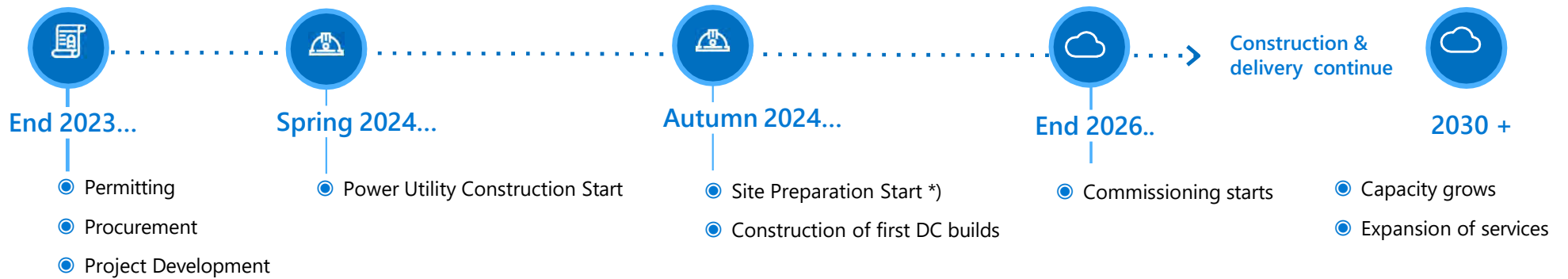


Vihti Campus



Kuva 4. Nykyisen suunnitelman mukainen asemapiirros. Bild 4. Situationsplan enligt nuvarande plan.

Datacenter Program timeline



*) Subject to permitting





Datacenter Community
aka.ms/SuomiDC