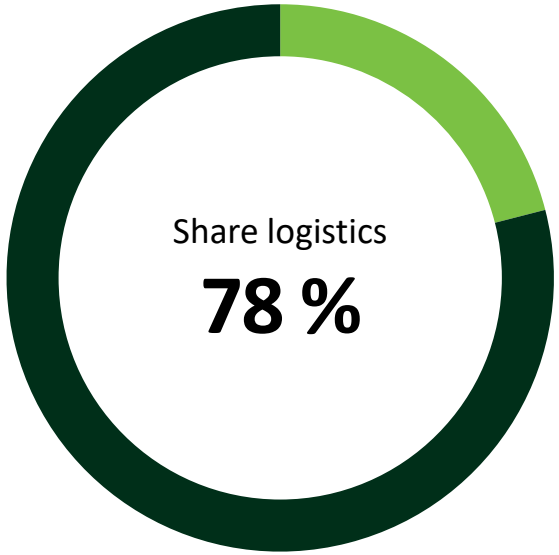
5G Usage Posten Bring

Frekvensforum 2025

Posten Bring: A Nordic postal service and logistics group founded in 1647

24 394 millions NOK in revenue (2023)



Share mail
22 %

Revenue in Norway 64 %
Revenue outside Norway 36 %

Norway: 10 973
Denmark: 305
Sweden: 1 187
Finland: 41

posten

for the Norwegian people

bring

for business customers
in the Nordic region and private customers outside Norway

Background for our 5G journey


posten
Send klær, sko og tilbehør med
Fretexposen
5 ting du bør vi
du handler p
fra utlandet
Frist for innlevering av post
Kl. 18.00 mandag - fredag
Postbokser
Kl. 10.00 mandag - fredag


5G Coverage

“Post i butikk” now

5G Drøbak

Drøbak terminal - advanced connectivity

Background and context

- New terminal, completed December 2023.
- Warehouse-as-a service
- Test center for advanced connectivity to drive Posten Bring digitalization agenda.
- Highest level of efficiency, security and reliability.

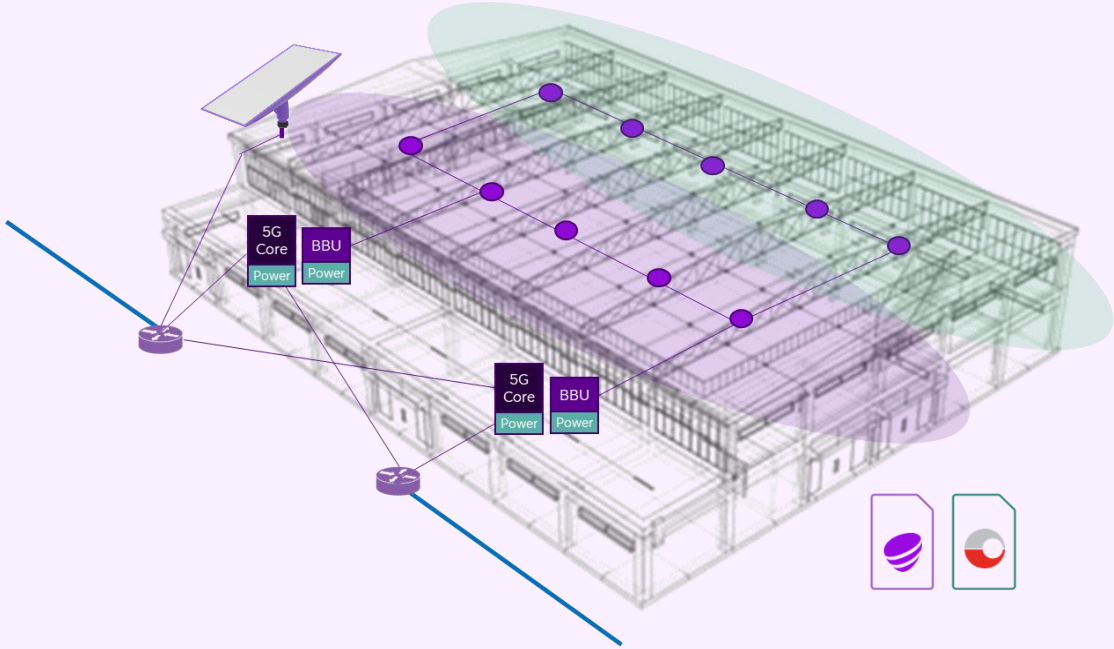
Practical information

- ca 20 000 sqm
- Full digital workflow with handheld devices, forklifts, printers, operators etc.
- Close collaboration between Posten, Telia and other suppliers.

Multiple redundancy ensures uninterrupted operation

Technical highlights

- Cellular technology integrated with WAN and cloud
- Scanners, tablets, printers etc. connects with 4G or 5G
- Private mobile network with Posten sim-cards
- Indoor antennas for Telia’s public mobile network
- Dual fiber connectivity
- Starlink antenna for redundancy



Cellular connectivity outperforms wifi

4G and 5G have several advantages compared to wifi:

- Licensed radio spectrum.
- Increased cyber security through SIM-identification, native encryption in radio interface
- Higher capacity and performance. Better stability in high usage scenarios
- Better handover capabilities between sites, also outdoor
- Longer range / less access points than wifi. Reduces cabling and installation.

5G vs Wi-Fi 6

The novel solution provides several advantages

Expected customer value and benefits:

- Test site and platform for novel technologies
- First-hand experience in a real production environment
- Blueprint for other terminals
- Large potential for scaling and future features like:
    - 5G slicing
    - Edge compute
    - Push-to-talk (PTT)
    - 5G Positioning

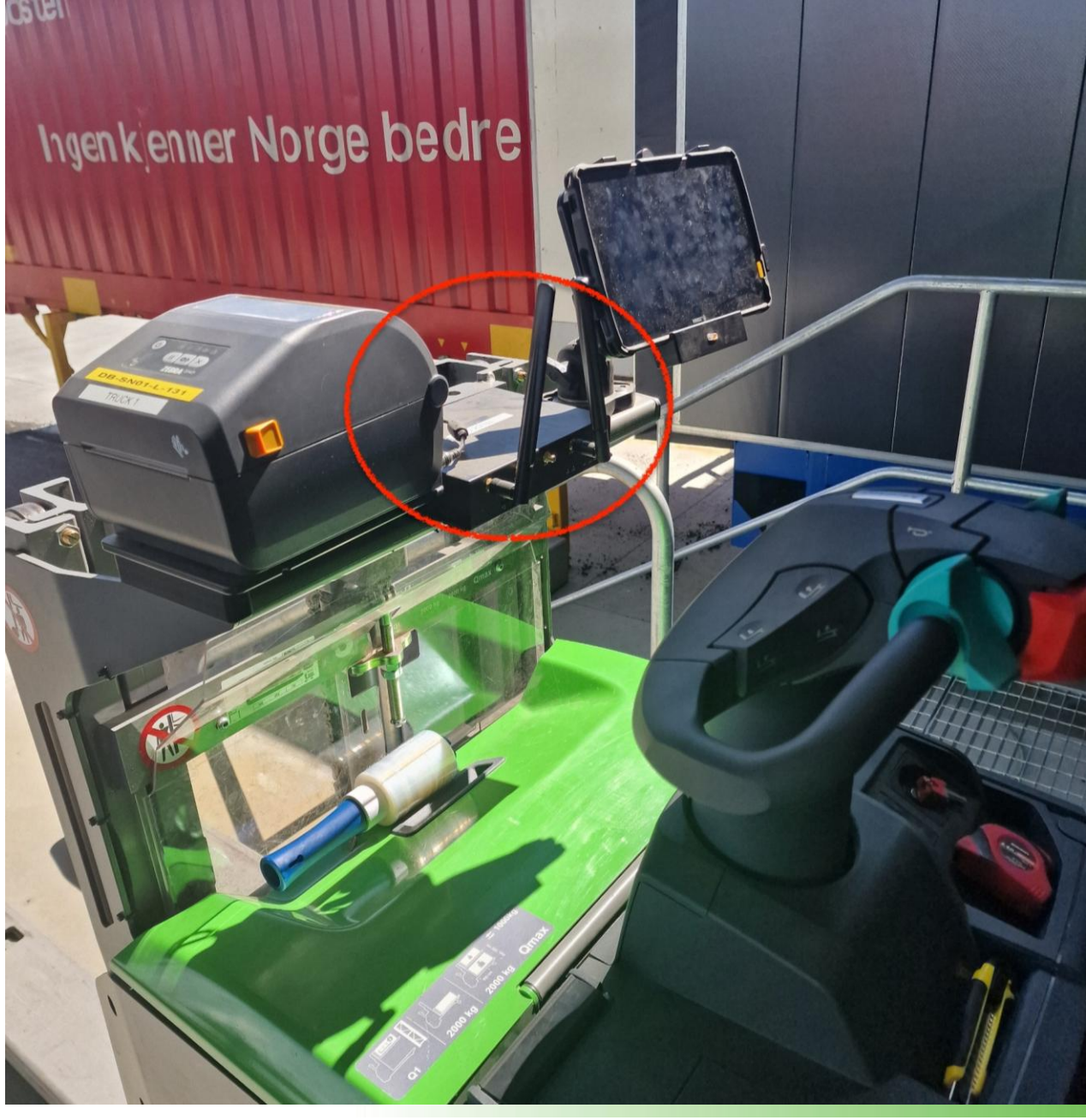
“Satisfied users”

Any challanges ?

The industry is not 100% mature yet

Hardware support 5G

eSim onboarding pc



The solution has attracted external attention

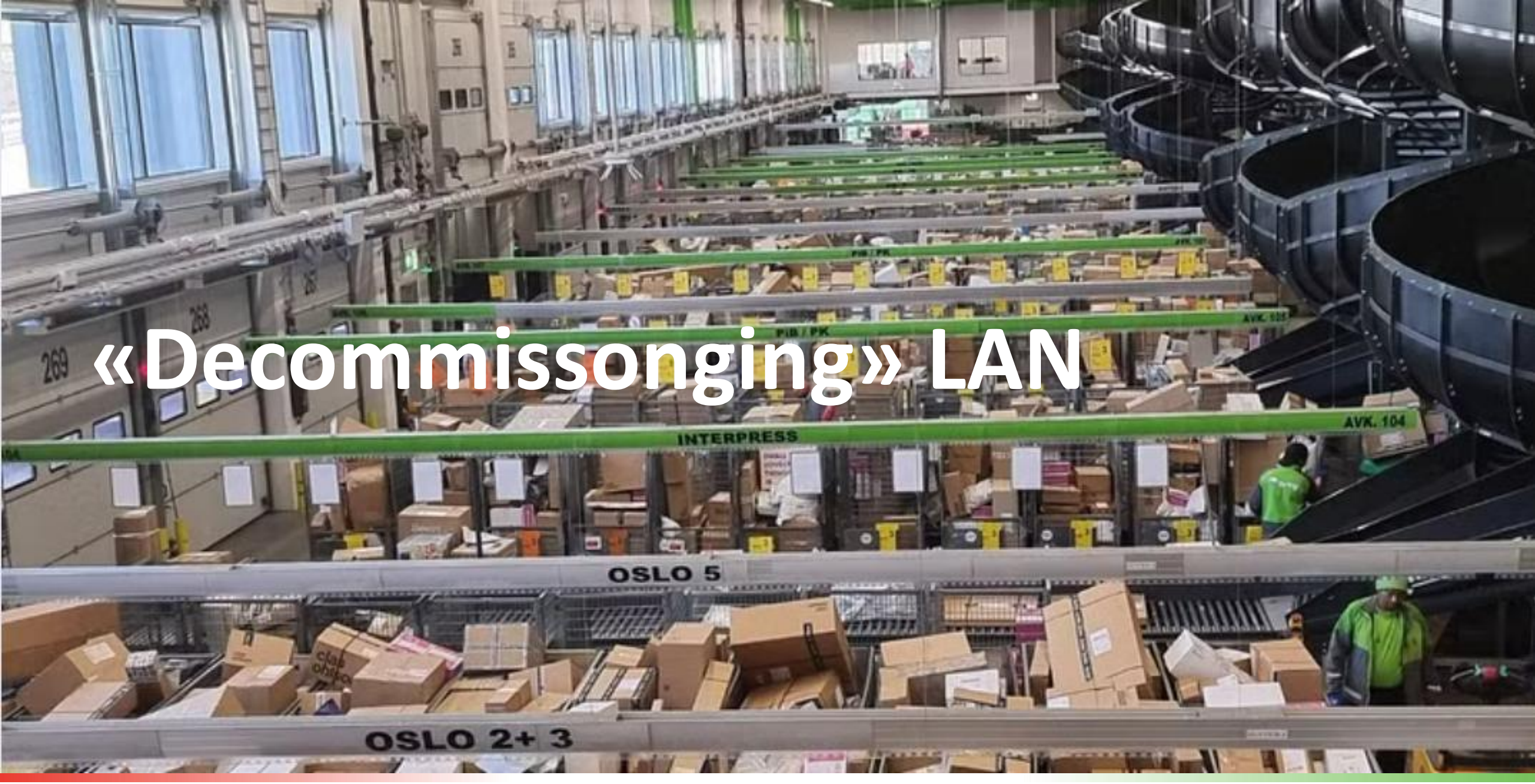
Starlink as reduancy and special usage


7850 NSG-C601
nuagenetworks
DELL EMC
DELL EMC S4148F-ON

Starlink test sorting


CHINA SHIPPING
tex

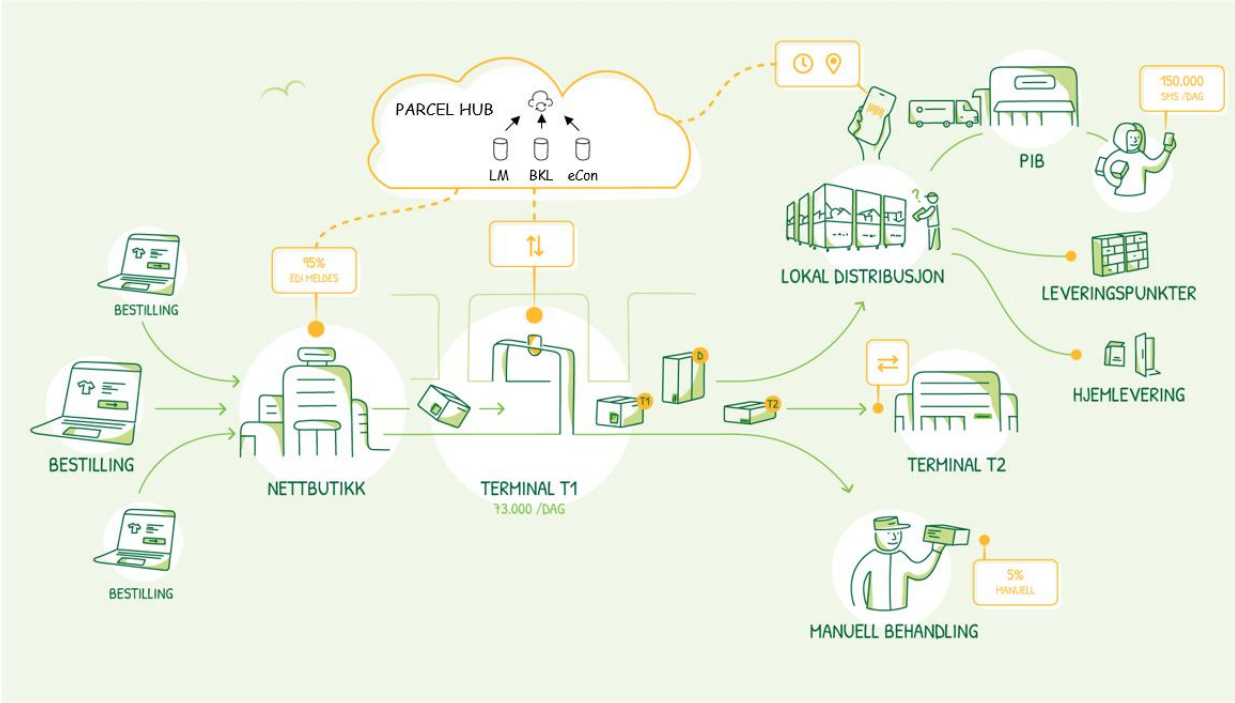
Next step



«Decommissonging» LAN

Connectivity scope

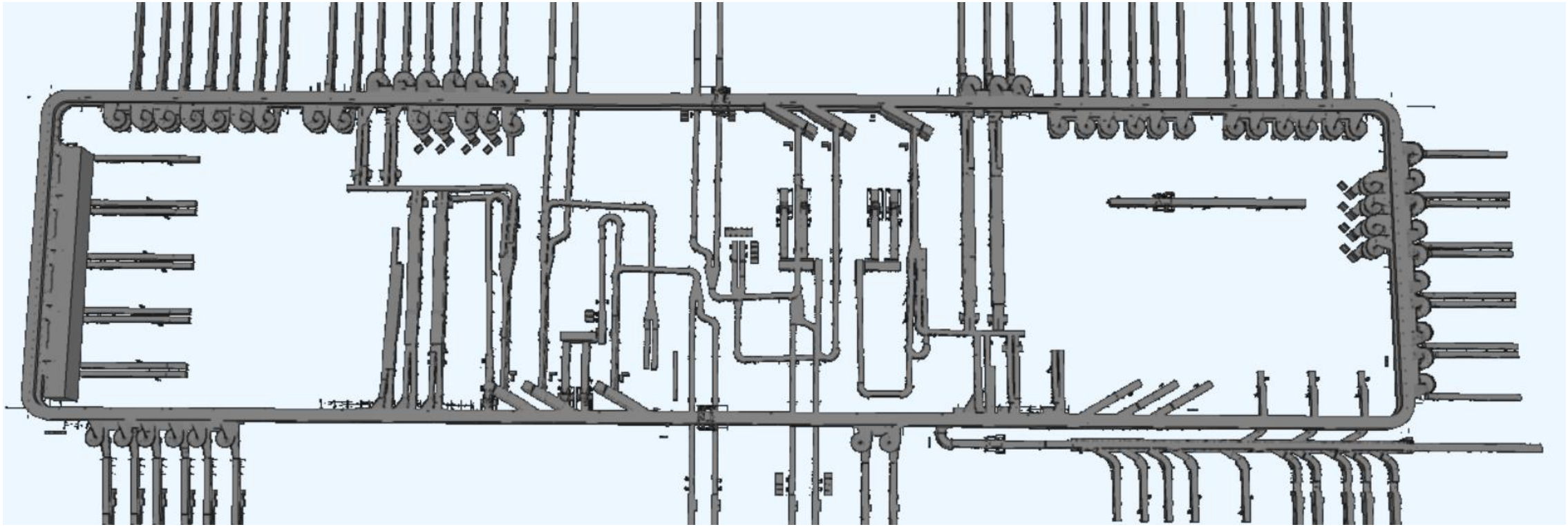
- More than 4400 pickup points already transitioned to the new solution
- More than 12,000 PDAs and 3,500 iPhones in production, more or less completed
- Of 1,726 locations with network distributed across Norway, Sweden, Denmark, and Finland, approximately 300 remain
- We have started a project to transition the remaining locations to the new solution



Terminals

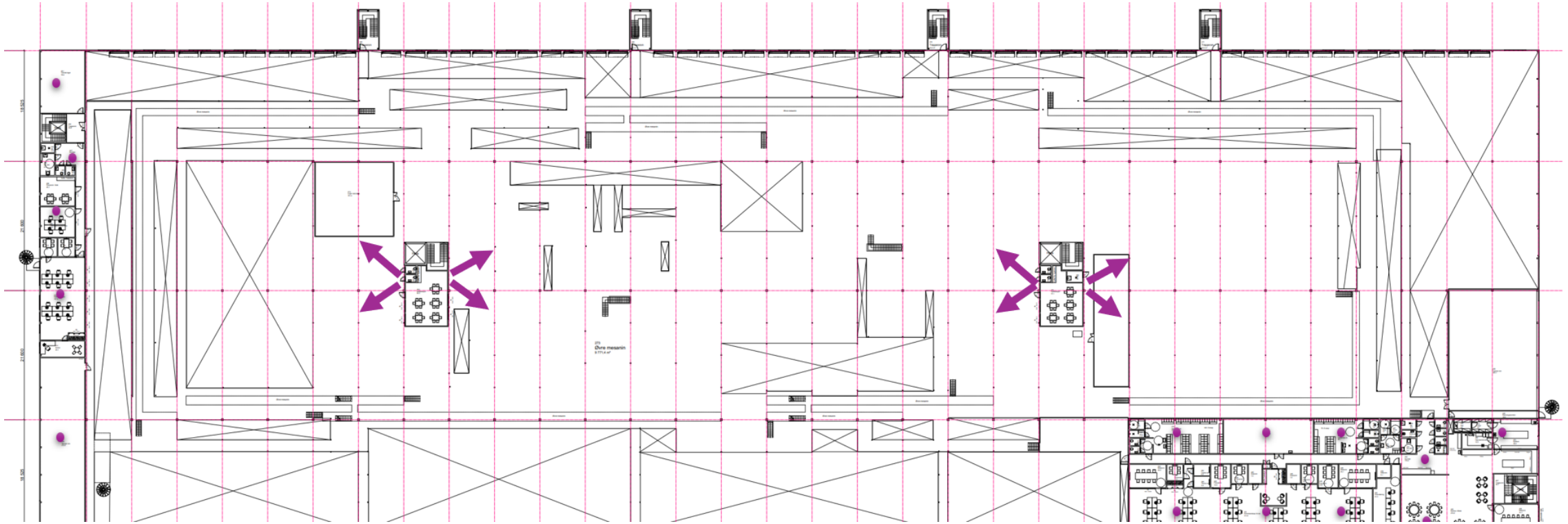
Other locations

Complex sorting machine, which creates challenges for good and stable Wi-Fi coverage…



22 000 kvm Produksjons område, med tilhørende sorteringsmaskin

Possible location of EMN for optimal coverage vs. 200-225 pcs. Wi-Fi access points



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