

#### Mobile, unlocking the next wave of innovation



Build out the mobile internet and cloud

Connect everyone

Voice and SMS

Pay-per-use (\$/min, \$/SMS) Mobile Broadband

Subscriptions (\$/GB/month)

Mid-band 5G M-MIMO Carrier aggregation

5G stand alone Network slicing Network exposure Expand and differentiate

Scale new use cases such as FWA, AI apps and AR

Expand to new sectors
...such as 5G for enterprise and mission critical

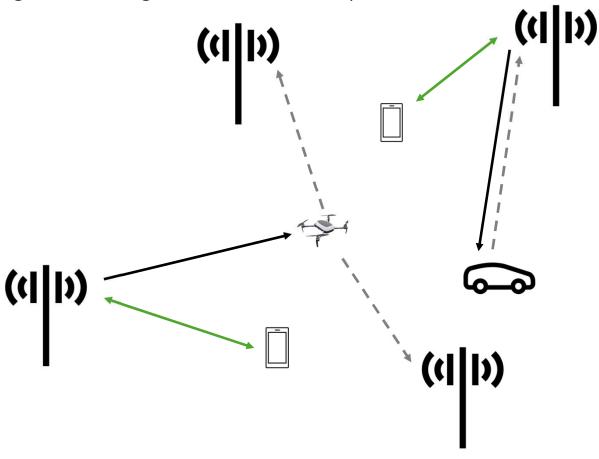
Dynamic business models
...SLA-based, for e.g. reliable transactions, broadcasting

New capabilities beyond connectivity

\_with network APIs (e.g., fraud prevention, sensing)

#### What is ISAC?

(Integrated Sensing And Communication)

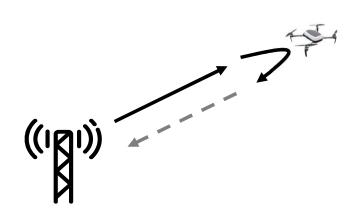


Using the mobile network for objects detection (sensing) <u>and</u> to communicate with connected devices

----- communication signal sensing signal

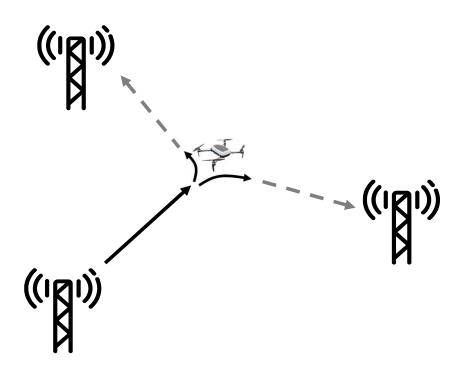
– – – reflected signal

#### Different ISAC modes



**Mono-static radar** 

Reflected signal received by transmitting node

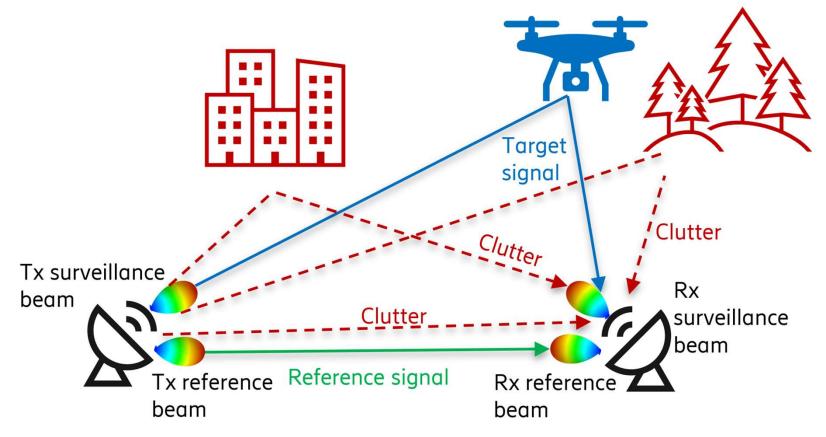


Bi-/Multi-static radar

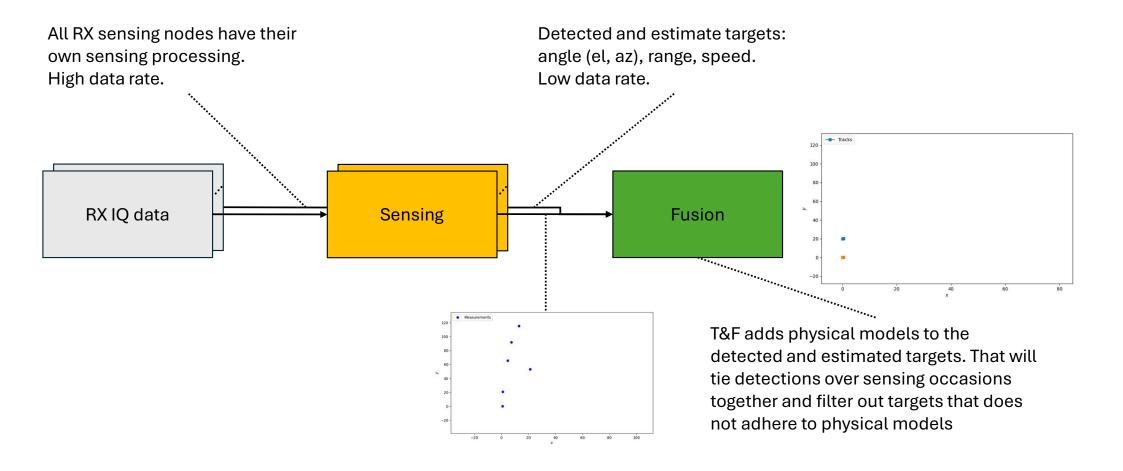
Reflected signal received at different node(s)

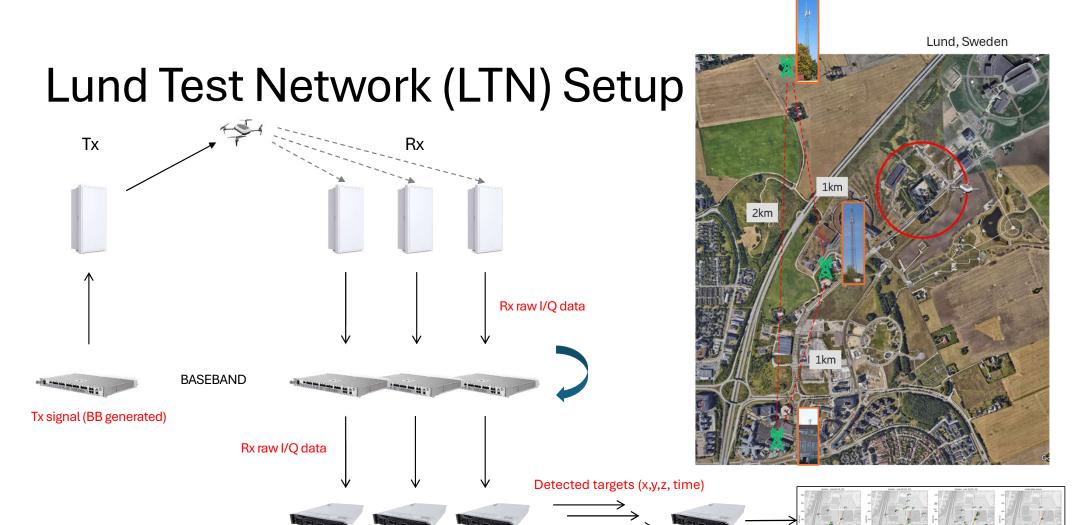
Mono-static and Bi/Multi-static radar can be combined

#### Bi-static



## Sensing and fusion





Fusion server

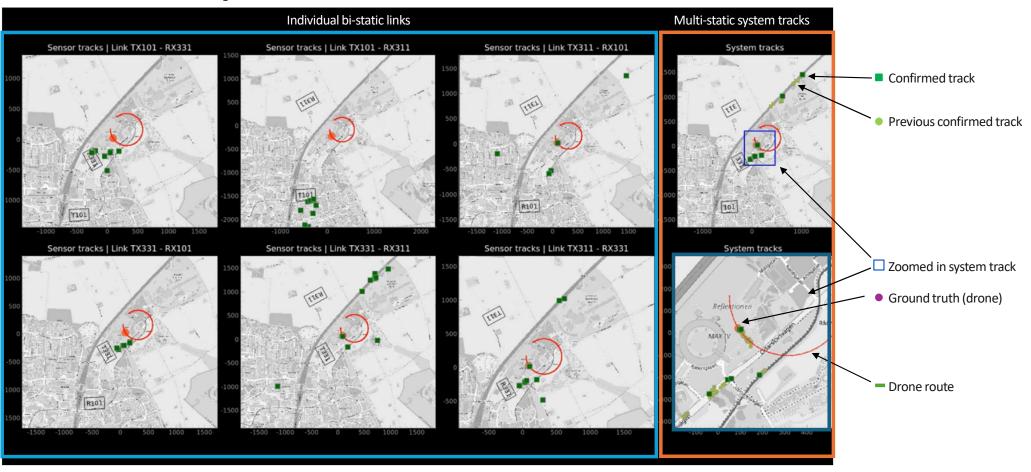
- Tracking

- Fusion

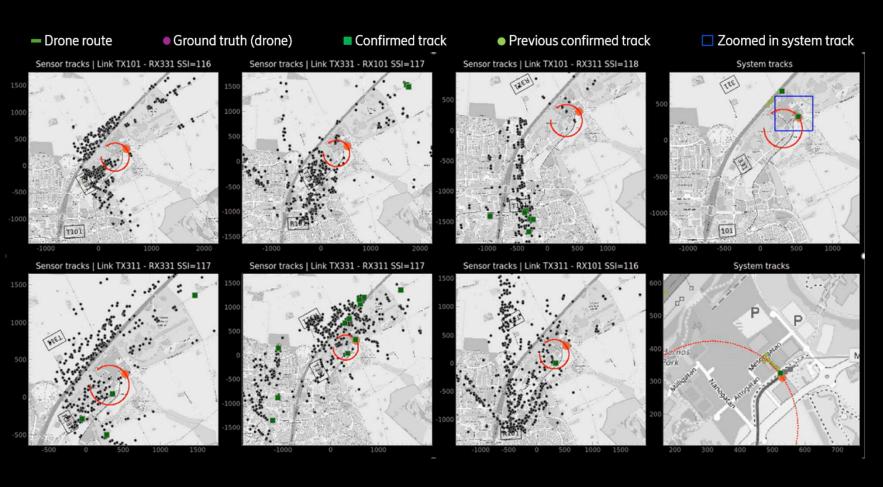
Sensing servers

- Target detection
- Target estimation
- Sensor space tracker and fusion

# Video explanation

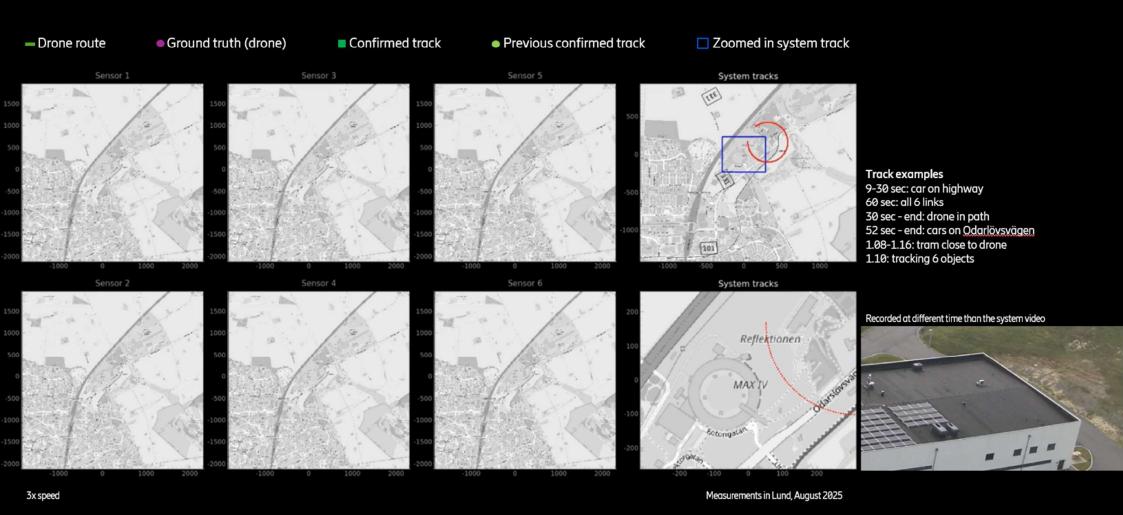


## With detections



3x speed Measurements in Lund, August 2025

#### **Tracks**



# THANK YOU!

