Framtidens taktiske trådløse datalinker

Hvor er vi på vei?

Teknologidager med Sjøforsvaret

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20 ÅR MED TEKNOLOGISK INNOVASJON

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Photo: UMS Skeldar

Novel technology

Tactical phased array communication. Narrow beams w/o moving parts

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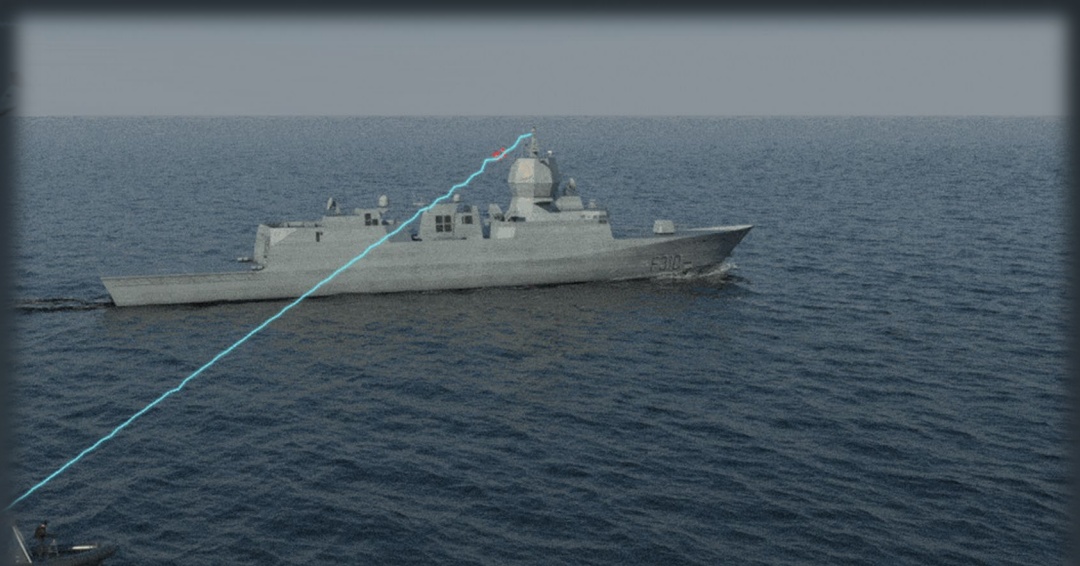
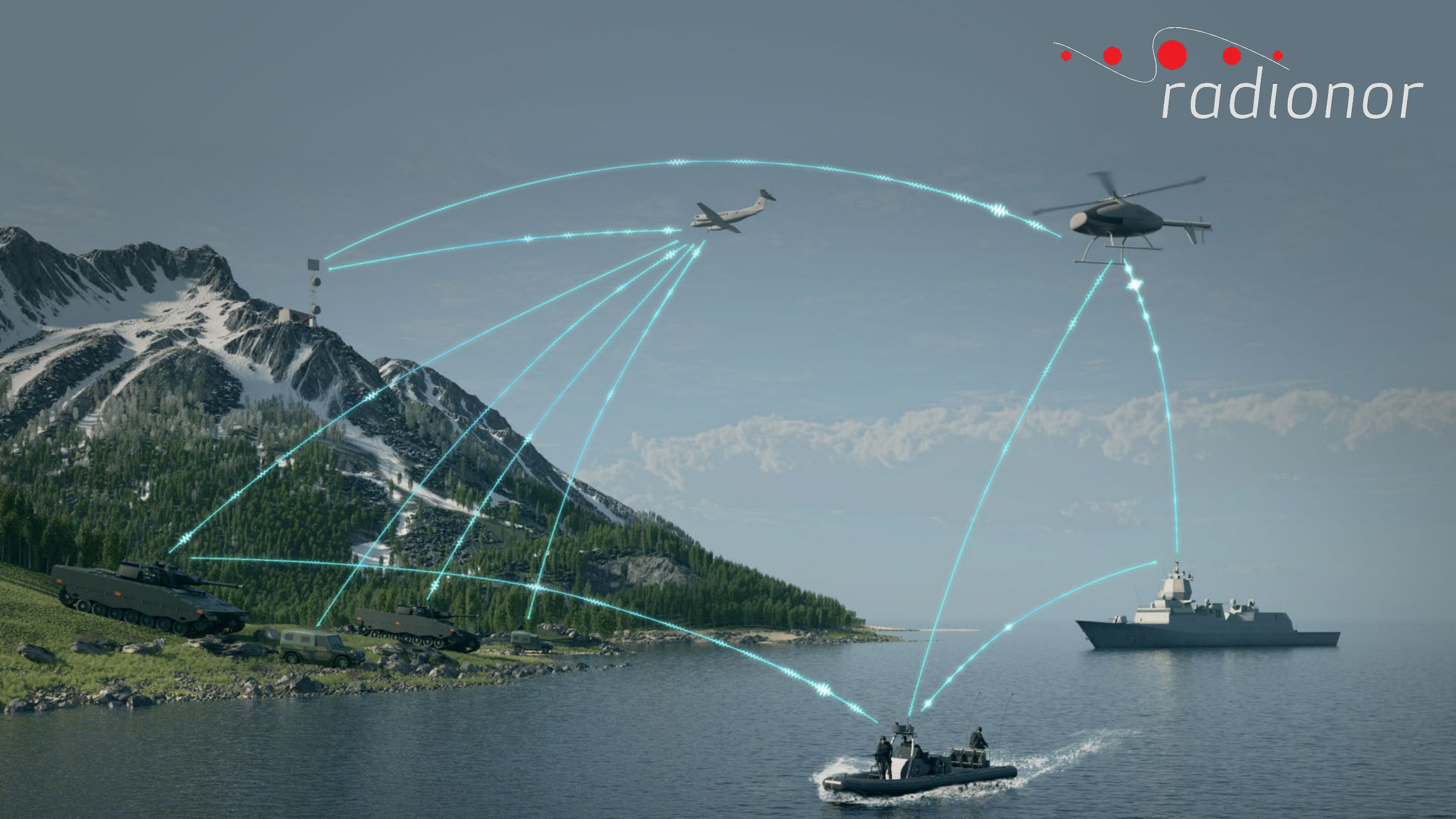


Conventional system:

- Energy radiated in all directions
- >99% wasted RF energy
- Limited range
- Low data rates
- Unwanted spectrum «pollution»
- Easy to monitor by enemy
- Easy to jam & block in VHF/UHF
- Frequency hopping required

Electronic beamsteering:

- Energy radiated in the right direction
- Little wasted RF energy
- Long range
- High data rates with video capability
- Effective spectrum utilization
- Difficult to monitor by enemy
- Narrow beam prevents jamming
- No frequency hopping required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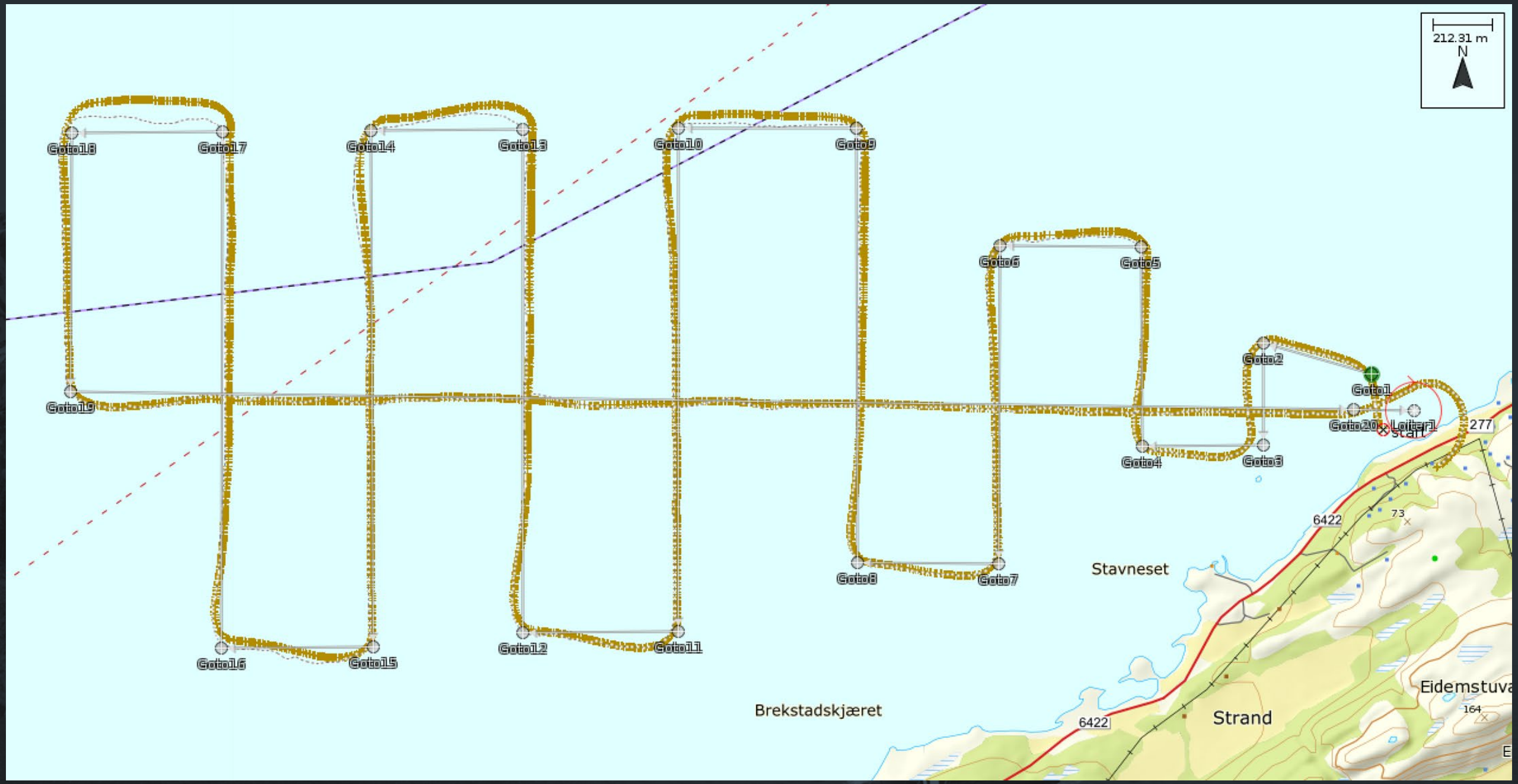

Photo credit: Kristoffer Gryte, NTNU

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Foto: Forsvaret

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