

# Creating the prerequisites to win

## Deception is a state of mind

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# The challenge

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# All warfare is based on deception

“ Hence;  
If you are capable, show incapability  
If you have resources, show shortage  
If you are close, show distance  
If you are distant, show presence  
If the enemy is greedy, tempt him  
If the enemy is in disorder, attack him  
If the enemy is stable, prepare for him  
If the enemy is strong, avoid him  
If the enemy is angry, tease him  
If the enemy is weak, dominate him  
If the enemy is resting, disturb him  
If the enemy is gathered, divide him  
Attack him where he is least prepared  
Appear where he doesn't expect you to ”

– Sun Tzu, *The Art of War*

兵者，诡道也。  
故能而示之不能，用而示之不用，近而示之远，远而示之近。  
利而诱之，乱而取之，  
实而备之，强而避之，  
怒而挠之，卑而骄之，  
佚而劳之，亲而离之，  
攻其无备，出其不意。  
此兵家之胜，不可先传也。  
夫未战而庙算胜者，得算多也；未战而庙算不胜者，得算少也。多算胜，少算不胜，而况于无算乎！吾以此观之，胜负见矣。



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# What is Deception?

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## DECEPTION

Conscious active and passive measures taken in order to give the enemy the wrong decision stimuli to make the opponent use their resources in vain or take imprecise actions.

## ACTIVE DECEPTION

Exemplified by Decoys  
and False activities

## PASSIVE DECEPTION

Exemplified by  
Signature  
Management and  
concealment



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# Transformation of the battlefield

Development is exponential – most things happen sooner rather than later.

## Traditional defence force



2025

Sensor fusion

Autonomy

AI

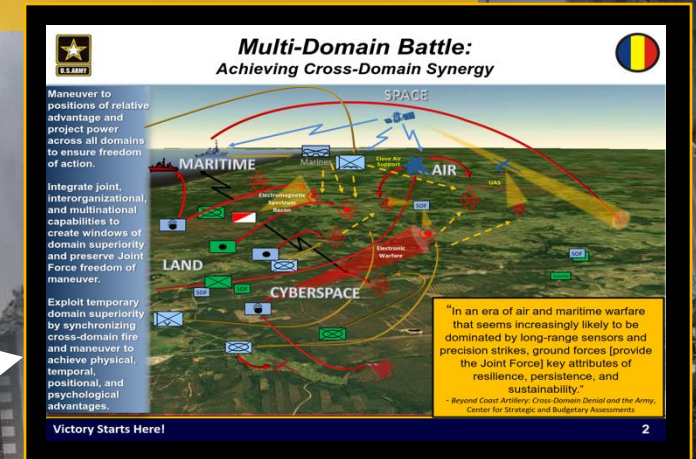
Robots

EW

Drone swarms

2030

## The future battlefield



2035



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# The observed and transparent battlefield

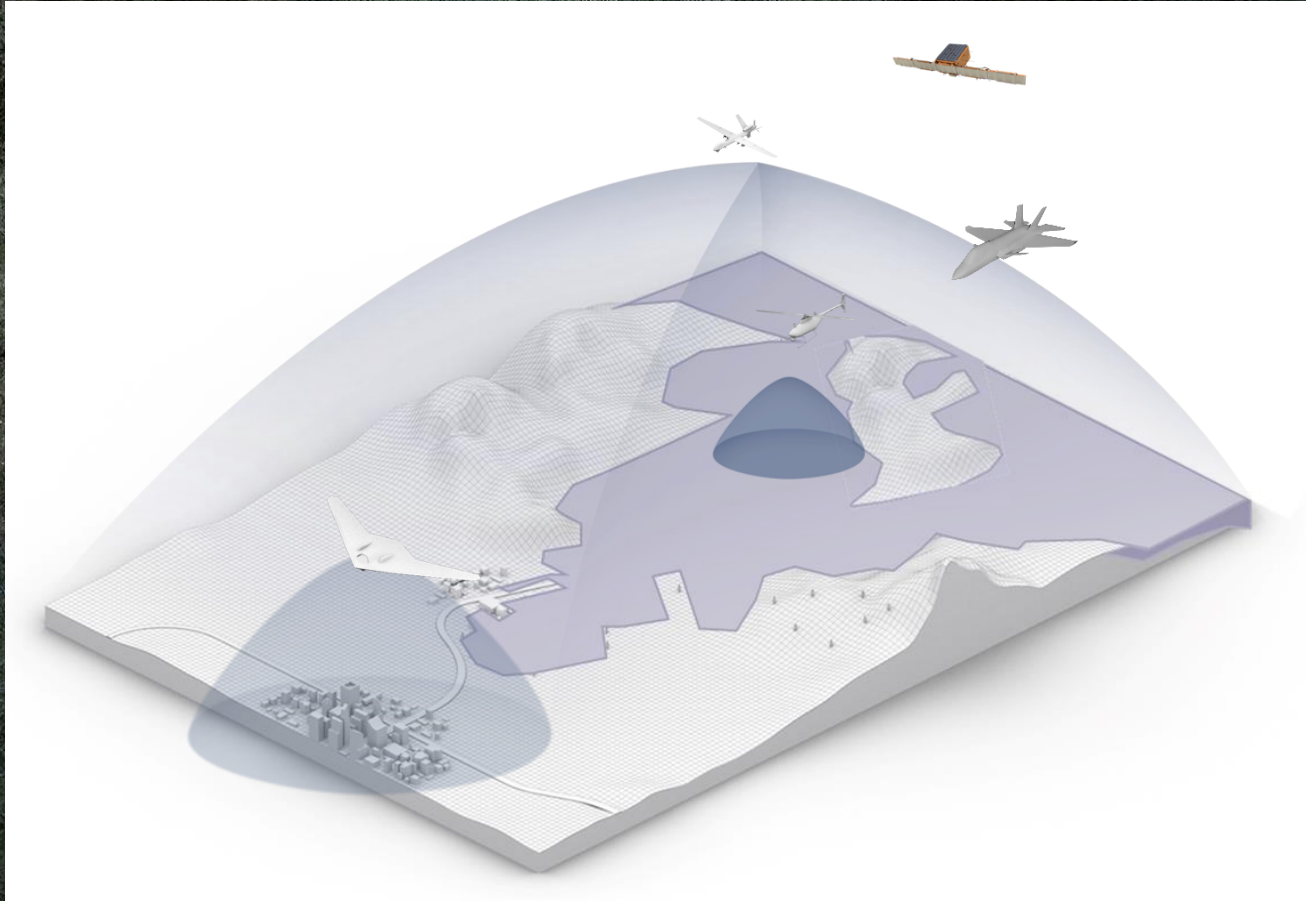
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Satellites with high resolution EO&SAR,  
GOV and Commercial

High-altitude, fixed-wing UAVs with EO  
& SAR-sensors, AEW-C, Airplanes

Medium-range, fixed-wing UAVs  
with EO- & SAR-sensors, Helicopters

Rotary-wing UAVs with  
EO & (SAR)-sensors

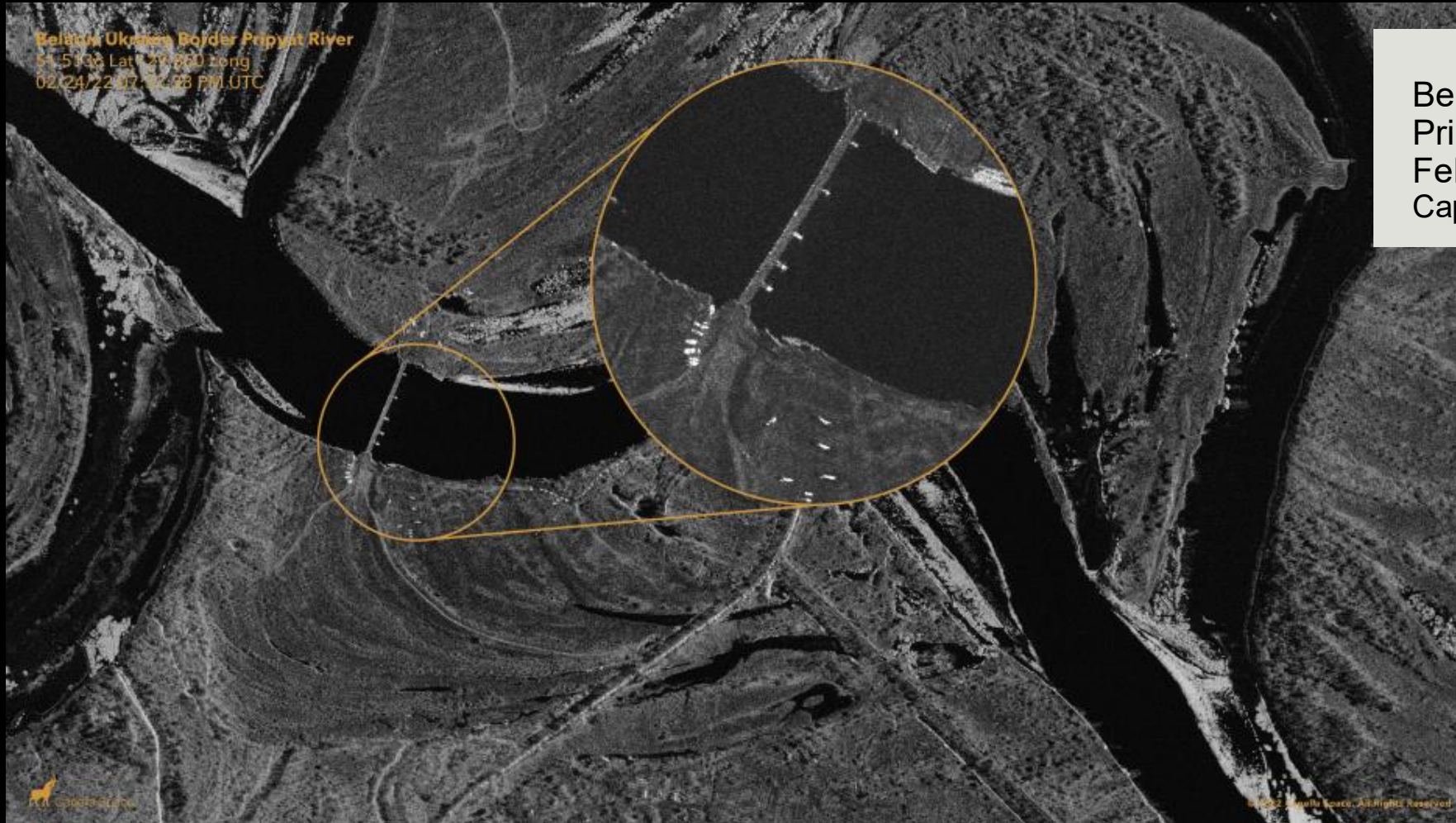


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# Radar surveillance from space – Yesterday

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Belarus-Ukraine Border Pripyat River  
51.5133 Lat 29.800 Long  
02/24/22 07:51:28 PM UTC

Belarus-Ukraine Border,  
Pripyat River,  
February 24<sup>th</sup> 2022  
Capella Space



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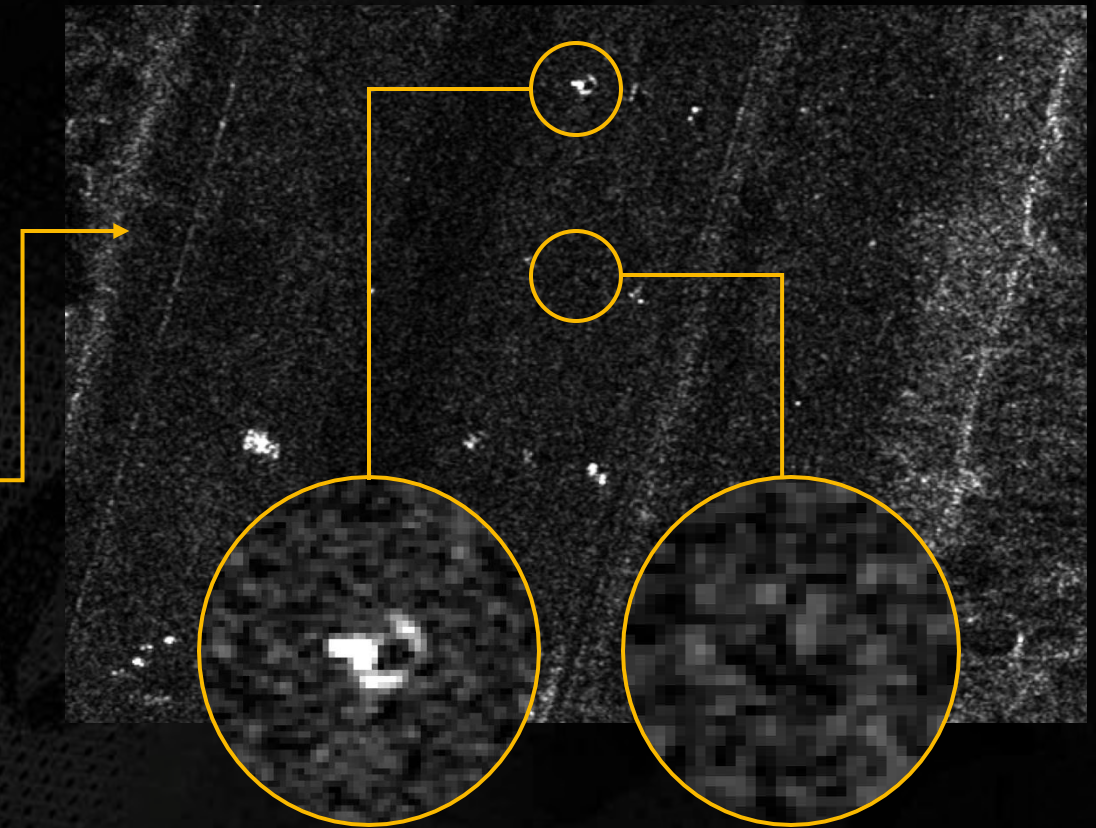
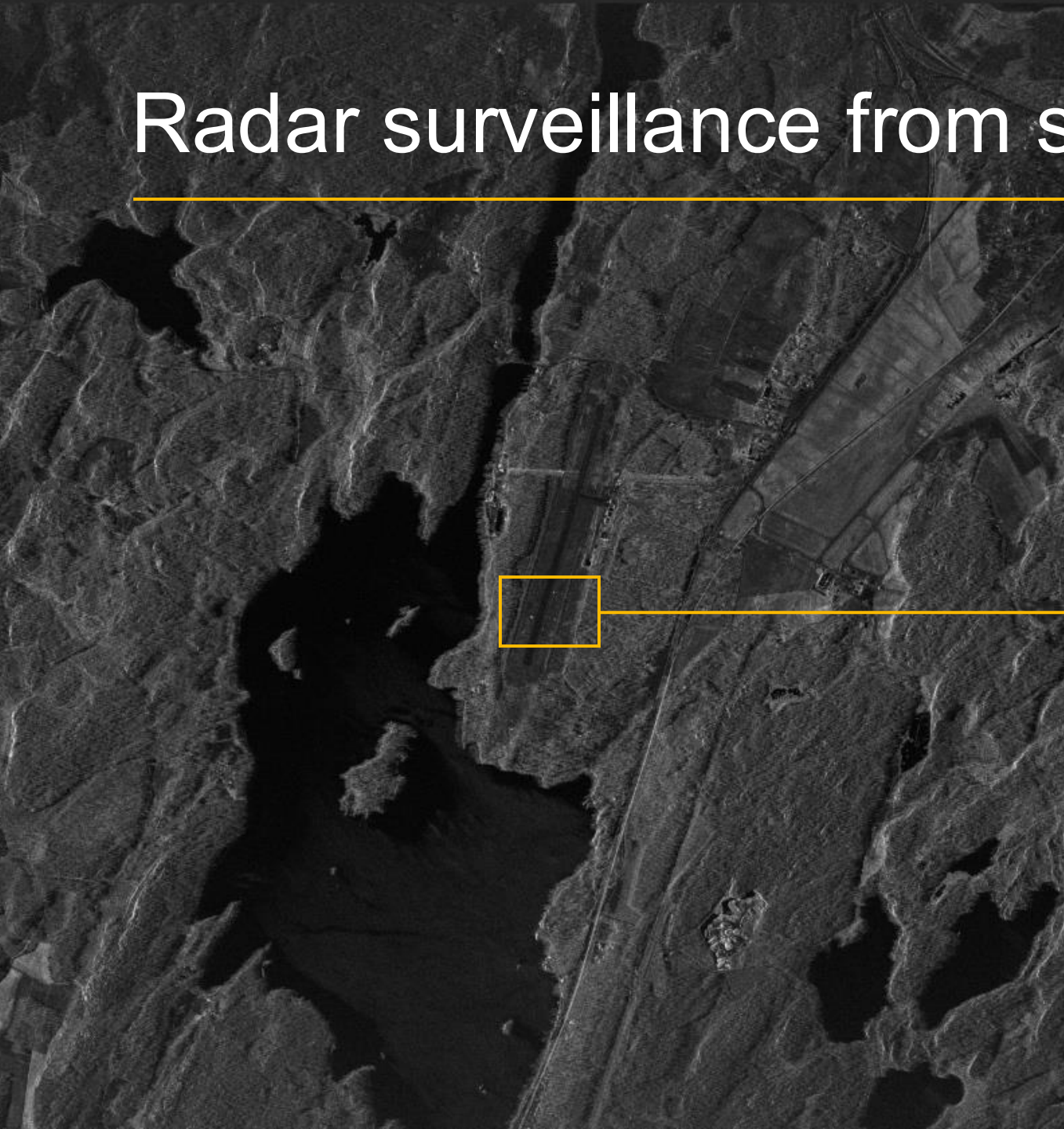


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# Radar surveillance from space – today

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Reflective  
camouflage

Absorbing  
camouflage



# Recent experiences from High-Intensity conflicts

- Increased vertical threat
- 75-85% of casualties are from long-range fire (surface-to-surface, air-to-surface, sea-to-surface)
- Sensor-enabled kill-chains
- Sensor fusion – AI
- Most detected targets are engaged
- All emissions (IR, radio, radar, mobile phone) are positioned





# System-of-systems approach

## Technology doctrine:

- Deception is theatre-coherent
- Multispectral/passive/absorbing
- Active and Passive capability

Formation  
integrated



Platform  
integrated



Soldier  
integrated



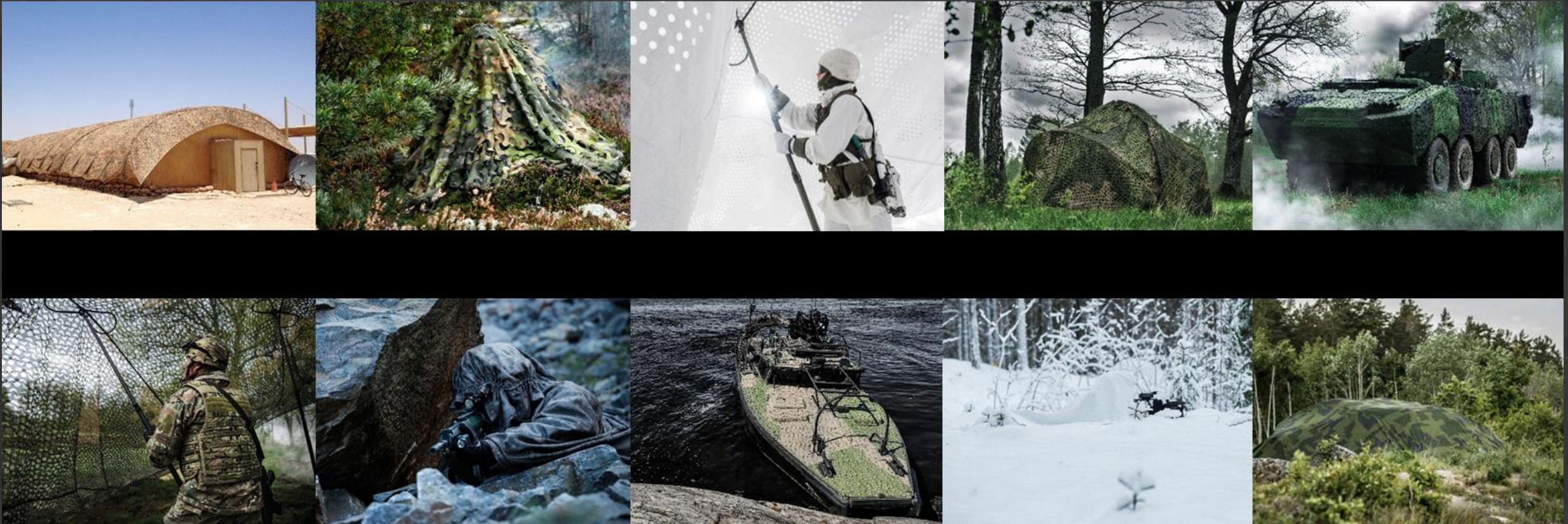
A decoy needs to give multispectral emissions and reflections





# Examples from the Barracuda product portfolio

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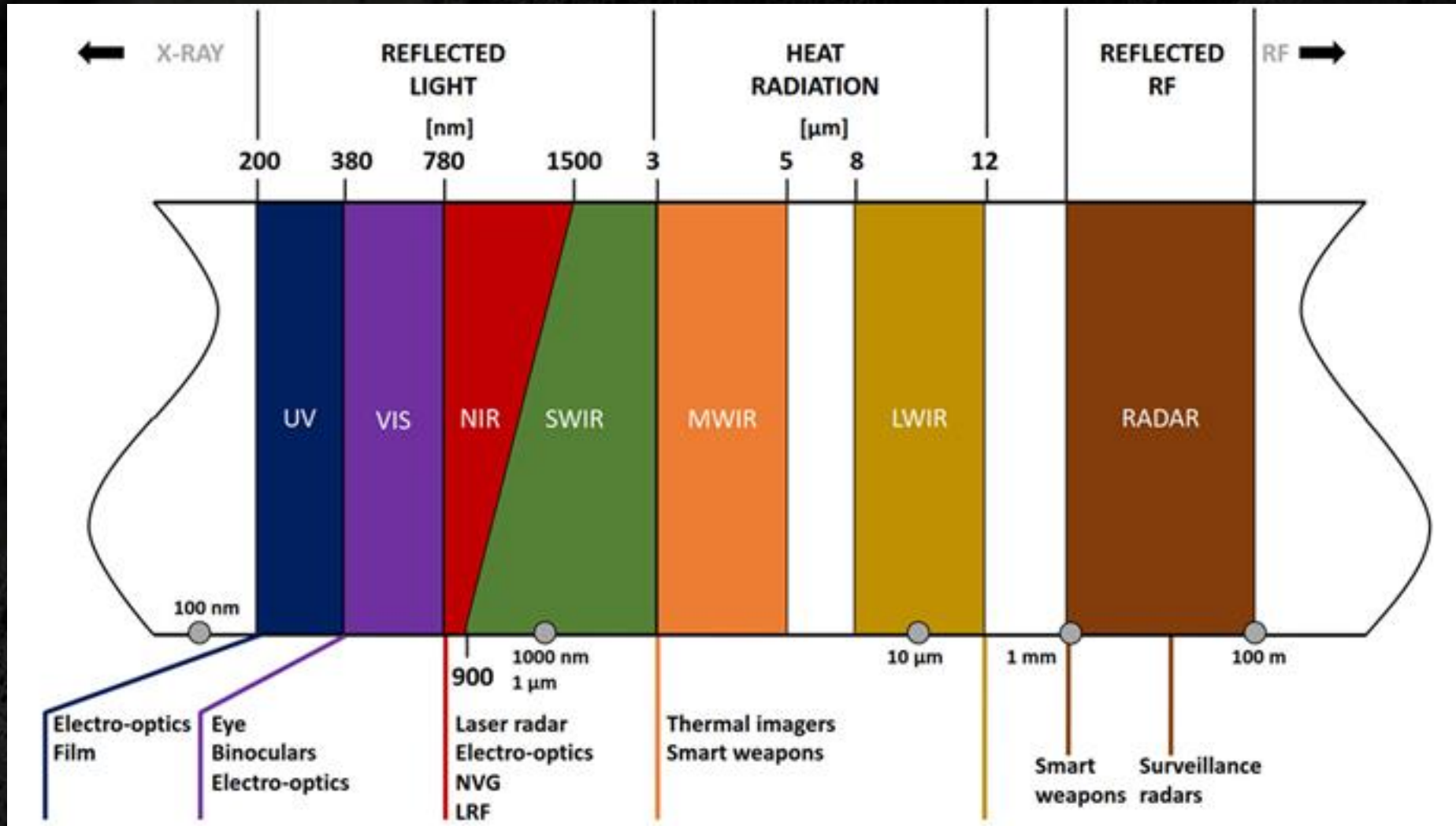








# System-of-systems approach



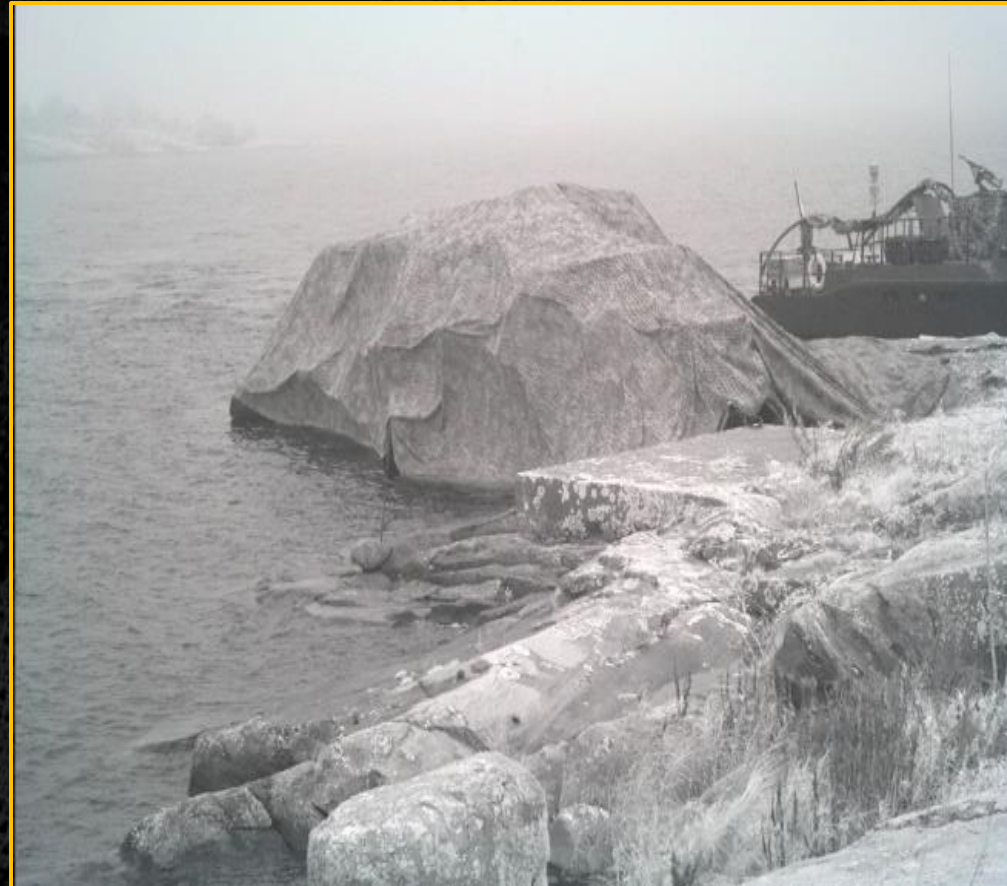


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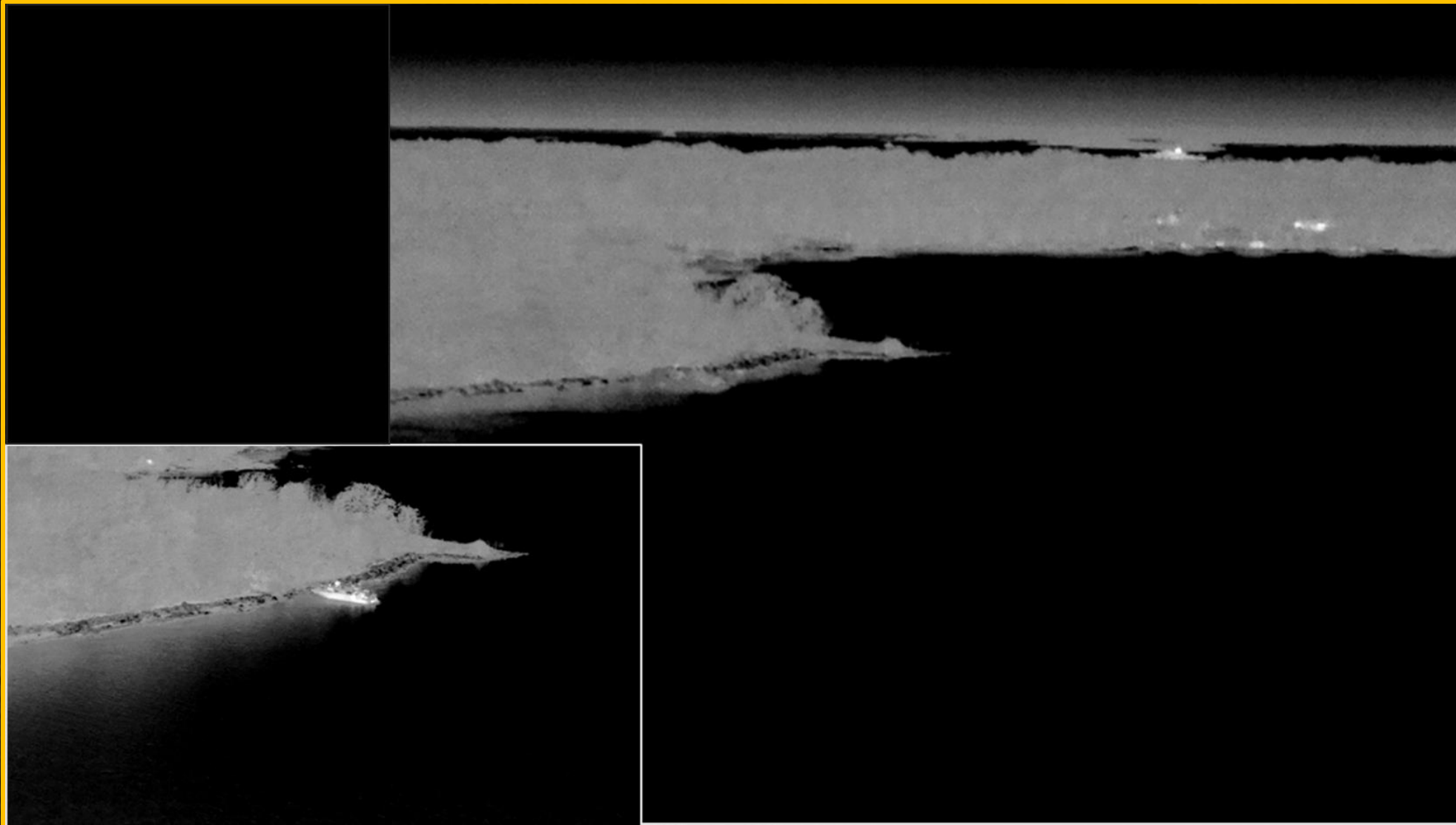






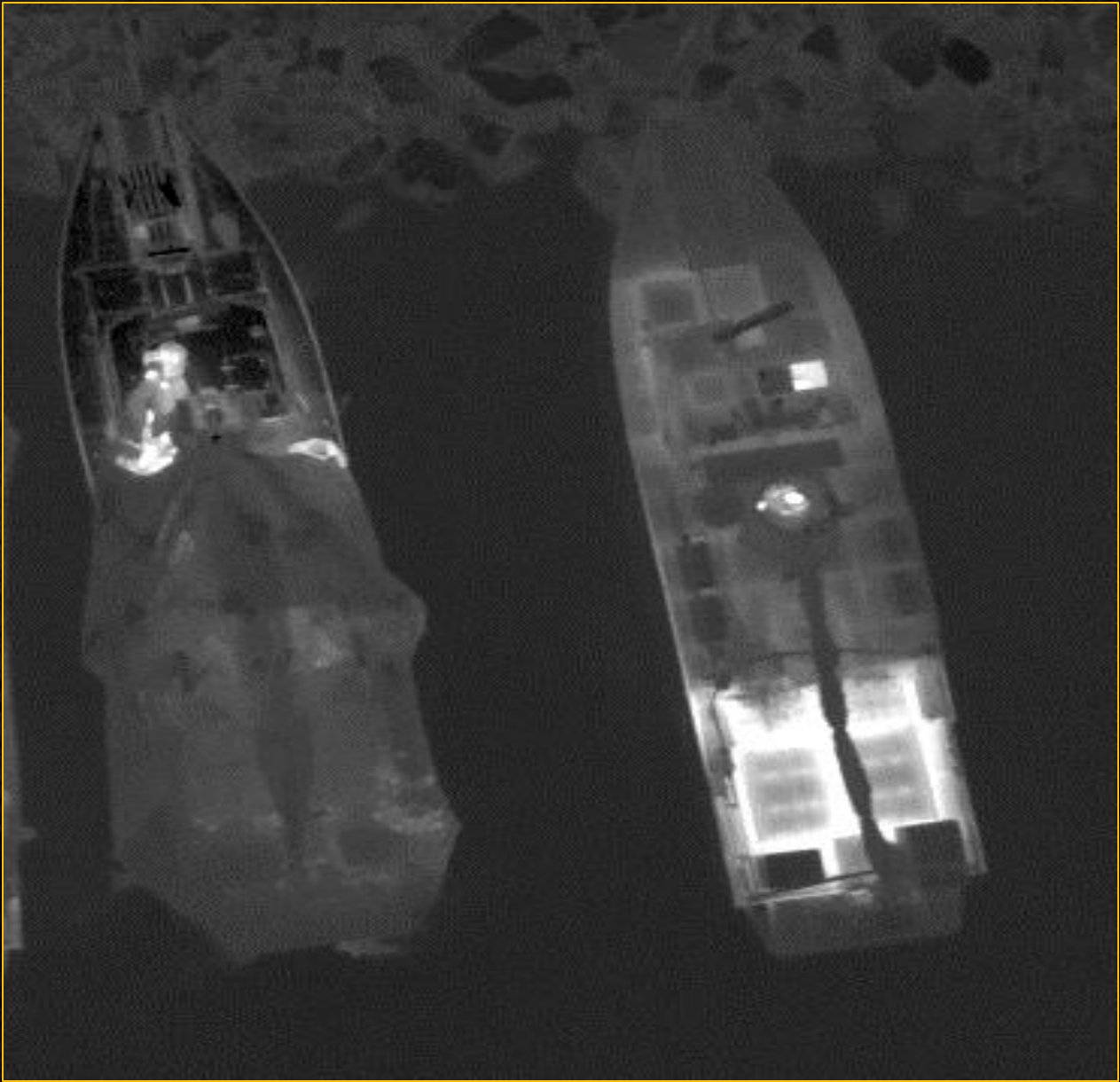


TIR

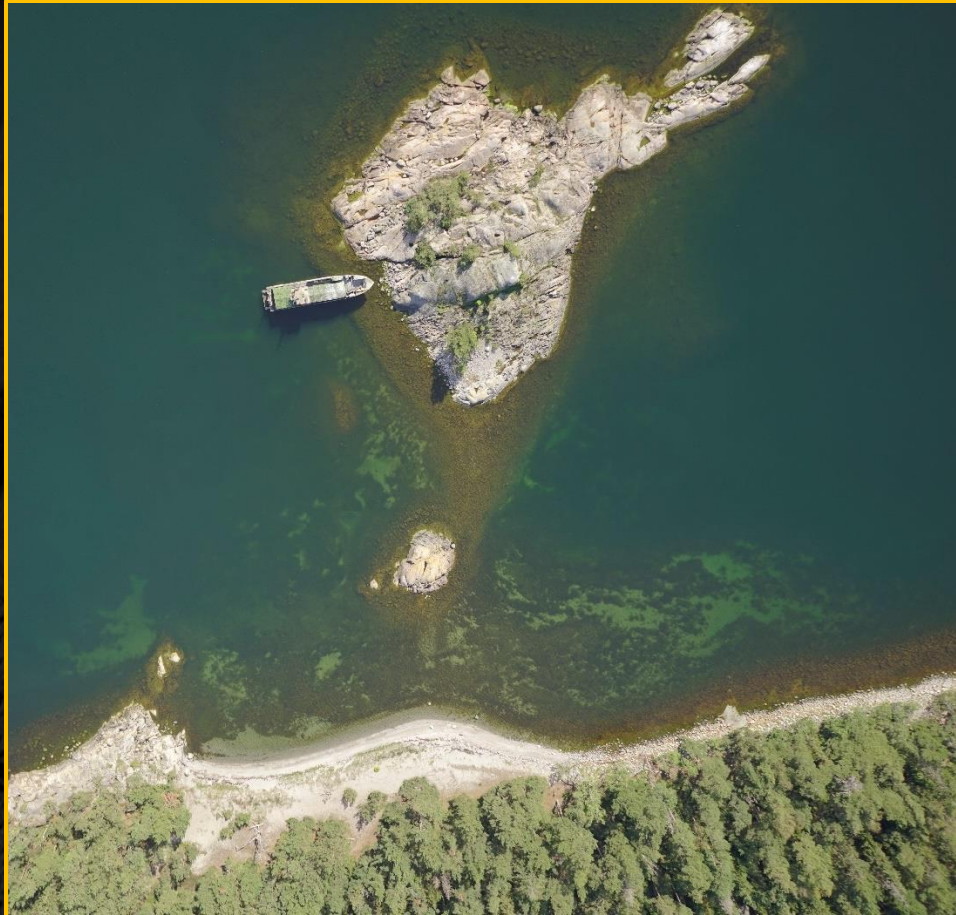


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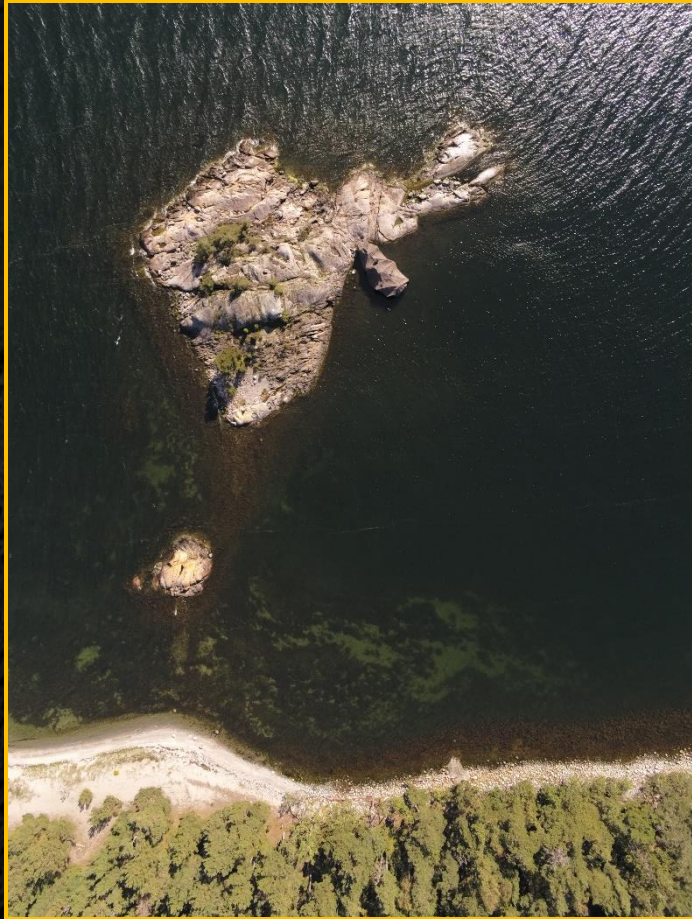














# Questions?

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