

# TUAVS IN EUROPE : future orientations

*FROM  
TACTICAL  
TO*

*MULTI MISSION*



*UAVS*

# Report Documentation Page

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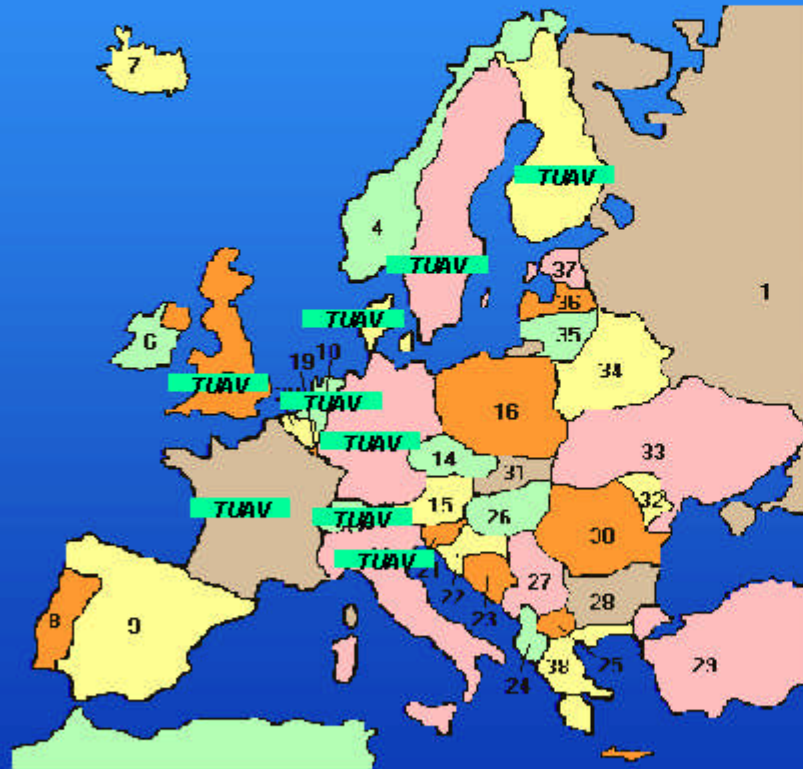
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# Situation and Trend

## SITUATION

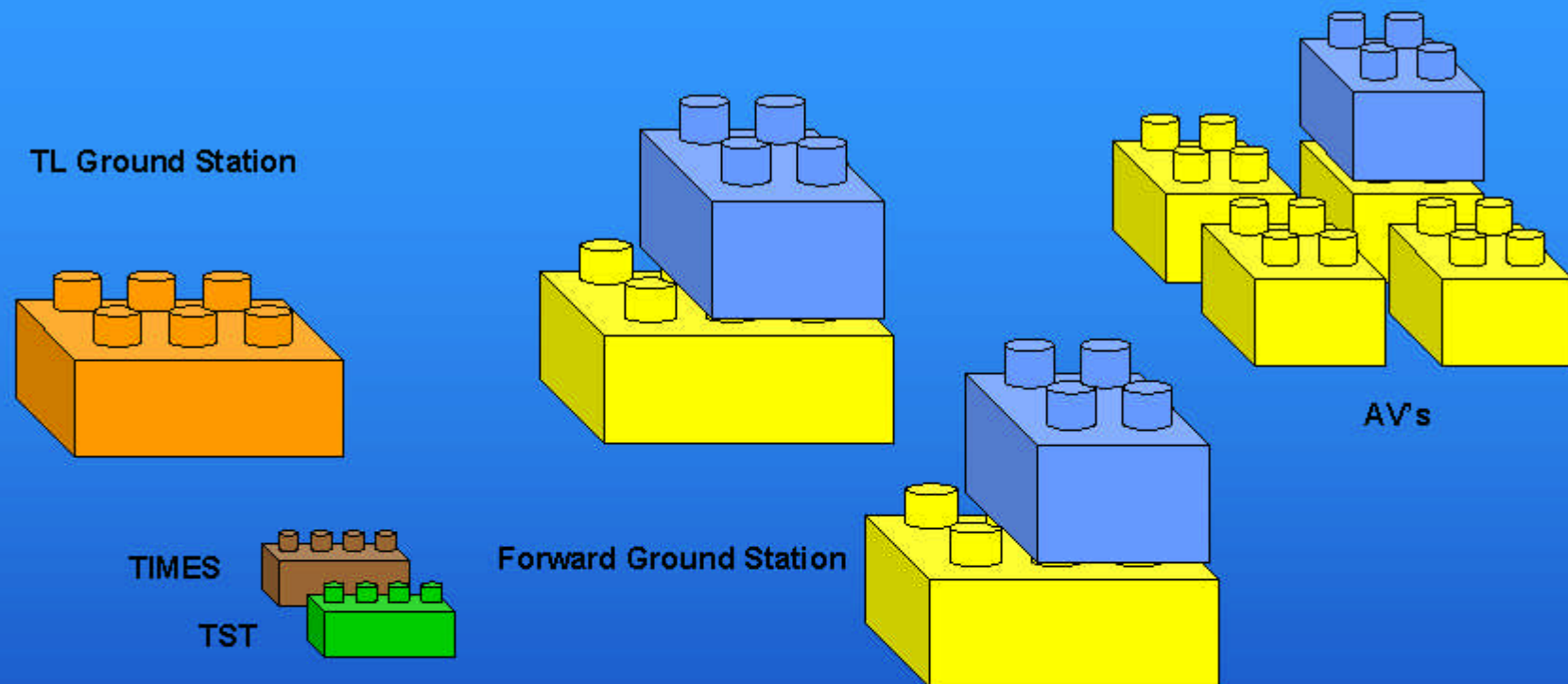
INCREASING NUMBER OF COUNTRIES EQUIPPED WITH TUAVs



## TREND :

- ✓ MORE MISSIONS
  - EW, RELAY, SAR
- ✓ MORE FLEXIBILITY
  - MULTI MISSION
  - TIME DIVISION SEQUENCED FLIGHT
- ✓ MORE PERFORMANCE
  - MULTI SENSOR
  - SENSOR TO SHOOTER
  - QUICK REACTION
- ✓ MORE SURVIVABILITY

# Multi Sensor Multi Mission: Modular concept ,



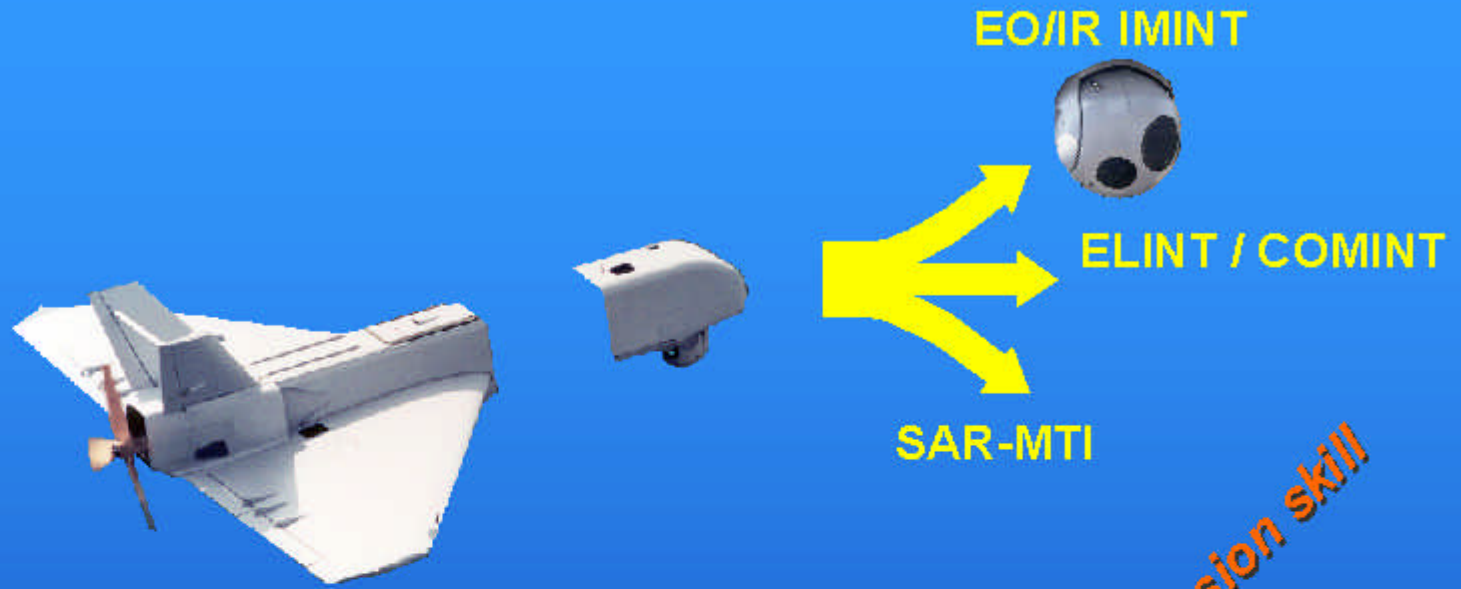
**Initial approach : a fleet of multirole UAVs**

**TL unit : MSMM approach : multiply forward stations**  
(TL = take off-landing)

**Specializes GCS Units : multiply new PLD (EW, SAR ...)**

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# Multi Sensor Multi Mission: Modular concept 2

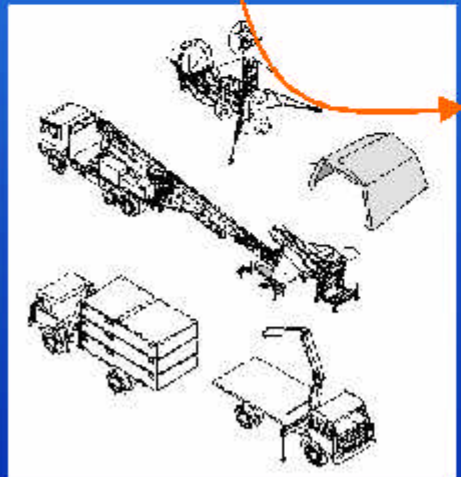


**Operation skill**

**Mission skill**

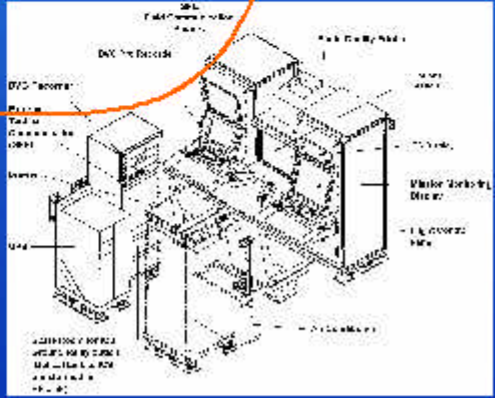
## Aerial Vehicle

## Payload



- AV preparation
- System checks
- Launching
- Recovery
- Refurbishment
- Field maintenance

- Payload management
- Image interpretation
- Data processing
- Information transfer
- Target confirmation
- Mission (re)planning

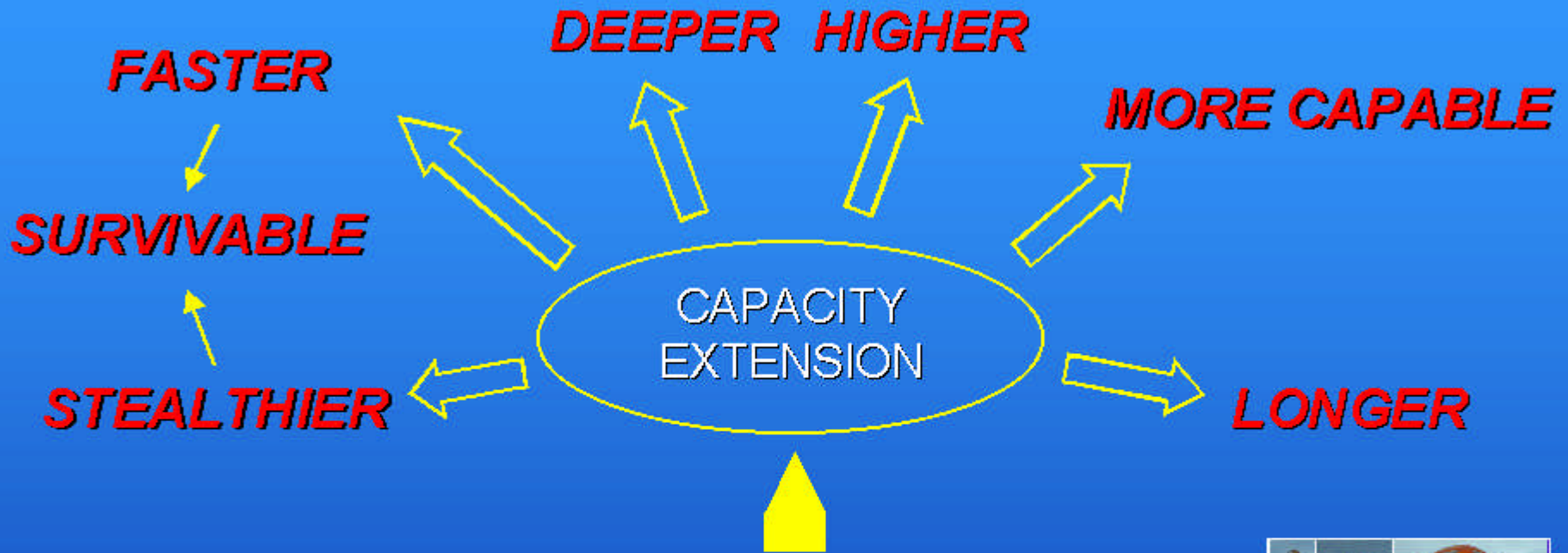


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# ...TO CAPACITY EXTENSION



A SOUND BASIC CONCEPT



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## SLOW FAST UAV :

- ✓ **survivable like a fast UAV**
- ✓ **versatile like a slow UAV**
- ✓ **genuinely tactical**

- **120 kts to Mach 0.6**
- **50 kg payload**
- **500 to 30 000 ft.**

**SURVIVABLE PENETRATOR**

# SPERWER LE : extended capacity



*Weaponry mission of more than 4 hours/100kg external*



*Smart ammunition  
Anti-Tank Missile  
Rocket  
Other*



**PLD**

**Fuel**



*IMINT mission of more than 10 hours/50kg*

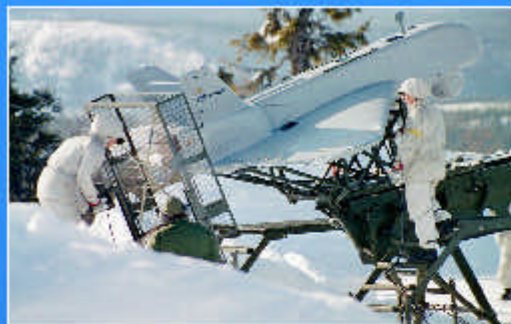


**Altitude / external payload**



*DATA RELAY mission @ 20 000 ft.*

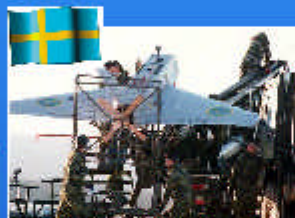
# SAGEM TACTICAL UAV : A SUCCESS STORY



*From Swedish Lapland Operation ...*



2002



1993

*... to Saudi Arabia Operation*



More than 100 UAVs  
More than 20 ground segments

■ The MOST ORDERED European UAVs

- FRANCE (7 GCS)
- THE NETHERLANDS (4 GCS)
- SWEDEN (3 GCS)
- DENMARK (6 GCS)

■ Full rate production (more than 100 UAVs)

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