SAAB BARRACUDA
MORE THAN MEETS THE EYE

ADVANCED PLATFORM INTEGRATED
MOBILE CAMOUFLAGE SYSTEMS, MCS

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SAAB BARRACUDA

- **Experience since**: 1957
- **Complete product portfolio**: Cover all needs
- **90% of the market with platforms integrated systems**
- **50% static camouflage**
- **Satisfied customers in**: 60 countries
- **Combat proven products**
- **Close cooperation with international research institutes**
- **And NATO**
PRODUCT CATEGORIES

- Platform Integrated Systems
- Soldier Integrated Systems
- Force Integrated Systems
- Protection Systems
- Services
PLATFORM INTEGRATED SYSTEMS - MCS
PLATFORM INTEGRATED SYSTEMS - PERFORMANCE

ENHANCED PERFORMANCE IN VIS NIR TIR RADAR
ENHANCED PERFORMANCE IN VIS NIR TIR RADAR

PLATFORM INTEGRATED SYSTEMS

Avoid detection
Avoid identification
SIGNATURE MANAGEMENT
Avoid hit
Avoid penetration
Avoid casualties
OUTLINE

• PROCUREMENT OF A PLATFORM INTEGRATED CAMOUFLAGE

• ADDED VALUES

• FUTURE DEVELOPMENTS
PROCUREMENT OF A PLATFORM INTEGRATED CAMOUFLAGE

- Tracked vehicles
- Tracked vehicles + turret
- Wheeled vehicles
- Wheeled vehicles + turret

- Arctic Environment
- Desert Environment
- Woodland environment
- Semi-Desert Environment
- Sub-Tropic environment

Barracuda Doctrine

- VIS
  - Pattern
  - Colours
  - Number of colours
  - Coverage
  - Outlines
  - Gloss

- NIR
  - Pattern
  - Colours
  - Number of colours
  - Coverage

- TIR
  - Material properties
  - Hot spots
  - Isolation

- RADAR
  - Material properties
  - Coverage
PROCUREMENT OF A PLATFORM INTEGRATED CAMOUFLAGE

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**Customer requirements**

- **VIS**
  - Pattern
  - Colours
  - Number of colours
  - Coverage
  - Outlines
  - Gloss

- **NIR**
  - Pattern
  - Colours
  - Number of colours
  - Coverage

- **TIR**
  - Material properties
  - Hot spots
  - Isolation

- **RADAR**
  - Material properties
  - Coverage

**Barracuda Doctrine**
Customer requirements

Design Scope

- VIS
  - Pattern
  - Coverage
  - Outlines
  - Gloss

- NIR
  - Pattern
  - Coverage

- TIR
  - Material properties
  - Hot spots
  - Isolation

- RADAR
  - Material properties
  - Coverage

- Arctic Environment
- Desert Environment
- Woodland environment
- Semi-Desert Environment
- Sub-Tropic environment

- Tracked vehicles
- Tracked vehicles + turret
- Wheeled vehicles
- Wheeled vehicles + turret

Procurement of a platform integrated camouflage
PROCUREMENT OF A PLATFORM INTEGRATED CAMOUFLAGE

- REQUIREMENT CAPTURE
- SIGNATURE MANAGEMENT
- INTERFACE
- FIRST PROTOTYPE
- CONFORMITY CHECK
- ADJUSTMENTS
- DESIGN BASELINE
- SERIAL PRODUCTION
PROCUREMENT OF A PLATFORM INTEGRATED CAMOUFLAGE

- REQUIREMENT CAPTURE
- SIGNATURE MANAGEMENT
- INTERFACE
- FIRST PROTOTYPE
- CONFORMITY CHECK
- ADJUSTMENTS
- DESIGN BASELINE
- SERIAL PRODUCTION

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End user
PROCUREMENT OF A PLATFORM INTEGRATED CAMOUFLAGE

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REQUIREMENT CAPTURE
SIGNATURE MANAGEMENT
INTERFACE
FIRST PROTOTYPE
CONFORMITY CHECK
ADJUSTMENTS
DESIGN BASELINE
SERIAL PRODUCTION

OEM
PROCUREMENT OF A PLATFORM INTEGRATED CAMOUFLAGE

- INTERFACE TO THE COMPLETE EXTERIOR CONFIGURATION
ADDED VALUES

WHAT ADDED VALUES CAN A PLATFORM INTEGRATED CAMOUFLAGE PROVIDE?
ADDED VALUES

• COMBAT UTILITY VEST FOR VEHICLES
ADDED VALUES

- Climate Control
- Operational Range
- Modular Loadcarrying
- Situational Awareness
- Prevent barrel bending
- Fuel consumption reduction
- Mission and theater adaption
- Dust prevention
ADDED VALUES

MODULAR LOADCARRYING

Integrated static net

Crew tent

External storage
ADDED VALUES

SITUATIONAL AWARENESS

Top shield
ADDED VALUES

CLIMATE CONTROL

• Up to 30% temperature reduction in a STANAG 2895 A2 environment
ADDED VALUES

MISSION AND THEATRE ADAPTATION

- COST TO RE-PAINT IN A MIL WORKSHOP: 20000 -25000 EURO
ADDED VALUES

**FUEL CONSUMPTION REDUCTION**

- An inventory tracked vehicle used one year in a Desert Mission (Climate zone STANAG 2895 A2).
- 22% cost reduction thanks to fuel savings
- 30000 EURO savings thanks to avoided filter changes
FUTURE DEVELOPMENTS

• Improve spectral match with the surrounding background
• Introduce intelligent camouflage materials
• Improve Radar Cross Section reduction
• Improved Heat transfer reduction
• Weight reduction of camouflage
• Test methods and standards
THANK YOU FOR LISTENING!