



AUTOMOTIVE



INFOCOM



**TRANSPORT &
ENVIRONMENT**



AERONAUTICS



SPACE



**DEFENCE &
SECURITY**

IABG Security System Consultancy

Iraq Investment Conference

Munich, November 07, 2009



IABG Proprietary and Confidential

IABG is a leading European Technology Company with Core Competence in Consultancy, Simulation and Testing for Safety & Security related Systems

12,6% IABG
Mitarbeiterbeteiligungs AG

87,4 % S&D Industriebeteiligungen GmbH

IABG mbH

Turnover: ca. 150 M€, Employees: ca. 1050
President and CEO: Prof. Dr.-Ing. Rudolf F. Schwarz



Aeronautics



Structural
airframe
testing
(e.g. A380)

Automotive



Development
and operation
of mechatronical
test systems
for OEM and
Suppliers

InfoCom



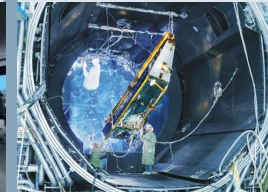
Safe and secure
IT and tele-
communication
systems
for Governments
and private
customers

Safety & Security



Defense
simulation and
test systems
for analyses
and conception

Space



Operation of
ESA-coordinated
space test centres

Transport & Environment



Environmental
services,
Geo data factory,
operation of
Maglev test facility

2002: Management buy-out and return to exclusive German ownership

1993: Privatization of the company

1961: Established by the Federal Republic of Germany as the central organization
for tests in the aerospace industry and for security and defense analyses

13 IABG locations



Major Areas of a General Security Project

Technical

- Sensors
 - Radar systems
 - Reconnaissance
 - UAV
 - Number Plate Recognition System
 - Facial Recognition Systems
 - CCTV Cameras
 - Aerostat
 - Iris Recognition Systems
 - Fingerprint Recognition Systems
- Telecommunications
 - Fixed network
 - Wireless network
 - Satellite network
- Command & Control Centres
- Infrastructure
 - Buildings, Fences, ...

Commercial

- Cost - benefit analysis

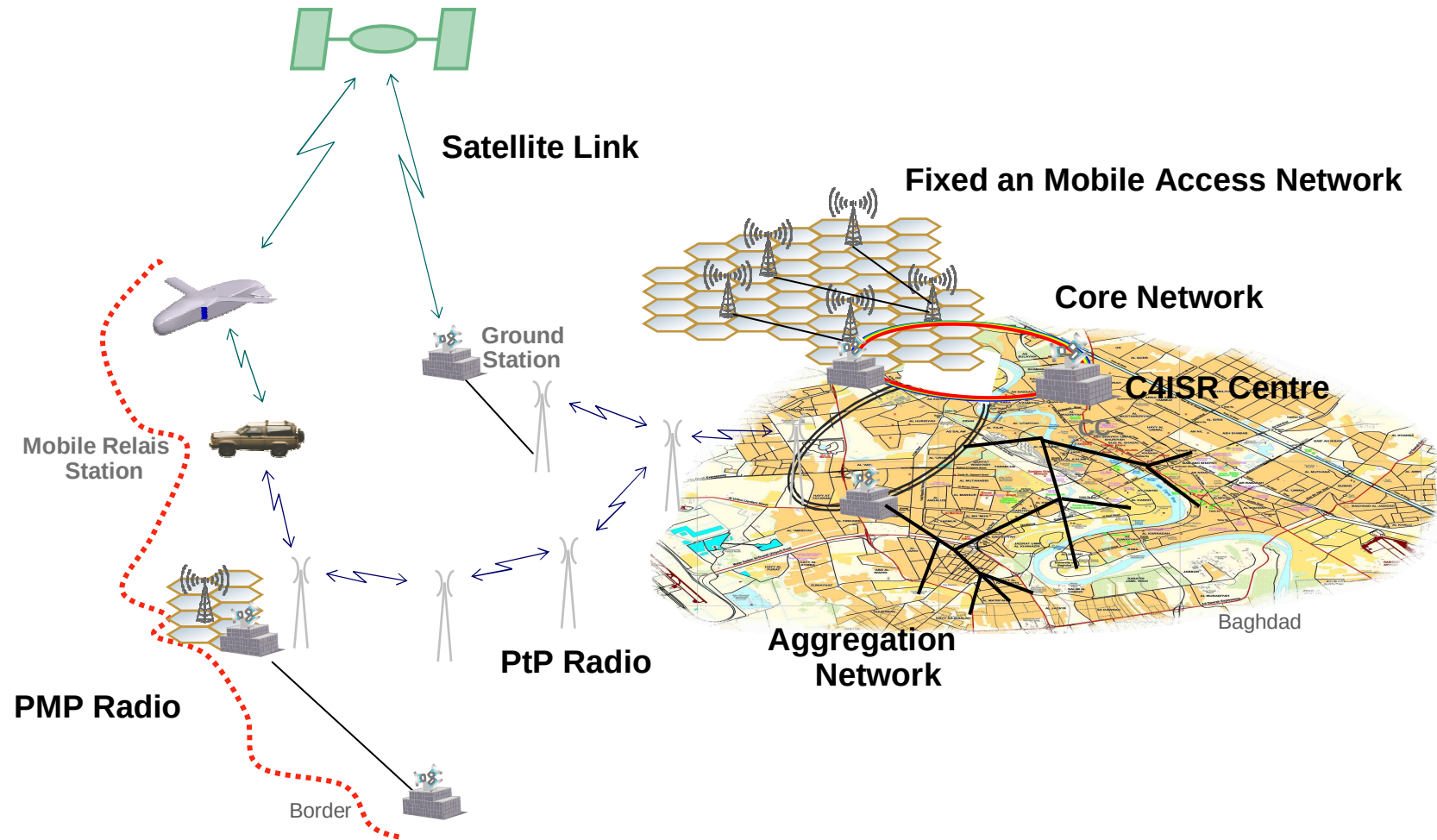
Legal

- Procurement and Contract

Organisation

- Project management
- Procurement management
- Quality management
- Operator model

Example 1 - Border Security System for Iraq



C4ISR: Command, Communication, Control, Computer, Intelligence, Surveillance and Reconnaissance

Example 2 - National Satellite System for Iraq

- Procurement and Operation of a Dual Use Satellite System

- To support national needs of Iraq, and
- To enable commercial business

- Governmental part supporting e.g.

- Governmental telecommunications
- Secure telecommunications
- Crisis reaction applications
- eGovernment

- Commercial part supporting e.g.

- Commercial TV and radio broadcasting
- Point-to-point connections, e.g. for terrestrial backbone networks
- Corporate networks, e.g. for international companies via VSAT
- Telephone and data applications
- Internet access

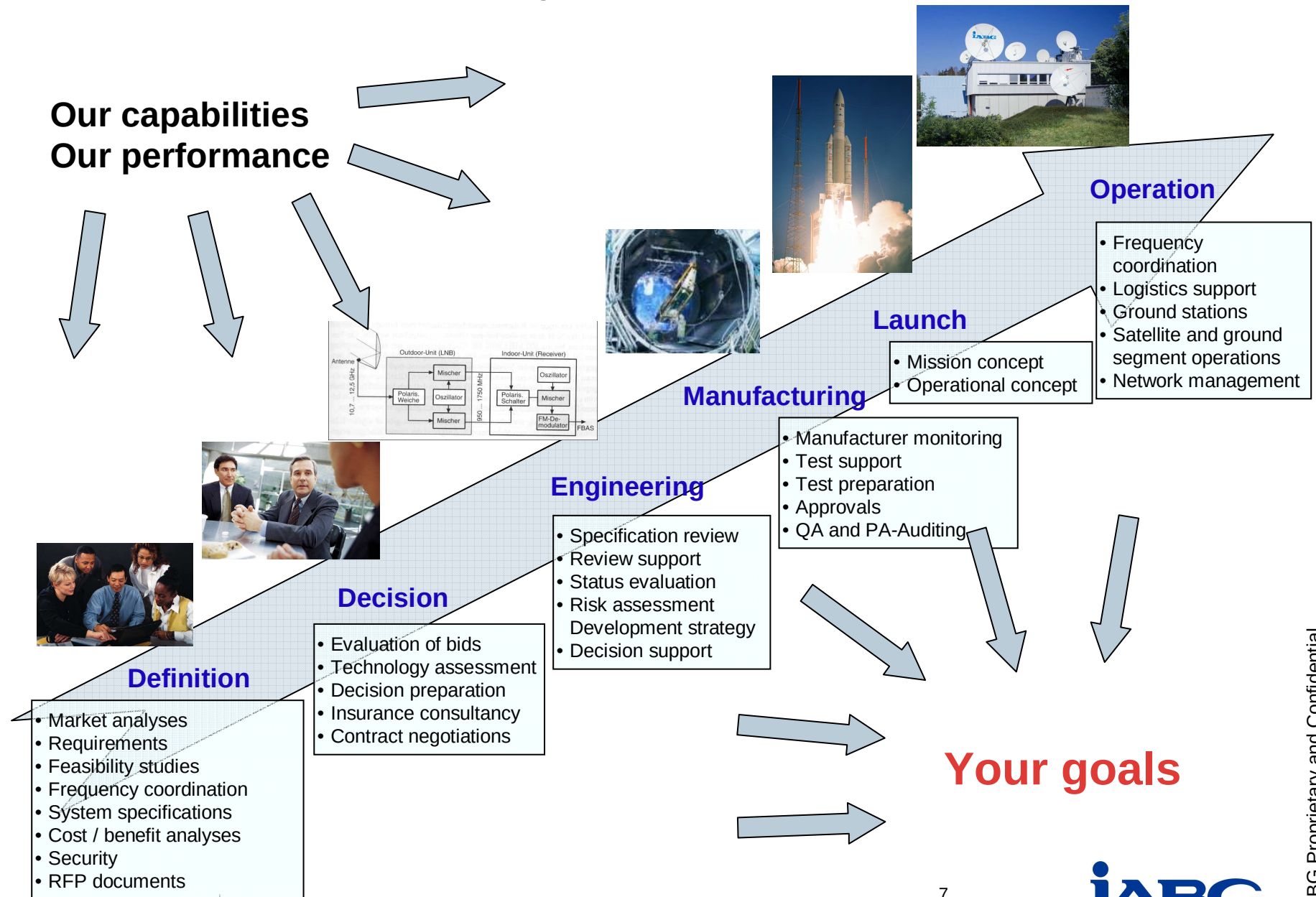
- IABG is a manufacturer independent services company

- Most experienced in the procurement support and operation of Governmental systems
- Providing technical and commercial services and legal services (with lawyers)
- Extensive heritage in telecommunications
- Dedicated dual use satellite background

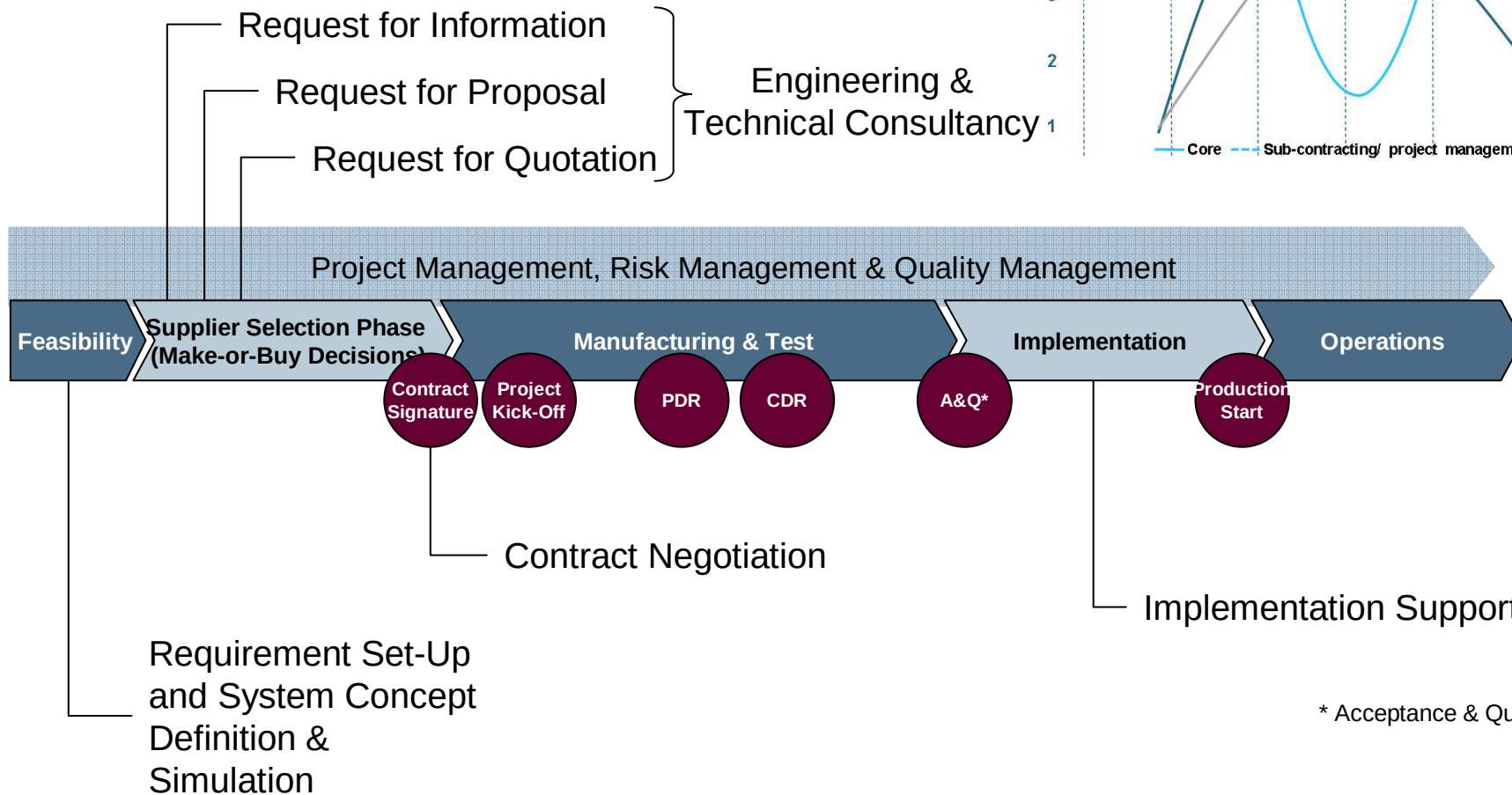
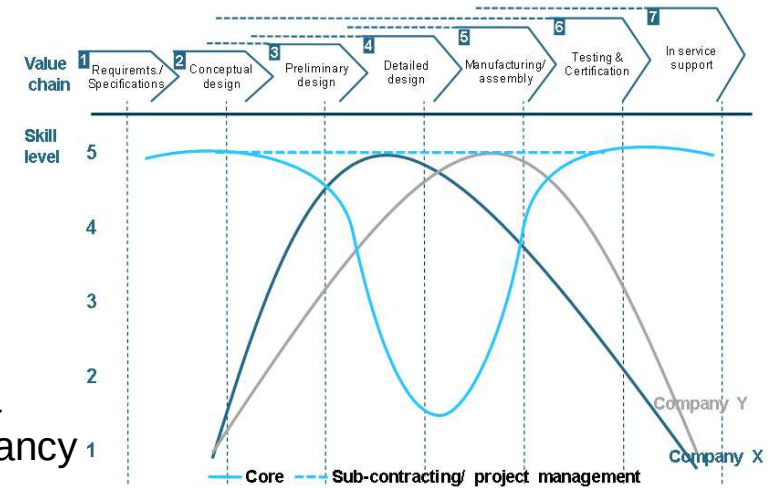


IABG Technical Consultancy

Our capabilities
Our performance



IABG Procurement Support



**Manufacturer independent technical consultancy
- best value for money -**

* Acceptance & Qualification

IABG Teleport Ottobrunn



IABG Crisis Management

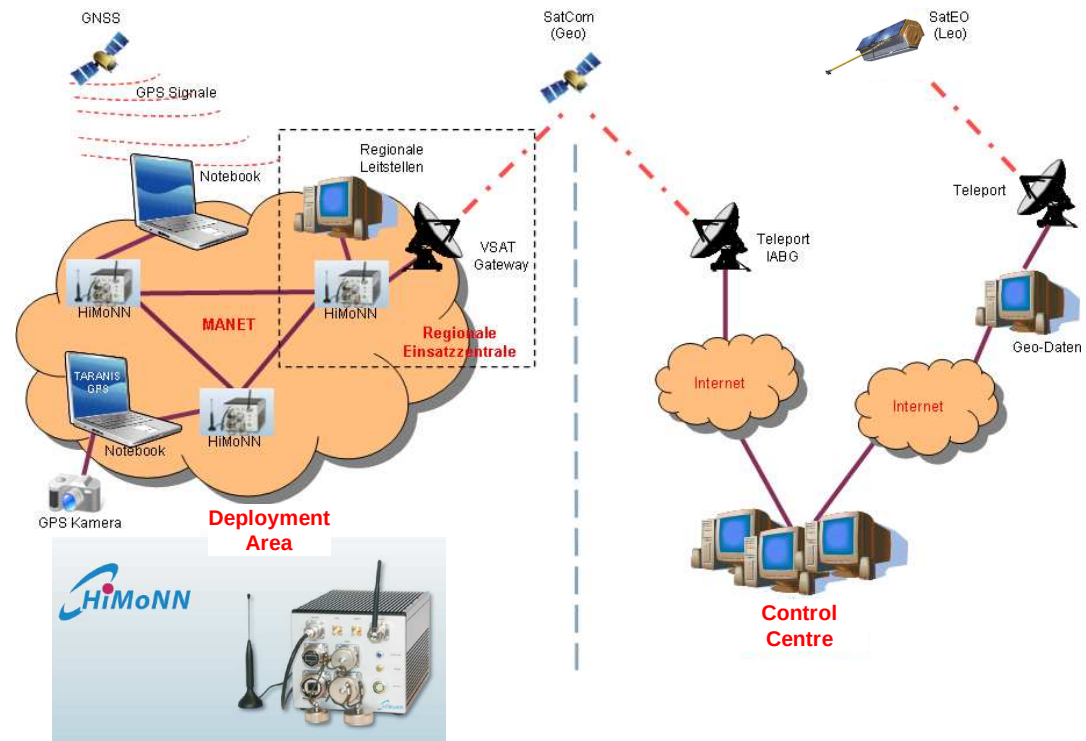
Situation

- Natural hazards
- Terror attacks
- Search and Rescue (SAR)
- Large events
- Operations in „remote areas“

Topic

- Communication infrastructure
 - not available
 - destroyed
 - overloaded
- Need for communication (voice/data)
- Need for position data
- Need for electronic maps / Earth Observation data

Challenge

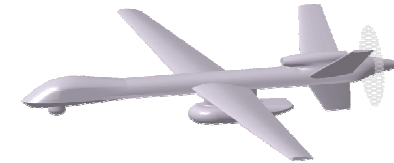


- Robust, autonomous, secure, mobile broadband communication link
 - in the area of operation
 - between area of operation and operation centre at home
- Tools to create situation awareness
- Tools for operation management
- Tools to handle position and sensor data

Sensors

■ Technical analysis of UAV systems

- Platform
- Propulsion and energy systems
- Sensors (SAR/MTI, EO, IR, ELINT, COMINT)
- Effectors
- Data links
- Comms Network
- UAV control station
- Flight and mission performance calculation



■ Operational / tactical analysis of UAV systems

- Mission planning
- Operation of UAVs (standoff, penetrating)
- Operational performance (reconnaissance, surveillance, target recognition, identification, effector employment, damage assessment)
- Deployment support (SEAD, ESM, radar support jamming, target designation, weather data, data link / com relay)
- Survivability (signature, ground based and airborne threat)
- Mission effectiveness



Command and Control Centres

Integrated CCC - Information Fusion and Collaborative Decision Making



Exemplary References for Procurement Support

- Communications System for the German Armed Forces
Requirements – Feasibility – Concept – RFP – Contract – Implementation Support
- Satellite Reconnaissance for the German Armed Forces
Requirements – Concept – RFP – Contract – Implementation Support
- IT Outsourcing of the German Armed Forces
Requirements – Feasibility – Concept – Provider Model – RFI – RFP – Contract – Implementation Support
- Dual Use End-to-end Communications System for Middle East
Requirements – Feasibility – Concept – RFI – RFP – Contract
- Teleport Services for Africa, Middle East and Asia
Broadband – Internet – VSAT
- Secure VSAT Solutions for Iraq
Corporate Networks – Voice – Data – Internet

Thank You for Your Attention

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