Leverage the Use of Geospatial Information in Collaboration in C2 processes

Marc Kleemann
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Together we create solutions: A result of real teamwork
Some of our clients
Our employees are where you are...

... in a city near you

Employees: 2,061
Presence: 12 cities

... strongly rooted in Europe

Employees: 32,500
Presence: 23 countries

... doing business globally

Employees: 41,000
Presence: 40 countries
Revenue (€): 4,325 million

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Our partners: not all good ideas have to necessarily come from us

<table>
<thead>
<tr>
<th>Strategic partners</th>
<th>Partners</th>
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</table>
| Microsoft Gold Certified Partner | Ab initio  
Adobe  
AFI  
Akamai  
alphabet  
AuthentiDate  
Autonomy  
Ab initio  
Adobe  
AFI  
Akamai  
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Autonomy  
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Adobe  
AFI  
Akamai  
alphabet  
AuthentiDate  
Autonomy  |
| Oracle Certified Advantage Partner | BMC Software  
Borland  
bpd  
Business Objects  
BMC Software  
Borland  
bpd  
Business Objects  |
| SAP Global Partner | CA  
Cisco  
Cognos  
Combionic  
Compware  
CoreMedia  
Cursor  
CA  
Cisco  
Cognos  
Combionic  
Compware  
CoreMedia  
Cursor  |
We speak your language

Energy & Utilities
Transport, Travel & Logistics
Financial Services
Manufacturing
Public Sector
Telecoms & Media
Pharmaceuticals & Chemicals
Consumer Packaged Goods

Large transport company: delivery process efficiency improved by more than 60 percent, lowering yearly costs by about 10 percent

A leading German energy provider: billing processing speed increased by 30 percent
What we do for our clients in Defence and GIS
What our clients are telling us ...

I need to deliver economies and efficiencies, without affecting our ability to deliver equipment is complex, takes a long time to procure. I need improved processes and use common industry standards to maximise the utility of the IT I buy.

Military equipment is complex, takes a long time to procure. I need improved processes and use common industry standards to maximise the utility of the IT I buy.

I need to deliver operations.

I need secure information in my complex environment.

I must be able to interoperate with other nations systems to support multinational operations.

I need maximise the utility I obtain from my investment in CIS.
What we do for our defence clients

**Defence Capability**

**Preparing for Operations**
- Training systems
- Personnel systems
- Medical records management
- Information management services
- Electronic records management
- Satellite communication services
- Cyber systems

**Executing Operations**
- Information Systems
- C4ISTAR
- Command and Control
- Fire control systems
- Operational planning
- Spectrum management
- Electronic warfare
- Secure communication services

**Managing Defence**
- Business systems
- Outsourced services
- Shared services
- Cyber services
- Personnel vetting services
- Secure managed services
- Application hosting
- Business consulting
- HR IT services
- Finance and Payroll services
- Logistic management
- Environmental management services

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What we do for our defence clients using GIS

Defence GIS Capabilities

**NATO**
- **Core GIS:** Geo Data Infrastructure (consultancy - Bid Support, Independent Validation & Verification)
- **DHS/AMN Portal:** (System Delivery)
- Data Migration (consultancy)

**MoD DE**
- **FuInfoSys SK:** Command and Control (System Delivery)
- **VERIS:** Disarmament Planning & Reporting (System Delivery)
- **JASMIN:** (delivery in progress)

**MoD UK**
- **Pulling through Logica capability:** Utilities, transport, telecoms and public sector for defence benefit
- **Multiple classified projects** that exploit Logica’s GIS and Space capabilities
How to benefit from GIS+DHS

Combine structured and unstructured data using geospatial information
GIS today

ISR Programs
- Sensors

GIS
- Mapping Solutions
  - Mapping
  - COP Element
  - Patrol Planning (e.g. ArcGIS or other Software)
  - Provide Routes as a webService

Output
- MAP
NATO Document Handling System

DHS shall **support via web browser**

- Individual user
- Workgroups and commands
- NATO as an Organisation

And the **entire electronic life cycle** of Documents

- Create (incl. approval)
- Publishing
- Storage
- Indexing
- Search/find
- MS Office integration
- Archiving
NATO DHS & AMN Portal

- NATO DHS as Core Service for
  - 23 NATO Commands
  - Crisis Operational:
    - 2 HQs + 8 Regional Commands
    - DHS ISAF
    - AMN Enterprise Portal
    - NATO Special Forces Headquarters (NSHQ)

- NATO DHS and AMN portal as "central work environment"

NATO DHS & AMN EP provide "need to share" and "share to win" approach
DHS & Portal Components

- Portal
  - DHS Core
  - Templates
  - Workflow
  - Search
  - Back Publishing
  - Replication
  - Archiving
  - GIS

On-site Support

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DGI 2012 - Leverage the Use of Geospatial Information
DHS today

DHS

Messages
CV's
Critical Infrastructure
Addresses

Trip Reports
Incidents
Meeting Reports
Action Items

NATO DHS

Lists
Documents
Memos
News
Addresses

JOC WATCH \(\rightarrow X, Y\)

Output

List Data
DHS & GIS Integration

ISR Programme
- Sensors

GIS
- Mapping Solutions
  - Maps
  - COP Element
  - Patrol Planning
    - e.g. ArcGIS or other Software
- Provide Routes as a webService

Output

NATO DHS

DHS contribute

Logistics contribute

Operator
- Consume
- Select
- Plan
- Decide

DHS Collaboration Platform with MapWebPart

DHS contribute

GIS

Consume
Select
Plan
Decide

Operator

DHS
- Lists
- Documents
- Memos
- News
- Addresses

NATO DHS
- Messages
- Trip Reports
- CV’s
- Incidents
- Meeting Reports
- Addresses
- Action Items
- JOC WATCH → X, Y
Smart up your daily business using integrated GIS and DHS
... a day in the Information Dissemination Centre

**Task**
Plan a trip for the Commander to meet with local representatives

**Actors**
- Commander
- GIS Contributor
- DHS Contributor
- Driver
- Operator

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... a day in the Information Dissemination Centre

The GIS Contributor is providing georeferenced data like ...

- Infrastructure and logistic relevant information
- Situational data
- Point of Interests
- Overview maps (as maps or map services)
- Routes
... a day in the Information Dissemination Centre

The Trip Planner (Operator) is ...

Consuming & Analysing
- Routes/Maps prepared
- Past and future events
- Risks associated
- Need for customisation
- All information relevant to Commander
  - Reports of last visits
  - Agreements and concessions made
  - CV's of the meeting participants
  - etc.

Selecting
- Search for relevant documents and info with keywords and geospatial criteria

Planning Alternatives & Taking Decisions
... a day in the Information Dissemination Centre
... a day in the Information Dissemination Centre
... a day in the Information Dissemination Centre
Summary

Successful Operations
enabling people to make efficient use of geospatial content and combine with structured data

Efficient Daily Business
Using SharePoint platform to bring easy-to-use GIS viewer capability to wide range of users

Knowledge is the Best Defence.
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Questions
Thank you

Marc Kleemann

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