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Directorate 6 CIS&Cyber
Center for Geospatial and Space Services

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GeoIntelligence and the Changing Security Landscape

Geospatial World Forum - Defense and Intelligence Summit

Brigadier-General Friedrich TEICHMANN

15 May 2024

EINSATZBEREIT FÜR ÖSTERREICH
BUNDESHEER.AT

Challenges 1

- Speed and timing
- Quality and “Pareto Principle” 80/20
- Big Data and AI
- Digitalisiation – M2M (machine to machine)
- „Strategic – Operational – Tactical“: differentiation is blurred
- Optimal use of Space Services
- Integration UAV (automated vehicles)
- Handling of classified data (incl dissamination)

GOOD
GOOD
+ FAST
NOT CHEAP
GOOD
+ CHEAP
NOT FAST
FAST
+ GOOD
+ CHEAP
IMPOSSIBLE
FAST
CHEAP
FAST
+ CHEAP
NOT GOOD
WAGNER

Challenges 2

- Speed and timing
- Quality and “Pareto Principle” 80/20
- Big Data and AI
- Digitalisiation – M2M (machine to machine)
- „Strategic – Operational – Tactical“: differentiation is blurred
- **Optimal use of Space Services**
- **Integration UAV (automated vehicles)**
- Handling of classified data (incl dissamination)

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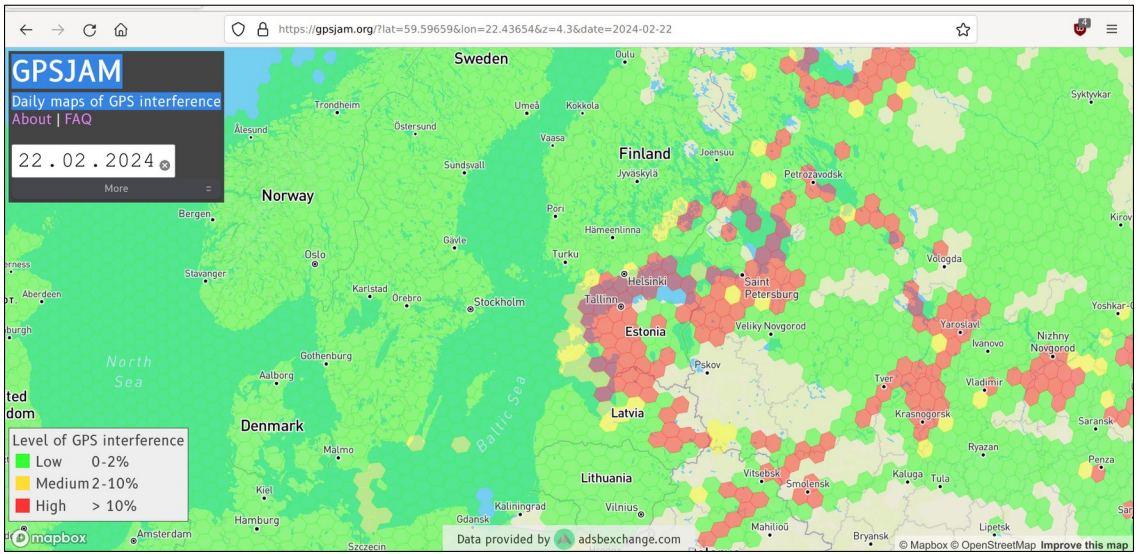
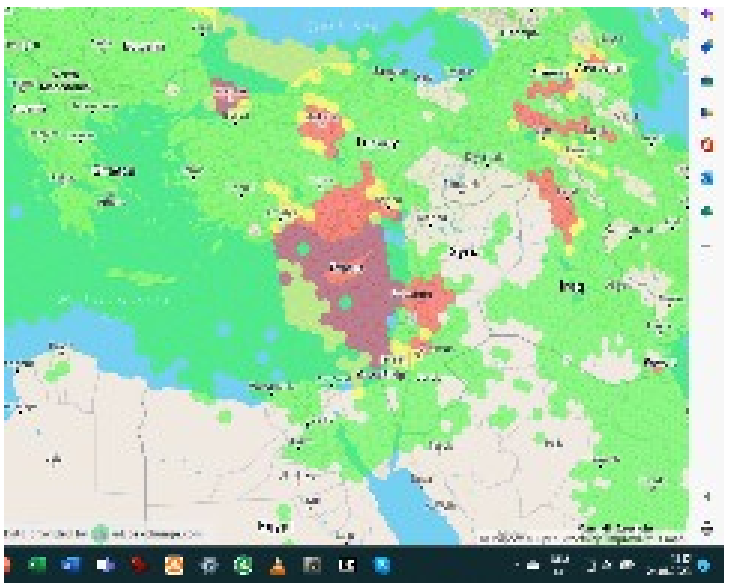
Satellite-Navigation





- Secure PNT (Position-Navigation-Timing)
- Navigation Warfare (offensive and defensive)

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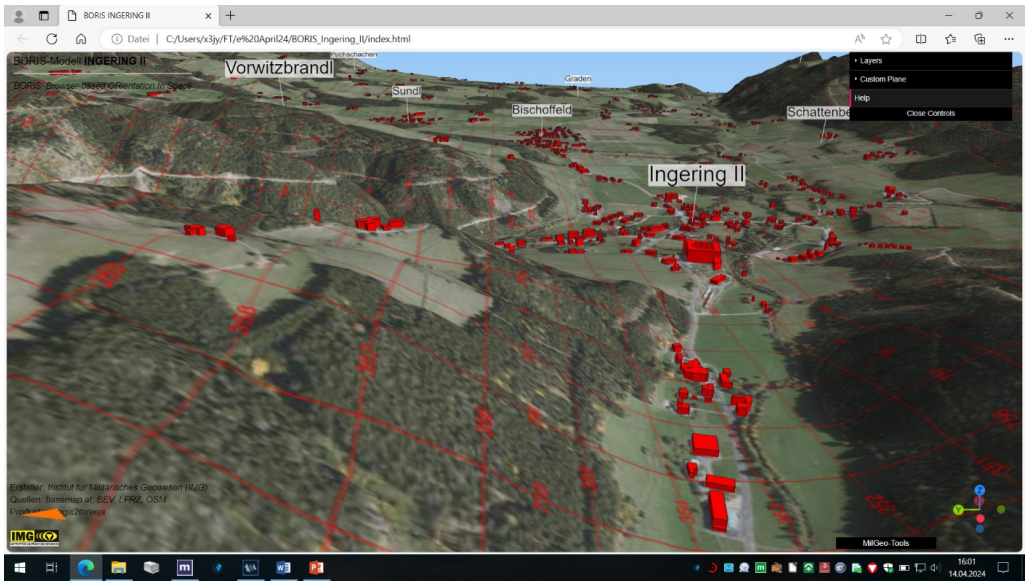
Space-Based Earth Observation

- UAV/drones versus Satellite
- 4 resolutions (SBEO)



New Space (Space 2.0) and UAV

- SWOT
  - Strenght (options, control)
  - Weakness (complexity)
  - Opportunities (worldwide, “low regulation”)
  - Theats (SDA, SLA)
- Competing Technology (e.g. UAV)

Challenges 3

- Speed and timing
- Quality and “Pareto Principle” 80/20
- **Big Data and AI**
- **Digitalisiation – M2M (machine to machine)**
- **„Strategic – Operational – Tactical“: differentiation is blurred**
- Optimal use of Space Services
- Integration UAV (automated vehicles)
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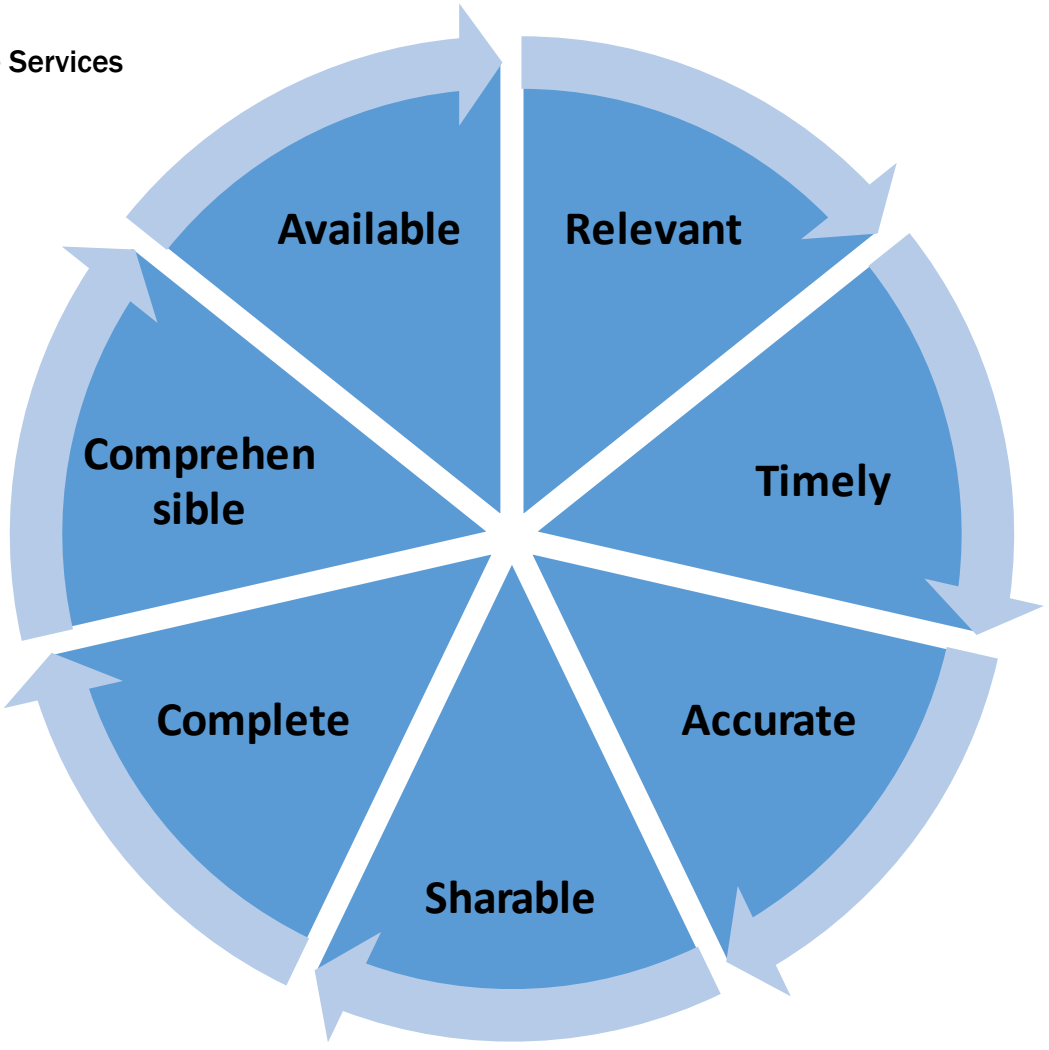
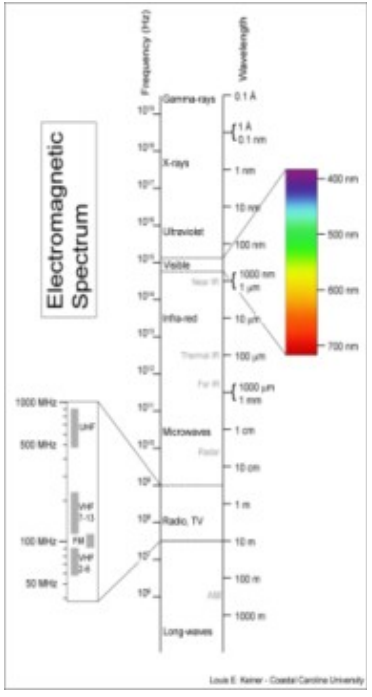

Available
Relevant
Timely
Accurate
Sharable
Complete
Comprehen
sible

Questions



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