Welcome to U.S. Army Europe’s Role in Sustainable Training Area Management

Moderator: Lt. Col. Chris Knutson, P.E., PMP, USAF (Ret.)
Speaker:
• Nathaniel Whelan, Integrated Training Area Management Program Manager, U.S. Army Europe
U.S. Army Europe's Role in Sustainable Training Area Management

SAME - European Region Engineer Capabilities Workshop

Nate Whelan USAREUR
ITAM PM
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How do we ensure Defense bases remain viable training platforms well into the future?
“…most of the military areas, and especially those used for training and testing, contain significant, even spectacular, amounts of natural and semi-natural habitats and landscapes, with corresponding abundances of wildlife.

Sometimes they are among the richest and most important sites for biodiversity in their country.”
“Trends 1980-2012 Grassland habitats: massive deterioration (common farmland birds and grassland butterflies -50%)”

“A major ecological disaster seems to be underway, and agriculture is in the middle of it.”

“...the biggest threat for both the military and nature conservation is not the training, but the lack of training.”
Biodiversity

Military training areas are often referred to as "islands of biodiversity". Under the European Union's Natura 2000 network of protected area, USAREUR's Grafenwoehr and JMRC Hohenfels Training Areas are two of the largest and most species-dense Special Areas of Conservation in the State of Bavaria.

Threatened and endangered animal species believed to occur on the 7 largest 'special areas of conservation' in Bavaria:

- Garmisch-Partenkirchen Region
- Obertsdorf Nature Protection Area
- Bayerische Wald National Park
- Berchtesgaden National Park
- Grafenwoehr Training Area
- Mittenwald Region
- JMRC Hohenfels Training Area

Source: Bavaria's nominations of Natura 2000
Integrated Training Area Management

STEWARDSHIP REPORT 2016

U.S. ARMY EUROPE
ITAM Mission

Maximize the capability, availability and accessibility of training land to support doctrinal training, mobilization and deployments.

1. Training Requirements Integration
   - Provide a training support procedure that integrates training requirements with management of natural and cultural resources.

2. Range and Training Land Assessment
   - Characterize and monitor an installation's natural resources, geospatially and temporally.

3. Land Rehabilitation and Maintenance
   - Implement preventive and corrective land repair projects that ensure availability, accessibility and capability of training lands.

4. Sustainable Range Awareness
   - Promote visibility of environmentally sensitive issues and instill a stewardship ethic among unit commanders, ground troops and neighboring communities.

5. Geographic Information System
   - Provide accurate, complete and standardized spatial data. GIS data and products adhere to Federal, DoD and Army spatial data standards.

Outreach
Integrated Management
Information Excellence

TENETS
Tap In is USAREUR's most powerful portal for training planners.

Tap In is a RIMPAC website similar to Google Maps. Users can search training facilities throughout EUCOM and AFRICOM, view planning documents (e.g., SOPs, trip reports, SDE maps) and query RFMSS Scheduling data.

Visit: https://www européainland.mil/tapin or search "TAP IN"
1. **Erosion Control Repair and Maintenance**

   Project included maintenance of existing erosion control infrastructure and conditional surveys of all settling basins in the training area so that future maintenance work could be prioritized. Tasks also included routine maintenance on 10-15 settling basins and their associated infrastructure.

2. **Maneuver Area Reactivation**

   - **Maneuver Trails and Open Maneuver Area Repair and Maintenance**
     - 5-10 km of maneuver trails and approximately 30 ha of open maneuver area were reactivated by opening access to training lands. An additional 13 ha of open maneuver area was reactivated through the removal of encroaching woody vegetation. Open areas impacted by trenching activities were repaired by filling in low areas, compacting loose soil, and smoothing/reseeding surfaces.

3. **Land Cover Reconfiguration Maintenance**

   Maintenance activities occurred in the areas near UO Schwend and UO Mud Hut where terrain was reconfigured to support training. An existing bridging practice area was repaired and reactivated.
1. UAS

2. Mobile Apps

3. Tap In

4. Camouflage

5. NATO / Multinational
ITAM Post-Exercise Training Land Assessment

ITAM Exercise Land Assessment
Allied Spirit V (ROT 17-01)

### Facts

**Scenario:** DATE
**Design:** A-D-E-X-R
**Dates:** 01 Oct 16 – 14 Oct 16
**# Partner Nations:** 5

**Maneuver Site(s):** JMRC Hohenfels

<table>
<thead>
<tr>
<th>Assets</th>
<th>US</th>
<th>MN</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAX</td>
<td>1615</td>
<td>535</td>
</tr>
<tr>
<td>Tracked</td>
<td>7</td>
<td>11</td>
</tr>
<tr>
<td>Wheeled</td>
<td>467</td>
<td>109</td>
</tr>
<tr>
<td>Total Track</td>
<td>18</td>
<td></td>
</tr>
<tr>
<td>Total Wheel</td>
<td>576</td>
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</tr>
</tbody>
</table>

### Conditions

**Pre-Exercise**
- Open Area Land Condition: Green (Yellow in Certain Areas)
- Maneuver Trail Condition: Green
- Overall Erosion Status: 0-30%; Green (Yellow in Certain Areas)

**Exercise**
- Daily Avg. Temperature: 44F/07C; High 51F/11C Low 39F/4C
- Precipitation: Total average rainfall was 1 mm with 11 days with generally light precipitation and fog during Allied Spirit V. The largest precipitation event occurred on Oct. 3rd with an average of 3.56mm of rainfall.

### Post-Exercise Impacts

- Excavation of multiple fighting positions occurred during Allied Spirit V; however, the majority of trenches were backfilled. Heavily used areas for maneuver may rehabilitate naturally if no other significant precipitation events occur during future winter and spring rotations.

### Mitigation

<table>
<thead>
<tr>
<th></th>
<th>ITAM</th>
<th>DPW</th>
<th>Bundes Forst</th>
<th>Troop Const.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trails</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ditches</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Check Dams</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ret. Basins</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Open Area</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Forest</td>
<td></td>
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</tbody>
</table>

**Action:** ITAM will continue to monitor open maneuver areas and trails.

**Training Impacts:** May include safety hazards in the event that fighting positions are backfilled and leveled insufficiently.

**Issues:** UXO clearance required to backfill trench lines in Hohenberg DZ and in other areas.

STRONG SOLDIERS, STRONG TEAMS!
UAS & ITAM Post-Exercise Training Land Assessment

Exercise Saber Junction 16
Check Point 46

29 March 2016
BEFORE

24 April 2016
AFTER

GRASSLAND
FOREST
BARE GROUND
ITAM Mobile Apps

**Army Range Mapper**
- Route Planner
- 80+ USAREUR Training Areas
- Access Gate Locations
- Esso Gas Stations (Germany)

**USA REUR Environmental Officer Guide**
- Authoritative Environmental Reference
- Must-have for Environmental Officers
- Fire and Spill Response, POCs
- HAZMAT Management

Search Apple App Store or Google Play keyword “USAREUR”
Soldier’s Field Card

Locations
- DEU: Grafenwoehr Training Area - English
- DEU: Grafenwoehr Training Area - Dutch
- DEU: Grafenwoehr Training Area - French
- DEU: Grafenwoehr Training Area - German
- DEU: JMRC Hohenfels Training Area
- DEU: Ansbach TSC
- ITA: A siago Drop Zone
- ROU: Babadag TA
- DEU: Baumholder Training Area
- ITA: Cao Malnissio Range
- ITA: Cellina-Meduna LTA
- BEL: Chievres Training Area
- ITA: Foce Del Fiome Serchio Range
- DEU: Kaiserslautern TSC / Breitenwald LTA
- ITA: Monte Carpegna MTA
- ITA: Monte Rualo TA
- BGR: Novo Selo TA
- ITA: San Giorgio UAC
- HRV: Slunj Training Area
- DEU: Stuttgart TSC
- ITA: T-Series TA
- ITA: Valle Ugine and Lustrissimi
- LTU: Klooga Training Area
- EST: Tapa Training Area
- HUN: Bakony Combat Training Center, Varpalota
- SVN: Pocek Training Area
- LVA: Adazi Training Area
- LTU: Gaizimu Training Area, Rukla
- LTU: Pabrda Training Area
- POL: Drawsko Pomorske MTA
- POL: Nowa Deba Training Area
- POL: Wedryzyn Training Area
- SVN: Divaca Drop Zone
- ESP: Chinchilla MTA
- ITA: Persano LTA / Indoor Range
- UKR: Yavoriv International Security and Partnership Centre
- ROU: Cincu Training Area

Army Graphic Training Aids

All USAREUR Soldier’s Field Cards are now available for download on the Central Army Repository (CAR).

Go to [http://www.train.army.mil](http://www.train.army.mil), sign into the CAR and search for “Soldier’s Field Cards”.

Search Apple App Store or Google Play keyword “USAREUR”
ITAM Mobile Apps

Maps

Soldier's Field Card
- Training Area "Best Practices" Reference
- MEDEVAC & Safety Information
- POCs

Grafenwoehr Image Map

Training Areas

Soldier's Field Card
- Breitenwald LTA / Range
- Cao Mahisio Range
- Cellina-Meduna LTA
- Chevres Training Area
- Chinchilla MTA
- Divaca Drop Zone
- Drawsko Pomorskie MTA
- Foce del Fiume Serchio Range
- Foce del Reno Training Area

Grafenwoehr

Hazardous Materials and POL

Spill Prevention
- Conduct vehicle refueling and maintenance only at authorized refuel and maintenance paved areas.
- Store hazardous materials/waste only in designated areas.

Spill Response
- Report any POL spill immediately to GTA Range Firing Desk.
- Take immediate action to control and contain the spill.
- See Environmental SOP for detailed spill cleanup guidance.
- If scope of cleanup is beyond unit capability, call Environmental Office (DSN 475 7209/7066, CIV +49 9641 83 7209 / +49 9641 83 7058).

Reporting POL spills

MEDEVAC

Air Medical Evacuation Request
- About
- Fire Prevention
- Hazardous Materials and POL
- Training Area DOs and DGN'Ts
- Vehicle Movement
- Quick Task Procedures
- Guidelines
- POC
- Maps
https://armyrangemapper.eur.army.mil/tapin
or NIPR search “7ATC”
Search for Training Facilities by Keyword

Click on training site icons to access PDF maps, scheduling calendar, field cards, capability briefs and other documentation

Sidebar Menu
- Switch Background Maps
- Add Military Feature overlays
- Add installation maps and imagery
- Tools to measure routes and areas
- Print map to PDF

Scale and MGRS Grid

https://armyrangemapper.eur.army.mil/tapin
or NIPR search “7ATC”
1,000+
Training capabilities in Europe and Africa

- Training Areas
- Airfields
- Ranges
- TADs
- DZs
- LZs
- ASPs

Google...
7ATC

WHAT'S NEW?
- Measurement Tools
- Natura 2000 Data
- Atlantic Resolve Data
- RFMSS Capability and Events

https://armyrangemapper.eur.army.mil/tapin
or NIPR search “7ATC”
New Command Policy Permitting Use of Natural Vegetation for Camouflage

Camouflage and concealment is the use of materials and techniques to hide, blend, disguise, or disrupt the appearance of military targets and/or their backgrounds. USAREUR units can now use natural vegetation for camouflage, further enabling a realistic “train as we fight” environment.
ITAM FY16 Theater Security Cooperation Events
NATO & Sustainable Training Area Management

ITAM provided significant support to the NATO School and multiple NATO Working Groups and Panels. 2016 highlights include the promulgation of NATO Standardized Agreements (STANAGs) which will enhance standardization and sharing of sustainable training land management best practices.

**STANAG 2594**  
Best Environmental Protection Practices for Sustainability of Military Training Areas

Environmental protection functional areas:
- Fire
- Flora
- Habitats / Ecosystems
- Soils
- Fauna
- GIS / Environmental Training
- Noise and Vibrations
- Water and Wetlands

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**STANAG 3833**  
Symbols for Land Forces Training Area Maps

A selection of environmental protection feature symbology:
- Temporarily Closed to Military Personnel and Vehicles
- Environmental Protection Site
- Contaminated Soil Collection Site
- POL Supply Point / Refueling Pad
- Fire Protection Strip
- Hazardous Materials Collection Site
- Waste Collection Point
- Dig Site

https://nso.nato.int
# NATO Environmental Condition Report Template

## General Information

- **Site**
  - Nearby city
  - Name Camp
  - Coordinates / grid
- **Occupant/Nation**
  - NATO
  - [ ]... ...
- **Unit**
- **Unit Commander**
- **Unit EP Officer**
- **ECR Prepared by**
- **ECR Date**
  - Site visit conducted on:
  - Reviewed by:
  - Report completed on:
- **Previous Studies**
  - EBS by [ ]... dated [ ]... 
  - Other:

## Summary of ECR Findings

Short paragraph to indicate why this ECR is established. Examples of changes requiring an ECR:
- Installation of a new waste water treatment plant;
- Relocation of a maintenance workshop;
- Arrival of new equipment, type of vehicles;
- Units' mission review / change in site use with impact on EP issues;
- Change in surrounding land use; and
- Conduct of a new EBS, etc.

## Environmental Aspects and Risk Assessment

**a. Aspects checked are described in this Environmental Condition Report:**

<table>
<thead>
<tr>
<th>Domestic Water</th>
<th>Sanitary Waste Water</th>
<th>Medical Waste</th>
<th>Hazardous Materials</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sanitary Waste Water</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Medical Waste</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Hazardous Wastes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Noise</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Vehicle and Equipment Washing</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Spill Control</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Historical or Cultural Resources</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>Other, (specify)</td>
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<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Equipment</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Non-hazardous Solid Waste</td>
<td>Yes</td>
<td>Yes</td>
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</tbody>
</table>
Enhancing Engineer Capabilities Through Collaboration

Questions?

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EMAIL: nathaniel.l.whelan.civ@mail.mil