



Integrated Training Area Management

STEWARDSHIP REPORT 2016



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About this report

The Stewardship Report on the U.S. Army Europe Integrated Training Area Management program is published annually and reports performance and accomplishments for all program components. The report covers the period January 1 to December 31, 2016. For further information and an electronic version of this and our previous reports, visit our website or Facebook site:

<https://srp.usareur.army.mil>

<http://www.facebook.com/usareur.srp>

We welcome your feedback

Please send your comments to:

U.S. Address:

7th Army Training Command

Attn: AETT-TS (Bldg 3007)

Unit 28130

Camp Normandy

APO AE 09114-8130

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7th Army Training Command

TSAE (Geb. 3007)

Camp Normandie

92655 Grafenwöhr-Lager

Or email to:

usarmy.bavaria.7atc.list.usareur-srp@mail.mil

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7th Army Training Command – the U.S. Army's only Unified Training Command

Our Organization



Joint Multinational Readiness Center



7th Army NCO Academy



Joint Multinational Simulation Center



International Special Training Center



Training Support Activity Europe



Combined Arms Training Center



Grafenwoehr Training Area

Our Mission

The 7th Army Training Command provides dynamic training, preparing U.S., NATO and partner-nation forces to execute Unified Land Operations and contingency missions.

The 7th ATC is uniquely organized to support the U.S. Army's training requirements for units stationed in or forward deployed to Europe. As the Army's only unified training command, we have an organic ability to provide training from the individual Soldier to the Joint Task Force headquarters.

Location Matters

We are centrally located among the highest concentration of U.S. Allies and Partners in the world. By routinely training together with the 7th ATC, Allies and Partners build trust, develop interoperability and set the conditions for creating the strong coalitions that will guarantee peace and security in the region.

Exportable Training Anywhere, Anytime

The 7th ATC's robust and dynamic expeditionary training teams bring efficient and effective training solutions anywhere they are needed in Europe, Africa and beyond.

THE CROWN JEWELS OF U.S. ARMY EUROPE



- » Digital live-fire ranges, shoothouses and convoy training lanes
- » Small arms to major weapon systems (armor, artillery, aerial gunnery / close air support)
- » Seamless integration of live, virtual constructive training
- » Tailored to the needs of U.S., NATO and partner-nation forces



- » Replicated towns and role-players to increase training realism
- » World-class Opposing Force
- » Veteran Observer Coach-Trainers
- » Cutting-edge After-Action Review capabilities

- » Homestation & Major Training Areas
- » Small arms to major weapon systems



- » Art & science of command & control
- » Company to 3-star command training
- » Multi-echelon Command Post training



- » U.S. Army Combat Training Center
- » Permanent Opposing Force
- » Dynamic Operational Environments



- » Training aids and devices
- » Homestation & Expeditionary support
- » Training land management/sustainment



- » Army Europe's schoolhouse
- » Tactical & technical courses
- » Resident, online, mobile training



- » Advanced special operations skills
- » Experienced, multinational instructors
- » Integration with conventional exercises



- » Army's oldest NCO Academy
- » 3-week Basic Leader Course
- » Open to Allied & Partner nations

OUR TRAINING CAPABILITIES

The 7th ATC's unified structure ties together the full-spectrum of training capabilities in Europe. We can custom build experiences designed to meet any unit's training objectives.

Our training is only limited by your imagination

AT THE CORE OF A STRONG EUROPE ARE THE BUILDING BLOCKS OF TRAINING



Exercise Case Study

Anakonda 2016 brought together more than 31,000 service members from 24 NATO and partner nations to train, exercise and integrate Polish national command and force structures into an allied, joint and multinational environment (see page 18).

Letter from the Commander

I am pleased to present the annual Stewardship Report on the U.S. Army Europe (USAREUR) Integrated Training Area Management (ITAM) program for 2016.

Headquartered in Grafenwoehr, Germany, the 7th Army Training Command (7th ATC) is the U.S. Army's largest overseas training command. By integrating a unified training command with sound land management techniques, 7th ATC is able to provide realistic and relevant training to U.S. Army, Joint Service, NATO and allied units and leaders.

The ITAM program is responsible for providing sustainable and balanced stewardship of USAREUR's training land platform. This stewardship is possible through both the substantial investment the U.S. Army has made in the training land assets and the outstanding support 7th ATC receives from the many host nation and multinational stakeholders involved in training area management.

ITAM has proven that managing land for realistic training and for biodiverse ecosystems are not mutually exclusive principles. ITAM has set the model for achieving sustainability by following proven best management practices and using innovative technologies.

7th ATC's commitment to stewardship remains steadfast. The Command's intention is to provide a candid assessment of our achievements and challenges. We are always pleased to receive any feedback; the ITAM contact details can be found on the contents page.

Army Strong, Strong Europe!

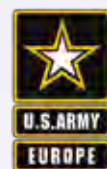
Brigadier General, U.S. Army
Commanding





“ We have to assure our partners. We have to deter Russia in the East, and that’s really the change that we are making. It’s the relationship with them, the posturing of our forces, and the training that we do. ”

U.S. ARMY GEN. CURTIS SCAPARROTTI
 NATO’S SUPREME ALLIED COMMANDER FOR EUROPE
 AND HEAD OF U.S. EUROPEAN COMMAND



U.S. Army Europe (USAREUR)

USAREUR Mission

USAREUR trains and leads Army Forces in support of U.S. European Command and Headquarters, Department of the Army by:

- » Training and preparing full spectrum capable forces for global employment
- » Strengthening alliances and building partner capacity and capability
- » Providing Army Service Component Command and Title 10 support
- » Continually seeking to improve the readiness and quality of life of our Soldiers, Army Families and Civilian workforce

[facebook.com/USArmyEurope](https://www.facebook.com/USArmyEurope)
twitter.com/USArmyEurope



7th Army Training Command (7th ATC)

7th ATC Mission

Headquartered in Grafenwoehr, Germany, the 7th ATC is the U.S. Army’s largest overseas training command. Our combat maneuver and simulation centers, live-fire ranges, classrooms and facilities provide realistic, tailor-made training solutions to U.S., NATO and partner-nation units and leaders.

7th ATC provides dynamic training, preparing forces to execute Unified Land Operations and contingencies in support of the Combatant Commands, NATO, and other national requirements. 7th ATC is a unique institution, efficiently and effectively providing innovative multinational training solutions for an uncertain future.

We are centrally located among the highest concentration of U.S. allies and partners in the world.

[facebook.com/7thATC](https://www.facebook.com/7thATC)
twitter.com/7thATC



Sustainable Range Program (SRP)

The ITAM program and the Range and Training Land Program (RTLTP) comprise the U.S. Army’s SRP. The mission of the SRP is to maximize the capability, availability and accessibility of ranges and training land to support doctrinal training, mobilization and deployments.

[facebook.com/USAREUR.SRP](https://www.facebook.com/USAREUR.SRP)



Training Support Activity Europe (TSAE)

TSAE identifies, acquires, manages and provides state-of-the-art home station, rotational and expeditionary training support and visual information capability as directed by USAREUR to prepare the 7th ATC forces to win in any operating environment, and serves as the 7th ATC point of contact for training support.

[facebook.com/TrainingSupportActivityEurope](https://www.facebook.com/TrainingSupportActivityEurope)



Integrated Training Area Management (ITAM)

ITAM is a management and decision-making process that integrates training and other mission requirements for land use with sound natural resource management practices.

ITAM is a core program under the Army’s Sustainable Range Program under the direction of the Chief, Training Support Systems Division, Office of the Deputy Chief of Staff, G-3/5/7.

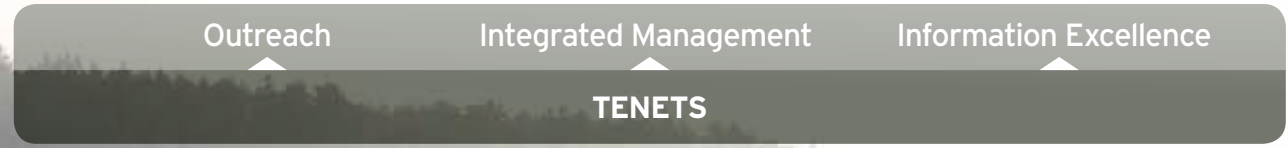
ITAM develops methods to maintain natural environments that are resilient and resistant to military use; provides capabilities to establish land condition monitoring on training lands (Range and Training Land Assessment); provides an awareness program for land users (Sustainable Range Awareness); provides means to apply training loads to land capabilities, resulting in land management that avoids non-compliance with environmental laws that stop training (Training Requirement Integration and Geographic Information System); and sustains the Army’s live training capability (Land Rehabilitation and Maintenance).

ITAM Mission



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

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



2016 Priorities

- » Integrated management of a training land platform capable of supporting a trained and ready force.
- » Enhanced multinational interoperability / standardization and partnership capacity.
- » Authoritative information proactively disseminated to training planners.

USAREUR ITAM is proud to support:



Training Capability Density

USAREUR units have an expansive training capability available throughout Europe and Africa. The Tap In website provides training planners an authoritative source for answering their own RFIs.

MEDITERRANEAN SEA

ATLANTIC OCEAN

NORTH SEA

ARCTIC OCEAN

BLACK SEA

BALTIC SEA

CASPIAN SEA

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



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

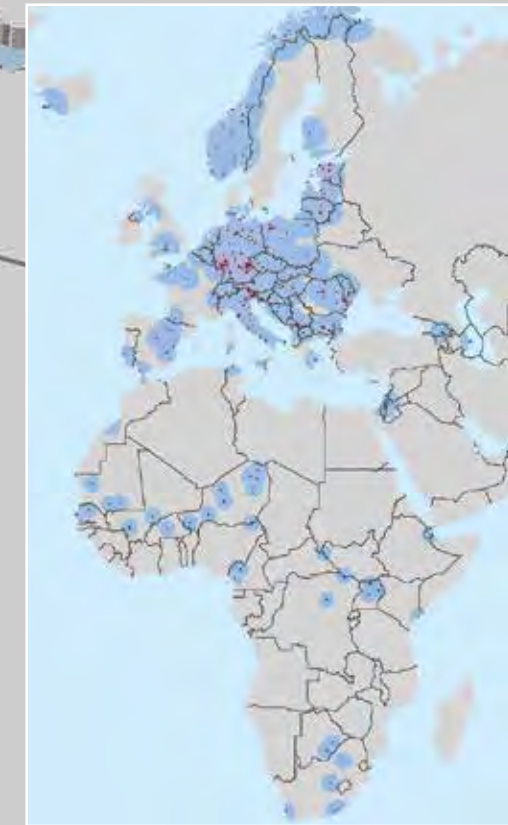
Visit: <https://armyrangemapper.eur.army.mil/tapin> or search "TATC Tap In"

Training Capability

High density

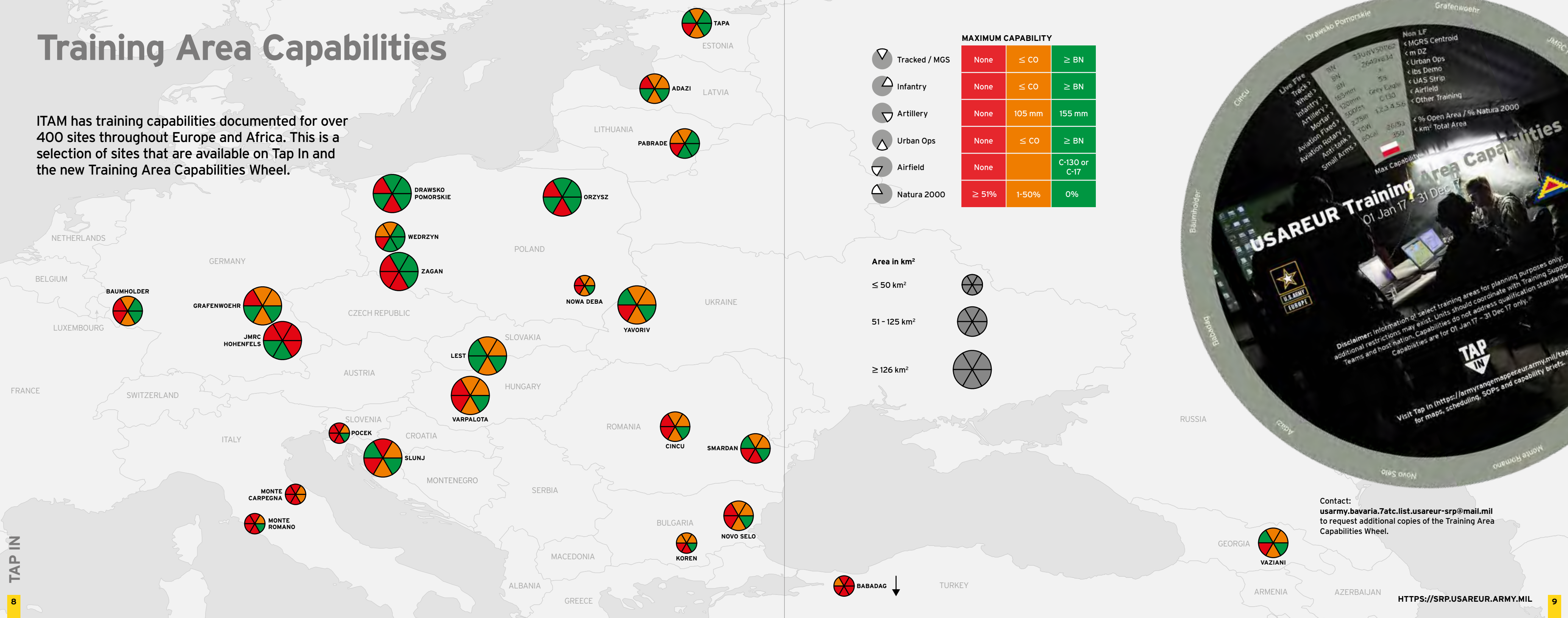


Low density



Training Area Capabilities

ITAM has training capabilities documented for over 400 sites throughout Europe and Africa. This is a selection of sites that are available on Tap In and the new Training Area Capabilities Wheel.



- Tracked / MGS
- Infantry
- Artillery
- Urban Ops
- Airfield
- Natura 2000

MAXIMUM CAPABILITY			
	None	≤ CO	≥ BN
	None	≤ CO	≥ BN
	None	105 mm	155 mm
	None	≤ CO	≥ BN
	None		C-130 or C-17
	≥ 51%	1-50%	0%

- Area in km²
- ≤ 50 km²
- 51 - 125 km²
- ≥ 126 km²

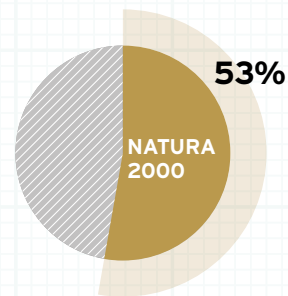
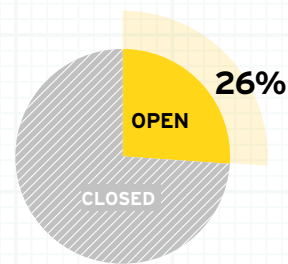


Contact:
usarmy.bavaria.7atc.list.usareur-srp@mail.mil
 to request additional copies of the Training Area Capabilities Wheel.

Training Area Case Study

Drawsko Pomorskie Training Area

Drawsko Pomorskie Training Area in Poland provides an excellent case study of the detailed physical, climatological, environmental and military training capability data included in ITAM's robust geodatabases. Training aids, such as Tap In, provide a quick source for military training planners to access this valuable information.



LANDCOVER

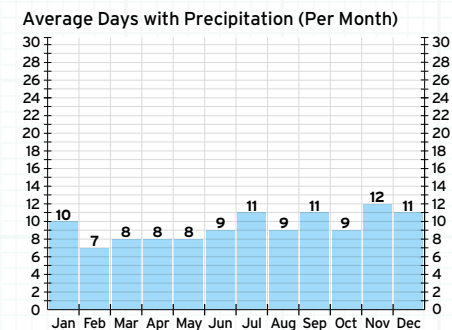
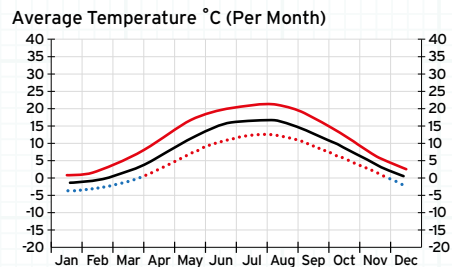
Acres / km²
86,371/350

Closed
258.86 km²

Open
90.67 km²

% Open Area
26%

% Natura 2000
53%



CLIMATE

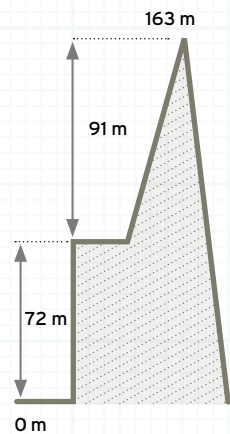
Min Monthly Average Temp
-6°C

Max Monthly Average Temp
23°C

Mean Monthly Average Temp
7.7°C

Wettest Month (Total Precipitation)
76 mm

Average Annual Rainfall (Total Precipitation)
605 mm



ELEVATION

Min Elevation
72 m

Max Elevation
163 m

Elevation Range
91 m



COORDINATES

MGRS Centroid
33UWV5019416275

LIVE FIRE MAX CAPABILITY

Tracked BN



Wheel BN



Infantry BN



Artillery 155 mm



Mortar 120 mm



Aviation Fixed



Aviation Rotary



UAS Lasering



Anti Tank TOW



Small Arms .50 cal



NON-LIVE FIRE MAX CAPABILITY

Drop Zone



UAS Strip Grey Eagle



Demo



Airfield C-130



OTHER

CBRN Chamber



Bridging



Convoy Live Fire Exercise



Dig Site



Live Fire Shoot House



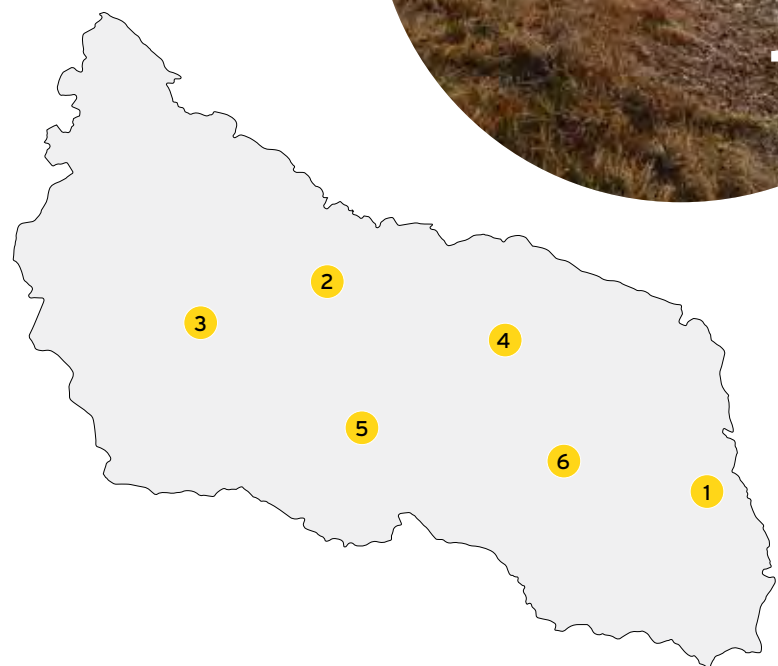
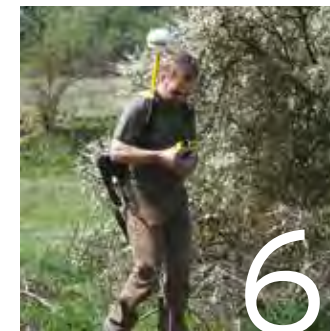
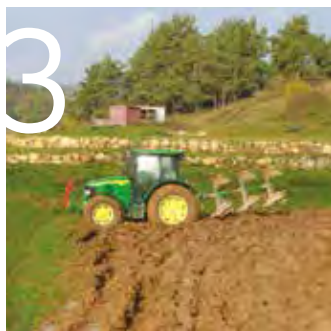
DECON Site



Project Catalog

USAREUR ITAM executed 18 high-impact projects in 2016. ITAM projects ensure the availability, accessibility and capability of USAREUR's training land platform remain maximized.

Department of the Army and U.S. Army Europe continued to provide strong funding support to the ITAM program in fiscal year (FY) 2016. This funding provides a critical role in sustaining and enhancing the USAREUR training land platform.



JMRC Hohenfels

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.

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.

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/ reseeded surfaces.

⑤ Maneuver Corridor Repair

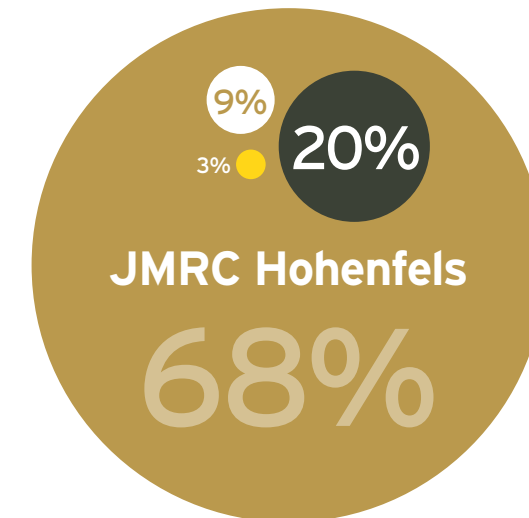
Work included localized repair on maneuver trails near FOB West, CP20 and CP35. Repairs included leveling damaged areas and using gravel in low areas to stabilize and harden the trail surface and increase vehicle clearance. In addition, water turnouts, ditches, rock dams and rock low water crossings were installed to ensure adequate water drainage.

④ Repair Training Damages

Project repaired damages along 2 km of maneuver trail and to basins, dams and other erosion control infrastructure that resulted from heavy maneuver training activities.

⑥ Range and Training Land Assessment Monitoring

Project included multiple surveys and assessments at Grafenwoehr and JMRC Hohenfels. The surveys provide information about the overall land condition and trends found across the installations.



Funding

- Land Rehabilitation and Maintenance
- Range and Training Land Assessment
- Geographic Information System
- Sustainable Range Awareness

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.

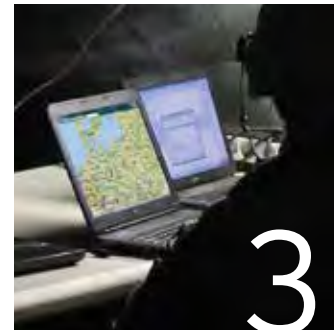
Project Catalog

Grafenwoehr

- ① **Bulk Materials**
Land repair and maintenance bulk materials (e.g. stakes, top soil, seed and gravel) and signage were procured in support of tasks executed by in-house Directorate of Public Works Building and Grounds resources on maneuver land.
- ② **Historic Forest Mapping Update**
This is a continuation of over 70 years of forest change analysis over Grafenwoehr Training Area. This year's update documents trends since 2010.



USAREUR



- ③ **Tap In Sustainment**
Ensured sustainment of Tap In functionality, security and performance. Project also incorporated Command requested functionality.



- ④ **Aerial Imagery**
Project procured 2016 aerial orthoimagery (0.20 m true color) of Pocek Training Area, Slovenia, and select LTAs in order to update USAREUR GIS repository.



- ⑤ **Comprehensive Geographic Information System**
Project included procurement of satellite imagery, land repair mapping surveys and off limit area mapping surveys. Survey and imagery primarily covered Atlantic Resolve training sites.



- ⑥ **Kiosk Sustainment**
Provided sustainment for the seven ITAM Mapping / TSAE kiosks located at various USAREUR Training Support Centers. Sustainment included maintenance support and interface updates.



Oberdachstetten

- ⑦ **Maintenance and Extension of Troop Marching Trail**
Work included repair, maintenance and extension of the Troop Marching Trail in order to reduce risk of Soldier injury during movement between ranges and training assets.

Stuttgart

- ⑧ **Trail Reconfiguration, Erosion / Drainage Control and Vegetation Clearance**
Over 500 m of trail leading into the northern LTA / Land Nav Course and 155 m of trail leading into the north-central LTA were repaired. Project included installation of culverts to modernize / sustain drainage and brush / vegetation encroachment cutting throughout the Boeblingen LTA.

Kaiserslautern

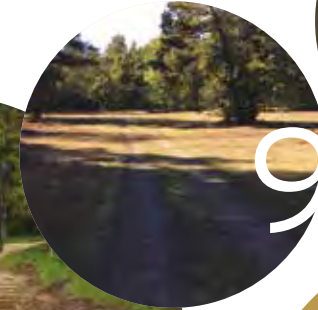
- ⑨ **Vegetation Clearance**
Project cleared and mulched over 500 m² of encroaching vegetation in the Breitenwald LTA.

Baumholder

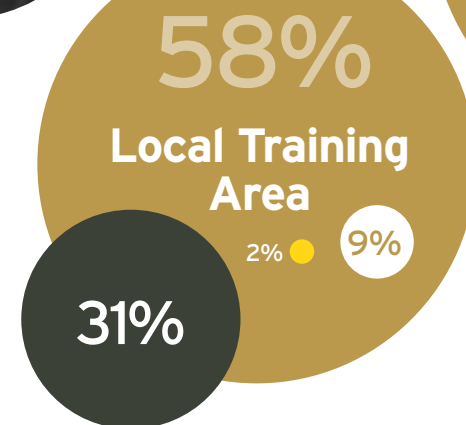
- ⑩ **Water Purification Site Modernization**
Project repaired and enhanced 550 m of maneuver trail and stabilized a 300 m² staging site in the Baumholder LTA.

Italy

- ⑪ **Clear Obstacles from Maniago LTA Maneuver Area**
Approximately 5 ha of obstacles adjacent to UO site were cleared in order to open maneuver space and reduce safety risk.



8



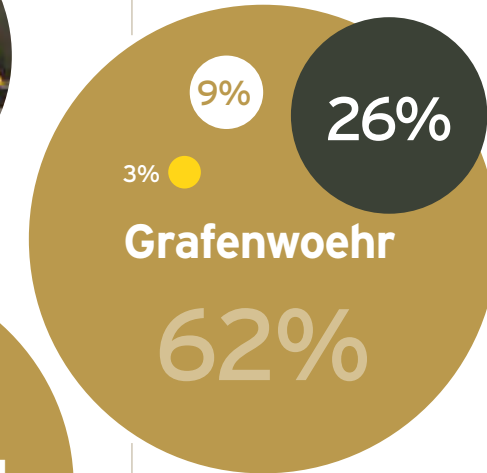
Italy

- ⑫ **Dandolo Maneuver Space Improvement**
Work included repair to the existing maneuver trail from SP27 to the Frida 4 Drop Zone entrance.



12

Funding



- Land Rehabilitation and Maintenance
- Range and Training Land Assessment
- Geographic Information System
- Sustainable Range Awareness



By the Numbers

2016 Mobile App Download Statistics

2,642

Soldier's Field Card

2,469

ARM Mobile

1,043

Environmental Officer Guide

6,154

Total Downloads

2016 Training Support Website Statistics

SITES	Hits	Page views	Visits	Unique visitors	Recurrent visitor	Avg. visit length (mins)
Tap In	2,412,757	1,447,360	19,492	6,085	2,763	14.77
USAREUR SRP	385,303	242,192	13,335	5,965	2,187	4.91
TOTAL	2,798,060	1,689,552	32,827	12,050	4,950	10.76

30,000+

Soldiers in USAREUR by 2017, concentrated in seven communities after currently scheduled transformation efforts are complete

20,000+

European ally & partner nation personnel participated in multinational exercises since 2005

51

Countries in the USAREUR Area of Responsibility

60,000+

Soldiers (U.S. and allied) train at the Joint Multinational Readiness Center at Hohenfels annually

2016 GIS Support Statistics

26,000

Soldier's Field Cards printed for distribution throughout USAREUR

24,900

Military Training Area Maps printed to support training in USAREUR

1,490

ITAM Viewer DVD sets distributed throughout USAREUR

597

GIS / Map data requests submitted, processed and completed

219

Custom Maps authored in response to customer requests

118

Technical GIS support requests completed

34

New aerial, satellite and topographic imagery datasets acquired

24

Installation, Industry and Training Events attended or hosted

15

Site visits to USAREUR and host nation training areas for GIS data collection, coordination and validation

13

GIS briefings or training sessions provided at Army workshops and other events in Europe and the U.S.

12

SOPs, Reports, Plans and Best Management Practice (BMP) documents created

11

New or updated Soldier's Field Cards created

9

RTLP Range Modernization projects supported

3

Number of Drones bought by USAREUR ITAM

Partner Events

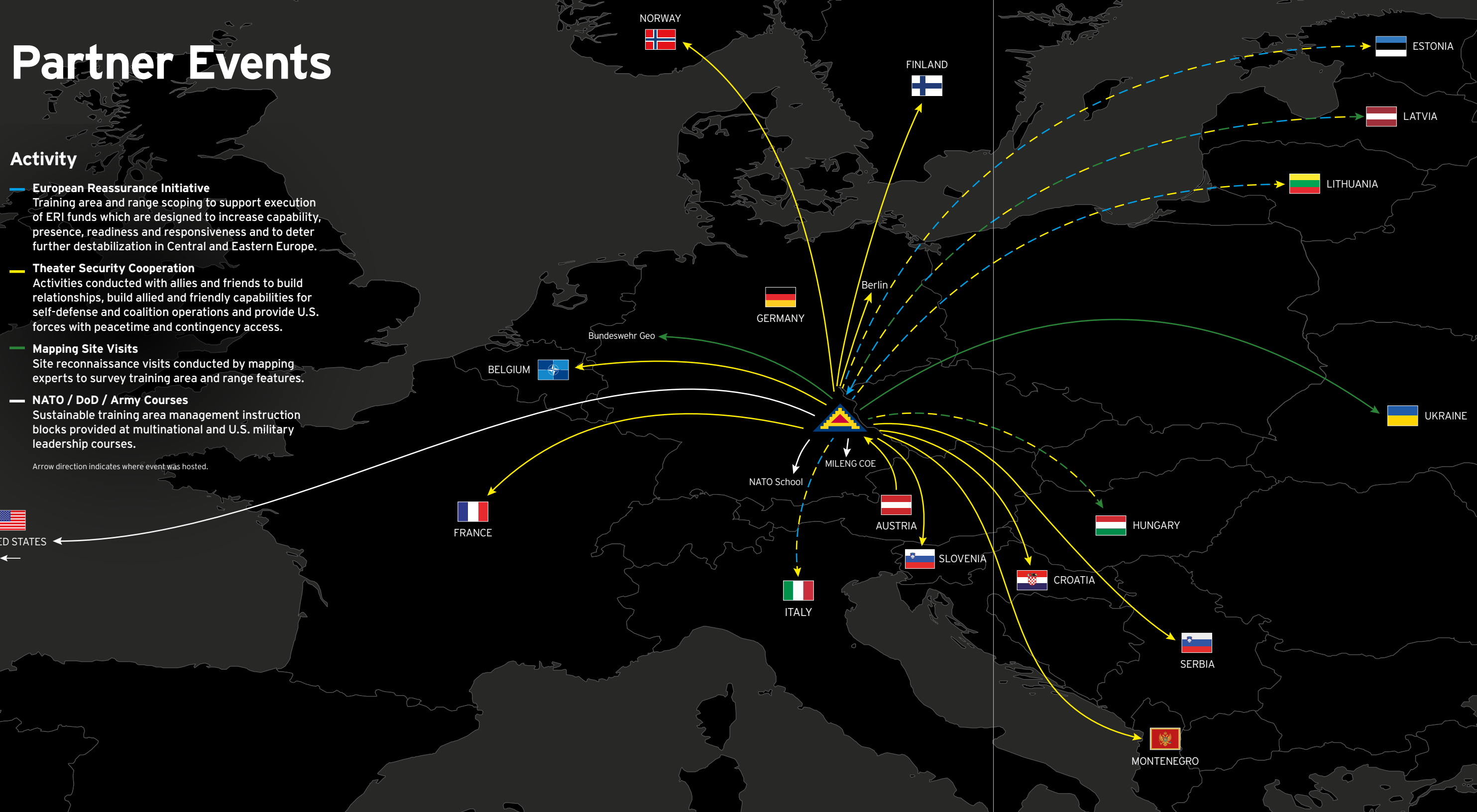
Activity

- European Reassurance Initiative**
Training area and range scoping to support execution of ERI funds which are designed to increase capability, presence, readiness and responsiveness and to deter further destabilization in Central and Eastern Europe.
- Theater Security Cooperation**
Activities conducted with allies and friends to build relationships, build allied and friendly capabilities for self-defense and coalition operations and provide U.S. forces with peacetime and contingency access.
- Mapping Site Visits**
Site reconnaissance visits conducted by mapping experts to survey training area and range features.
- NATO / DoD / Army Courses**
Sustainable training area management instruction blocks provided at multinational and U.S. military leadership courses.

Arrow direction indicates where event was hosted.



UNITED STATES



Partner Nation Engagements

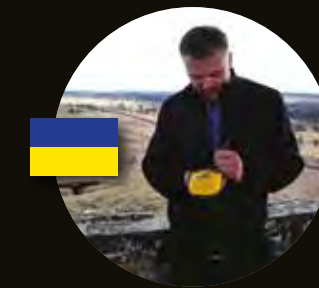
Month	Partner Nations
DECEMBER	Australia, Austria, Belgium, Bosnia and Herzegovina, Canada, Germany, Denmark, Finland, Greece, Hungary, Italy, Latvia, Lithuania, Norway, Romania, Turkey, Ukraine
NOVEMBER	Austria, Belgium, Czech Republic, Germany, Canada, Denmark, Finland, France, Greece, Hungary, Italy, Latvia, Lithuania, Norway, Romania, Slovakia, Turkey, Ukraine
OCTOBER	Germany, Finland, Italy
SEPTEMBER	Finland, Hungary, Italy
AUGUST	Germany, Ukraine
JULY	Germany, Lithuania, United Kingdom
JUNE	France, Germany
MAY	Austria, Belgium, Bosnia and Herzegovina, Canada, Germany, Denmark, Finland, France, Greece, Hungary, Italy, Latvia, Lithuania, Norway, Romania, Slovakia, Turkey, Ukraine
APRIL	Germany, Lithuania
MARCH	Germany, Romania, Taiwan
FEBRUARY	Germany, Ukraine
JANUARY	Germany, Hungary, Latvia

Events Calendar

The ITAM program continued to support a variety of awareness events throughout USAREUR in 2016. ITAM's participation ranged from event hosting to providing presentations and/or training sessions.

PROPONENT	EVENT	DATES	LOCATION	
	Montenegro Theater Security Cooperation	13 - 23 March	Podgorica, Montenegro	
	Croatia Theater Security Cooperation	11 - 15 April	Slunj, Croatia	
	Lithuania Theater Security Cooperation	25 - 29 April	Vilnius, Lithuania	
	Hungary Theater Security Cooperation	23 - 25 May	Budapest, Hungary	
	Cold Regions Environmental Protection Of Heavy Weapons Ranges Workshop	24 - 26 May	Oslo, Norway	
	Biodiversity on Military Training Camps Workshop	27 June - 1 July	Nimes, France	
	Baltics Environmental Security Visit	11 - 15 July	Vilnius, Lithuania	
	Estonia Theater Security Cooperation	12 - 16 September	Talinn, Estonia	
	U.S. - Italy Sustainable Training Area Management Planning Workshop	19 - 22 September	Udine, Italy	
	Cold Regions Environmental Protection Of Heavy Weapons Ranges Workshop	24 - 27 October	Tampere, Finland	
	Latvia Theater Security Cooperation	28 - 30 November	Riga, Latvia	
		ESRI Federal User Conference	23 - 26 February	Washington, D.C.
		HQDA ITAM Management Review	1 - 3 March	Fort Eustis, VA
HQDA ITAM Workshop		9 - 12 May	Fort Eustis, VA	
HQDA Training Support System Mission Essential Review		1 - 5 August	Grafenwoehr, Germany	
HQDA ITAM Management Review		12 - 16 September	Fort Eustis, VA	
	Hungary Mapping Support	11 - 15 January	Varpalota TA, Hungary	
	Latvia Mapping Support	18 - 22 January	Adazi TA, Latvia	
	Grafenwoehr Range and Training Area Working Group	27 January, 27 April, 26 July, 12 October	Grafenwoehr, Germany	
	Bundeswehr Geoinformation Centre	2 - 4 February	Euskirchen, Germany	
	Ukraine Mapping Support	15 - 19 February	Yavoriv TA, Ukraine	
	JMRC Hohenfels Training Area Working Group	18 February, 9 September	Hohenfels, Germany	
	Slovenia Theater Security Cooperation	14 - 16 March	Ljubljana, Slovenia	
	ESRI GIS Training	15 - 18 March	Vilseck, Germany	
	Graf Rugged Terrain Obstacle Run	9 April	Grafenwoehr, Germany	
	Bavarian State Parliamentarian Visit	14 April	Grafenwoehr, Germany	
	USAREUR SRP Workshop	18 - 20 April	Grafenwoehr, Germany	
	ITAM Ecological Display	1 - 17 June	Amberg, Germany	
	Ukraine Mapping Support	11 - 15 August	Yavoriv, Ukraine	
	Hungary Mapping Support	6 - 15 September	Varpalota, Hungary	
	Organizational Inspection Visit RTSD South	4 - 7 October	Vicenza, Italy	
Italy Mapping Support Visit	7 - 11 November	Vicenza, Italy		
Austrian Autonomous Tractor Demonstration	9 - 10 November	JMRC Hohenfels, Germany		
Ukraine Mapping Support	18 - 21 November	Yavoriv, Ukraine		

PROPONENT	EVENT	DATES	LOCATION
	Technical Management Panel Meeting / NATO Joint Geospatial Standards Working Group 2016	24 - 28 April	Berlin, Germany
	NATO School	4 May	Obergammerrgau, Germany
	NATO Environmental Training Panel	10 - 12 May	Ingolstadt, Germany
	Combined U.S. DoD Symbology Standards Management Committee and the NATO Joint Symbology Panel	26 - 28 July	Berlin, Germany
	NATO Joint Geospatial Standards Working Group 2016	14 - 17 November	Brussels, Belgium
	NATO Standardization Office Orientation Course	21 - 23 November	Brussels, Belgium
	NATO Knowledge Management Course	28 November - 2 December	Oberammergau, Germany
	NATO Environmental Protection Working Group	5 - 9 December	Brussels, Belgium



Ukraine Mapping Support

Yavoriv, Ukraine
15 - 19 February 2016

ITAM GIS Analyst traveled to Yavoriv, Ukraine to support Range Ops, Joint Multinational Training Group - Ukraine with GPS / GIS mapping and training.



USAREUR SRP Workshop

Grafenwoehr, Germany
18 - 20 April 2016

USAREUR SRP's cornerstone event for sharing best practices and networking with multinational partners.



Lithuania Theater Security Cooperation

Vilnius, Lithuania
25 - 29 April 2016

The purpose of event was to continue bi-lateral relationship development with MoD and Lithuanian military contacts with focus on environmental matters tied to military training ranges in Lithuania and in support of U.S.-funded construction in country.



U.S. - Italy Sustainable Training Area Management Planning Workshop

Udine, Italy
12 - 16 September 2016

The Workshop focused on the importance of the balance between military training requirements and environmental protection. The event served as a prelude to a comprehensive Workshop to take place in June 2017 in Italy.



Austrian Autonomous Tractor Demonstration

JMRC Hohenfels, Germany
9 - 10 November 2016

The Austrian Armed Forces Armaments and Defence Technology Agency (ADTA) visited the Joint Multinational Readiness Center Hohenfels to provide an on-site demonstration of vegetation removal in UXO areas using an autonomous tractor.

Combating vegetation encroachment in JMRC maneuver areas poses a significant challenge to training land management due to high UXO densities. The autonomous tractor developed by the Austrian Armed Forces is designed specifically for the management of open land in UXO areas, supporting future reopening of maneuver land and drop zones.

NATO Standardization

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

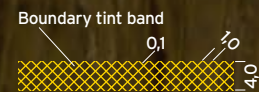


Water and Wetlands

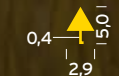


STANAG 3833 Symbols for Land Forces Training Area Maps

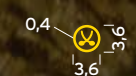
A selection of environmental protection feature symbology:



Boundary tint band



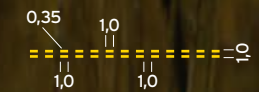
Environmental Protection Site



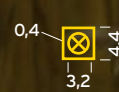
Contaminated Soil Collection Site



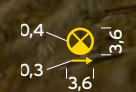
POL Supply Point / Refueling Pad



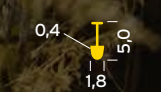
Fire Protection Strip



Hazardous Materials Collection Site



Waste Collection Point



Dig Site



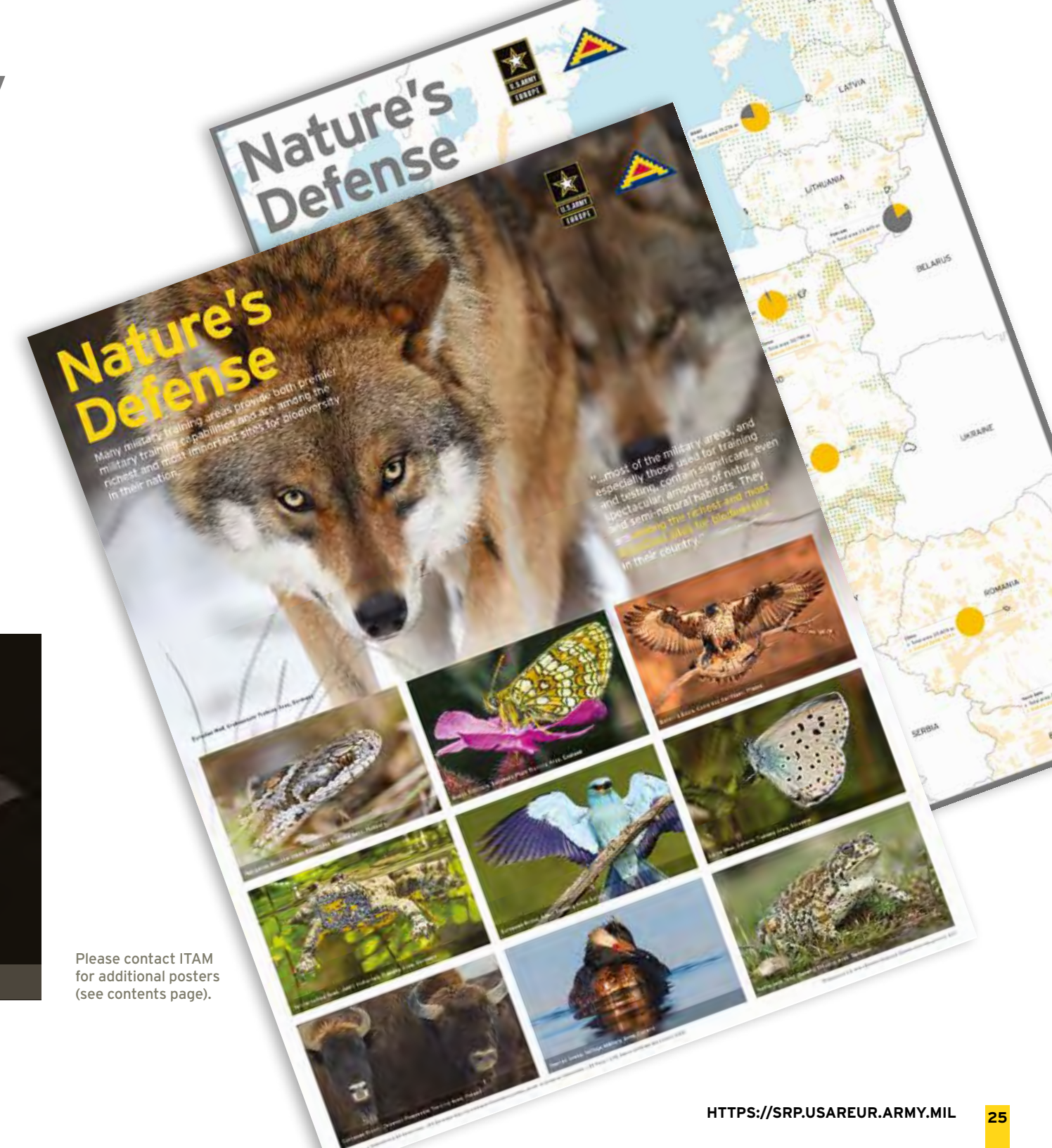
Biodiversity

Military training areas provide high-value ecological habitat for a multitude of protected flora and fauna species. Military environmental protection experts work in close partnership with governmental and non-governmental stakeholders to ensure integrated training area management.

The double-sided Nature's Defense poster (available in the back cover of this report) displays a selection of protected flora and fauna that exist in U.S. and partner nation military training areas.



Lesser Horseshoe Bat, Monte Carpegna



Please contact ITAM for additional posters (see contents page).



Who Needs What

10's

Commander / Organization Manager

Commanders, Directors and Program Managers



7th ATC Overview Training Support Map



Tap In



ARM Mobile App



Soldier's Field Card Mobile App



Training Support Kiosk



USAREUR Environmental Officer Guide Mobile App

1,000's

Planners

G3/S3, Master Gunners, Safety, Range and Training Area Managers, SRP Personnel, Garrison Planners, Environmental Officers and SMEs



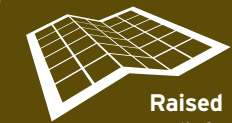
Soldier's Field Cards



Installation Maps



Custom Maps



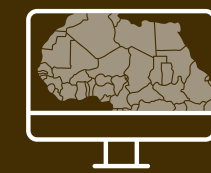
Raised Relief Maps



Annual Reports



Map Atlases



ITAM Viewer



Studies



ArcGIS Online Services

10,000's

Viewers

U.S. Soldiers, Garrison and HQ Civilians, Training Support Civilians, Host-Nation Agencies and select Foreign Military Personnel



License Server



Data Warehouse

100's

GIS Analysts

Professional GIS Personnel at SRP, Garrison, Units and select Contractors

Mobile Apps

Search Apple App Store or Google Play by keyword "USAREUR"



Army Range Mapper

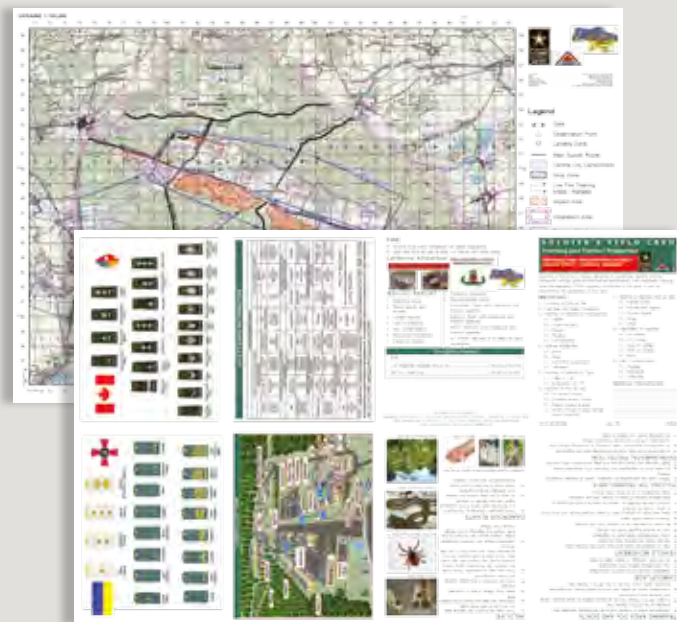
- » Route Planner
- » 80+ USAREUR Training Areas
- » Access Gate Locations
- » Esso Gas Stations (Germany)



USAREUR Environmental Officer Guide

- » Authoritative Environmental Reference
- » Must-have for Environmental Officers
- » Fire and Spill Response, POCs
- » HAZMAT Management

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 Asiago Drop Zone
- ROU Babadag TA
- DEU Baumholder Training Area
- ITA Cao Malnisio Range
- ITA Cellina-Meduna LTA
- BEL Chievres Training Area
- ITA Foce Del Fiume Serchio Range
- DEU Kaiserslautern TSC / Breitenwald LTA
- ITA Monte Carpegna MTA
- ITA Monte Romano TA
- BGR Novo Selo TA
- ITA San Giorgio UAC
- HRV Slunj Training Area
- DEU Stuttgart TSC
- ITA T-Series TA
- ITA Valle Ugione 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 Gaiziunu Training Area, Rukla
- LTU Pabrade Training Area
- POL Drawsko Pomorskie MTA
- POL Nowa Deba Training Area
- POL Wedrzyn 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



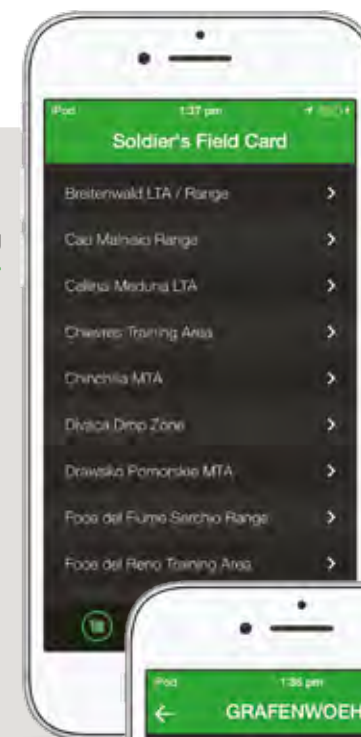
Soldier's Field Card

- » Training Area "Best Practices" Reference
- » MEDEVAC & Safety Information
- » POCs

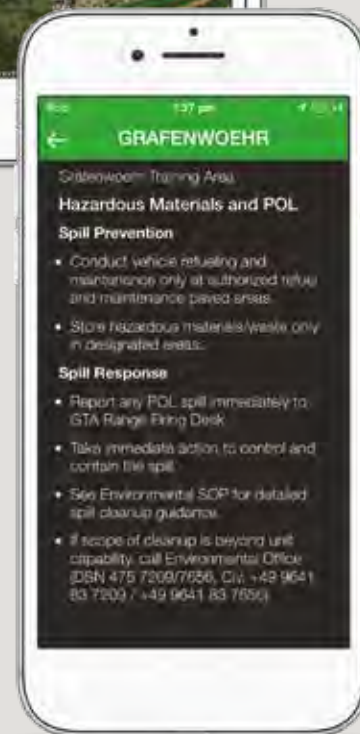
Maps >>



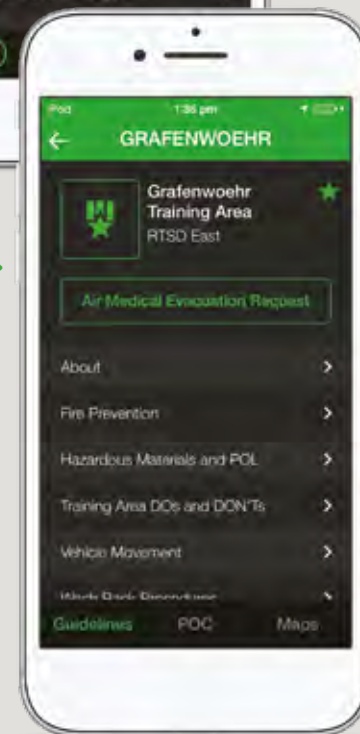
Training Areas >>



Reporting POL spills >>



MEDEVAC >>



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>, sign into the CAR and search for "Soldier's Field Cards".

Exercise Assessments (Drones)

ITAM provides the Command immediate and detailed training land assessments following each major training exercise.

Standardized ITAM assessments document exercise environmental impacts, mitigation required and potential concerns for training planners.

ITAM is leveraging Drone technology in order to improve accuracy and coverage of these surveys. Drone mounted true color and color infrared cameras can identify and assess training area impacts and quantify erosion and vegetation damage.

Example of an ITAM Post-Exercise Training Land Assessment

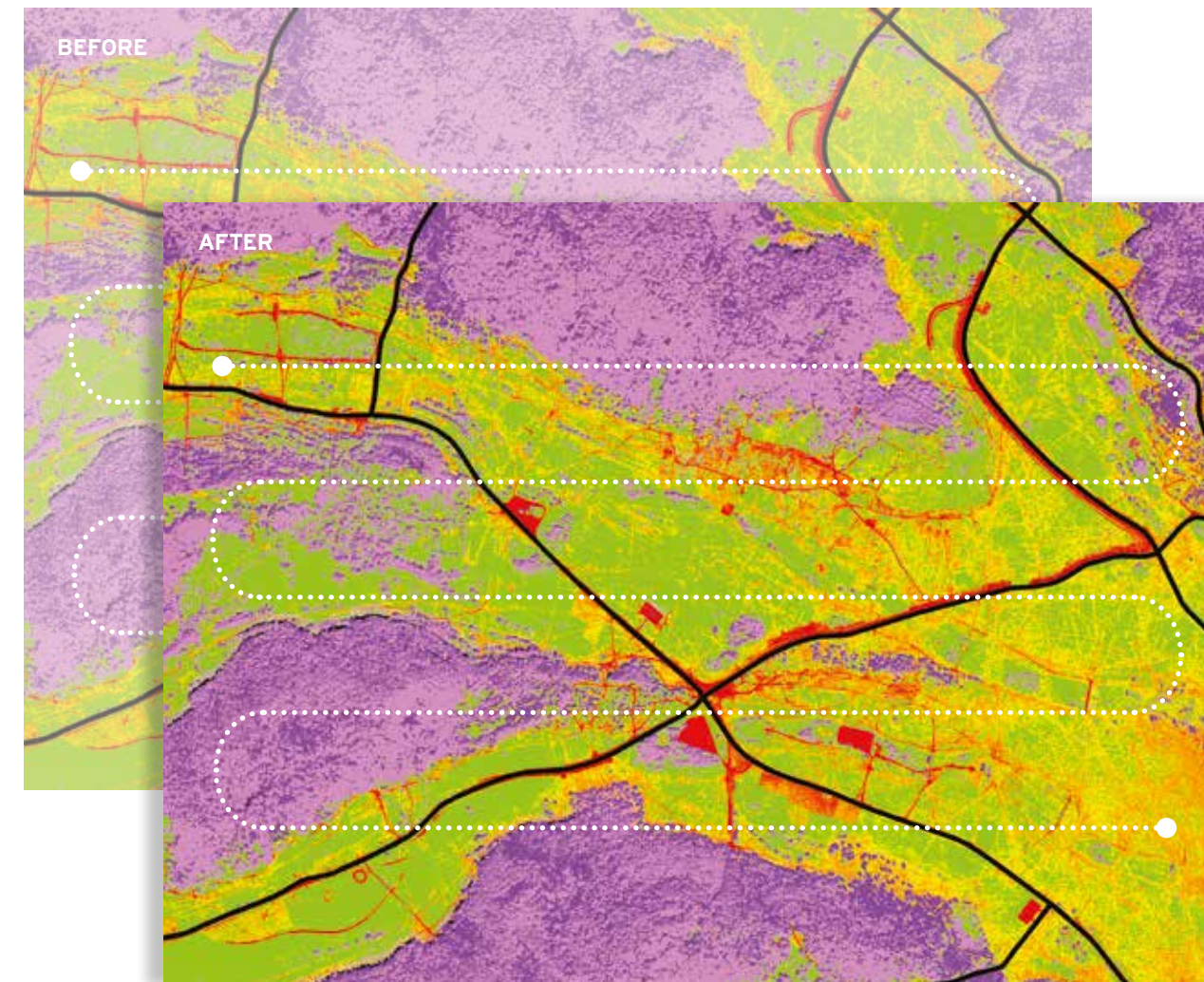
UNCLASSIFIED
ITAM Exercise Assessment
Combined Resolve IV CALFEX

Facts	Assets	Conditions																																			
Type: DATERAMP Scenario: Combined IV CALFEX Design: VML Maneuver w/ FOP LP/CALFEX: 25 Jan 15 Special Facts: Visual constructed No support call from British 20 th Artillery: # Partner Nations: 2 Romania & Great Britain Maneuver Site(s): JMTG GTA Ranges and Maneuver Area	<table border="1"> <thead> <tr> <th></th> <th>US</th> <th>MN</th> </tr> </thead> <tbody> <tr> <td>PAK</td> <td>575</td> <td>50</td> </tr> <tr> <td>Tanks</td> <td>28</td> <td>0</td> </tr> <tr> <td>IFVs</td> <td>35</td> <td>0</td> </tr> <tr> <td>APCs</td> <td>0</td> <td>4</td> </tr> <tr> <td>Aircraft</td> <td>8</td> <td>0</td> </tr> <tr> <td>Wheeled</td> <td>20</td> <td>0</td> </tr> </tbody> </table>		US	MN	PAK	575	50	Tanks	28	0	IFVs	35	0	APCs	0	4	Aircraft	8	0	Wheeled	20	0	Pre-Exercise Open Area Land Condition: Green Maneuver Trail Condition: Green Overall Erosion Status: 0.26% Green Exercise Daily Temperature: 73F/23C Evening Temperature: 66F/21C Precipitation: 0 Notes: None														
	US	MN																																			
PAK	575	50																																			
Tanks	28	0																																			
IFVs	35	0																																			
APCs	0	4																																			
Aircraft	8	0																																			
Wheeled	20	0																																			
Exercise Impacts	Mitigation																																				
* Due to very dry landscape approximately 2.0km of minor Maneuver Trail damage with PA-266 with some open land impacts with PA-262, PA-261, and PA-264. Small rehabilitation requirements with no erosion concerns.	<table border="1"> <thead> <tr> <th></th> <th>TT&M</th> <th>DRM</th> <th>EROS</th> <th>TEC</th> </tr> </thead> <tbody> <tr> <td>Trails</td> <td>\$0.5K</td> <td>\$0.5K</td> <td></td> <td></td> </tr> <tr> <td>Ditches</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Check Dams</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Rat. Basins</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Open Area</td> <td>\$0.5K</td> <td>\$0.5K</td> <td></td> <td></td> </tr> <tr> <td>Forest</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> Total Estimated Cost: \$1K (MDEP TATM) Issues: None. Negligible land impacts for this exercise level.		TT&M	DRM	EROS	TEC	Trails	\$0.5K	\$0.5K			Ditches					Check Dams					Rat. Basins					Open Area	\$0.5K	\$0.5K			Forest					
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STRONG SOLDIERS, STRONG TEAMS | UNCLASSIFIED | Combined Resolve | As of 26 Jun 15

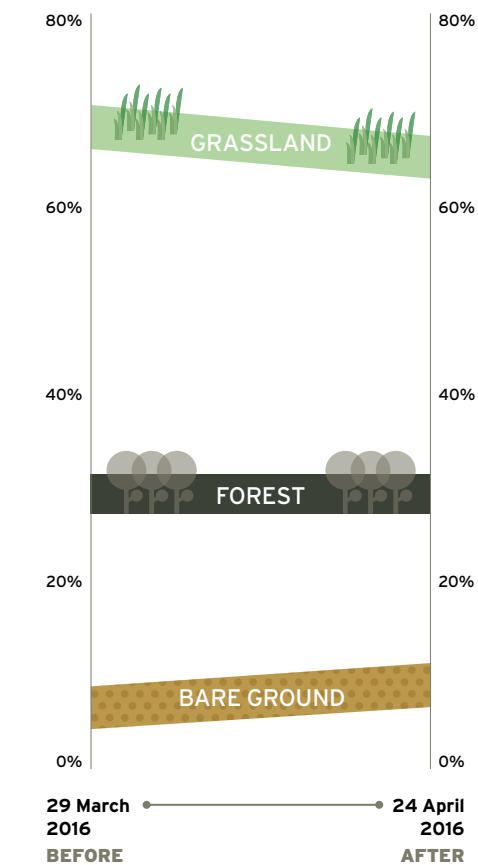


Drone flight path over CP 46, JMRC Hohenfels Training Area, conducting post-exercise training land assessment data capture.



Drone sensors capture both true color and color infrared imagery, allowing detailed land cover mapping.

Exercise Saber Junction 16 Check Point 46



Land cover mapping before and after an exercise depicts environmental impacts and aids in prioritizing land repair projects.

2017 Initiatives



Innovation

Tap In will continue to be the “go-to” for training planners. 2017 priorities include development of new Tap In geospatial data for the Black Sea Region, the Balkans and on NATO’s southern flank. Tap In outreach to units and training forums will remain aggressive with the intent of adding USAREUR Exercises as a data stream.



Enhance the Training Land Platform

Through partnerships with our stakeholders, enhancement of the training land platform throughout the USAREUR AOR remains a core ITAM objective for 2017. Cost efficient and effective land reconfiguration projects coupled with rapid land assessment technology, including the use of drones, will assist in maximizing the availability, accessibility and capability of USAREUR’s training land assets.



Multinational Engagement

ITAM will continue to provide close support to USAREUR Exercises in 2017, with focus on Exercise Saber Guardian and the Atlantic Resolve area of operations. ITAM will continue to provide subject matter expertise to NATO Working Groups and 10-15 U.S. European Command (EUCOM) engagements funded by the Defense Environmental International Cooperation program through the Office of the Secretary of Defense.

Sample 2017 EUCOM Environmental Security Engagements

- » Cold Region Environmental Protection Advisory Working Groups
- » Balkans Environmental Considerations in Military Operations Regional Workshop (Montenegro)
- » Natura 2000 & Range Management (Italy)
- » Sustainable Range Management Bilateral Events (Eastern Europe)
- » Sustainable Range Management Regional Events (Balkans and SE Europe)
- » Sustainable Range Management Bilateral Events (Baltics)

“ The environment of the future is a very complex one that will change very quickly and most likely be multinational. So the Army must have multiple options, in multiple domains, with multiple allies and partners. ”

LT. GEN. BEN HODGES
U.S. ARMY EUROPE COMMANDING GENERAL



For further information or copies of this Stewardship Report, please contact the ITAM office: +49 (0)9641-83-ITAM or usarmy.bavaria.7atc.list.usareur-srp@mail.mil

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