



U.S. ARMY  
EUROPE

INTEGRATED TRAINING AREA MANAGEMENT

# STEWARDSHIP REPORT 2014





# Contents

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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, 2014. For further information and an electronic version of this and our previous reports, see our website:

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

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## WE WELCOME YOUR FEEDBACK

Please send your comments to:

U.S. Address:  
7th Army JMTC  
Attn: AETT-TS (Bldg 3007)  
Unit 28130  
Camp Normandy  
APO AE 09114-8130

German Address:  
7th Army JMTC  
TSAE (Geb. 3007)  
Camp Normandie  
92655 Grafenwöhr-Lager

Or email to:

[usareur.srp.contact@us.army.mil](mailto:usareur.srp.contact@us.army.mil)

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# Shifting to Preparedness



**“AS THE MAIN ENABLER FOR NATO LAND FORCES IN THE U.S. EUROPEAN COMMAND, WE ARE ABSOLUTELY COMMITTED TO ASSURING AND DEFENDING OUR NATO ALLIES. WE’VE BEEN EXECUTING ARMY OPERATIONS WITH A COMBINATION OF FORWARD STATIONED AND ROTATIONAL FORCES SINCE EARLY SPRING OF 2014”**

“Our commitment to each other and interoperability are stronger than ever. USAREUR is the leadership laboratory for the Army as we have the unique advantage of working side by side with our Allies and partners every day.”

Lt. Gen. Ben Hodges,  
USAREUR Deputy Commanding General

NUMBER OF NATIONS TRAINING IN 2014

**24**  
GRAFENWOEHR

**35**  
JMRC HOHENFELS

TOTAL NUMBER OF MULTINATIONAL SOLDIERS TRAINING IN 2014

**22,800**  
GRAFENWOEHR

**12,087**  
JMRC HOHENFELS



# 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 2014.

The 7th Army Joint Multinational Training Command (JMTC), headquartered in Grafenwoehr, Germany, is the largest and most diverse training command outside the continental United States. By integrating mission with sound land management techniques, the JMTC provides realistic and relevant training to U.S. Army, Joint Service, NATO and partner units and leaders.

Due to our forward-based presence in Europe, JMTC has the unique opportunity to build interoperability with our Allies and partners. This dynamic relationship ensures we prevail in today's wars while laying the foundation to prevent and deter future conflict.

The 230 km<sup>2</sup> Grafenwoehr Training Area is the largest and most dynamic live-fire training facility in Europe. The neighboring 162 km<sup>2</sup> of the Joint Multinational Readiness Center Hohenfels Training Area provides realistic and challenging combat training for the individual through brigade level. For these and other training areas, the ITAM program is responsible for providing sustainable and balanced stewardship of USAREUR's training land. This stewardship is possible through the substantial investment the U.S. Army has made into the training land assets and the strong support JMTC receives from the many stakeholders involved in training area management.

JMTC'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!

**CHRISTOPHER G. CAVOLI**  
Brigadier General, USA  
Commanding



**“ITAM PROGRAM IS RESPONSIBLE FOR PROVIDING SUSTAINABLE AND BALANCED STEWARDSHIP OF USAREUR’S TRAINING LAND”**



# Where We Fit In

# Integrated Training Area Management



### JMTC VISION »

JMTC is a unique institution, efficiently and effectively providing innovative multinational training solutions for an uncertain future. We build Coalitions.



Visit USAREUR SRP on Facebook  
<https://www.facebook.com/USAREUR.SRP>

### U.S. ARMY EUROPE

U.S. Army in Europe 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



615th Military Police conduct weapons qualification at the Grafenwoehr Training Area.

### JOINT MULTINATIONAL TRAINING COMMAND (JMTC)

The 7th Army Joint Multinational Training Command provides dynamic training, preparing forces to execute Unified Land Operations and contingencies in support of the Combatant Commands, NATO and other national requirements.



Danish Armor Battalion trains at Grafenwoehr.

### TRAINING SUPPORT ACTIVITY EUROPE (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, in order to prepare Joint and Multinational forces to win in any operating environment, and serves as the JMTC point of contact for training support at installations outside the Grafenwoehr Military Community.



Armenian and Romanian Soldiers work together during Ex Combined Resolve III.

### SUSTAINABLE RANGE PROGRAM

The ITAM program and the Range and Training Land Program (RTLTP) comprise the U.S. Army's Sustainable Range Program. 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.



1st Cavalry Division tank moves into an overwatch position during Combined Resolve II.

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.

In USAREUR, responsibility for the ITAM program resides in Training Support Activity Europe under the 7th Army Joint Multinational Training Command.

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).



1st Cavalry Division Soldiers move off objective during Ex Combined Resolve III.



# OUR FOCUS

## Lines of Effort

## Objectives

## Purpose

- 1 Training Requirements Integration »
- 2 Range and Training Land Assessment »
- 3 Land Rehabilitation and Maintenance »
- 4 Sustainable Range Awareness »
- 5 Geographic Information System »

Provide a training support procedure that integrates training requirements with management of natural and cultural resources.

Characterize and monitor an installation's natural resources, geospatially and temporally.

Implement preventive and corrective land repair projects that ensure availability, accessibility and capability of training lands.

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

Provide accurate, complete and standardized spatial data. GIS data and products adhere to Federal, DoD and Army spatial data standards.

The mission of ITAM is to maximize the capability, availability and accessibility of training land to support doctrinal training, mobilization and deployments.

OUTREACH

INTEGRATED  
MANAGEMENT

INFORMATION  
EXCELLENCE

Tenets ▶

## 2014 Priorities

- » Integrated management of an available, accessible and capable training land platform.
- » Enhanced multinational interoperability and partnership capacity.
- » Authoritative information actively disseminated to training planners.

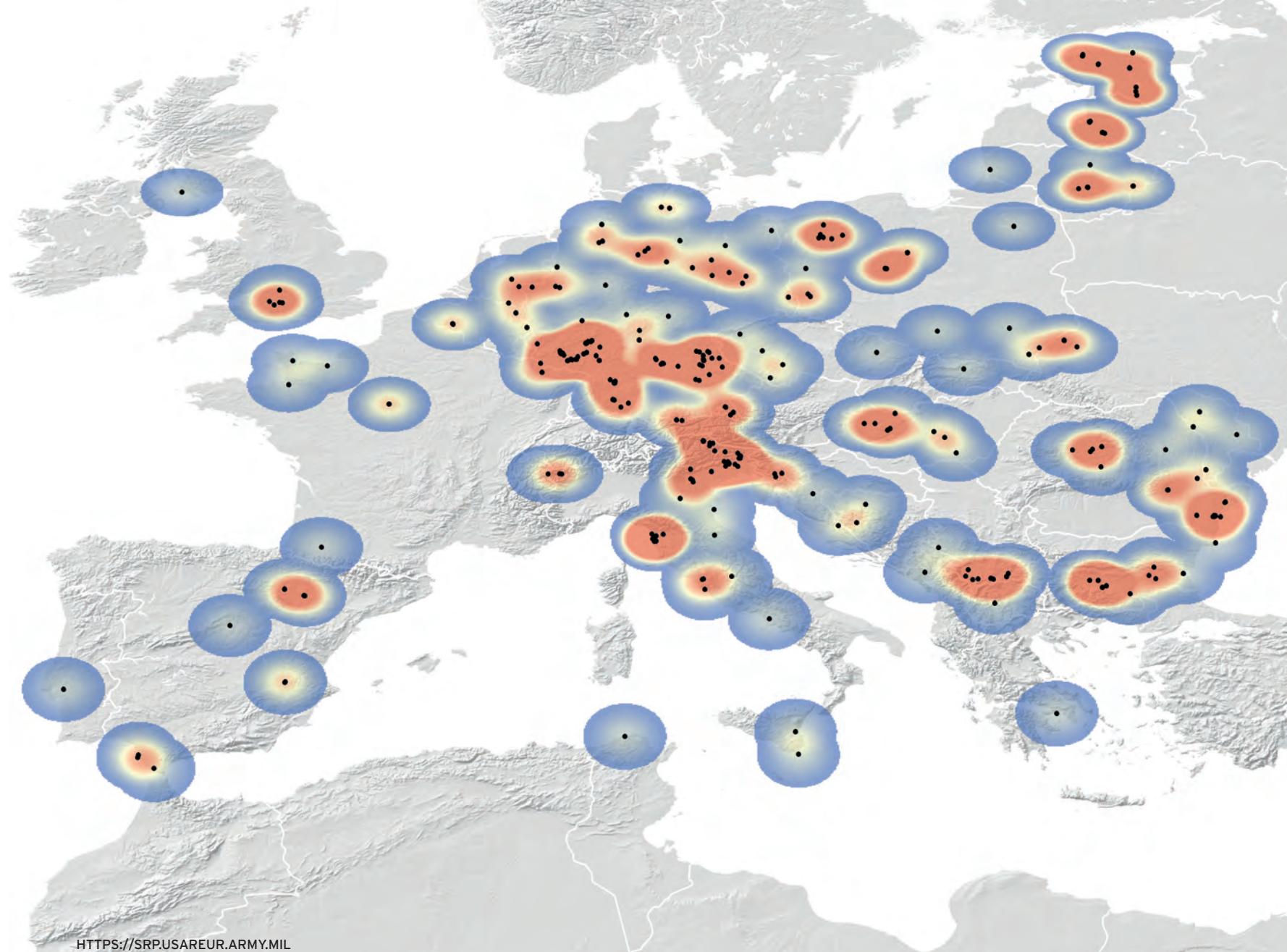
1. 1st Cavalry Division Soldier looks ahead during Ex Combined Resolve III.
2. Special Operations Command Europe met for the multi national exercise Jackal Stone at the Baumholder Training Area.
3. A Romanian Soldier instructs Soldiers from 173rd Airborne Brigade at Rapid Trident 2014 in Yavoriv, Ukraine.
4. 173rd Infantry Brigade Combat Team Soldier repacks her parachute at Grafenwoehr Training Area.





# Training Capability Density

Powered by TAP IN



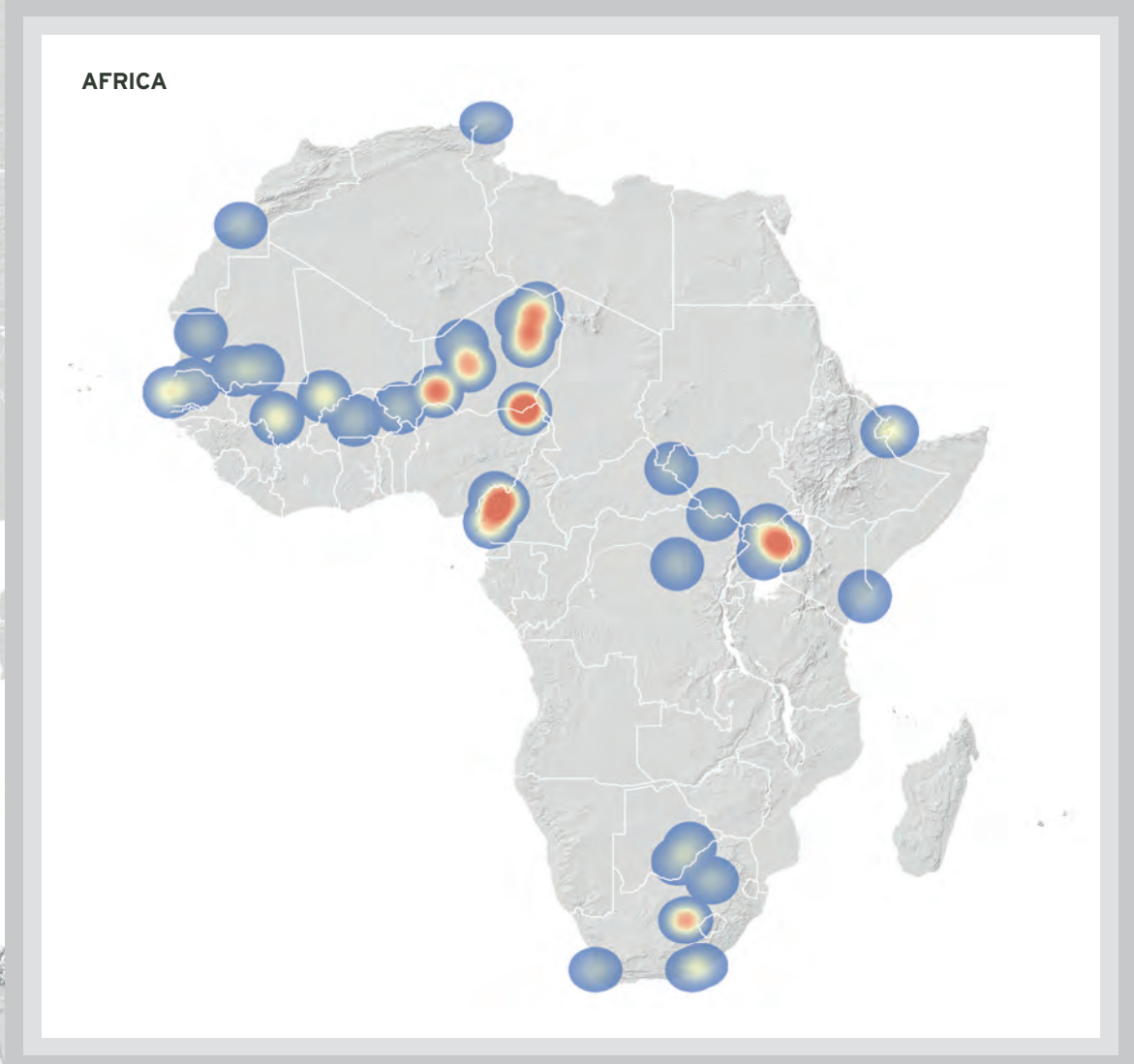
**TRAINING CAPABILITY**

High density Low density

- A training capability (e.g. range, training area, DZ, LZ)

ITAM provides varying levels of support throughout the U.S. European and U.S. Africa Commands' areas of responsibility.

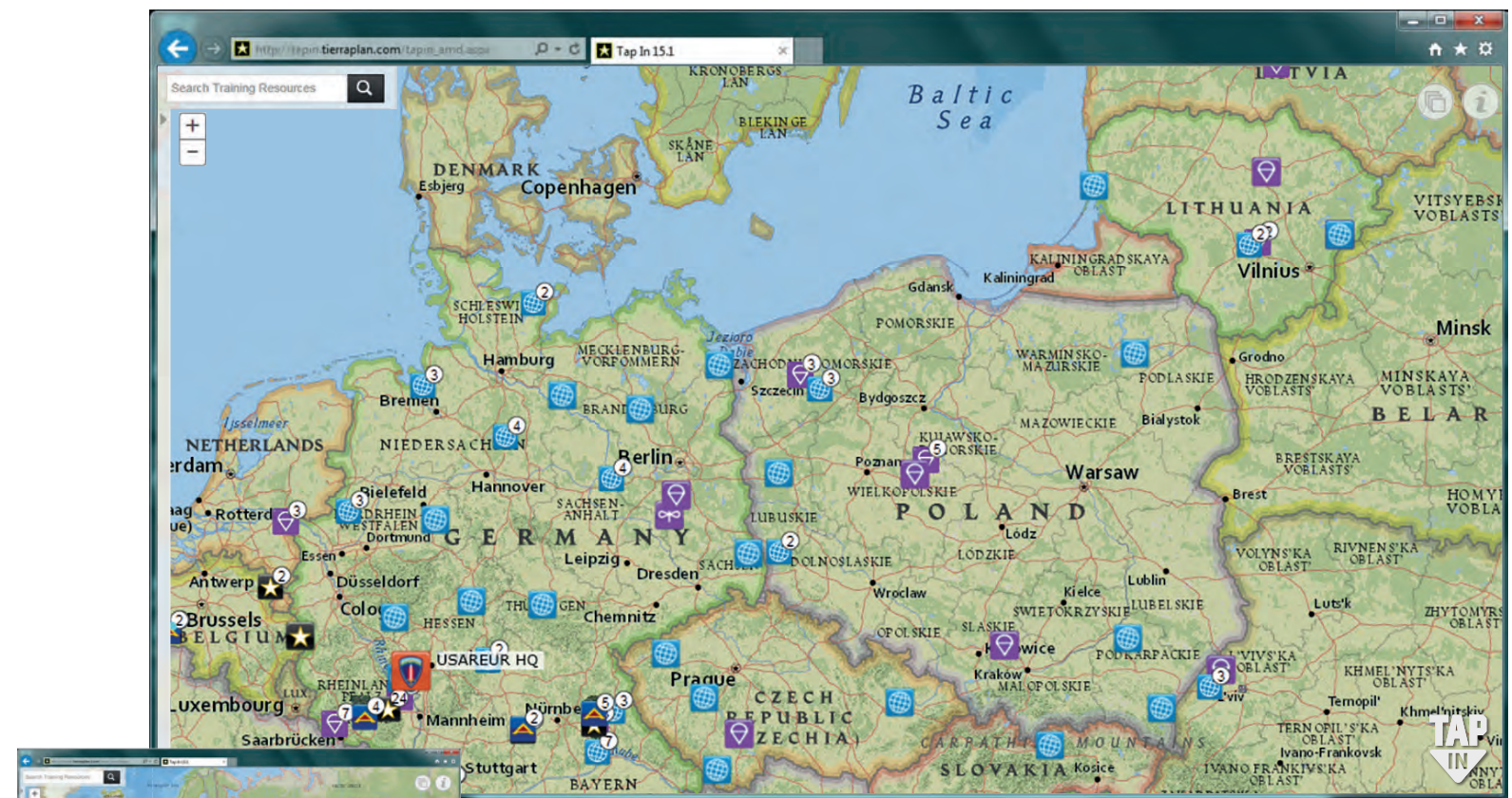
Similar to "Google Maps", the TAP IN portal provides maps, training resource information and scheduling information for over 800 facilities.





# TAP IN

USAREUR's most powerful resource for training planners



**891**  
TRAINING  
CAPABILITIES

IN  
EUROPE  
AND  
AFRICA

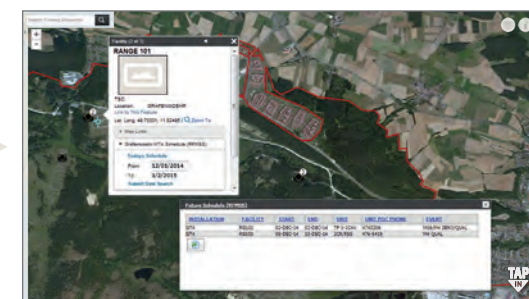
- >> TRAINING AREAS
- >> AIRFIELDS
- >> RANGES
- >> TADS
- >> DZs
- >> LZs

# PLAN TOMORROW

📍 SEARCH FOR A RANGE



📅 CHECK SCHEDULE



✅ GET RESOURCES

- MAPS
- ACCESS MAPS
- SOPs
- AARs
- RESOURCE LIBRARY

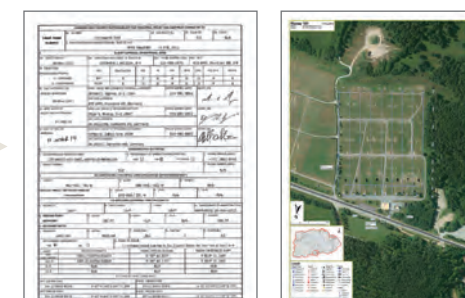
📅 LINK TO RFMSS

# PLAN OUT

⊕ RECON A REGION



👤 ZOOM TO DZs AND RANGES



📄 GET RESOURCES

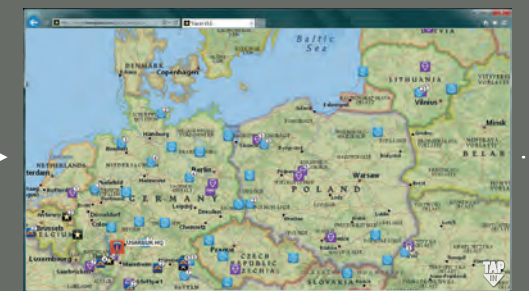
- TOPO MAPS
- ACCESS MAPS
- IMAGE MAPS
- LZ SURVEYS
- SOPs
- AARs
- RESOURCE LIBRARY
- DZ SURVEYS

>> GET IT NOW!

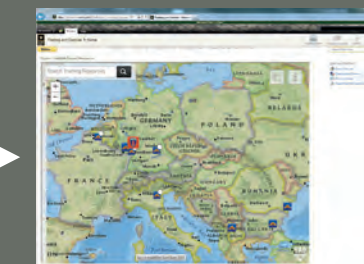
ON YOUR UNIT'S  
SHAREPOINT  
OR WEBSITE



📞 CALL 475-ITAM OR EMAIL [USAREUR.SRP.CONTACT@US.ARMY.MIL](mailto:USAREUR.SRP.CONTACT@US.ARMY.MIL)



🕒 EMBED (10 MINUTES)





# JMRC Hohenfels

Strong support from both Department of Army and U.S. Army Europe enabled USAREUR ITAM to execute multiple high-impact projects. ITAM Coordinators and Training Support Center staffs were responsible for coordination and management of 18 land management projects covering most of USAREUR's training areas.

The majority of land repair and maintenance projects occurred at the Joint Multinational Readiness Center (JMRC) Hohenfels Training Area. ITAM projects ensure the availability, accessibility and capability of JMRC Hohenfels training land platform remains maximized.

18  
USAREUR  
LAND REPAIR  
PROJECTS  
IN 2014

162 km<sup>2</sup>



### REPAIR TRAINING DAMAGES

Repaired damages to basins, dams and other erosion control infrastructure that resulted from heavy maneuver training activities (off-road). Damages included broken culvert aprons, damaged basin spillways, and damage to clay lining when vehicles drove into basins and got stuck, including damages caused by recovery operations.

### MAINTAIN DROP ZONES

Included removal of woody vegetation growth, repair of soil erosion and removal of abandoned equipment and targets within Panzer, Mud Hut and Hohenfels DZs to enhance safety.



### REACTIVATION OF REHABILITATED OFF-LIMITS AREAS

Mapped and/or verified locations of existing Seibert Stakes, forestry stakes, nursery fencing and other human-erected management features, including boulders and berms made of earth or root wads that limit training maneuvers and access.



### LAND COVER RECONFIGURATION

Addition of irregular crop fields, drainage ditches, terracing and other land cover complexities in order to replicate operational environment anthropogenic conditions.



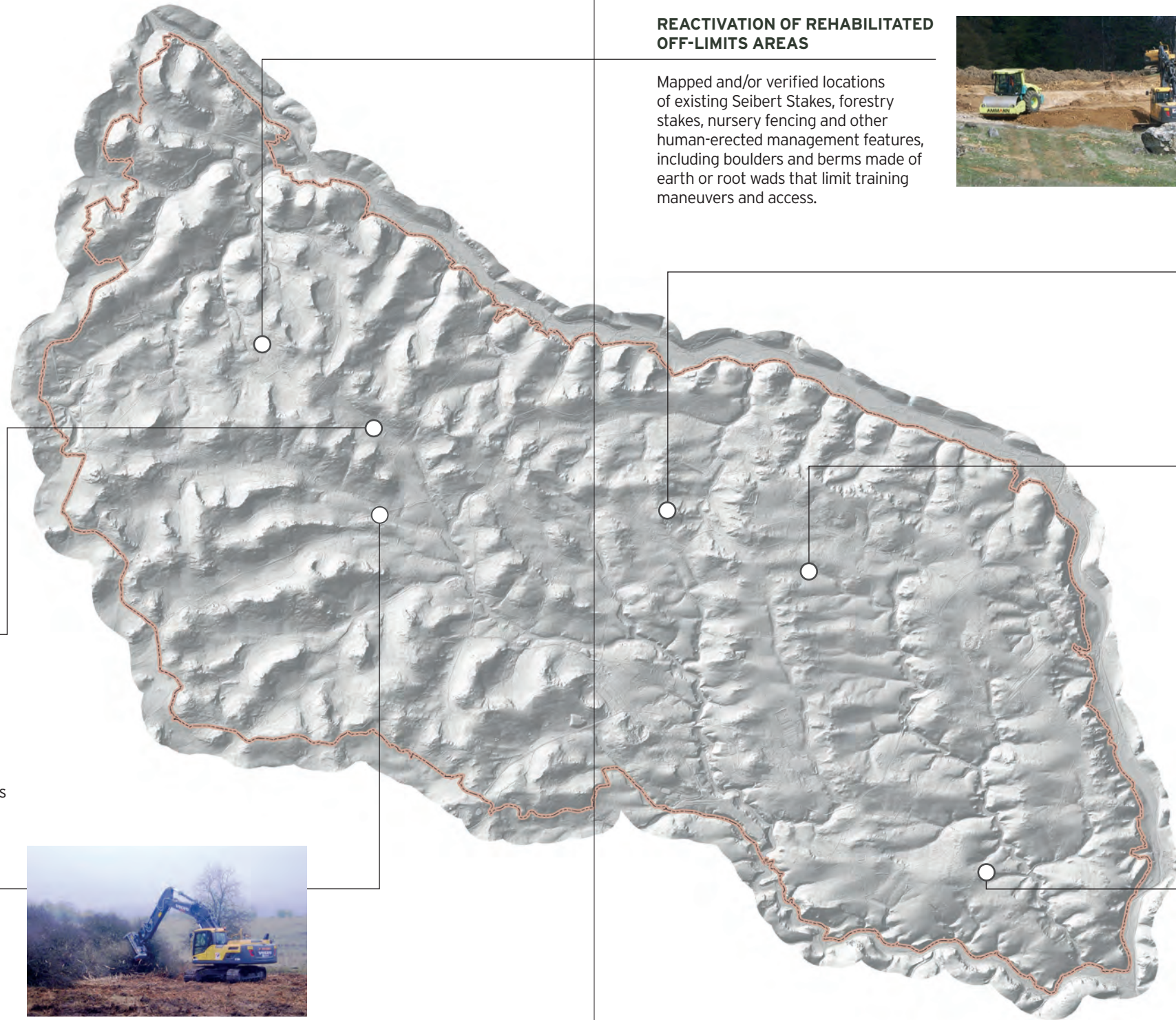
### MANEUVER AREA REACTIVATION

Repaired maneuver trails in forested areas to provide natural obstacles, cover and concealment. Area A repair work consisted of 50 m of damaged trail east from CP 4 to west side of Mud Hut Village, 200 m of damaged trail east of Basin B11 and 100 m of trail located between CP 8 and 48. Area B work included repair of sections along a 400 m trail south of CP 42, 100 m trail repair east of CP 20 and 500 m near UO Schwend. Area C work included repair of 300 m of trail west of CP 26.



### SETTLING BASIN REPAIR AND MAINTENANCE

Repaired and maintained check basins, including removal of vegetation overgrowth, sludge, humus and other debris. Additional work included repair of concrete overflows, standpipes and other appropriate infrastructure.





# Grafenwoehr

Grafenwoehr Training Area, the U.S. Army's largest live-fire training area outside the United States, includes two multi-purpose range complexes, 44 small arms/large caliber computerized ranges, two impact areas for 71 indirect firing points and many other world-class facilities.

U.S. Army Garrison Bavaria resources have helped ITAM realize significant cost efficiencies in execution of land repair and maintenance projects throughout the training area.

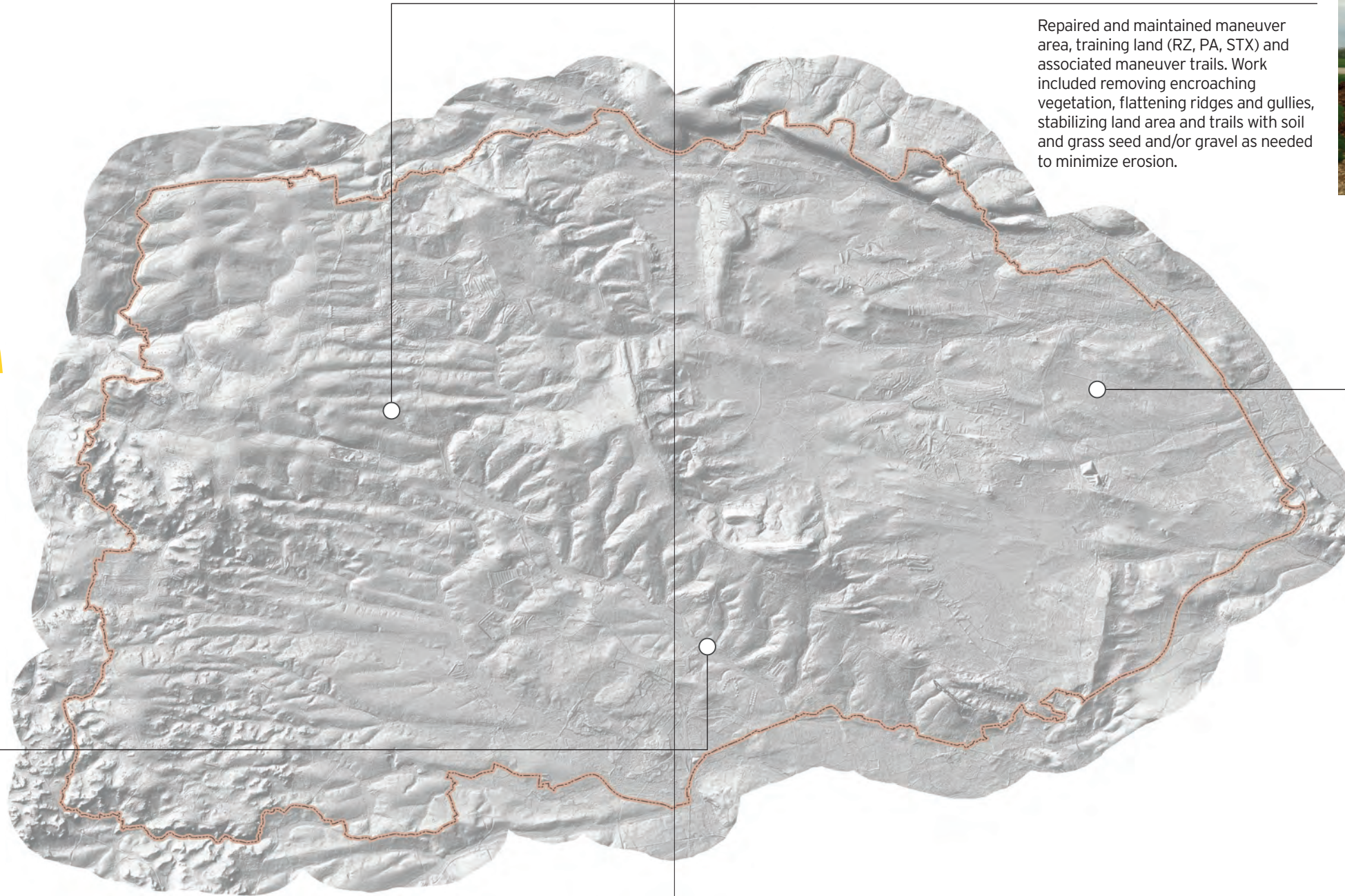


### MAINTENANCE AND EXTENSION OF TROOP MARCHING TRAIL

Upgraded, repaired and maintained portions of the existing Troop Marching Trail network. Included installation of 1.5 km of new trail at Range 132, repair and maintenance of 5 km of existing trail, procurement and placement of marking posts along 10 km of trail.

24  
NATIONS  
TRAINED HERE  
IN 2014

57K  
TOTAL SOLDIERS  
TRAINED HERE IN 2014



### TRAINING LAND REACTIVATION AND LAND REPAIR

Repaired and maintained maneuver area, training land (RZ, PA, STX) and associated maneuver trails. Work included removing encroaching vegetation, flattening ridges and gullies, stabilizing land area and trails with soil and grass seed and/or gravel as needed to minimize erosion.



### BULK MATERIALS

Procurement of land repair and maintenance bulk materials (i.e. stakes, top soil, seed gravel and so on) and signage in support of tasks executed by in-house resources on maneuver land.



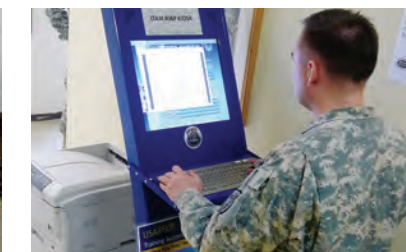
### COMPREHENSIVE GIS

Included satellite imagery procurement for select training areas, land repair mapping surveys and off-limits areas mapping surveys.



### KIOSK SUSTAINMENT

Provided sustainment for the seven existing ITAM map kiosks located at various USAREUR Training Support Centers. Sustainment included maintenance support and interface updates.



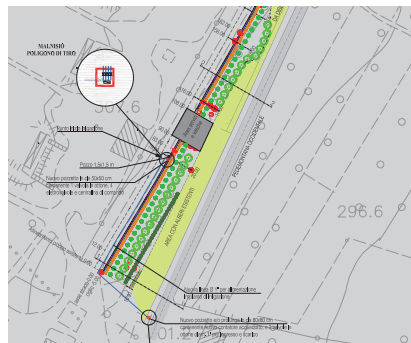
### LRAM HEAVY EQUIPMENT

Purchased tractor and attachment to ensure land repair is supported through in-house efforts.



# Italy and Multinational Support

From Belgium to Italy, ITAM supported multinational training initiatives and training area sustainment projects at a wide range of Local Training Areas. Work included execution of three major land repair projects and dozens of geospatial and Sustainable Range Awareness projects at LTAs in southern Germany and Italy.



## CAO MALNISIO SUSTAINMENT OF VEGETATION SCREEN

Maintenance of 750 m of vegetation screen in order to facilitate erosion control.

## BRUSSELS

Provided briefings at the NATO Environmental Protection Working Group and Joint Geospatial Standards Working Group meetings.



## AERIAL IMAGERY

Procured 2014 aerial imagery (0.25 m true color) of JMRC Hohenfels and select LTAs in order to update USAREUR GIS repository.



## CAO MALNISIO REPAIR MANEUVER TRAIL

Repaired trail at Cao Malnisio to facilitate unit movement and maneuver from the range complex to the upper maneuver areas. Damage had been caused by runoff and vehicle maneuvers.



## BERLIN

Provided USAREUR Training Support Activity Europe overview, including TAP IN, at the NATO Training Group - Army Service Task Group meeting.



## PODGORICA, MONTENEGRO

Supported EUCOM "Environmental Considerations in Military Operations Information Exchange" Workshop with representatives of Montenegro, Kosovo, Albania and Croatia Ministries of Defense.





# Operation Atlantic Resolve

ITAM has applied a number of environmental protection best management practices in support of Operation Atlantic Resolve (OAR) training areas. In addition to maps and Soldier's Field Cards, ITAM supported a maneuver trail project at Novo Selo Training Area in Bulgaria.

"NATO, INCLUDING THE UNITED STATES, WILL DEFEND ESTONIA, WILL DEFEND LATVIA, WILL DEFEND LITHUANIA, WILL DEFEND ALL OF OUR NATO ALLIES. WE STAND TOGETHER. WE STAND AS ONE."

President Barack Obama  
September 5, 2014

## RIGA, LATVIA

Supported EUCOM "Environmental Considerations in Military Operations Information Exchange" Workshop with environmental specialists from the Latvian Ministry of Defense (MOD).



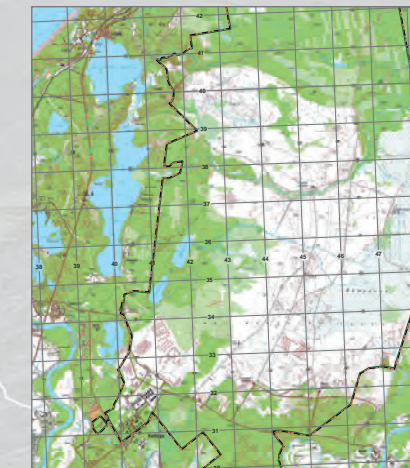
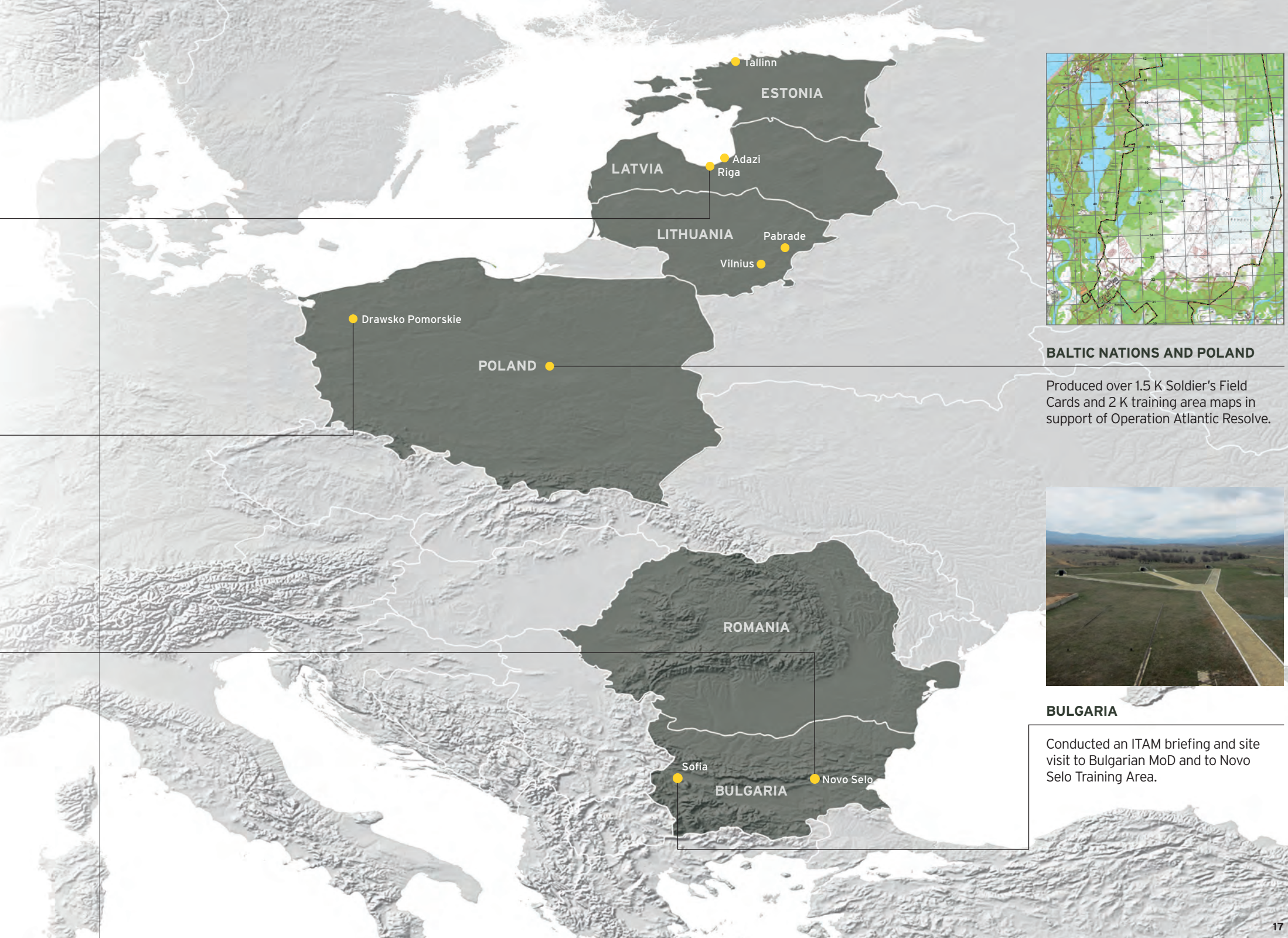
## POLAND

Conducted review of the Drawsko Pomorskie Soldier's Field Card and Installation Map with Polish Land Forces and installation subject matter experts.



## NOVO SELO TRAINING AREA

Initiated project to repair 2.6 km of major trail and 420 m of minor trail by installing a crushed rock surface, removing and disposing of old surface material, and reshaping drainage channels.



## BALTIC NATIONS AND POLAND

Produced over 1.5 K Soldier's Field Cards and 2 K training area maps in support of Operation Atlantic Resolve.



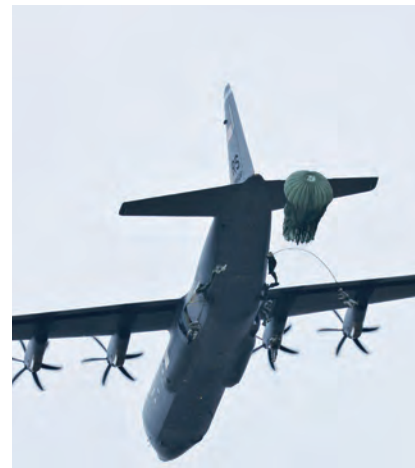
## BULGARIA

Conducted an ITAM briefing and site visit to Bulgarian MoD and to Novo Selo Training Area.



# Africa

ITAM provides subject matter experts in support of U.S. Africa Command theater security cooperation events which build partner capacity and dialogue through defense-related environmental topics. ITAM also creates training aids in support of Africa-based training events.



## DROP ZONE SURVEYS

In cooperation with U.S. Air Forces in Europe, ITAM added 55 Air Force surveyed drop zones and landing zones to TAP IN.



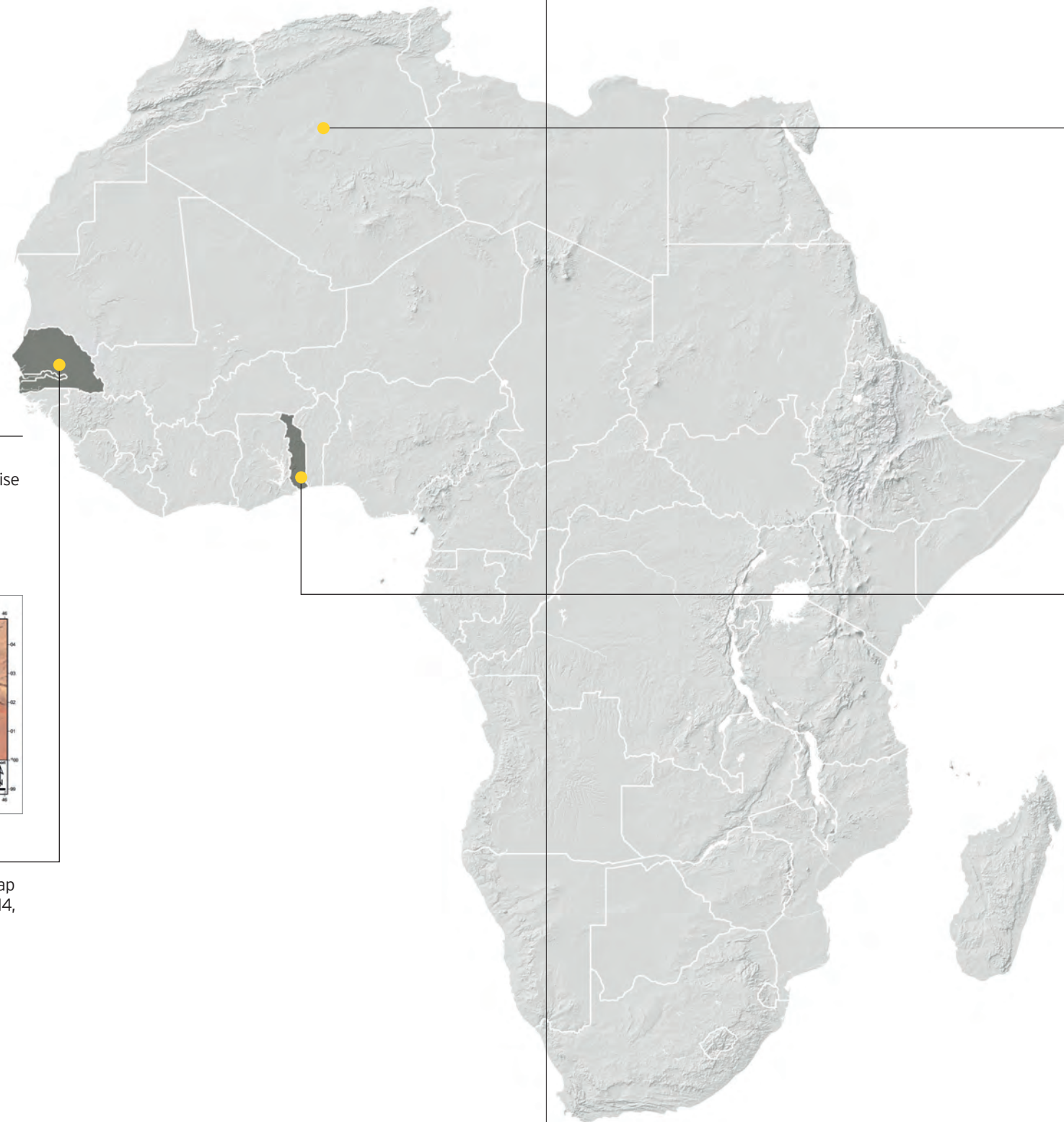
## ENVIRONMENTAL OFFICER TRAINING

Environmental Officer (EO) Course Scoping. Provide subject matter expertise on development of an EO course certification for African militaries.



## SENEGAL

Produced Mont Rollan Training Area map in support of Exercise Western Accord 14, sponsored by U.S. Africa Command.



## RAISED RELIEF MAP

Produced Raised Relief Map of Northern Africa in support of USAFRICOM exercises and training events.



## AFRICOM / UNEP TOGO EVENT

The USAFRICOM - United Nations Environmental Program Environmental Symposium in Lomé, Togo provided an excellent opportunity to discuss ITAM-related topics with a large mix of military and non-military representatives.



# 2014 by the Numbers

**4,000**

Soldiers from 19 NATO and European partner nations participated in Combined Resolve III

**30,000+**

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

**20,000+**

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

**51**

Countries in the USAREUR Area of Responsibility

SIZE IN KM<sup>2</sup>



NUMBER OF NATIONS TRAINING IN FY14



U.S. SOLDIERS TRAINING FY14



MULTINATIONAL SOLDIERS TRAINING FY14



## 2014 TRAINING SUPPORT WEBSITE STATISTICS

SITES	HITS	PAGE VIEWS	VISITS	UNIQUE VISITORS	AVG. VISIT LENGTH (mins)
armyrangemapper.eur.army.mil	1,087,652	432,348	15,214	5,017	13:02
srp.usareur.army.mil	160,687	75,331	4,072	1,982	06:70
<b>TOTAL</b>	<b>1,248,339</b>	<b>507,679</b>	<b>19,286</b>	<b>6,999</b>	<b>09:86</b>

APPLICATIONS	HITS	PAGE VIEWS	VISITS	UNIQUE VISITORS	AVG. VISIT LENGTH (mins)
TAP IN	177,415	55,299	3,855	1,005	07:39
TAP IN (Sharepoint)	244,459	58,205	8,241	2,014	04:00
Army Range Mapper	104,818	19,671	1,496	602	03:54

TAP IN Sharepoint Deployments >> 21

## 2014 MOBILE APP DOWNLOAD STATISTICS

	SOLDIER'S FIELD CARD	ARM MOBILE	ENVIRONMENTAL OFFICER GUIDE	TOTAL DOWNLOADS
iOS (Apple)	1,452	1,686	530	3,668
Android	326	100	135	561

## 2014 GIS SUPPORT STATISTICS

**109**

Technical GIS support requests completed by the USAREUR SRP GIS Team

**32**

New aerial, satellite and topographic imagery datasets acquired by the USAREUR SRP GIS team

**18**

Installation, industry and training events attended or hosted by the USAREUR SRP GIS Team

**25,500**

Military Training Area Maps printed to support training in USAREUR

**23,100**

Soldier's Field Cards printed for distribution throughout USAREUR

**18**

New or updated Soldier's Field Cards created

**567**

GIS / Map data requests submitted, processed and completed

**1,785**

ITAM Viewer DVD sets distributed throughout USAREUR

**15**

SOPs, reports, plans and best management practice documents created by the USAREUR SRP GIS Team

**14**

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

**4**

RTLTP range modernization projects supported by SRP GIS

**14**

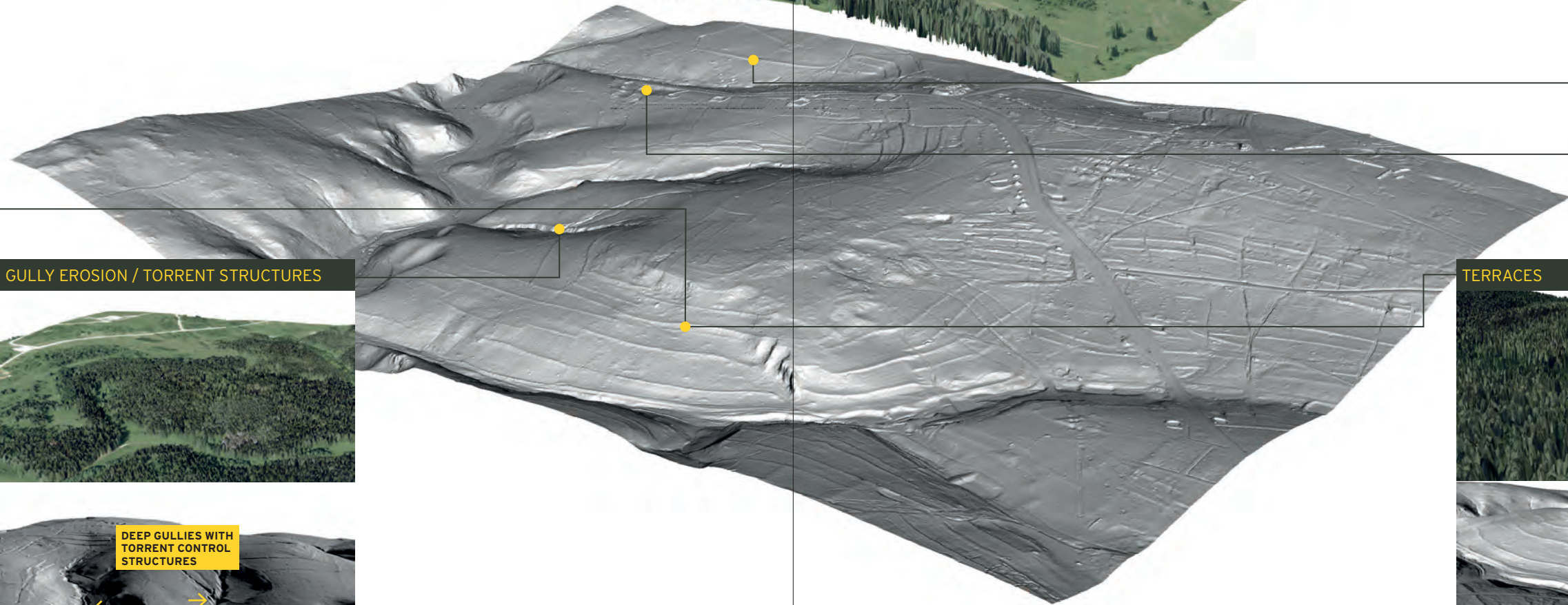
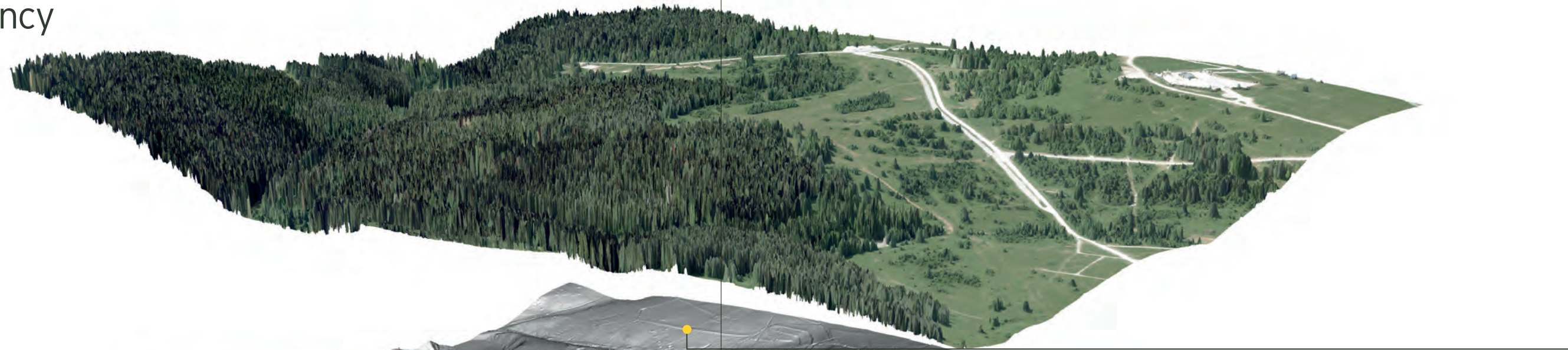
Site visits to USAREUR and host nation training areas for GIS data collection, coordination and validation.



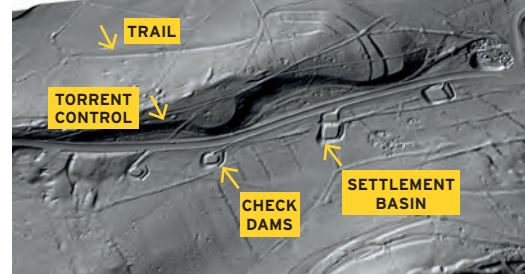
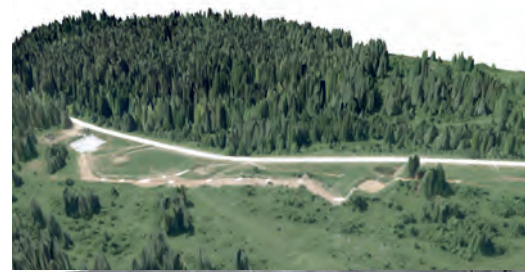
# Terrain Transparency

Since 2004, ITAM has relied on powerful LiDAR (Light Detection and Ranging) remote sensing technology to create digital surface and terrain models of USAREUR training areas. LiDAR measures elevation by illuminating a target (e.g. ground, tree, building) with a laser from an airborne platform and analyzing the reflected light.

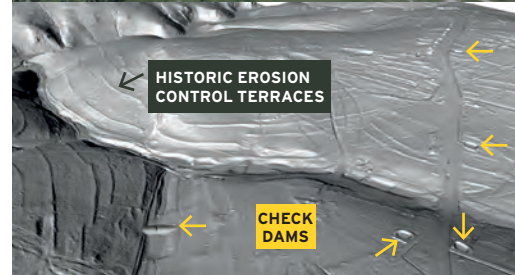
In this example, LiDAR data highlights numerous historic and recent erosion control features within the Haasla area of JMRC Hohenfels. The examples on this spread show how LiDAR technology can be used to detect structures that are covered by vegetation.



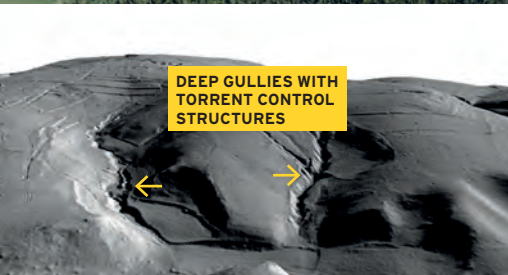
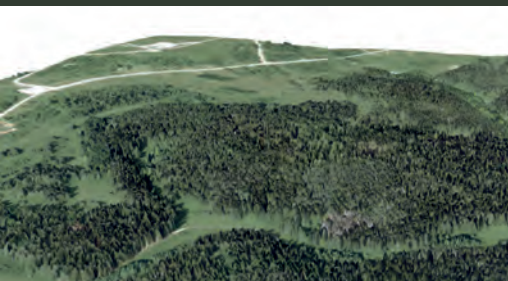
OVERGROWN MANEUVER TRAILS



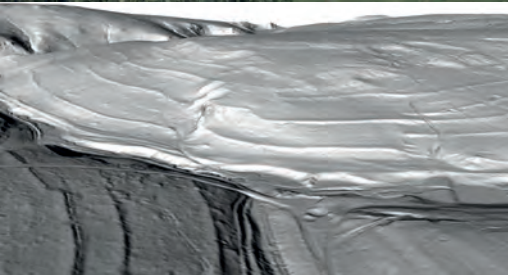
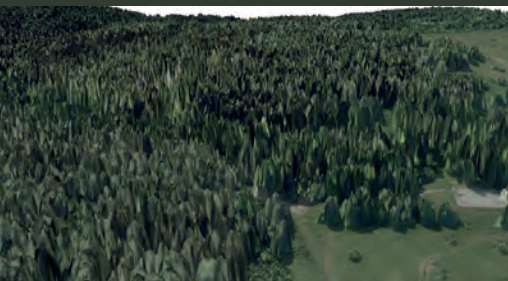
HISTORIC TERRACES



GULLY EROSION / TORRENT STRUCTURES



TERRACES



CHECK DAMS

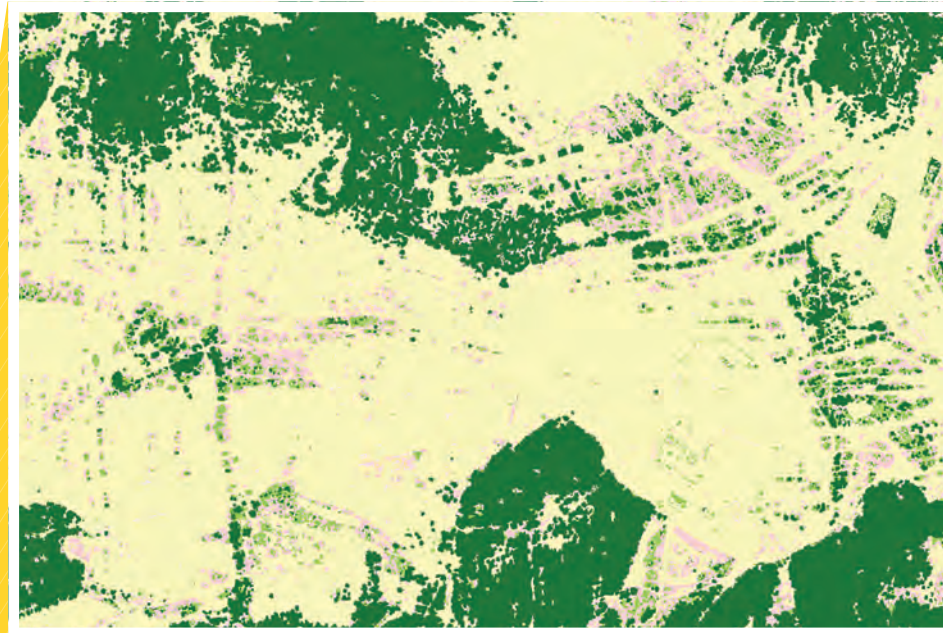




# Evaluation Monitoring

LIDAR has also been used to monitor land use and land cover changes. Comparison analysis of temporal LiDAR datasets coupled with multispectral imagery highlights distribution and growth rates of woody vegetation, a significant encroachment issue for open maneuver land. Findings strongly support prioritization of ITAM land maintenance activities.

Object-based image analysis yielded reliable and cost-effective information regarding the status of shrub encroachment. The results allowed for enhanced planning and control of future activities by, e.g., more effectively locating and calculating the size of suitable areas for clearance cutting; providing polygons and coordinates to GPS-guided machines; and minimizing on-site support to contractors by improving area prioritization, designating special focus areas, estimating time and material needs and costs and directing contractors' work and invoicing.



## Vegetation Classification

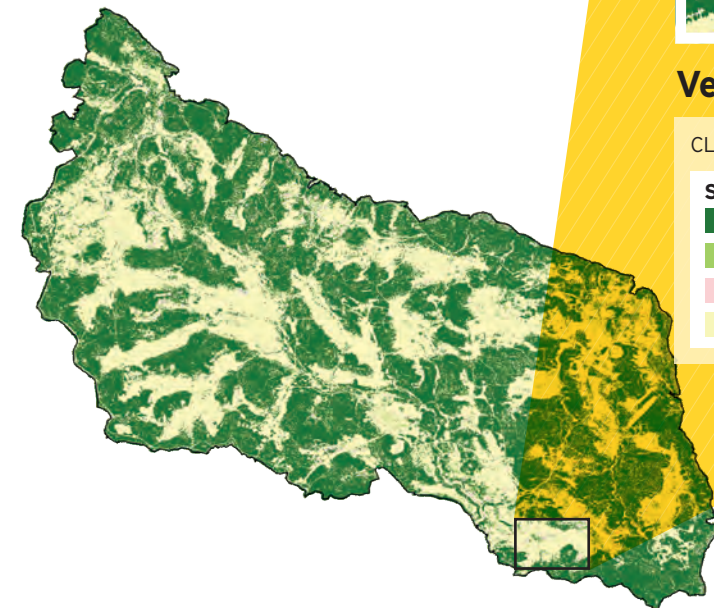
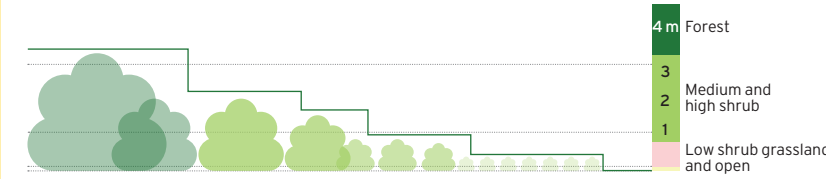
### CLASSIFICATION RESULTS FOR 2012

**Status 2012**

- Forest
- Medium and high shrub
- Low shrub
- Grassland and open

HEIGHT CLASSES	% OF CLASSIFIED AREA 2007	% OF CLASSIFIED AREA 2012
4 m	51.7	50.4
3	1.6	2.4
2	5.7	6.8
1	41.1	40.4

### HEIGHT CLASSIFICATION 2007 & 2012



## BENEFITS OF LAND MANAGEMENT

SHRUB STATUS	LOW	MEDIUM	HIGH
<b>Management action</b>	Grazing, mowing, training activities, spot burning	Mowing, mulching, large-scale burning	Mechanical removal
<b>Approximate cost*</b>	30,000 USD/km <sup>2</sup>	55,000 - 700,000 USD/km <sup>2</sup>	400,000 - 1,000,000 USD/km <sup>2</sup>

\* Costs calculated following FRIELINGHAUS 1998, TAMPE AND HAMPICKE 1995, KELLERMANN AND REINÖHL 1997, LUICK 1995 and DLZ 1994



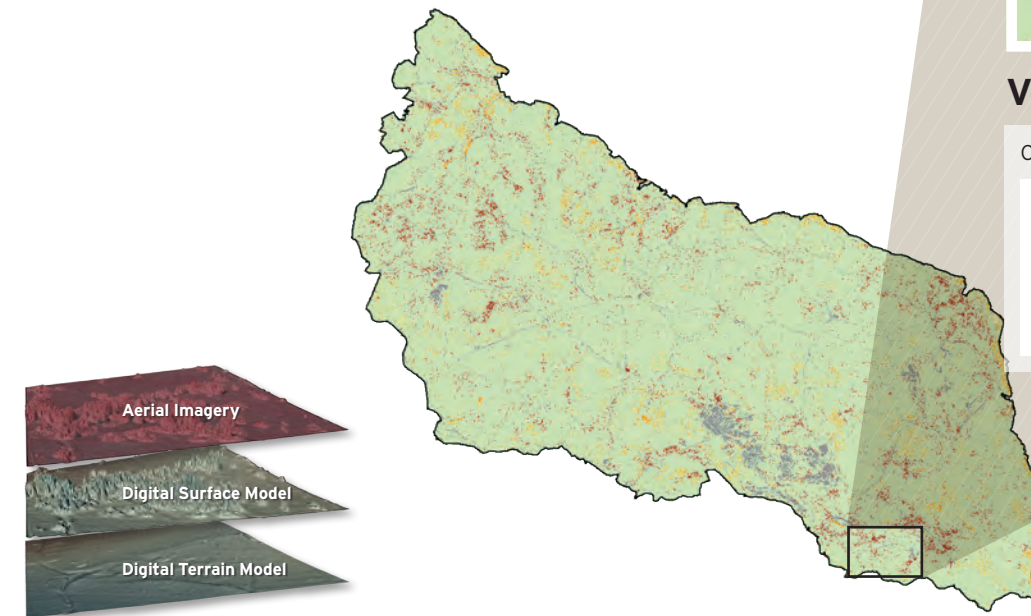
## Vegetation Change Analysis

### CHANGE ANALYSIS

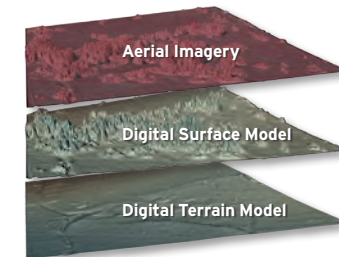
**Shrub Encroachment 2007 - 2012**

- No change
- Moderate change
- Significant change
- Infrastructure

CHANGE (%)	Value
No change	88.7
Moderate change	3.8
Significant change	4.2
Infrastructure	3.3

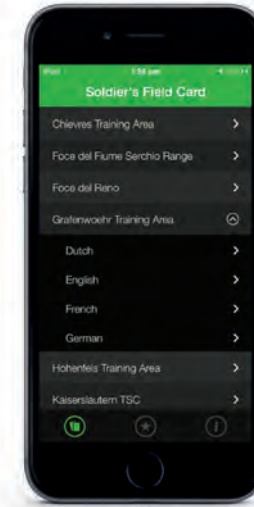
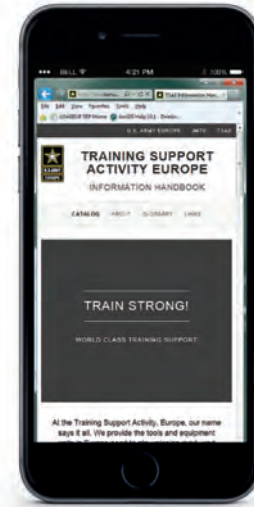
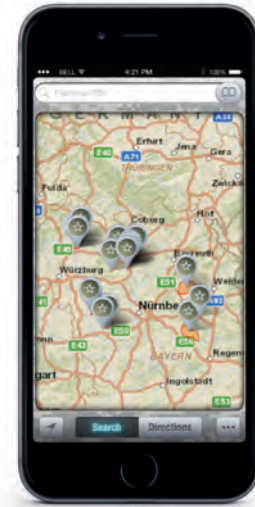


2007 - 2012	GRASSLAND AND OPEN	LOW SHRUB	MEDIUM AND HIGH SHRUB	FOREST
Grassland and open	Grassland and open	Shrub grown	Shrub grown	LiDAR data error
Low shrub	Mulched	Shrub constant	Shrub grown	LiDAR data error
Medium and high shrub	Mulched	Shrub constant	Shrub constant	New forest
Forest	Clear cut	Clear cut	Forest	Forest constant





## Mobile Apps



SEARCH BY KEYWORD  
"USAREUR"



Coming  
Soon



USAREUR Coverage



Maps



Products & Services Catalog



Multilingual



Price

FREE

FREE

FREE

FREE

Highlights

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

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

- » Theater and Expeditionary Capabilities
- » Training Support Centers
- » Training Aids, Devices, Simulators
- » Ranges and Training Areas

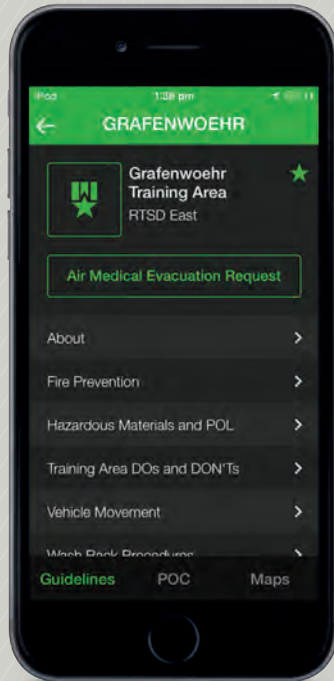
- » Training Area "Best Practices" Reference
- » 20+ Field Cards
- » MEDEVAC & Safety Information
- » POCs

## SOLDIER'S FIELD CARD Sample Functionality

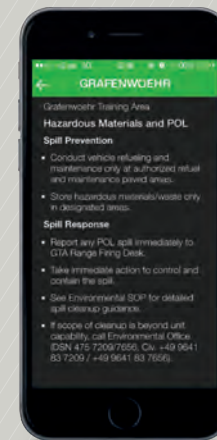
MAPS >>



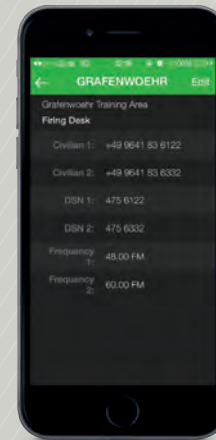
MEDEVAC >>



REPORTING  
POL SPILLS >>









EMERGENCY  
NUMBERS &  
FREQUENCIES >>



VENOMOUS  
SNAKES >>





EVENT	DATES	LOCATION	PARTNERS	
NATO 101 Orientation Course	3/10/2014	Grafenwoehr		
NATO Environmental Specialist Training Team	3/24/2014	Ingolstadt		
NATO Army Service Task Group	5/5/2014	Berlin		
NATO Environmental Management for Military Forces Course	5/8/2014, 10/16/2014	Oberammergau		
NATO Geospatial Orientation Course	9/21/2014	Oberammergau		
NATO Environmental Protection Working Group	12/8/2014	Brussels		
G3 / S3 Conference	2/10/2014	Grafenwoehr		
Company Commander First Sergeant Course	2/26/2014, 4/30/2014, 6/4/2014, 8/20/2014	Grafenwoehr		
DPW Environmental Maintenance Tour Support	2/26/2014, 4/23/2014	Grafenwoehr		
Range and Training Area Working Group	3/19/2014, 6/10/2014, 9/24/2014, 10/12/2014	Grafenwoehr		
Training Area Working Group	4/03/2014, 11/20/2014	Hohenfels		
Grafenwoehr Rugged Terrain Obstacle Run	4/12/2014	Grafenwoehr		
ITAM Viewer Training	4/18/2014	Grafenwoehr		
Amt fuer Geoinformationswesen der Bundeswehr Site Visit	4/28/2014	Euskirchen		
German TRADOC Commander Site Visit	4/30/2014	Grafenwoehr		
Sustainable Range Program Workshop	5/12/2014	Grafenwoehr		
TSAE Organizational Inspection Program	5/19/2014	Grafenwoehr		
NBC Network Grafenwoehr Tour	5/21/2014	Grafenwoehr		
Moroccan and Mauritanian Military Site Visit	5/28/2014	Grafenwoehr		
Sending States Forces Visit	6/26/2014	Grafenwoehr		
Esri User Conference	7/14/2014	San Diego		
Change of Command Ceremony Ecological Display	7/21/2014	Grafenwoehr		
RTSD West Organizational Inspection Program	7/21/2014	Baumholder, Stuttgart, Wiesbaden		
German Alliance 90 Political Site Visit	8/13/2014	Grafenwoehr		
Soldier Information EXPO	9/18/2014	Grafenwoehr		
Inter Service Range Safety Course	10/20/2014	Grafenwoehr		
Spain Delegation Site Visit	10/27/2014	Grafenwoehr		
Dutch Military Visit	11/13/2014	Grafenwoehr		
Theater Security Cooperation Event	2/24/2014	Bulgaria		
Nature Protection in Military Areas International Conference	5/13/2014	Hungary		
Theater Security Cooperation Event	5/28/2014	Montenegro	 	
EUCOM AFRICOM Defense and Intelligence User Group	6/9/2014	Stuttgart		
Theater Security Cooperation Event	7/21/2014	Togo		
EUCOM Environmental Workshop	9/16/2014	Ramstein		
Drawsko Pomorskie Theater Security Cooperation Event	11/17/2014	Poland		
SRP Web User Working Group	1/22/2014	Grafenwoehr		
HQDA Program Management Review	3/10/2014, 9/8/2014	Fort Eustis		

## Togo

ITAM supported a Symposium on Environmental Security challenges in the Gulf of Guinea. The event took place in Lomé, Togo July 22-25.

This symposium, co-sponsored by the United Nations Environmental Program (UNEP), engaged key Benin and Togo military and government authorities, including Environmental Protection Agency, Ministry of the Environment, Ministry of Energy, Natural Petroleum Corporations and other stakeholders.

The Symposium covered such varied topics as Global Environmental Security challenges (implication of climate change on international security and water security), sustainable training area management, waste management, contaminated land assessment and cleanup (mining) and environmental considerations during peacekeeping operations.

The objective is to promote interagency and multinational cooperation between military and non-military stakeholders in Environmental Security in the Gulf of Guinea Region.



HE Dr. Raphael Edou  
Minister of Environment, Republic of Benin.



Minister André Johnson  
Minister of Environment, Republic of Togo.



Gulf of Guinea pollution was a primary issue addressed.

1. Military representatives from Togo and Benin.
2. U.S. Ambassador to Togo, Ministers and UNEP led discussions.
3. 75 participants representing military and civilian organizations participated.
4. Interagency cooperation was strongly promoted.





**OPERATION ATLANTIC RESOLVE**

Site visits to host nation training areas and enhanced collaboration with host nation environmental and training support subject matter experts will support training land projects and facilitate revisions to the Soldier's Field Cards and Military Installation Maps.

UNCLASSIFIED

**ITAM Exercise Land Assessment**  
Saber Junction 14 (ROT 14-08)

Facts	Assets	Conditions																																		
<p>Type: NEOSDE (-) FTK</p> <p>Scenario: Atropa</p> <p>Design: RSOI-D-E-X-R</p> <p>Dates: 22 Aug-17 Sep 14</p> <p>LFKCALFEX: 31 Aug-10 Sep 14</p> <p>Special Factor:</p> <p># Partner Nations: 12</p> <p>Maneuver Sites:</p> <p>JMRC Hohenfels</p>	<table border="1"> <thead> <tr> <th>US</th> <th>MN</th> </tr> </thead> <tbody> <tr> <td>PAX: 2385</td> <td>2283</td> </tr> <tr> <td>ARTY: 9</td> <td>6</td> </tr> <tr> <td>Tanks: 6</td> <td></td> </tr> <tr> <td>IFVs: 48</td> <td></td> </tr> <tr> <td>APCs: 72</td> <td></td> </tr> <tr> <td>Aircraft: 19</td> <td>2</td> </tr> <tr> <td>Wheeled: 323</td> <td>268</td> </tr> </tbody> </table>	US	MN	PAX: 2385	2283	ARTY: 9	6	Tanks: 6		IFVs: 48		APCs: 72		Aircraft: 19	2	Wheeled: 323	268	<p><b>Pre-Exercise</b></p> <p>Open Area Land Condition: Green</p> <p>Maneuver Trail Condition: Green</p> <p>Overall Erosion Status: 0-20%; Green</p> <p><b>Exercise</b></p> <p>Daily Temperature: 50F/14C</p> <p>Evening Temperature: 40F/4C</p> <p>Precipitation: 8 cm</p> <p>Notes: None</p>																		
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<p><b>Post-Exercise Impacts</b></p> <p>Several fighting positions were excavated during Saber Junction 14. All trenches were backfilled completely and no further repair is required.</p> <p>Examples fighting positions before and after being backfilled.</p>	<p><b>Mitigation</b></p> <table border="1"> <thead> <tr> <th></th> <th>TRENCH</th> <th>DITCH</th> <th>SHOULDER</th> <th>TRAIL</th> </tr> </thead> <tbody> <tr> <td>Trench</td> <td>Green</td> <td>Green</td> <td>Green</td> <td>Green</td> </tr> <tr> <td>Ditch</td> <td>Green</td> <td>Green</td> <td>Green</td> <td>Green</td> </tr> <tr> <td>Shoulder</td> <td>Green</td> <td>Green</td> <td>Green</td> <td>Green</td> </tr> <tr> <td>Trail</td> <td>Green</td> <td>Green</td> <td>Green</td> <td>Green</td> </tr> <tr> <td>Open Area</td> <td>Green</td> <td>Green</td> <td>Green</td> <td>Green</td> </tr> <tr> <td>Forest</td> <td>Green</td> <td>Green</td> <td>Green</td> <td>Green</td> </tr> </tbody> </table> <p>Action: No further action is required.</p> <p>Training Impacts: No impacts to future training.</p> <p>Issues: ITAM will continue to monitor the trenches for erosion.</p>		TRENCH	DITCH	SHOULDER	TRAIL	Trench	Green	Green	Green	Green	Ditch	Green	Green	Green	Green	Shoulder	Green	Green	Green	Green	Trail	Green	Green	Green	Green	Open Area	Green	Green	Green	Green	Forest	Green	Green	Green	Green
	TRENCH	DITCH	SHOULDER	TRAIL																																
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STRONG SOLDIERS, STRONG TEAMS! UNCLASSIFIED Saber Junction 14 As of 29 Sep 14

**EXERCISE LAND ASSESSMENTS**

The JMRC Hohenfels and Grafenwoehr ITAM programs will continue to provide the Command immediate and detailed training land assessments following each major training exercise, to include Sabre Junction, Combined Resolve, Allied Spirit and Swift Response.

**TAP IN**



By the end of 2014, TAP IN will include over 1,000 military training facilities throughout the European and African continents. Deployment of TAP IN interfaces to continental U.S. and NATO partner units will continue in support of multinational exercises.

**NATO AND PARTNER INTEROPERABILITY**



ITAM will continue to provide Custodianship of STANAG 2549, "Best Environmental Protection Practices for Sustainability of Military Training Areas" and provide U.S. Army DAMO-TRS representation at the NATO Environmental Protection and Joint Geospatial Standards Working Groups.

**NOVO SELO, BULGARIA**



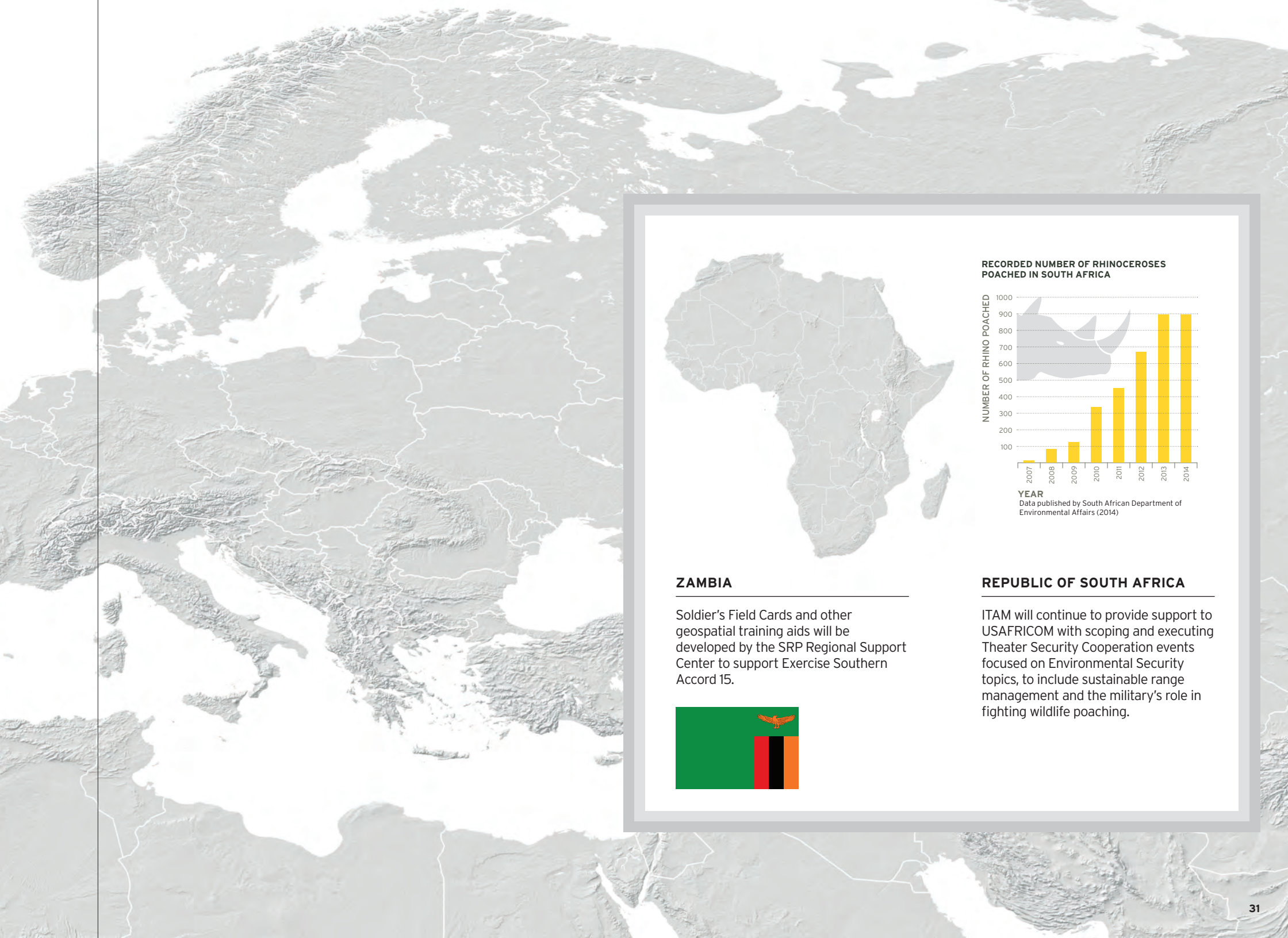
The first ITAM-funded project at Novo Selo - repair of over 4 km of maneuver trail - will be completed in late summer 2015. Potential follow-on ITAM projects will be scoped and coordinated with the host nation.

**SLOVENIA**

ITAM's close relationship with Slovenia's Land Forces will expand as military-to-military events continue to share sustainable range program best practices and experiences.

**NATURA 2000**

ITAM will share experiences and learn from other managers of Natura 2000 sites in military training areas by attending the "Improving of the conservation status of specially protected bird species in Natura 2000 site Adazi" on May 26-29, 2015 and by supporting other bi-lateral theater security events.



**ZAMBIA**

Soldier's Field Cards and other geospatial training aids will be developed by the SRP Regional Support Center to support Exercise Southern Accord 15.

**REPUBLIC OF SOUTH AFRICA**

ITAM will continue to provide support to USAFRICOM with scoping and executing Theater Security Cooperation events focused on Environmental Security topics, to include sustainable range management and the military's role in fighting wildlife poaching.

**RECORDED NUMBER OF RHINOCERUSES POACHED IN SOUTH AFRICA**

YEAR	NUMBER OF RHINO POACHED
2007	50
2008	100
2009	150
2010	350
2011	450
2012	650
2013	900
2014	900

YEAR  
Data published by South African Department of Environmental Affairs (2014)



**DEPARTMENT OF THE ARMY AND USAREUR CONTINUED TO PROVIDE STRONG FUNDING SUPPORT TO THE ITAM PROGRAM IN FISCAL YEAR (FY) 2014. THE ARMY SUPPORTS ITAM'S CRITICAL ROLE IN SUSTAINING AND ENHANCING THE USAREUR TRAINING LAND PLATFORM.**

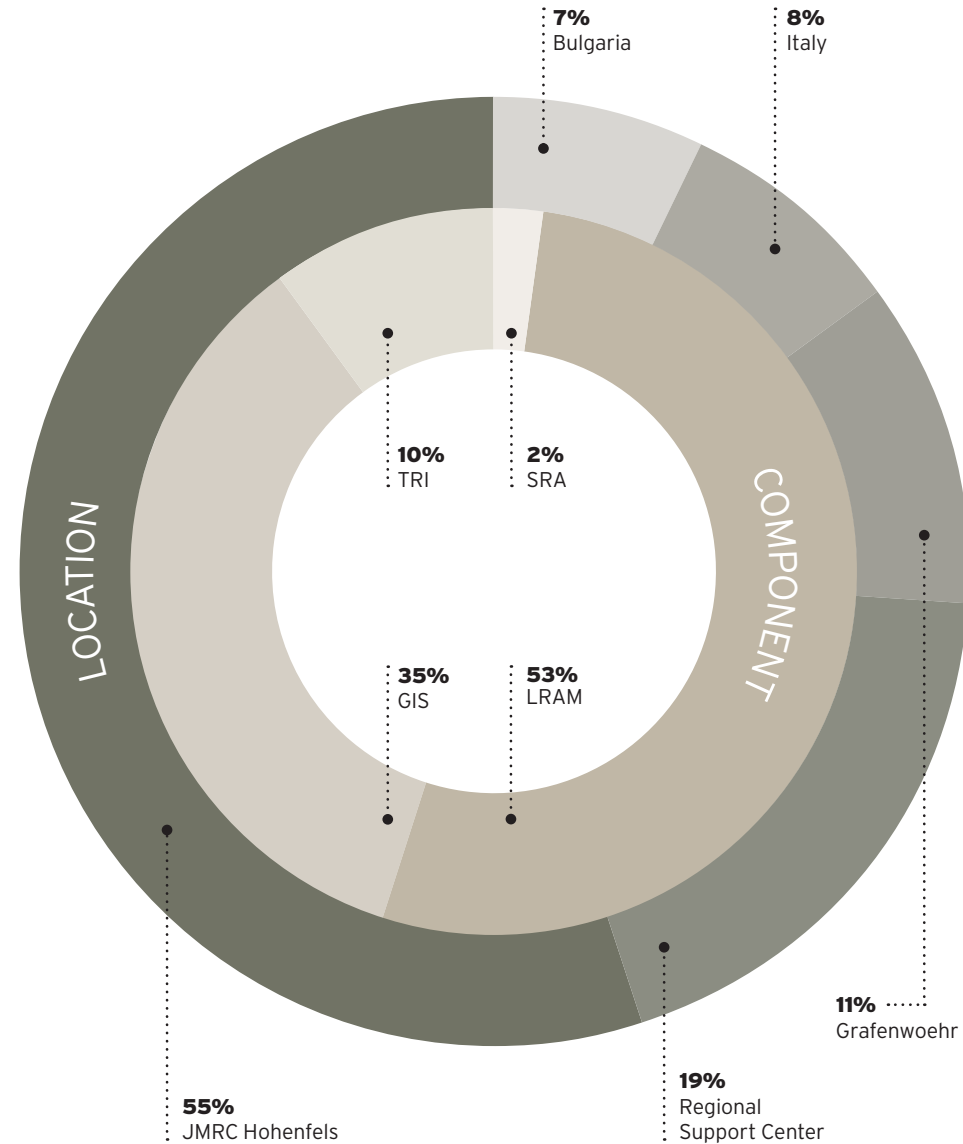
## LOCATION

Spatially, USAREUR ITAM funding continued to focus on the Major Training Areas: Grafenwoehr and JMRC Hohenfels. Two-thirds of program funding was executed at JMRC Hohenfels (55%) and Grafenwoehr (11%) training areas. ITAM also funded significant land repair projects in Italy (8%), as well as Bulgaria (7%). Execution of Sustainable Range Awareness and GIS support at the installation level and via the Regional Support Center's "hub and spoke" approach amounted to 19% of FY 2014 funding.

## COMPONENT

LRAM, with its training area land repair, maintenance and reconfiguration projects, continued to be the dominant USAREUR ITAM component (53%). Major Training Area and regional GIS support staff comprised the bulk of the SRP GIS component (35%) execution, followed by the Training Requirements Integration (10%) component. As in past years, the Sustainable Range Awareness component (2%) provided strong awareness for the Command with relatively minimal investment.

Detailed funding breakdowns are available upon request.



**"WHAT YOU ARE GOING TO SEE HERE IN EUROPE IS MORE ROTATIONAL CAPABILITIES COMING FORTH FROM THE STATES IN ORDER TO REINFORCE OUR ALLIANCES AS PART OF THE NATO RESPONSE FORCE. AND AS THAT CONTINUES TO GROW, YOU'LL SEE MORE AND MORE U.S. COMMITMENT TO THAT."**

Chief of Staff, U.S. Army,  
Gen. Raymond Odierno  
Nov. 4, 2014



