

U.S. Army Corps of Engineers

Europe District

BUILDING STRONG® in Europe and Africa

An Inside Look



Several Corps officers serve as liaisons to British High Command during WWII and help prepare air fields.

1941 Timeline

1974

USACE Europe Division established.



USACE Europe Division becomes Europe District after fall of Berlin Wall.

1991

Average annual program (2012 - 2016)



\$750 million

2007

Support to AFRICOM begins.

On the cover: Wale Adelakun, a U.S. Army Corps of Engineers Europe District special projects engineer, left, shakes hands with a village chief outside of the Matchatom Secondary School humanitarian-assistance project in Togo, April 28, 2014. The site visit also included representatives from U.S. Embassy Lomé, the construction contractor and the local community. Construction was completed in fall 2014, and it was funded by U.S. Africa Command and managed by Europe District. (U.S. Army photo by Jennifer Aldridge)

Contents

Commander's Foreword	1
AFRICOM and EUCOM Support	2
Installation Support	3
Missile Defense	4
European Infrastructure Consolidation	6
European Reassurance Initiative	8
Environmental Support	9
Medical Modernization	10
Schools for 21st Century Learning	12
Quality of Life	14
Overseas Contingency Operations	15
Partnerships	16
Working with Host Nations	17

Snapshot of Europe District



Support to more than

50 countries

Headquartered in Wiesbaden, Germany, the district supports EUCOM and AFRICOM (areas in yellow)

33 field offices in 12 countries

2,000 languages spoken within AFRICOM

DoD Disclaimer

"An Inside Look" is an unofficial, authorized publication of the Department of Defense that highlights programs and projects of the U.S. Army Corps of Engineers Europe District. Contents of the magazine are not necessarily the official views of, or endorsed by, the U.S. Government, the DoD, or the U.S. Army. The editorial content of this publication is the responsibility of the U.S. Army Corps of Engineers Europe District Public Affairs Office. Opinions expressed are not considered an official expression of the DoD or the U.S. Army. Questions can be directed to: DLL-CENAU-PA@usace.army.mil.

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Foreword

I'm reminded every day of the vital importance of the work we do at Europe District – whether it be through project meetings, stakeholder engagements or just watching world news.

The efforts of our district in the vast geographic area covered by U.S. European Command (EUCOM) and U.S. Africa Command (AFRICOM) help preserve regional stability and security, save lives, and create hope and prosperity for future generations. Our district is executing programs and projects within a rapidly-changing and dynamic security and geopolitical landscape with issues ranging from increased ballistic-missile threats to the flow of foreign fighters, and increased Russian aggression to fragile state governments trying to strengthen their nations.

The support we provide to EUCOM and AFRICOM includes humanitarian-assistance projects; military construction; counternarcotics and counterterrorism efforts; military training for foreign governments; export control and border security; support to U.S. Special Operations Command; and many more theater security cooperation and assistance projects. This work strengthens regional and global security for the United States and our allies, and enables U.S. foreign policy.

In Europe, the U.S., NATO and our allies are working to counter a resurgent Russia attempting to reclaim territory lost at the end of the Cold War and to rewrite global norms established by the U.S. and its allies. To aid in deterring Russian aggression, Europe District is doing its part by providing infrastructure that enables U.S. military forces, in larger numbers, to train and exercise more closely with nations located on the doorsteps of Russia.

Additionally, to further boost regional security in Europe, we are providing critical operational and support facilities, such as Aegis Ashore Ballistic Missile Defense complexes in Romania and Poland, and other engineer-related services in more than 20 European nations. Again, this work is designed to achieve the goals and objectives of the U.S., our allies and other close regional partner countries.

In Africa, regional security is threatened by many of the same pressures and challenges found in Europe; however, the size of the continent, harsh geography and lack of regional cooperation make the problem set far more difficult. Furthermore, the instability of many government institutions has created an environment ripe for extremist organizations to accomplish their goals through violence and terror.

Our support to AFRICOM's efforts to build government capacity in more than a dozen nations is strategically important to so many. Efforts include degrading Al-Shabaab in East Africa; countering the Islamic State in Libya and other North African nations; defeating Boko



Haram in Chad, Niger and Nigeria; and combatting narcotics trafficking in West Africa. Further complications from working in many African nations include contending with socioeconomic issues such as widespread poverty, high unemployment and civil unrest, and other challenges like the potential for natural disasters, widespread epidemics, and a lack of internal security.

In addition to supporting EUCOM and AFRICOM, we have a wealth of programs that assist our military service members abroad, including constructing and modernizing medical facilities; designing and constructing "schools for the 21st century" that serve thousands of children of military and civilian employees throughout Europe; enabling efficient military-installation operations and maintenance; and designing and constructing commissaries, family housing, lodging and recreational facilities to improve quality of life for service members, DoD civilians and their families.

Simply stated, our organization of approximately 450 employees, comprised of nearly 25 percent local national colleagues, working with thousands of contractors, helps make an amazing difference throughout Europe and Africa. We are proud to play such a vital role on two continents and in Israel, and strive to achieve excellence in delivering Europe District's programs and projects.

This publication provides a glimpse inside the breadth of the important work we accomplished over the past several years and will accomplish in the future for the United States, our allies, and our closest partners within EUCOM and AFRICOM.

ARMY STRONG...BUILDING STRONG®

COL Matthew R. Tyler

Commander and District Engineer
Europe District, U.S. Army Corps of Engineers

Theater Security Assistance and Cooperation
Boosting regional and global security for the United States, our allies and partners, and enabling United States foreign policy

AFRICOM Support

EUCOM Support

Humanitarian Assistance



School in Togo



Muscular dystrophy center in Tunisia



Asylum seekers center in Georgia



Fire station renovation in Latvia

Designing, renovating and constructing schools; medical labs and facilities; safe houses and asylum centers; fire and rescue stations; and water-supply systems

Foreign Military Sales

Facilitating sales of U.S. arms; defense equipment and services; and military training to foreign governments

- Border Posts in Djibouti
- Vehicle-maintenance facilities in Burkina Faso and Niger
- Airfield upgrade and refueling and operations facilities in Mauritania
- Boat ramp in Mombassa, Kenya
- Hangars in Wajir, Kenya

- Combat-training center renovations in Romania
- Wounded-warrior facility renovations in Georgia
- Physical-security enhancements at Zar military-training site in Armenia

Counternarcotics and Counterterrorism

Responding to, mitigating, or preventing terrorism and trafficking of narcotics. Support includes renovation of a Joint Drug Task Force facility in Sofia, Bulgaria

Support to Special Operations Command Africa; U.S. Army Africa; and U.S. Air Forces Africa

- Operations, multi-purpose facilities in Niger, Botswana, Kenya
- Range improvements in Senegal
- Runway, taxiways and parking aprons improvements in Niger

Millenium Challenge Corporation

- Power-distribution studies in Ghana
- Road-improvement studies in Benin
- Power and hygiene studies in Sierra Leone

U.S. Export Control and Border Security

Border post & radar tower construction; Poti Harbor dredging in Georgia

Special Operations Command Europe

Combat-diver facility renovations in Lithuania

Europe District supports and enables efficient military-installation operations and maintenance for U.S. Army Europe by providing full-spectrum master planning and construction project management, as well as logistical support to seven garrisons and more than 10 component service and agency partners.

In recent years, this program managed an annual average workload of \$160 million, with a focus on European Infrastructure Consolidation and European Reassurance Initiative projects.

The district's Installation Support Branch is divided into three sections: Planning, Project Design and Support.

The Planning Section assesses current and future installation mission and manning requirements, and creates a "playbook" of facility and infrastructure projects for integration into a master plan. These projects are sent to Congress for authorization and may result in new facilities and infrastructure to support service members.

The Planning Section also provides base and utility mapping, facility-utilization surveys, data migration, graphic-information-system support and other geographic-information-system

technology services to improve operational efficiency. Working across Europe, Planning Section staff travels to installations from the Azores to Turkey, and many more in between.

The Project Design Section provides cradle-to-grave project management primarily to Army Public Works directorates and European Command, Africa Command, USAREUR, Installation Management Command-Europe, Defense Health Agency, Department of Defense Education Activity-Europe, U.S. Air Forces in Europe and others throughout Germany, Italy, Belgium, Turkey, Bulgaria and Romania. The section includes project managers, architects, electrical engineers, mechanical engineers and drafters.

The Support Section administers an approximately \$50-million-per-year USAREUR Support Contract Program — overseeing services for contingency operations, military training and readiness exercises in Kosovo, Turkey, Romania and Bulgaria.

The contract program includes operations and maintenance work, logistics services and minor military construction in support of thousands of personnel throughout Europe.

Installation Support

Laundry-water recycling center, contracted by Europe District, at Camp Bondsteel, Kosovo, uses leading-edge technology to recover, treat and reuse water. (U.S. Army photo by Justin Ward)

- **Full design for small projects**
- **Contracting for force-protection construction**
- **Analysis for security needs**
- **Plans for area development**
- **Surveys for facility usage...**

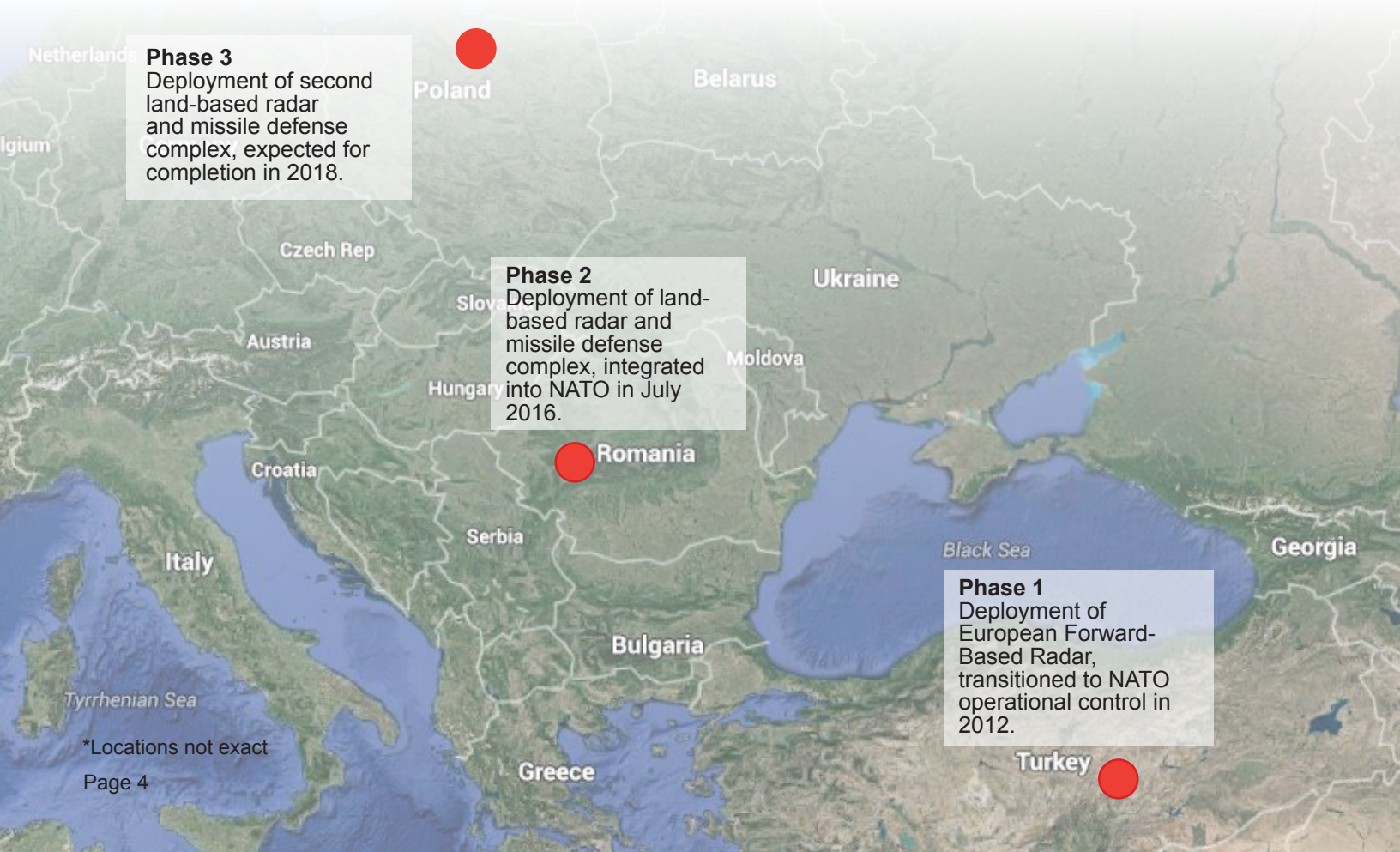
and more!

Missile Defense

Building Aegis Ashore

Aegis Ashore deck house support building, Naval Support Facility Deveselu, Romania. (By U.S. Naval Forces Europe-Africa/U.S. 6th Fleet)

In November 2010, NATO made the historic decision to endorse a missile defense capability to strengthen Europe's deterrence posture against the range of 21st-century threats, particularly from the Middle East. Europe District is supporting the U.S. Missile Defense Agency and the U.S. Navy in the construction of land-based ballistic-missile defense systems, which are nearly identical to the system used on Navy Aegis-capable guided-missile destroyers and cruisers to protect U.S. deployed forces and our European allies and partners from missile attacks. In 2009, President Obama announced this integrated "phased and adaptive approach" for missile defense in Europe.



*Locations not exact

Land-based radar and missile defense complex completed in Romania

U.S. and Romanian officials celebrated a major advance in NATO ballistic-missile defense, Dec. 18, 2015, during a ceremony in Bucharest.

Hans Klemm, U.S. ambassador to Romania, declared the \$170-million Aegis Ashore Phase II radar site and missile battery at Naval Support Facility Deveselu as technically capable.

This complex is designed to detect, track, engage and destroy ballistic missiles in flight.

All major military components of the system were handed over to the operational commander for integration into NATO's ballistic-missile defense architecture.

Europe District managed the construction of the system, working closely with the Missile Defense Agency, U.S. Navy and Romanian officials to complete the project within budget and to meet a U.S. Presidential mandate for operational capacity by December 2015.

Ground was broken to begin construction in fall 2013.

"Since that time, Romanian and U.S. officials have worked tirelessly to ensure military construction was

completed on time," Klemm said. "(This project) is the ideal example of why bilateral military relations between the U.S. and Romania are outstanding."

This missile site was built on an old 430-acre Romanian air base, which was re-designated as Naval Support Facility Deveselu in October 2014. It is manned by the U.S. Navy and equipped with an Aegis SPY-1 radar system and vertical-launch missile system, armed with long-range anti-air missiles.

Site-activation work consisted of construction of temporary offices, container-housing units, a warehouse and vehicle-inspection area. The total-system construction included security fencing, storage, infrastructure maintenance and support services. A large portion of the work also entailed Naval support facilities and infrastructure for U.S. military personnel, civilians and contractors who operate the site.

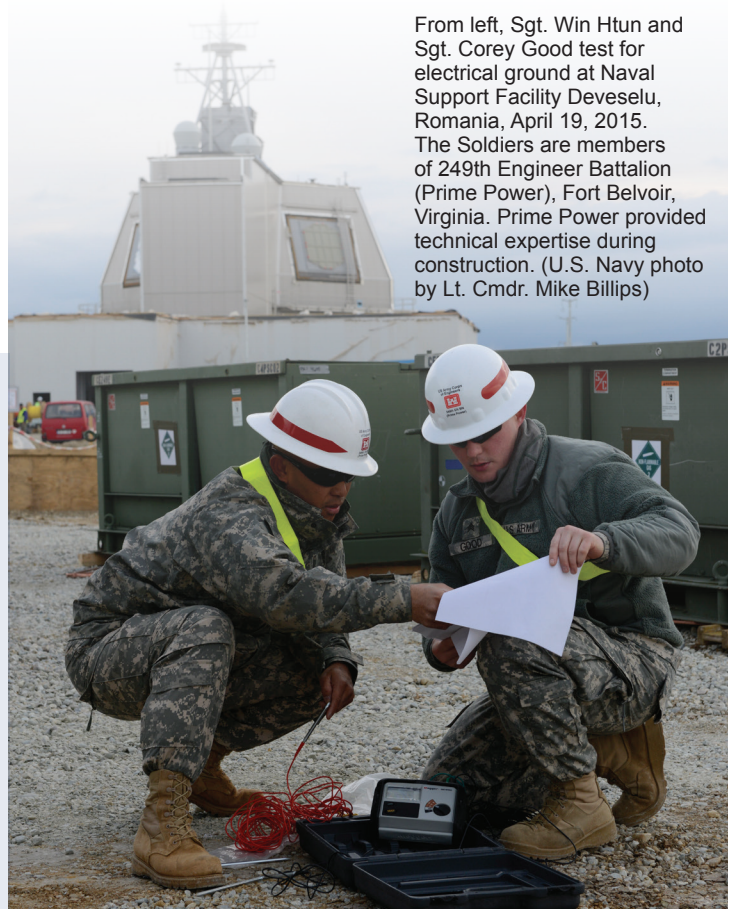
This complex is designed to detect, track, engage and destroy ballistic missiles in flight.

Poland Posture

Fast Facts

- Complex represents Phase III of Europe's missile defense system
- Complements Phase II completion in Romania and missile defense assets deployed on Navy destroyers based out of Spain
- ~ \$182-million construction contract
- Project location in Redzikowo
- Work began in spring 2016 and is expected for completion in 2018
- Up to 300 U.S. military personnel to be assigned here

From left, Sgt. Win Htun and Sgt. Corey Good test for electrical ground at Naval Support Facility Deveselu, Romania, April 19, 2015. The Soldiers are members of 249th Engineer Battalion (Prime Power), Fort Belvoir, Virginia. Prime Power provided technical expertise during construction. (U.S. Navy photo by Lt. Cmdr. Mike Billips)

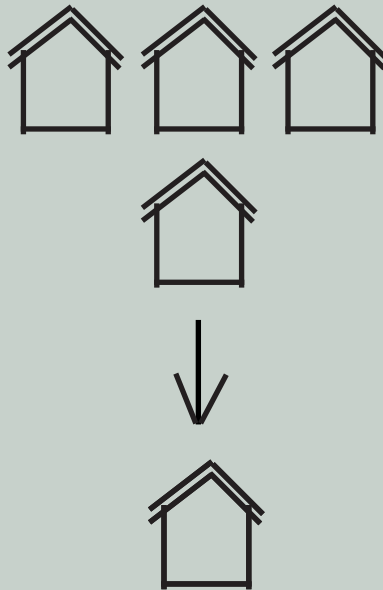




EUROPEAN INFRASTRUCTURE CONSOLIDATION

Goals

- *Effective positioning of U.S. presence in Europe to better support NATO allies*
- *Reduction in U.S. footprint where presence is not needed*
- *Increased efficiencies, security, readiness and sustainability*
- *Size = level of support required*
- *Reduction in operation and maintenance costs*



66 *In the end, this transformation of our infrastructure will help maximize our military capabilities in Europe and help strengthen our important European partnerships, so that we can best support our NATO allies and partners in the region.” - former U.S. Secretary of Defense Chuck Hagel (2013 - 2015)*

A Great Undertaking

Through European Infrastructure Consolidation (EIC), a process announced by the Department of Defense in January 2015 to save the U.S. government approximately \$500 million annually, the district is transforming and consolidating installations throughout Europe by 2022.

EIC actions include closure, partial closure, restructuring, consolidation, relocation, transformation, and site returns to host nations of installation components.

Europe District’s EIC workload includes more than 50 projects for the Army and Air Force, valuing more than \$540 million.

U.S. Army Garrison Benelux is one of the transformation programs Europe District is undertaking.

Benelux officials have the unique mission of consolidating their footprint in two countries -- Belgium and the Netherlands.

The garrison, with assistance from Europe District and Dutch Ministry of Defense, will execute a \$122-million program for the transformation.

Upon completion, one permanent and two leased sites on the garrison will close and all tenants will relocate to Chievres Air Base, Sterrebeek Annex, and Allied Joint Force Command Brunssum.

Europe District supports the garrison with planning, design and construction oversight of 10 transformation projects in Belgium.

Work includes renovating buildings and constructing new facilities for Department of Defense Education Activity-Europe, Benelux Directorate of Public Works and an auto-skills center.

Shortly after the DoD announcement, Benelux leadership set up a dedicated office to manage EIC work, said John Phelan, Benelux Transformation Office director.

“As the command started getting into the planning details, the realization of the complexity -- three sites over two countries, multiple partners and language barriers -- was too much; it required an additional office,” Phelan said.

Due to the quantity and complexity of projects, many Europe District branches and sections play a hand in the transformation—from Planning to Engineering and Project Management to Installation Support.

The Benelux Resident Office, located at Chievres Air Base, oversees the contractors' daily on-site work. U.S. Army Installation Management Command – Europe Region; Benelux Department of Public Works and transformation offices; and tenant organizations all provide guidance to the district.

“The garrison benefits from Europe District’s experience working with host-nation contractors and delivering quality products in complex multinational environments,” said Amy Holmes, Benelux Transformation Plans and Operations chief.

From Challenge to Change

The challenges of executing the consolidation are minor in comparison to the anticipated benefits, officials said.

“This transformation will save the garrison \$6 million to \$9 million in operations and maintenance costs annually,” said Emile Pitre, Europe District project manager. “Many of the Corps-managed renovation projects will modify the designs and configurations of available, but underutilized facilities to meet unit requirements.”

In addition to infrastructure upgrades and relocation of garrison headquarters, the garrison community will also benefit from a new school and sports fields for students in kindergarten through 12th grade.

“The initiative not only saves money, it enables better service to the community,” Phelan said. “We’re moving the services closer to the customer, becoming a one-stop shop and creating a community center rather than decentralized services.”

According to the Benelux Real Property Master Plan, garrison leadership will be able to successfully support missions and focus on the long-term use and sustainability of the Chievres community as an enduring presence within Europe.

This transformation postures centrally-located Benelux to better support U.S. and greater NATO missions, Phelan said. U.S. Forces at Benelux will be better prepared for the future.

“The interesting thing about EIC is that it’s kind of a Base Realignment and Closure in Europe; we’re consolidating and reducing our footprint and operation costs,” said Jeff Domm, Air Force Civil Engineer Center chief. “Yet, at the same time, we have the European Reassurance Initiative in which we’re building up in Europe.”

Benelux Transformation

From storage garage to fire and emergency services offices

BEFORE



Exterior



Interior

AFTER



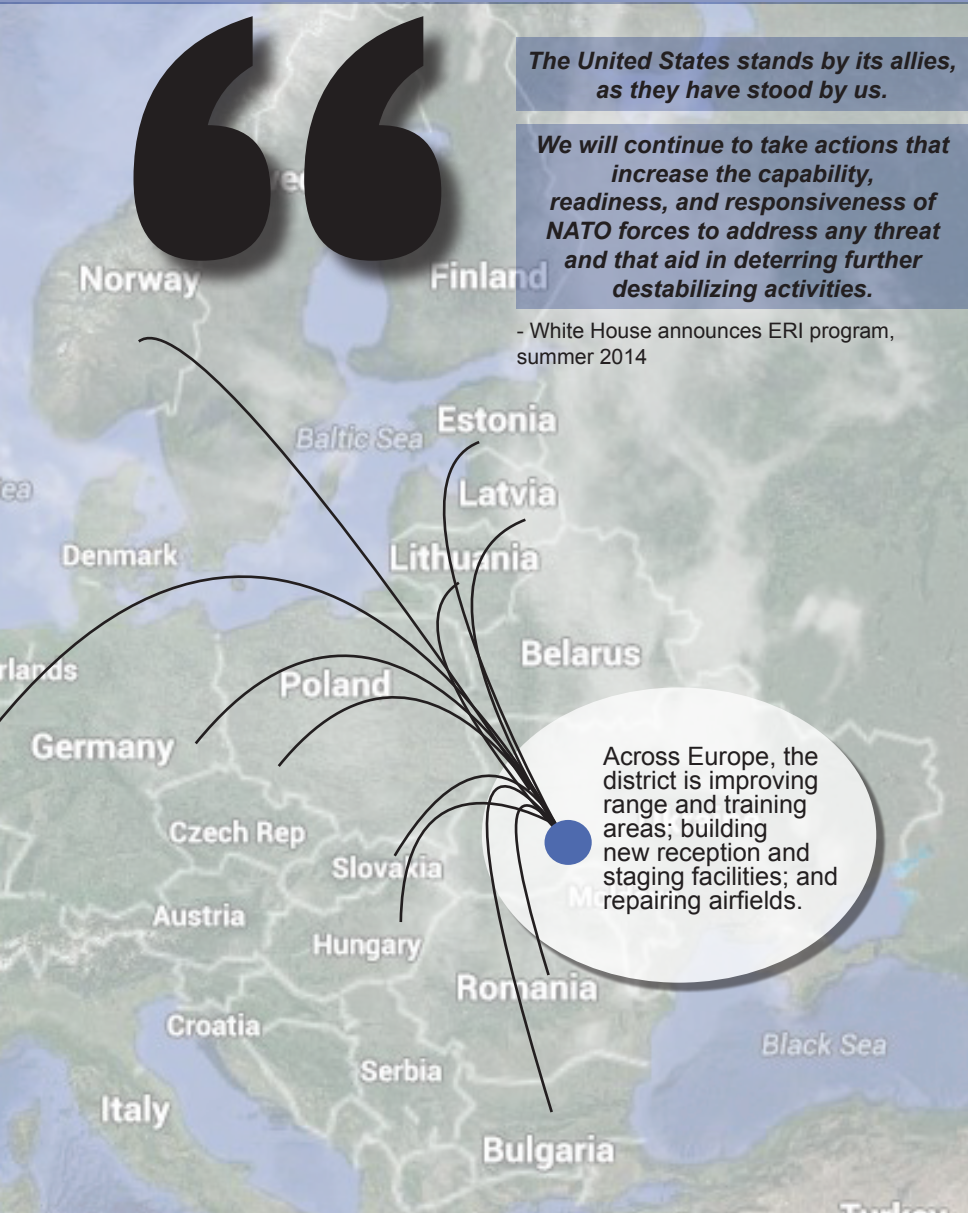
European Reassurance Initiative

“

The United States stands by its allies, as they have stood by us.

We will continue to take actions that increase the capability, readiness, and responsiveness of NATO forces to address any threat and that aid in deterring further destabilizing activities.

- White House announces ERI program, summer 2014



Across Europe, the district is improving range and training areas; building new reception and staging facilities; and repairing airfields.

Europe District manages an approximately half-billion-dollar program for Military Construction; and Facilities, Sustainment, Restoration and Modernization (FSRM) projects throughout Europe for the U.S. Army and Air Force, as part of the multi-billion-dollar European Reassurance Initiative (ERI).

The district has more than 260 projects to make improvements to airfields, military quarters, operations centers, training ranges and support facilities. These projects are planned in Bulgaria, Estonia, Germany, Hungary, Latvia, Lithuania, Luxembourg, Norway, Poland, Romania and Slovakia. This work allows U.S. and NATO partners to efficiently continue training requirements and contingency operations to help ensure peace and security in Europe and to further deter Russian destabilizing activities.

“ERI is a large, fast-paced program that utilizes all the disciplines within Europe District,” said Jennifer Schmeltzle, program manager. “Our Planning Section is successfully developing future-year projects by working closely with U.S. Army Europe and Air Force counterparts. Our dedicated project managers are leading projects from design to contract award to construction, throughout multiple countries. Our Construction team is managing numerous FSRM contracts in Eastern Europe. We are executing the program through constant coordination within Europe District and between our customers and host-nation experts.”

ERI Lines of Effort

- **Increase presence:** Maintaining commitment to persistent rotational presence of U.S. air, land and sea forces in Central and Eastern Europe for training
- **Conduct additional exercises and training:** Participating more extensively in exercises and training activities with NATO allies and partners, improving overall readiness
- **Enhance prepositioning:** Prepositioning combat vehicles and supplies to reduce force deployment times, enable rapid response
- **Improve infrastructure:** Improving infrastructure such as airfields, training centers, and ranges throughout Europe to improve allied military readiness in region, quick dispersal of forces
- **Build capacity of allies and partners:** Continuing to build the capacity of Central and Eastern European allies and partners to defend themselves



The greater horseshoe bat, a protected species, on Hohenfels Training Area at U.S. Army Garrison Bavaria. (Courtesy photo by Rudolf Leitl)

Environmental Support

Europe District awards approximately \$30 million of environmental work annually, and has up to 300 active projects ranging from studies and design to small construction to support U.S. Forces.

Europe District's Environmental Branch represents a broad range of technical disciplines and specialists - geologists, biologists, engineers and chemists - who bring expert solutions to a variety of projects across Europe and Africa. The branch manages environmental requirements for compliance, mitigation, remediation, soil disposal, pollution prevention, conservation and natural resources for military partners and stakeholders with respect to host-nation environmental laws.

The branch also supports district project managers who identify environmental issues during development, design or construction of Europe District projects.

As an example, the district played an important role in a program to increase the population of an endangered bat species in and around Hohenfels Training Area at U.S. Army Garrison Bavaria. The project included a camera-monitoring system, installation of bat boxes, and renovation of old buildings and cellars to be used as converted bat habitats. As a result, the population in the area increased by more than 50 percent since 2009.



Europe District renovated a farmhouse on Hohenfels Training Area to act as nursery roost for endangered bats

Bat Protection Program Fast Facts

- 19 of 21 different bat species within Bavaria populate Hohenfels due to geology and non-agricultural use of area
- Researchers believe the last German colony of greater horseshoe bat feeds in Hohenfels Training Area (restricted to military exercises since the late 1930s)
- Colony found roosting in abandoned farmhouse near training area
- Project funded by European Union to expand feeding area along ~ 3,000 acres of the ~ 40,000-acre area
- Overall project includes clearing brush to open flight corridors and planting fruit trees to attract insects
- Project also allows for more open space for Army training

Rhine Ordnance Barracks Medical Center Replacement project (left and below) (Courtesy renderings)

Medical Modernization

Modernizing medical facilities across Europe to deliver integrated, affordable, adaptive, high-quality health services to military members serving internationally, and their families

By far, the largest construction project in Germany managed by the U.S. Army Corps of Engineers is the \$990-million replacement of the Landstuhl Regional Medical Center and Ramstein Clinics with a single consolidated, modern medical facility on Rhine Ordnance Barracks, adjacent to Ramstein Air Base.

Europe District is working hand-in-hand with the Defense Health Agency and the German government to build the Rhine Ordnance Barracks Medical Center Replacement (ROBMCR) project - the new state-of-the-art medical complex.

“This new Department of Defense medical project reflects the Department’s commitment to exceptional care for U.S. service members and their families for years to come,” said Lloyd Caldwell, director of Military Programs for the Corps of Engineers, during a visit to the site with German officials.

For the last 15 years, U.S. service members wounded in combat have been flown to Germany’s Landstuhl Regional Medical Center - the largest U.S. medical center on foreign soil. Along with the medical clinic at Ramstein, it has helped deliver care through 600,000 annual patient visits.

Landstuhl’s proximity to conflict areas has also cut in-flight mortality rates in half, as it has famously been the only forward-stationed evacuation and treatment center for injured service members, civilians and contractors serving in Central and Southwest Asia, Europe and Africa.

The 985,000-square-foot ROBMCR campus will be organized around centers of specialization and will include nine operating rooms; 68 hospital beds and 120 exam rooms; contingency-surge capacity with 93 beds; and direct access to the Ramstein flightline via a new bridge.

ROBMCR will support a rapid-cycle model of care to serve injured military and civilian personnel arriving from combat duty, as well as vital peacetime care to more than 200,000 beneficiaries throughout Europe to include approximately 60,000 members of the Kaiserslautern, Germany military community - the largest military community outside the continental U.S.

Facilities will be adaptable, sustainable and designed pursuant to Leadership in Energy and Environmental Design (LEED) Silver-

certification standards - and are anticipated to start providing quality care in 2022.

But now, its sprawling campus with more than 40 buildings is beyond its useful service life and cannot be adequately modified or modernized through repairs.





VILSECK HEALTH CLINIC

- *Addition to clinic opened August 2015 at U.S. Army Garrison Bavaria, Germany*
- *~ \$35-million project*
- *Ongoing modernization of ~ 50,000 square feet of primary care, behavioral health, radiology, physical therapy, optometry, pharmacy and administrative spaces*
- *First “green” roof on Rose Barracks*
- *Anticipated completion of entire project in spring 2017*



URLAS HEALTH AND DENTAL CLINIC

- *Opened August 2016 at U.S. Army Garrison Ansbach, Germany*
- *~ \$37-million project*
- *~ 50,000 square feet of primary and dental care, behavioral health, physical therapy, optometry, radiology, pharmacy and administrative spaces*
- *Sustainable construction includes use of natural lighting, water-use reduction methods, “green” roof and solar-thermal energy*



SPANGDAHLEM DENTAL AND MEDICAL CLINIC ADDITION

- *~ \$34-million project*
- *~ 50,000 square-foot addition to include dental and mental-health services; family advocacy; educational and developmental intervention services; bioenvironmental engineering; and administrative spaces*
- *Troop-ready ~ summer 2019*

U.S. Air Force Tech. Sgt. Valorie Chiola, dental assistant, New Jersey Air National Guard's 177th Medical Group, cleans teeth of Airman assigned to 52nd Fighter Wing at dental clinic, Spangdahlem Air Base, Germany, Aug. 11, 2015. (U.S. Air National Guard photo by Senior Airman Shane S. Karp)

U.S. Army Garrison Stuttgart is home to two of the newest state-of-the-art marquee schools in Department of Defense Education Activity-Europe.

The \$98-million, 245,000-square-foot elementary and high-school campus, designed for more than 1,200 students, opened its doors in Germany in fall 2015.

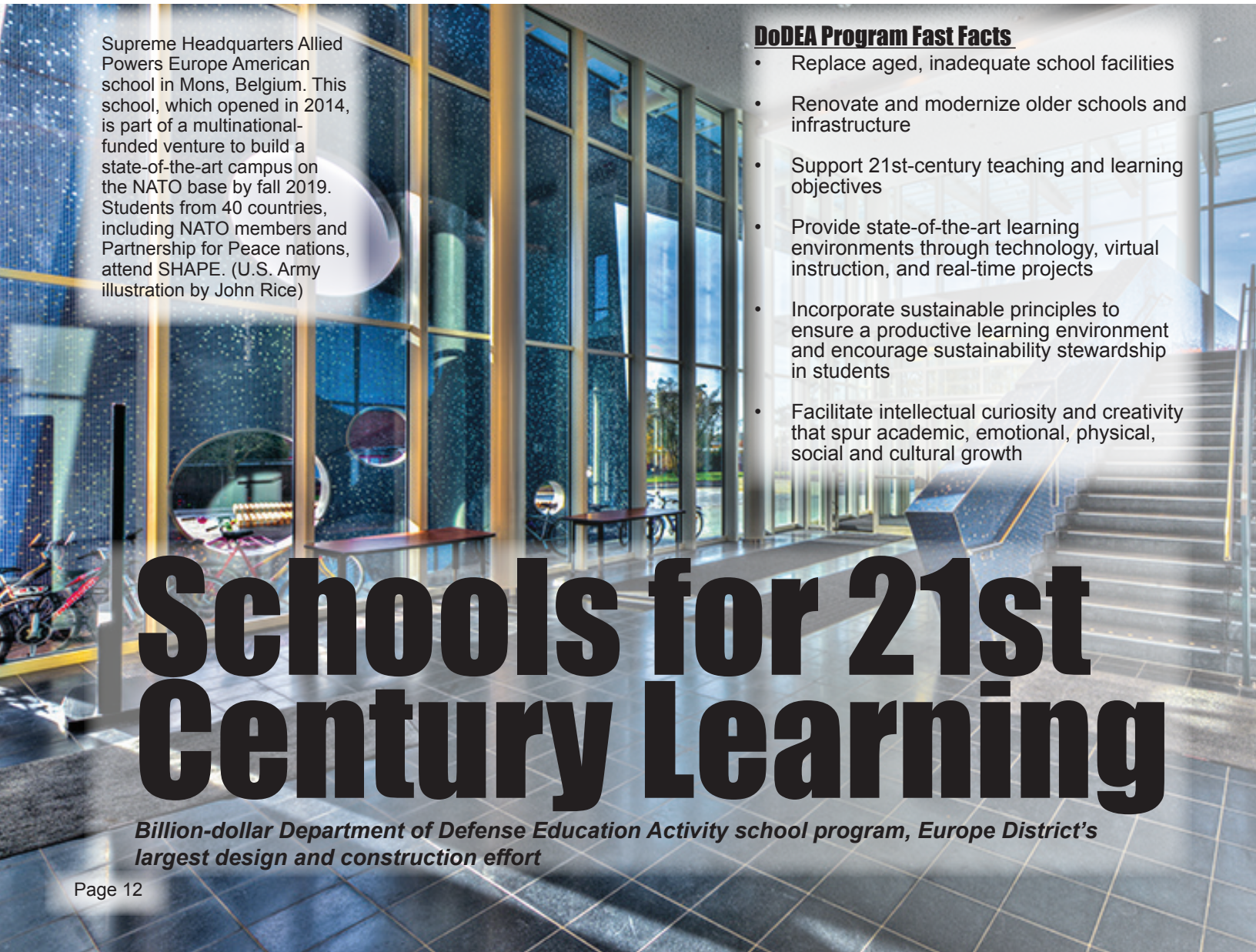
This major construction completion represents an important step toward DoDEA's 21st-century learning initiative with the aim of preparing children to be leaders in their communities and in the globalized society through the integration of sustainability and information technology.

"We are proud to serve and enable a larger goal to provide first-class education to our children," said Col. Matthew Tyler, Europe District commander. "These schools give students the best possible opportunities to really dive into their educational growth."

The Stuttgart schools feature multipurpose rooms and high-tech computer labs. Playgrounds and a gymnasium were built at the elementary school, while the high school includes an auditorium; orchestra room; culinary-arts kitchen; science rooms with robotics; indoor rifle range for junior ROTC cadets; and new synthetic-turf football/soccer field -- surrounded by a track.

"It's like a mini-university," Kat Farrar, a Stuttgart senior, told American Forces Network - Stuttgart.

Europe District worked closely with DoDEA-Europe, U.S. Army Garrison Stuttgart and the German state construction agency to incorporate sustainable features within the campus.



Supreme Headquarters Allied Powers Europe American school in Mons, Belgium. This school, which opened in 2014, is part of a multinational-funded venture to build a state-of-the-art campus on the NATO base by fall 2019. Students from 40 countries, including NATO members and Partnership for Peace nations, attend SHAPE. (U.S. Army illustration by John Rice)

DoDEA Program Fast Facts

- Replace aged, inadequate school facilities
- Renovate and modernize older schools and infrastructure
- Support 21st-century teaching and learning objectives
- Provide state-of-the-art learning environments through technology, virtual instruction, and real-time projects
- Incorporate sustainable principles to ensure a productive learning environment and encourage sustainability stewardship in students
- Facilitate intellectual curiosity and creativity that spur academic, emotional, physical, social and cultural growth

Schools for 21st Century Learning

Billion-dollar Department of Defense Education Activity school program, Europe District's largest design and construction effort

Stuttgart Sustainability Fast Facts

- 150,000-liter rainwater-collection system for outside water hoses and fire extinguishing
- “Green” roof reduces storm-water runoff and provides added insulation
- Extensive use of natural light
- Energy-efficient interior-lighting system
- Operable classroom windows for fresh air



Elements of the new Stuttgart elementary and high-school campus (U.S. Army photos by Chris Augsburger)

Aerial photo courtesy of U.S. Army Garrison Stuttgart



Engineers say the campus is DoDEA-Europe’s first to qualify for U.S. Green Building Council’s Leadership in Energy and Environmental Design certification.

Tyler said the design incorporated sustainability measures that will increase the complex’s life span and help preserve environmental resources for future generations by lowering annual energy costs and reducing waste footprint. The campus also meets German environmental standards such as ENEC, an energy-saving regulation and efficiency requirement.

Sonja Rodriguez, Stuttgart Elementary School principal, said amazing things happen in schools designed, constructed and operated with a focus on occupant health and energy efficiency.

“We are excited to lead the DoDEA-Europe community in the construction and use of one of the first environmentally-friendly ‘green’ schools,” Rodriguez said.

The building is expected to save approximately \$250,000 annually in energy costs, using 40 percent

less energy than a baseline building.

Great vision was needed by U.S. and local planners, designers, and engineers, who had to meet stringent requirements to make the project a reality, said Reiner Trunk, finance president of the German government’s regional design and construction agency that builds U.S. military projects in partnership with the Corps.

“It’s so awesome,” he said. “We were able to build this school for the benefit of our common future.”

The improvements will have a lasting impact on students for decades to come, said Linda Curtis, DoDEA’s deputy director and associate director of academics.

“Now, the fun begins,” she said. “The education, learning, the building of tradition...these new facilities become an integral part of the learning. For us, it’s a winning combination.”

Europe District is planning the design and renovation or

construction of more than 30 schools in Germany, Belgium and Turkey, which will serve more than 16,000 children of military and civilian employees throughout Europe.

In particular, Wiesbaden and Kaiserslautern high schools are projected for construction completion in summer 2017 and summer 2018, respectively.

Did you Know?

Europe District has a robust Science, Technology, Engineering and Mathematics (STEM) outreach initiative with the intent of inspiring kids to pursue STEM-oriented careers.

Activities include:

- Student shadowing of district employees
- Engineers Week and Earth Day events at DoDEA schools
- Take Your Child to Work Day
- Skype with Science
- Field trips to project sites

A photograph of a soldier in camouflage uniform climbing a rock wall. The wall is grey with various colored handholds (yellow, green, red, blue). The soldier is wearing a tan t-shirt and has a tattoo on his left arm. He is looking towards the camera with a focused expression. The background is a blurred green wall with more handholds.

Quality *of life*

Europe District designs and constructs commissaries, family housing, lodges and recreation facilities that aid in improving the quality of life for military members and their families overseas.

Europe District constructed a 48,000-square-foot dormitory at Kapaun Air Station in Germany that opened February 2016. It has the capacity to house 112 unaccompanied, enlisted Airmen and consists of 28 four-bedroom modules with private bed and bathrooms joined by common kitchen and living areas.

In a complex, ever-changing operational environment, it is critical that Airmen have private living spaces for individual rest and relaxation needs. This dorm was designed and built to meet these needs, as Airmen perform increasingly complicated jobs.

Prior to the completion of the dormitory, some Airmen resided in a neighboring air station 18 kilometers away, which made for a long commute, especially for those relying on shuttle buses for transportation. Airmen from the 569th U.S. Forces Police Squadron, assigned to Kapaun, now live closer to work, increasing their free time and quality of life.

The sustainable dormitory earned a Leadership in Energy and Environmental Design (LEED) Silver certification from U.S. Green Building Council, making it the first LEED-certified building for the U.S. Air Force in Germany. The building was designed to use almost 40 percent less drinking water and approximately 40 percent less energy than a standard dormitory. The dorm contains laundry and kitchen appliances rated super-energy-efficient A++. The dorm also uses a solar domestic hot-water system.

Europe District sourced more than 35 percent of the raw construction materials from within 800 kilometers of the dorm, thereby reducing the carbon footprint of vehicles transporting supplies to the project site, while also supporting the local economy.

The scope of work for this project was the first developed in coordination with the Landesbetrieb LBB, a German construction management agency, and is now being used for all new construction projects required to meet LEED-Silver design criteria throughout Germany.

A soldier scales a climbing wall at the 16,000-square-foot Bavaria Outdoor Adventure & Recreation complex, or Wild B.O.A.R., located near Dickhaeuter Lake on Grafenwoehr Training Area, U.S. Army Garrison Bavaria. The complex, which also includes a high-ropes course, was completed by Europe District in 2013. (Courtesy photo)

Overseas

Contingency Operations

Since its formation in 2008, Europe District's Forward Engineer Support Team-Advanced has deployed to Liberia, Jordan and Afghanistan and has taken part in joint exercises in Uganda, Niger, Germany, Italy, Alaska and California.

The district boosts national security through the fielding of its FEST-A, which was stood up to provide technical-engineer capabilities and conduct consequence-management and stability operations in support of military and civilian agencies.

The team is comprised mostly of civil, electrical, mechanical and environmental engineers with solid project-management and base-camp development skill sets.

In April 2015, FEST-A wrapped up a six-month deployment to Liberia to support Operation United Assistance, the U.S.-led effort to stop the spread of Ebola in West Africa. The 13-member team provided engineering expertise to the 101st Airborne Division (Air Assault), U.S. Africa Command and U.S. Agency for International Development, leading to the construction of 10 treatment units and the maintenance of base facilities for humanitarian and public health officials. In addition, FEST-A provided continual assessment of maintenance and repairs to Roberts International Airport in Monrovia, the Liberian capital. The team also played an integral part in theater closure as the operation drew to an end.

Maj. Michelle Dittloff, commander of the Liberia team, said FEST-A performed well under difficult conditions and validated many key decisions as the technical-engineering arm for the 101st, which ultimately benefited the operation's virus-containment measures. The team proved particularly valuable in quality assurance, inspection and contract supervision – functions not routinely carried out within a light infantry division.

"The speed at which we pushed this team out the door, I think it's going to be a standard going forward for other teams to aspire to achieve," said Dittloff.


The team stood up Oct. 1, 2014, and was in Liberia three weeks later.

"If this is a type of mission the U.S. military is going to get involved with in the future, that deployment speed is something we at USACE certainly need to consider, because national and natural disasters don't operate on the same timeline as a battlefield contingency," said Dittloff.

From August 2013 to February 2014, FEST-A completed a separate six-month deployment to Jordan, where it was part of a special U.S. task force set up to build the host nation's capabilities and to help provide aid for refugees from neighboring Syria.

Europe District got a new military asset in mid-2015 to tackle its expanding missions in Europe and Africa.

Contingency Engineering Management Organization, an ad-hoc joint-engineer operations team



Jason Riharb, Europe District project engineer and FEST-A member, conducts reconnaissance during Operation United Assistance in Liberia, Nov. 12, 2014. (Courtesy photo/illustration)

made up of reservists, was mobilized mainly to support humanitarian-assistance and theater-security-cooperation programs for U.S. European Command and U.S. Africa Command.

The eight-member CEMO team is organized to support specific contingency-engineering and construction missions in challenging work environments like in North Africa and Eastern Europe. CEMO provides key technical expertise to EUCOM and AFRICOM's geographic combatant commanders, agencies and associated subordinate commands.

CEMO assists with projects aimed at security assistance, counternarcotics, counterterrorism, law enforcement, exercise-related construction and State Department peacekeeping operations. CEMO supports Counterterrorism Partnership Fund efforts for AFRICOM, including assistance with engineering projects within the Foreign Military Sales program and Defense Logistics Agency's Fuel Recapitalization program in the Horn of Africa. CEMO also is positioned to help drive the European Reassurance Initiative and European Activity Sets within the EUCOM area of responsibility.

Progress starts

Meet some of our many partners

U.S. EUROPEAN COMMAND



One of six U.S. Defense Department's geographic combatant commands. EUCOM is responsible for military relations with NATO and more than 50 countries on two continents. From its operations center in Stuttgart, Germany, EUCOM conducts military operations and international military and interagency partnering to enhance transatlantic security. The command also maintains quality of life, including health care and schools, for military families living in Europe.

U.S. AFRICA COMMAND



Headquartered in Stuttgart, Germany, AFRICOM covers more than 50 countries with more than 2,000 languages spoken throughout its area of responsibility. AFRICOM builds defense capabilities, responds to crises, and deters and defeats transnational threats in order to advance U.S. national interests and promote regional security, stability and prosperity.

U.S. ARMY EUROPE



The Army's forward-service component command. Headquartered in Wiesbaden, Germany, USAREUR is uniquely positioned to advance American strategic interests in Europe and Eurasia. It leads trained and ready forces that provide EUCOM and other combatant commands the land power to prevent conflict and shape the environment.

U.S. ARMY INSTALLATION MANAGEMENT COMMAND EUROPE

Delivers and integrates base support to enable readiness for a self-reliant and globally-responsive All-Volunteer Army. IMCOM Europe supports personnel on Army garrisons in Germany, Belgium, Netherlands and Italy and provides training facilities, power-projection platforms, family housing and base-operations support ranging from child care to force protection.



U.S. AIR FORCES EUROPE - AIR FORCES AFRICA

Commands U.S. Air Force units that are pledged to NATO, maintaining combat-ready wings based from Great Britain to Turkey. USAFE-AFAFRICA plans, conducts, controls, coordinates and supports air and space operations in Europe, parts of Asia and all of Africa with the exception of Egypt to achieve U.S. national and NATO objectives. Headquartered on Ramstein Air Base, Germany, it is the oldest continuously-active USAF major command.



DEFENSE SECURITY COOPERATION AGENCY

Develops and executes innovative security-cooperation solutions that support mutual U.S. and partner interests.



SPECIAL OPERATIONS COMMAND AFRICA

Colocated with AFRICOM on Kelley Barracks in Stuttgart, SOCAFRICA aims to build operational capacity; strengthen regional security; implement effective communication strategies in support of strategic objectives; and eradicate violent extremist organizations.

U.S. NAVY REGION, EUROPE, AFRICA, SOUTHWEST ASIA

Provides efficient and effective shore-service support to the United States and Allied Forces operating in Europe, Africa and Southwest Asia area of responsibility. Headquartered in Naples, Italy, it sustains the fleet, enables the fighter and supports the family.



U.S. ARMY AFRICA/ SOUTHERN EUROPEAN TASK FORCE

Employs Army forces to build sustainable capacity and support the joint forces in order to disrupt transnational threats and promote regional stability to make a positive change in Africa.

DEFENSE HEALTH AGENCY

A joint, integrated combat support agency that enables Army, Navy, and Air Force medical services to provide a medically-ready force in peace and war through affordable, high-quality health services.



SPECIAL OPERATIONS COMMAND EUROPE

Provides a full range of military operations, including combat, special operations, humanitarian assistance, non-combatant evacuations and joint-combined military operations.



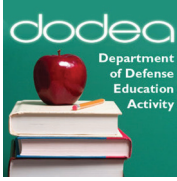
MISSILE DEFENSE AGENCY

Develops, tests and fields an integrated, layered ballistic-missile-defense system to defend the U.S., its deployed military forces and allies against all ranges of enemy ballistic missiles in all phases of flight.

Opening ceremony in Northern Uganda marks start to humanitarian exercise, Oct. 16, 2009. (U.S. Air Force photo by Sgt. Samara Scott)

→ with partnerships

DEPARTMENT OF DEFENSE EDUCATION ACTIVITY



Manages education for children of military families, engaging and empowering students to succeed in a dynamic world. DoDEA-Europe is replacing aged and obsolete schools with

modern designs that support college and career-ready educational techniques.

DEFENSE LOGISTICS AGENCY EUROPE AND AFRICA

Headquartered in Kaiserslautern, Germany, DLA serves as the focal point for logistics solutions for EUCOM and AFRICOM.



It provides a single interface for warfighters and on-site tailored customer support.

DEFENSE COMMISSARY AGENCY



Operates a worldwide chain of commissaries that provide groceries to military personnel, retirees and their families in a safe and secure shopping

environment. Authorized patrons purchase items at cost plus small surcharge, which covers the costs of building new commissaries and modernizing existing ones.

U.S. STATE DEPARTMENT



Shapes and fosters conditions for stability and progress for the benefit of American people and people everywhere.

U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT

Partners globally to end extreme poverty and promotes development of resilient, democratic societies in order to advance American's security and prosperity.



Working with host nations

The district's close cooperation with host-nation governments is vital to the success of all U.S. construction in Europe and Africa.

It is the responsibility of the Corps of Engineers to make sure all military projects satisfy both U.S. and host-nation requirements for quality, safety and environmental compliance.

"Sometimes our laws and regulations clash because of differences in construction, environmental and cultural norms," explains Lalit Wadhwa, Europe District Programs Branch. "It's important that we work with a host nation to come up with acceptable solutions; and that we gather experts from both sides, work through issues and learn from each other."

In every country where the Corps works, the U.S. negotiates formal agreements for how engineering and construction will be handled.

In Germany, for example, ABG 1975 is a formal implementing agreement of the Supplemental Agreement to the NATO Status of Forces Agreement that regulates which projects will be designed and constructed by the host nation and which projects U.S. Forces can design and construct using its own procedures. ABG 1975 also outlines how the host nation and U.S. work together in accomplishing design and construction.

German Construction Agencies design and award most major new construction for U.S. Forces. In close cooperation with GCA, Europe District overseas design and construction and ensures projects meet U.S. Forces' needs, do not exceed the budget, and are completed in a timely fashion.

Europe District also relies on strong relationships with industry to accomplish the mission. The district contracts directly with Architectural, Construction and Environmental Engineering firms to complete work throughout much of Europe and Africa.

Flexible, scalable, country-based contracting tools are used for everything from environmental studies to major military construction, repair, revitalization and maintenance projects.

The Corps also hires local-national employees who provide expertise in host-nation engineering and construction practices. Approximately 25 percent of Europe District's workforce is composed of local nationals. We also rely on robust host-nation crisis management assets for force protection.

In addition, Europe District hosts an annual partnering workshop in Germany to discuss mutual challenges, strategies and opportunities. This workshop typically brings together more than 100 officials from more than 25 organizations.

MILLENNIUM CHALLENGE CORPORATION

Forms partnerships with poor countries that show commitment to good governance, economic freedom, and investment in citizens.



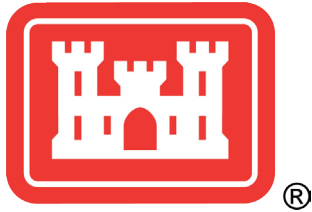
Funding goes toward projects for water supply and sanitation; transportation infrastructure; sustainable energy; access to health and education; and anticorruption.

MINISTRY OF DEFENSE GOVERNMENT OF ISRAEL

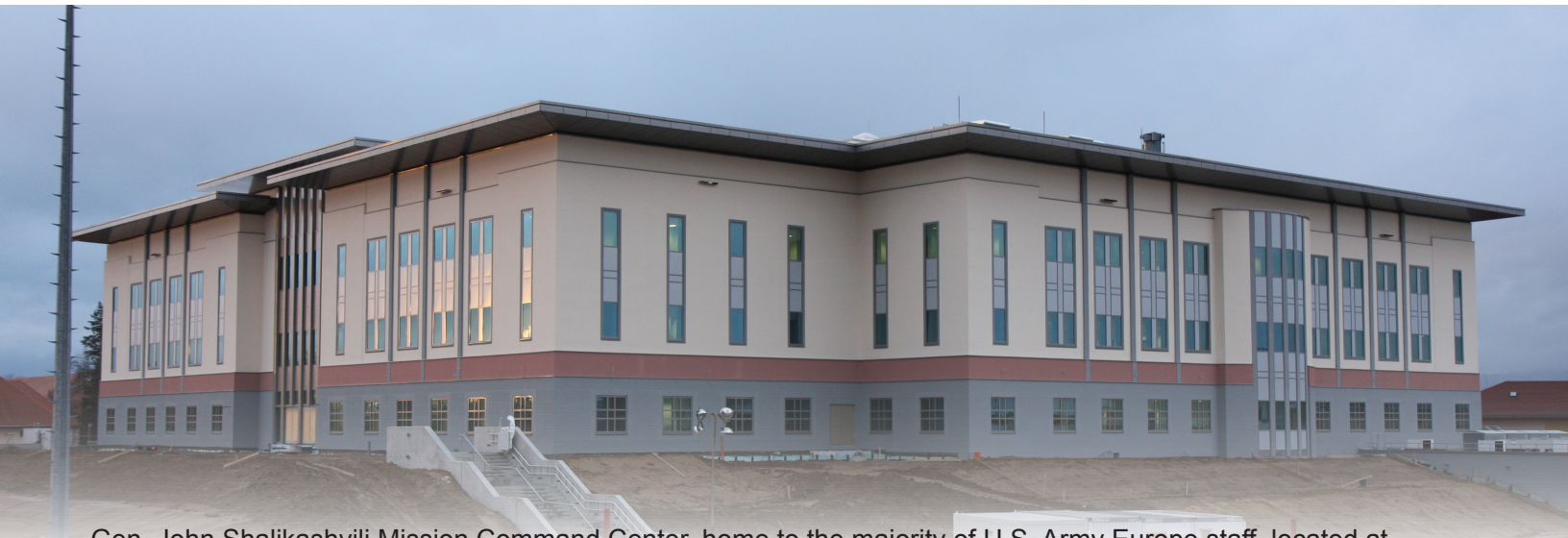
Achieves procurement goals set by Government of Israel, consistent with regulations of U.S. Government.



U.S. Army Corps of Engineers
Europe District
Wiesbaden, Germany



CMR 410, Box 1, APO, AE 09049



Gen. John Shalikashvili Mission Command Center, home to the majority of U.S. Army Europe staff, located at Gen. Lucas D. Clay Kaserne, U.S. Army Garrison Wiesbaden, Germany. This quality, sustainable, state-of-the-art, 285,000-square-foot facility was constructed by Europe District in 22 months and opened in 2012. The building is named as a memorial to Shalikashvili, who was born in Warsaw, Poland in 1936 and was the first foreign-born American Soldier to be appointed as a chairman of the Joint Chiefs of Staff. (U.S. Army photo)