

COMBAT ENGINEER & LOGISTICS

'Supporting and sustaining forces for future conflicts'

25 - 27 March 2025 | Warsaw, Poland EXPO XXI Exhibition Centre

CONFERENCE PRODUCER'S INTRODUCTION

In today's complex and rapidly changing global security environment, the roles of military engineers and logisticians have never been more pivotal. They provide the crucial backbone of military operations, enabling the protection and projection so the wider force can fight and win. The ongoing conflict in Ukraine has underscored the urgent need for preparedness against contemporary threats. The evolving nature of warfare demands that we continuously adapt our strategies, tactics, and equipment; ensuring that strategic objectives can be met with operational efficiency and tactical excellence; now and into the future.

In this modern era of great power competition our forces must be ready for high-intensity warfare; contested across domains facing multifaceted challenges that will test us to our limits. The collaboration between engineers and logisticians and between allies will be more important than ever.

It is with great pleasure that we present the eleventh edition of the Defence Leaders Combat Engineer and Logistics Conference - CEL 2025, a global forum dedicated to fostering this essential collaboration. Building on the success of previous years, this year's event promises to be our most ambitious yet, bringing together senior military officials, government representatives, program managers, frontline commanders, subject matter experts, and scientists from across the combat support and service support communities together under one-roof. CEL 2025 promises to be a catalyst for meaningful dialogue, the formation of relationships, and the advancement of international cooperation.

We are thrilled to return to the vibrant city of Warsaw and the outstanding EXPO XXI Exhibition Centre. The Defence Leaders team, along with our CEL partners, has curated an enhanced programme of focused briefings and panel sessions led by our authoritative speaker faculty addressing the enduring and contemporary challenges for both communities, including:

- Mobility and countermobility during large scale combat operations
- Overcoming the challenges of logistics in contested environments
- Applying emerging technologies such as AI, autonomy and additive manufacturing
- The future of deployable infrastructure and renewable energy technologies

We will be delighted to welcome you and your team to CEL 2025 and look forward to supporting you to achieve your goals.

Seb Britton, Defence Engagement Manager, **Defence Leaders** sebastian@defenceleaders.com | +44 (0) 1245 407 932







2025 SPEAKERS INCLUDE:



Colonel Mariusz Ochalski Deputy Chief of the MILENG Branch. **General Command of the Polish Armed Forces**



Dr Andy Nelson Director of the Construction Engineering Research Lab **US Army Engineer Research and Development Center**

ERD©



Brigadier Jon West Assistant Chief of Staff Logistics **British Army**





Brigadier General Nicole de Wolf-Fabricius **Commander Operational Support** Command Land Royal Netherlands Army





Martin Huber Project Officer Additive Manufacturing and Logistics **European Defence Agency**



Richard Martin Director of Supply Chain Management **US Army Materiel Command**



Brigadier General Scott McKenzie Brigadier General Arnaud Weixler **Director General Support** Joint Operations Command **Canadian Armed Forces**



DCOS Resources 1 German Netherlands Corps



Colonel Bryan Mialkowsky, ACOS GENG, Allied Land Command



Major General Giuseppe Bossa Commander Engineers Italian Army



Colonel Riku Mikkonen Inspector of Engineers and CBRNe **Finnish Army Command**



Brigadier General Thierry Tricand de La Goutte Joint Chief Engineer **French Armed Forces**







Colonel Karen Baker V Corps Director Logistics **US Army**



ACOS GENG, EUROCORPS

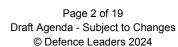


Major Young Tae Park KM3 Bridge Project Manager Republic of Korea DAPA



Colonel Thorsten Ludwig

Director



PRE-EVENT PASS COLLECTION & DRINKS | MONDAY 24 MARCH | Crowne Plaza Hotel

Crowne Plaza - The HUB, Manhattan Ballroom – 1st Floor, Rondo Daszyńskiego 2, 00-843 Warsaw

1800 - 2100: Pre-event pass collection, informal networking drinks reception

- Meet the Defence Leaders team and network with other conference delegates
- Collect your badges, conference guides and any other required information
- A relaxed and casual evening that will save you time at registration on Tuesday morning

SPONSORSHIP AVAILABLE

DAY ONE | TUESDAY 25 MARCH | PLENARY THEATRE - EXPO XXI Exhibition Centre

ENSURING SUPPORT IS ALIGNED FOR FUTURE CONFLICTS

The first day of the Combat Engineer and Logistics conference programme will focus on the strategic issues driving development in the support and sustainment of forces. Sessions will explore future requirements, innovations and the most pressing topics for engineers and logisticians.

0615 – 5km morning run from Hilton Warsaw City reception SPONSORSHIP AVAILABLE

0800 – Badge collection and registration SPONSORSHIP AVAILABLE

0850 - Chairman's introduction

Brigadier General (Ret'd) Frédéric Pesme, Former Deputy Director of Policy and Capabilities, NATO HQ



SESSION ONE | THE OPERATIONAL CONTEXT SHAPING FUTURE SUPPORT REQUIREMENTS

In this opening session, we will examine the evolving landscape of military operations and its implications for combat engineers and logisticians. As warfare becomes increasingly complex and multi-dimensional, understanding the operational context is crucial for anticipating and preparing for the logistical, technological, and strategic support requirements of tomorrow's armed forces. Join us as we explore how emerging threats, technological advancements, and geopolitical shifts are shaping the future, ensuring our forces remain agile, resilient, and ready to meet any challenge.

0900 - Host nation address: Increasing deterrence power; developing the Polish Armed Forces

- The geopolitical and national context for MILENG and Logistics in the Polish Armed Forces
- Impact of lessons from Ukraine on Polish Armed Forces key modernisation priorities
- The increasingly crucial role for Combat Engineering and Logistics troops in manoeuvre forces

Colonel Mariusz Ochalski, Deputy Head of the Military Engineering Directorate, General Command of the Polish Armed Forces





0925 - Leveraging commercial solutions; Mission focussed and technology forward

- Solutions for the combat engineer and logistician with both COTS/military modifications
- Technology solutions semi-autonomous solutions
- Lower-carbon advanced power technologies

Hosted by Caterpillar Inc.



0950 - Rear area requirements and contracting with regards to enablement of logistics

- Enabling logistics within the disarrayed strategic security context
- Command and control for combat support and combat service support forces from the theatre to tactical level
- Blending organic, host nation and contractor support for provide a combat ready land force

Brigadier General Arnaud Weixler, DCOS Resources, 1 German Netherlands Corps



1015 – Morning coffee and networking Hosted by Caterpillar Inc.



SESSION TWO | SUSTAINING AND SUPPORTING OPERATIONS IN CONTESTED ENVIRONMENTS

Supporting and sustaining fighting on the front lines has become increasingly challenging. Non-linear, noncontiguous battlefields with non-permissive EMS and GNSS denial will become the norm and our support functions must adapt accordingly or face failure. In addition, border security has become an increasingly national endeavour, with all the engineering and logistics support this entails. This session will explore solutions to enable the force mass and manoeuvre in the future.

1100 - Total defence, security of supply and strategic partnerships for homeland defence logistics

Points to be confirmed

Colonel Karen Baker, V Corps Director Logistics, US Army



1125 – Worldwide mission support at the speed of war – agile, adaptive and prepared

- Executing support flexible programs in challenging, austere and rugged environments
- Cost efficient and rapid life and mission support using local procurement
- Delivering solutions adapted to customer needs to deliver on projects

Hosted by KVG



1150 - Theatre enablement and Military Engineering capabilities a new challenge for national Engineers

- Theatre enablement: mismatching about available military capabilities and requirements
- Coordination with Host Nations civil engineers capabilities: requirements
- Planning Military Engineering capabilities adaptation and preparation: case studies

Major General Giuseppe Bossa, Commander Engineers, Italian Army



1215 – Lunch and networking Hosted by **Aluthermo**



SESSION THREE | BUILDING RESILIANCE FOR HIGH-INTENSITY OPERATIONS

Strategic level logistics is a critical enabling node for any operation - whatever the scale. Current issues in the logistic environment include transfer of information, industrial bases and capabilities, innovations, digital transformation, power, energy, fuel and people; their skills and cultural acceptance of new ways of working. The afternoon will commence looking at capitalising these topics to ensure resilience across the supply chain.

1330 - Sustaining and supporting operations in contested environments

Points to be confirmed

Brigadier Jon West, ACOS Logistics, British Army



1355 - Multinational and contract logistics support

- Evolution of multinational and contract logistics support
- Regional Sustainment Framework an innovative method for developing multinational logistics
- Exploring and experimenting with current and future developments in logistics

Hosted by ADS



1420 – Meeting the support needs of a combat army focused on future high-intensity operations

- Re-establishing the Engineer Brigade as part of the Theatre Support and Logistics Command (CALT) and adapting to technological advances across diverse engineers skills and taskings
- Long term vision & medium term milestones for combat engineering in the French Army
- Developing support for tactical manoeuvre in high-intensity warfare; improving direct and general support, mobility, counter-mobility and terrain configuration

Brigadier General Thierry Tricand de La Goutte, Joint Chief Engineer, French Armed Forces



1445 – Afternoon coffee and networking SPONSORSHIP AVAILABLE

SESSION FOUR | INNOVATIONS IN ENGINEERING SUPPORT

Ukraine has demonstrated the importance of innovation. This session will explore the new technologies, materials, and methodologies that are enhancing mobility, survivability, and sustainability on the battlefield. Speakers will give insights into how these innovations are revolutionising combat engineering support, ensuring our forces are equipped to meet the challenges of modern warfare and enhancing the effective interoperability of military engineering capabilities in operations and exercises.

1530 – Developing the future of Counter-mobility in NATO

- MILENG considerations for Counter-mobility in the future NATO battlespace
- Harmonising policy, concepts and doctrine
- Adaptive terrain shaping strategies and technological advancements in Counter-mobility

Colonel Thorsten Ludwig, Director, Military Engineering Centre of Excellence



1555 - Robotic systems in EOD: advantages, challenges, and best practices

- Countering EOD threats: robotic systems to increase safety, efficiency and operational capacity
- Operational realities: practical challenges, success stories, and lessons learned Ukraine Case Study
- Tackling evolving EOD challenges: pivotal role of industry operators collaboration

Hosted by **DOK-ING**



1620 – Research & development supporting the fight: How innovation increases capabilities, improves survivability, and decreases logistical burdens

- Decision dominance; future solutions for resilient, predictive, integrated and near real-time data
- Autonomous support; operational applications for autonomous systems for engineers and logisticians
- Lighter & leaner; reducing demand and increasing the organic endurance of forward units

Dr Andy Nelson, SES Director of the Construction Engineering Research Lab, **US Army Engineer Research and Development Center**





1645 – Chairman's summary of day 1

Brigadier General (Ret'd) Frédéric Pesme, Former Deputy Director of Policy and Capabilities, NATO HQ



1650 – Evening networking and drinks reception SPONSORSHIP AVAILABLE

1900 – Close of drinks reception

EXCLUSIVE PRIVATE BRIEFINGS

Defence Leaders are delighted to offer, bespoke, invitation only meetings to a select group of Combat Engineer and Logistics 2025 attendees. These run concurrently to our main content programme in our exclusive private briefing rooms. Whilst attendance at these meetings is predominantly by invitation only, please contact the Defence Leaders team for consideration if you wish to join one of these sessions.

TUESDAY 25 MARCH			
0730 - 0900	Sponsorship Available	Breakfast snacks provided	
0900 - 1030	Sponsorship Available		
1045 - 1215	Sponsorship Available		
1230 - 1400	amentum	Amentum Private Briefing	
1415 - 1545	AD ALASKA DEFENSE A Division of AKS Industries*	Alaska Defense Private Briefing	
1600 - 1730	Sponsorship Available		

WEDNESDAY 26 MARCH			
0730 - 0900	Sponsorship Available	Breakfast snacks provided	
0900 - 1030	Sponsorship Available		
1045 - 1215	Sponsorship Available	Buffet lunch provided	
1230 - 1400	Sponsorship Available		
1415 - 1545	Sponsorship Available		
1600 - 1730	ADS	ADS Inc Social Event - By invitation only	

DAY TWO | WEDNESDAY 26 MARCH | FOCUSED CONFERENCE STREAMS

0615 – 5km morning run from Hilton Warsaw City reception SPONSORSHIP AVAILABLE

0800 – Badge collection and registration SPONSORSHIP AVAILABLE

0800 - Welcome coffee SPONSORSHIP AVAILABLE

STREAM A ENABLING MANOEUVRE: IMPROVING GAP CROSSING

In association with



0850 – Chairman's introduction

Brigadier General (Ret'd) Frédéric

Pesme, Former Deputy Director of Policy
and Capabilities, NATO HQ



IMPROVING LOGISTICS BRIDGING, CONSTRUCTION AND REPAIR

0900 – NSPA Support to Military Engineering

- Overview of NSPA
- Current Military Engineering support and current activities
- Planning for future Military Engineering support

George Buckingham, Acting Director of Acquisition Programmes, **NATO Support and Procurement Agency**



STREAM B BASE CAMP BUILD AND PROTECTION

In association with



0850 – Chairman's introduction

Colonel Adam Foley, Assistant Head

Military Engineering - Programmes

Directorate, British Army



PREPARING INFRASTRUCTURE FOR LARGE SCALE COMBAT OPERATIONS

0900 – Enabling development of infrastructure and strengthening the security of the Eastern Flank

- Development of NATO common funded infrastructure across Poland
- Significant national investments supporting the presence of the US troops on the territory of Poland
- Preparing infrastructure for the 18th Mechanised Division in Siedlce

Brigadier General Dariusz Mendrala, Director - NATO Security Investment Programme Management Office, Polish Ministry of National Defence



STREAM C FUELLING THE FORCE

LEAD STREAM SPONSORSHIP AVAILABLE

0850 – Chairman's introduction

Brigadier Mike Caldicott, Director
Future Defence Support Services, UK

MoD



FUEL SUPPLY, STORAGE AND DISTRIBUTION

0900 - Material distribution in the land domain: Modernising the UKs battlefield logistics

- Hybridised use of White Fleet and 'Green Fleet'
- Single Logistic Platform Vision
- Bulk Liquid supply and distribution (TBC)

Lieutenant Colonel Neil Swift, SO1 Logistics Programmes, British Army



STREAM D MILITARY MOBILITY AND TRANSPORT

LEAD STREAM SPONSORSHIP AVAILABLE

0850 – Chairman's introduction

Brigadier (Ret.) Duncan Bedding,
Former Commander Standing Joint
Logistics Support Group, NATO



MULTI-MODAL DELIVERY: LEVERAGING RAIL/ROAD SOLUTIONS

0900 – EU Global Strategy (EUGS): Common and Security Defence Policy from a logistic perspective

- Enhancing EU capacity to prevent crisis and deploy operations
- Military Mobility: improving mobility of forces within and beyond the EU
- Other EU logistics projects

Patrick Loosen, Project Officer Military Mobility, European Defence Agency



0925 – Unique and versatile bridging system advancements

- Modern crossing abilities used throughout NATO
- Unit protection integrated into bridging systems
- Future permanent bridging methods

Hosted by InQuik
InQuik

scenerated construction

0925 – Readiness: a contractor's perspective

- Factors driving readiness and achieving mission success
- Best practices, technologies, and innovation proven in the toughest operating environments
- Real world examples where scale and local expertise combined to help achieve results

Hosted by **Rekord Hale Namiotowe Sp. z o.o**



0925 – Contractor supported fuel operations in high-intensity, large scale combat operations

- Just-in-time fuel logistics and lessons from Ukraine; a new way forward for fuel
- Challenges to freedom of movement in Europe when supporting forces
- Partnering for increased capability
 SPONSORSHIP AVAILABLE

0925 – Enabling military mobility across NATO areas of operations

- Enhanced recognition for route/ convoy/ support selection
- Unilateral and multilateral exercises: Capitalising on each to increase readiness
- Next steps for ensuring efficient transit of multi modal equipment

SPONSORSHIP AVAILABLE

0950 – Ex DRAGON 24: enabling freedom of manoeuver for allied forces in Eastern Europe

- Enhanced interoperability among NATO members during wet gap crossing operations
- Lessons and recommendations for future WWGC exercises
- Future WWGC requirements for Poland

Colonel Tomasz Czekirda, Lead Senior Staff Officer - Military Engineering, General Command of the Polish Armed Forces



0950 – Theatre preparation versus theatre activation; the evolving role of engineers in Large Scale Combat Operations

- Challenges for military engineers during theatre preparation
- NATO theatre entry and sustainment; planning for interoperability
- MILENG innovations and future NATO projects on engineer tasking during preparation and activation

Lieutenant Colonel Bill Murray, Deputy Division Chief - Engineer and Env. Services, **U.S. European Command**



0950 – UK MoD Defence Operational Energy Strategy – Working towards 2050

- The world in 2025 and what needs to change
- Future Energy Insights and the road to transition
- Maintaining interoperability with allies, partners and industry

Colonel Pete Skinsley OBE
Deputy Head (Operations), UK MoD
Operational Energy Authority



0950 – Developing a harmonised NLD/DEU/POL Military Mobility Corridor

- What are the current challenges moving forces across Europe
- What were the recommended solutions we considered and how did it link with national planning within the MoD, Whole of Gov and Whole of Society approach
- Possible further steps after project completion

Lieutenant-Colonel Erik Kos NLD, NDP Corridor WG – NLD representative, German-Netherlands Military Mobility Office



1015 – Morning coffee and networking SPONSORSHIP AVAILABLE

WIDE WET GAP CROSSING **DEVELOPMENTS**

1100 – Military mobility

- Speed is of the essence: rapid deployment enabled by bridges
- Multi-tasking; using a bridge for forward combat operations, rear combat operations and disaster relief
- Developments in bridge interoperability

Hosted by GDELS - Bridge Systems **GmbH**

GENERAL DYNAMICS

European Land Systems-Bridge Systems

RAPID CONSTRUCTION AND REPAIR SOLUTIONS

1100 – Rapidly deployable and energy efficient liveable infrastructure

- Integrating modularity into defence infrastructure
- Expanding the scope and use of modular solutions: allowing for further expansion to buildings
- Ensuring ease of assembly and breakdown for engineers

Hosted by **CORIMEC**



ENERGY EFFICIENT UTILITIES FOR CAMPS

1100 - Energy and Power; moving towards energy transition

- Shifting the way we make decisions about operational energy
- Assessing and mitigating vulnerabilities in critical energy infrastructure from hybrid threats
- Supporting innovation in defence and collaborating with the private sector

Lieutenant Colonel Patrick Laurent. Action Officer - Environmental Protection and Operational Energy, European **External Action Service**



MILITARY MOBILITY: EFFECTIVE MILITARY FREIGHT FORWARDING

1100 - Developing rail transit capabilities through Belgium

- What did we have compared to what we have now
- What needs to change and what are we doing about it
- Future programmes and collaborative opportunities

Patrick Van den Brande, ACOS Transformation - Logistics, Belgian **Armv**



1125 – Military Engineering as a part of 1125 – Enabling power projection; total defence

- Highlighting Swedish military geography in relation to MilEng capabilities
- MilEng capabilities in the context of total defence and Host Nation Support (HNS)
- Future priorities for Sweden Colonel Per Åkerblom, CO Göta Engineer Regiment and MilEng Inspector, Swedish Army



rapid transportation infrastructure repair in A2/AD Environments

- Meeting the Anti-Access and Area-Denial Challenge
- Ensuring Ports, Airfields, Roads, and Rails remain open despite enemy damage
- Counter-A2/AD Employment / Deployment Concepts

Dr John Rushing, Senior Research Engineer, **US Army Engineer Research** and Development Center





1125 - Redefining logistics and sustainment for temporary camp utilities through circularity

- Holistic approach to integrate energy. water, and waste systems for improved base operations
- Reduction in logistical costs and environmental footprint, enhancing safety and sustainability
- Demonstrated use of groundbreaking technologies, including the world-first mobile direct potable reuse system

Hosted by **Innocorps**



1125 – Improving delivery options for future operations

- Lessons Learned from recent expeditionary operations with extended lines of support
- Providing efficient resilience with limited assets and resources
- Evolution of tactical logistic policies that will improve land manoeuvrability

1150 – Crossing wet gaps.. faster, safer, smarter!

- Analysis of current NATO wet gap crossing operational efficiency
- Integration of commercial systems into military bridging applications:
 Magnetic capture technology integration for hands free ferrying and bridging and Autonomy integration
- Variable scope WGC systems Hosted by **Birdon**



1150 – Implementing sustainable practices across varied operational contexts

- Managing both safety and sustainability of camps
- The path to energy self sufficiency and zero waste to landfill
- Future-proof camps; micro-grids of the future

Hosted by **G&G Partners**



1150 - Title to be confirmed

Points to be confirmed
 Colonel Jim Smith, Commander - Task
 Force Latvia, Canadian Armed Forces



1150 – German LogHub in support of NATO and its opportunities for contractor support

- Germany's mission as part of the reinforcement and sustainment network
- Required support capabilities
- Integration of contractor support
 Colonel Dirk Jordan, Logistics Policy
 SME. German MoD



1215 – Developing gap-crossing capabilities for South Korea

- Progressive Acquisition Strategy in South Korea: Case Study of Tactical Bridge-II
- Introduction to amphibious bridging vehicle Simulator
- Future programmes for RoKA Engineers

Major Young Tae Park, Program Manager, Defence Acquisition Program Administration (DAPA)



1215 – Developing the future of the military engineering capability of the German Army

- Current situation; German Military Engineering Capabilities and challenges
- Updates on procurement and restructuring
- Refining the Multinational Military Engineer Brigade concept

Colonel Torsten Wiegel, Engineer Branch Chief, German Army Concepts and Capabilities Development Centre



1215 - Bolstering NATO deterrence along the Eastern Flank

- Bulgarian modernisation plans and impact on logistics
- Update on regional logistics centres
- Enhancing fuel/energy distribution and warehousing

Colonel Yordan Petkov, State Expert - Logistics Directorate, **Bulgarian MoD**



 Points to be confirmed
 Colonel Gert Dobben, head of division logistics directorate, European External Action Service



1240 – Lunch and networking SPONSORSHIP AVAILABLE

ASSURED MOBILITY IN LARGE SCALE COMBAT OPERATIONS

1400 – Supporting multinational delivery of modern military engineering equipment

- Update on NATO's Mobility and Countermobility High Visibility Projects (HVPs)
- Improved MILENG vehicles and systems, Including AEVs, breaching vehicles, mine clearing line-charges, unmanned engineering vehicles
- Future bridging assets including assault bridges, logistic bridges, amphibious bridging systems and floating bridges

Joachim Hofbauer, Head of multinational Capability Cooperation Unit - Defence Investment Division, NATO HQ



1420 - Land projection at speed and range enabled by interoperable solutions for Combat Engineers

- Reinforcing tactical capabilities in combat or humanitarian operations
- Interoperability for gap crossing operations and robotic vehicles
- Training and lifecycle support for engineer vehicles and equipment

Hosted by CNIM Systèmes Industriels



DEPLOYED INFRASTRUCTURE INNOVATIONS

1400 – Infrastructure lessons from Ukraine; mobile and protected

- Prospects for infrastructure in future high-intensity land conflict
- Mobile deployable and modular medical, repair, C2 and ammunition facilities
- Signature management and protection solutions for forward infrastructure

Colonel Bryan Mialkowsky, ACOS GENG. Allied Land Command





BATTLEFIELD ELECTRIFICATION IN AUSTERE ENVIRONMENTS

1400 - Increasing tempo, mass and autonomy with hybrid power generation; the Belgian Hybrid System

- Genesis of the project and description of the system
- Results from initial trials and monitoring
- The way ahead; future rollout and developments

Captain Thomas Gasarabwe, Ops and Training Officer - Field Accommodation Unit, Belgian Army



SPECIALIST AND OVERSIZED CARGO **TRANSPORTATION**

1400 – Multinational cooperation and support to enable transport and movement

- MCCE why we are there and what we do
- Opportunities in uncertain times for development and wider cooperation
- Exchange of services in the realms of Air Force/Surface Activities in support of military operations

Lieutenant Colonel Andreas Rothenpieler, MCCE IST Cell Chief, **Movement Coordination Centre Europe**



1420 – **Delivering humanitarian** infrastructure from CEE to the Pacific • How do you fly twelve time zones and

- land before Air Force 1
- The Ohana Hope Village case study
- Military deployment in a non-NATO country, outside the EU - The Camp Butmir case study

Hosted by Continest



1420 – Overcoming the operational and 1420 – Industry solutions for enhancing mission sustainment power gap

- Enhanced power resiliency and significant fuel efficiency through hybrid power and microgrids
- Reducing the maintenance and logistical burden
- Controlling the thermal and acoustic signature for power systems

Hosted by Intracom Defense



heavy lift capabilities

- Evolving equipment for new vs legacy lift solutions to enhance preparedness
- Sustaining advanced technology and utilising civilian commercial assets for military support
- Using realistic, accurate and precise lift technology

1445 – **Modernising Albanian Engineering and EOD Capabilities with** robotic vehicles

- The role of military engineering and EOD in national defence
- Current challenges in military engineering and EOD - future requirements for Albania
- The need for modernization to address evolving threats and infrastructure challenges.

Lieutenant Colonel Vladimir Pica, Hd Operations Section - Support Command. **Albanian Armed Forces**



1445 – Building readiness in the strategic support area

- Improving collaboration between military engineers and host nation
- Setting the theatre to enable force projection and sustainment
- Supporting civil preparedness initiatives and building resilience

Colonel Jens Kuester, Branch Head -Engineer Plans, NATO Joint Forces **Command Brunssum**



1445 - Plugging the energy gap; energy 1445 - Strategic airlift for over and solutions for the battlefield

- Addressing energy and water resiliency and reducing the logistics footprint and costs for operations
- Mitigating risks to all critical missions, to reduce the risk of future disruptions and maximising options for commanders
- Baseline condition and future projections; identifying deficiencies and funding priorities

Pam Kinnebrew. Technical Director Military Engineering and Dan Harder, Research Civil Engineer -Geotechnical and Structures Lab. US **Army Engineer Research and Development Center (ERDC)**



outsized cargo: an international community

- Solution to fill the current shortfall in strategic airlift capability and capacity
- Developing joint operational frameworks for executing airlift missions
- Advancing the future of strategic airlift capabilities

Lieutenant Colonel Daniel Achterholt DEU. Commanding Officer, **Strategic Airlift Coordination Cell**



1510 – Afternoon coffee and networking SPONSORSHIP AVAILABLE

ADVANCED ENGINEERING VEHICLES

DEVELOPING MILENG CAPABILITIES

KEEPING THE FLEET MOVING: ADVANCED MANUFACTURING

LOGISTICS IN THE HIGH NORTH

1600 – Engineers and Robots: the US Army's plan to remove Sappers from dangerous, dull and dirty missions

- Prototyping vehicles to define requirements for future autonomous engineer capabilities
- Pros and cons of robots for engineering tasks
- Future concept development and timelines

Lieutenant Colonel Jon Armstrong. **Engineer Branch Chief - Requirements** Determination Division, US Army Futures Command



1600 - Military Engineering: a whole of society approach

- Military Engineering; warfighting and contribution to resilience
- Cooperation of MILENG and CMI civil infrastructure specialists

Lieutenant Colonel Johan Kranenburg MA, Head of Engineer Centre of Expertise - Engineer Training Centre, **Netherlands Army Command**



1600 – Building resiliency through advanced manufacturing

 Points to be confirmed Richard Martin, Director of Supply Chain Management, US Army Materiel

1600 – Enabling logistics operations in the high north

- Current force laydown and how we're adapting
- Development opportunities across our AOR
- Future plans and areas of collaboration

Brigadier General Scott McKenzie, Director General Support, Canadian Joint Operations Command, Canadian Armed **Forces**



1620 – Armoured engineering at war

- Breaching, bridging and digging in range of the enemy
- Equipping Armoured Fighting Vehicles to conduct armoured engineering tasks
- Use of Uncrewed Ground Vehicles to conduct armoured engineering tasks Hosted by **Pearson Engineering**

⊒ PEARSON TE ENGINEERING

1620 – Implementation of easily redeployable camp facilities

- Benefits of deployed solutions
- Building solutions that can mitigate the drain on military resources
- Cost/benefit analysis of contracting via HNS

Hosted by Modular Systems



1620 - Sustaining combat capability through combat manufacturing

- Managing the energy demands of multi service platforms
- Energising the next conflict based on lessons identified in recent engagements
- Potential solutions to significantly reduce maintenance chains via 3D printing

Hosted by Speed3d



1620 – Industry solutions for enhancing logistics in cold weather theatres

- Ensuring assets can cope at range in sub zero conditions
- Inventory management considerations with decreased EMS abilities
- Future plans for delivering more equipment further north



1650 – Engineering vehicles: **SCORPION and TITAN updates**

- Future of crewed and uncrewed engineering platforms for the French Armv
- Replacing EBG with a new combat engineer vehicle (CEV)
- Providing a high level of protection balancing between engineer capabilities and weight

Lieutenant Colonel Stephane Lime, Future Studies Department - Engineer School, French Army



1715 – Chairman's summary Brigadier General (Ret'd) Frédéric Pesme. Former Deputy Director of Policy and Capabilities, NATO HQ



1730 – Evening networking and drinks reception SPONSORSHIP AVAILABLE

1930 – Close of drinks reception

1650 – EURETEX 2024: lessons learnt preparing engineer troops for multinational operations

- Testing concepts to enhance interoperability among engineer troops at the tactical level
- FIR: practical lessons learnt and recommendations

1715 – Chairman's summary

Directorate, British Army

 Preparations for EURETEX 2026 Colonel Johan Drossart, ACOS GENG, **EUROCORPS**

Colonel Adam Foley, Assistant Head

Military Engineering - Programmes



1650 – The impact of additive manufacturing on reducing supply chains

- Current AM solutions and issues
- EU investment programmes in AM solutions
- Next generation of printed parts Martin Huber, Project Officer Additive Manufacturing and Logistics, European **Defence Agency**



 Points to be confirmed Lieutenant Commander Justin Burdett. CTF63 6th Fleet Readiness Officer, US Navy

1650 – Logistic movements in the high



north

1715 – Chairman's summary **Brigadier Mike Caldicott, Director** Future Support Services. UK MoD



1715 – Chairman's summary Brigadier (Ret.) Duncan Bedding, Former Commander Standing Joint Logistics Support Group, NATO



DAY THREE | THURSDAY 27 MARCH | FOCUSSED CONFERENCE STREAMS

0800 - Badge collection and registration SPONSORSHIP AVAILABLE

0800 - Welcome coffee Hosted by Highland Engineering



STREAM A THE FUTURE OF COUNTERMOBILITY AND AREA ACCESS CONTROL

LEAD STREAM SPONSORSHIP AVAILABLE

0850 – Chairman's introduction

Brigadier General (Ret'd) Frédéric

Pesme, Former Deputy Director of Policy
and Capabilities, NATO HQ



AREA CONTROL: TRENDS AND CHALLENGES IN COUNTERMOBILITY

0900 – Improving engineer operations in the high north; developing counter mobility and force protection

- Combat engineering readiness for challenging tasks in highly complex terrain conditions
- Improving interoperability with allies and partners; increasing international connectivity
- Current and future priorities
 Colonel Riku Mikkonen, Inspector of Engineers and CBRNe, Finnish Army
 Command



STREAM B FORCE PROTECTION ENGINEERING: PERIMETERS AND REINFORCED STRUCTURES

In association with



0850 – Chairman's introduction

Dan Harder, Research Civil Engineer Geotechnical and Structures Lab, US

Army Engineer Research and
Development Center (ERDC)





RAPIDLY DEPLOYABLE PROTECTED AND PERIMETER INFRASTRUCTURE

0900 – "East Shield": plans to reinforce Poland's eastern border

- Context: deterring and controlling border flashpoints and hybrid conflict with Belarus
- Designing an "impenetrable" border
- Plans and timelines for construction of fortifications

Colonel Tomasz Czekirda, Lead Senior Staff Officer - Military Engineering, General Command of the Polish Armed Forces



STREAM C OPPORTUNITIES FOR OUTSOURCING SUPPLY CHAINS

LEAD STREAM SPONSORSHIP AVAILABLE

0850 – Chairman's introduction

Brigadier Mike Caldicott, Director

Future Defence Support Services, UK

MoD



CONTRACTOR SUPPORT FOR LARGE SCALE COMBAT OPERATIONS

0900 – Adoption of Advanced Technologies in Maintenance by the British Army

- Development of traditional methods using modern facilities
- Advanced manufacture achievements
- Advanced manufacture aims

Lieutenant Colonel Adrian Lovelock, SO1 Equipment Support, Futures Directorate, **British Army**



STREAM D DIGITISATION OF LOGISTICS: REAL-TIME LOGISTICS VISIBILITY

In association with



0850 – Chairman's introduction

Brigadier (Ret.) Duncan Bedding,
Former Commander Standing Joint
Logistics Support Group, NATO



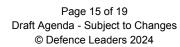
REDUCING THE LOGISTICS FOOTPRINT

0900 – From procurement to deployment from a logistics perspective

- Using the example of BODLUV acquisition programmes
- Logistical requirements
- Levels of logistics

Lieutenant Colonel Guido Schneider, Head of Systems Management, Swiss Armed Forces





0925 - Counter-mobility: back to the future

- What is required for counter-mobility, especially Anti-Tank Mines (ATM) in the future?
- Mines comparison; practical differences between new generation "smart mines" and traditional mines
- New solutions for going back to the future

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0925 – Rapidly deployable barriers, bunkers and sangers

- Durable rapidly deployable barriers for military and critical infrastructure protection
- Overhead Protection Systems, FOBs, fighting positions and munitions storage solutions
- Expeditionary camp design for maximum force protection

Hosted by **HESCO**



0925 – How and where to increase logistical collaboration in the land domain

- Coordinating competing investment priorities
- Influences on future direction of Logistics requirements
- Collaborative opportunities for the next 5 years

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0925 – ERP Reimagined for global defence organisations

- Optimising and combining logistical support
- Support for true disconnected operations ashore and afloat
- Native support for key defence capabilities (munitions, guided weapons, food service, bulk fuels, medical, spares, transportation

Hosted by One Network Enterprises



0950 – Fighting and operating differently; future roles and equipment for Engineers

- HWF26 and future roles for Royal Engineers supporting manoeuvre
- Accelerating technology adoption
- Maximising engineer interoperability with partners and with the other domains

Colonel Adam Foley, Assistant Head Military Engineering - Programmes Directorate, **British Army**



0950 – Future Construction Capabilities; robotic construction of fighting positions

- Operationalising 3D robotic construction for fortified positions
- Research and development aims for engineer construction capabilities
- Sustainable construction practices
 Dan Harder, Research Civil Engineer -Geotechnical and Structures Lab, US
 Army Engineer Research and
 Development Center (ERDC)





0950 – NSPA Support to Combat Logistics

- Overview of NSPA
- Current military logistics support and activities
- Planning for future military logistics support

Lieutenant Colonel Colin Munce, Supply Chain Transformation, NATO Support and Procurement Agency



0950 – Feedback from Connected Logisticians 2024

- Aims of the exercise: practise and improve the deployment planning and execution, RSOM, sustainment of forces
- Logistic Reporting with using LOGFAS
- Plans for Connected Logisticians 2026

Colonel Marek Swiercz, Deputy Director, Multinational Logistics Coordination Centre



1015 – Morning coffee and networking SPONSORSHIP AVAILABLE



ENGINEER RECONNAISSANCE: LEVERAGING AUTONOMOUS SYSTEMS

1100 – Meeting the growing need for engineering capabilities; how small militaries are meeting the demand

- Applications and innovations in autonomous systems for combat engineers
- Enabling robotic platforms in GNSS denied unpredictable and challenging battlespaces
- Possible future developments for ENG reconnaissance

Lieutenant Colonel Robert Budimir Bekan, Operations and Training Section Head, Croatian Land Force



1125 – Beyond line of sight reconnaissance in austere environments

- Fusing mission data and utilising edge computing to support critical decision making in a timely manner
- UAS applications and reducing operational risks for humans
- Integrated ground penetrating radar (GPR), light detection and ranging (LiDAR) (including a topo-bathymetric scanner) and thermal and multispectral sensors

Hosted by ISS AEROSPACE



FORTIFICATIONS AND PERIMETER SOLUTIONS

1100 – Project MITER: Enabling increased operational effect within constrained resources

- Components of the concept
- Benefits and challenges of the approach; end user and contractor perspectives
- Undertaking tasks in the UK, on deployed operations and for training worldwide

Major Nik West, Project Manager, **British Army**



RAPID DISTRIBUTION OF SUPPLIES

1100 – Expeditionary logistics in contested environments

Points to be confirmed
 Brigadier General Forrest Poole III,
 Assistant Deputy Commander Logistics
 Plans, US Marine Corps



TACTICAL LOGISTICS CONSIDERATIONS

1100 – The unique challenges of SOF logistics

- Where we operate and the logistical implications
- Innovation in the supply chain: what we're looking at why
- Next steps for SOF support

William Stanley, Deputy Director, Special Operations Command Africa J4, Special Operations Command Africa



1125 – Innovative force protection solutions; defending people assets and equipment from a multitude of real-world threats

- Durable rapidly deployable barriers for military and critical infrastructure protection
- Overhead Protection Systems, FOBs, fighting positions and munitions storage solutions
- Expeditionary camp design for maximum force protection

Hosted by **DIRICKX**



1125 – An alternative supply chain solution designed to increase the readiness of legacy systems

- Resolving pressing obsolescence problems for legacy systems
- An immediate, cost effective solution for obsolete, hard to find, long lead time parts and spares
- Improve short- and long-term sustainment of many legacy platforms through proactive obsolescence

Hosted by CTG



1125 – Preparing units to take advantage of technology for last mile delivery

- Feedback from recent operations and exercises and how these are rolling out to larger programmes
- How to make better use of land sub-units for organic support
- Applying technological applications to future programmes

1150 – EDA Research & Technology projects in the field of combat engineering

- eUGS: Control and management system for multiple combat engineering Unmanned Ground Systems
- IEDDET II: developing multi-sensor technology for the stand-off detection and confirmation of IEDs and IED components
- Future priorities for EDA
 Lieutenant Colonel Luigi Fasano,
 Project Officer Emerging Land
 Technologies, European Defence
 Agency



1215 - Chairman's closing remarks
Brigadier General (Ret'd) Frédéric
Pesme, Former Deputy Director of Policy
and Capabilities, NATO HQ



1215 – Lunch and networking SPONSORSHIP AVAILABLE

1150 – Using Camouflage, Concealment, Deception, and Obscuration to protect engineer and logistic movements

- Increasing operational security for logisticians and engineers in increasingly transparent battlefields
- CCD in the Electromagnetic Spectrum
- Refocusing efforts as a result of lessons from Russia-Ukraine conflict

Carey Price, Senior Research Engineer, US Army Engineer Research and Development Center (ERDC)





1150 – Update on the Norway's 12 year defence plan and what it means for Logistics

- HNS original concepts used by NATO
- How Total Defense is integrated in the effort to strengthen the Norwegian resilience and ability to defend
- Future plans and requirements for the Norwegian armed forces

Colonel Ståle Rudiløkken, Senior Functional Leader Logistics (J4), Defence Staff Norway



1150 – Ensuring support to Operation INTERFLEX: the UK's mission to train Ukrainian personnel

- Global supply chains
- Sourcing of significant resource at very short notice
- Pinch points for training

Colonel Alex West, DACOS Logistic Operations, British Army



1215 - Chairman's closing remarks

Dan Harder, Research Civil Engineer Geotechnical and Structures Lab, US

Army Engineer Research and

Development Center (ERDC)





1215 - Chairman's closing remarks

Brigadier Mike Caldicott, Director

Future Defence Support Services, UK

MoD



1215 - Chairman's closing remarks Brigadier (Ret.) Duncan Bedding, Former Commander Standing Joint Logistics Support Group, NATO



ENGINEER SUPPORT TO LARGE SCALE COMBAT OPERATIONS

Engineers will continue to play a pivotal role on the dynamic battlefields of the future; supporting forces engaging with increasingly sophisticated threats and complex operational environments. This session will explore the evolving role of engineers in contemporary large scale combat operations, illustrating how innovation is enhancing mission effectiveness and adaptability.

1315 - Shaping the battlefields of the future

- The current geo strategic reality: complex new battlefields and their physical, cognitive and virtual dimensions
- Interactions and capabilities required for Cross-Domain manoeuvre and how MILENG influences MDO
- Technological development in MILENG; artificial intelligence, data, autonomy, quantum-enabled

Colonel Kyle Moulton, Commander 7th Engineer Brigade, US Army



1340 - Delivering support at the speed of war

- Executing creative, innovative and cost-efficient support solutions
- Dynamic project execution support in rugged, austere, and challenging locations
- Responsive and complete solutions for mission support on the edge

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1405 – Consolidating gains in non-linear and noncontiguous operations

- Improving engineer command and control across dispersed operations
- Task prioritisation and changes to the employment of engineers in dynamic combined arms manoeuvre
- Engineer support to deep operations

Colonel Mariusz Ochalski, Deputy Head of the Military Engineering Directorate, **General Command of the Polish Armed Forces**



1430 – Chairman's summary of close of conference

Brigadier General (Ret'd) Frédéric Pesme, Former Deputy Director of Policy and
Capabilities, NATO HQ



1535 – Conference closes

DEDICATED MISSION LOGISTICS IN DENIED ENVIRONMENTS

One of the most economical ways of supplying future missions is to pool, exchange and unilaterally develop resources both with other militaries and industry partners. The final section of the conference will look back at our discussions and address how partner nations can integrate modern principles and technology into collective logistics.

1315 – Swiss Armed Forces: From peace logistics to war logistics

- Swiss armed forces Update
- Components of war logistics
- Combined logistics

Brigadier General Meinrad Keller, Commander 1st Logistics Brigade, **Swiss Armed Forces**



1340 – The role of Ex DEFENDER in checking and improving NATO capabilities

- The role of technology in ensuring decision makers have the required information
- Simplifying complex processes and ensuring full visibility of inventories
- Roles of participating nations and opportunities for collaborations

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1405 – Modern transportation solutions suitable for contemporary operations

- Trusted methods of delivery via road, sea and air and their scope to develop
- Operational feedback from recent conflicts
- System modifications that will extend life cycles and promote economic efficiency

Brigadier General Nicole de Wolf-Fabricius, Commander Operational Support Command Land, **Royal Netherlands Army**



1430 – Chairman's summary of close of conference

Brigadier Mike Caldicott, Director Future Defence Support Services, UK MoD

