

# INTERNATIONAL

# MILITARY HELICOPTER



Three Day Conference: 25-27 February 2020  
Venue: The Hurlingham Club, London, United Kingdom

## DEFINING THE FUTURE OF VERTICAL LIFT

### YOUR 2020 KEYNOTE SPEAKERS INCLUDE:



**Lieutenant General  
Raul Hoyos De Vinatea,**  
Chief of Staff,  
**Peruvian Air Force**



**Air Vice-Marshal  
Graham Russell,**  
Director Helicopters,  
Defence Equipment  
and Support,  
**UK MoD**



**Major General  
Andreas Hannemann,**  
Commander Rapid  
Forces Division,  
**German Army**



**Brigadier General  
Michael C. McCurry,**  
Director, Army Aviation,  
Office of the Deputy Chief  
of Staff, G-3/5/7,  
**U.S. Army**



**Brigadier General  
Allan M Pepin,**  
Commander,  
**U.S. Army Special  
Operations Aviation  
Command**

#### FIVE STAR LEAD PARTNER



#### TWO STAR PARTNER



#### ONE STAR PARTNERS



Chaired By  
**Lieutenant General (Retd.) Ken Tovo**  
Former Commander,  
**US Army Special Operations Command**

# WELCOME FROM OUR 2020 CHAIRMAN

Dear Colleagues,

The 2020 International Military Helicopter conference comes at an important moment for our community. The US Future Vertical Lift Programme provides an opportunity for us to reflect on the key challenges facing global rotary wing operations today and tomorrow. We are increasingly seeing a vision for the future helicopter which targets increased range, speed, payload and survivability, coupled with open architectures, increased connectivity and improved integration with unmanned systems. Realizing that vision depends not just on a fresh approach to acquiring and integrating capability, but also demands a rethink of the doctrine, training and through-life support model which will enable us to leverage those future platforms effectively.

Bold ambitions require a bold program, and that is exactly what IMH 2020 will deliver; we have a great collection of speakers from around the world who will help us delve into the critical issues. With each day covering a specific theme – Vision 2030, Warfighter Readiness/Current Ops and Platform Readiness – there is a rare opportunity to look across the life cycle of the platforms we have now and those we will fly in the future. The overall objective is to maximize the readiness of our forces, whether that be through improved through-life support, by managing the capability gap or by reworking our approach to recruitment and retention. The program will, for the first time, also offer specific streams covering individual mission sets – heavy lift, attack and maritime operations foremost among them. That will ensure that operators in every domain can meet the unique challenges that they face and will also help to streamline approaches to those platforms which are expected to be multi-role.

In the United States, the Army's FVL Cross-Functional Team is advancing towards acquisition for the Future Long-Range Assault Aircraft (FLRAA) and the Future Attack Reconnaissance Aircraft (FARA), with industry working hard to field platforms and systems which can take advantage of a hyper-connected, contested and multidomain battlespace. As FVL advances, I am delighted that we will be joined at the 2020 conference by both Brigadier General Michael McCurry, Director, Army Aviation, Office of the Army Deputy Chief of Staff, G-3/5/7, and Brigadier General Allan Pepin, Commander, US Army Special Operations Aviation Command. They will provide vital perspectives on the future Army Aviation enterprise.

So, with all that said, welcome to the program for the 2020 conference. I hope you will join 200 defence and industry leaders in London next February, for what is a worldleading conference on the future of vertical lift. Truly, an unmatched opportunity to dialog with the world's military and industry experts in the field.



**Lieutenant General (Retd.) Ken Tovo**  
Former Commander,  
US Army Special Operations Command

## ABOUT THE CHAIRMAN

Lieutenant General Ken Tovo culminated his 35-year military career in 2018, serving as the commander of the US Army Special Operations Command (USASOC). He was responsible for manning, training, equipping, and providing strategic direction to all the Army's Special Operations forces (Green Berets, Rangers, Special Ops Aviation, Civil Affairs, and Psychological Operations), a combined organization of over 34,000 people.

He began his service in the Infantry upon graduation from the US Military Academy in 1983. After serving his initial tour with the 82nd Airborne Division, Tovo completed the Special Forces Qualification Course and transferred to the Special Forces branch. He served as a Special Forces detachment, company, battalion, and group commander in the 10th Special Forces Group (Airborne).

Tovo's additional assignments included serving as a plans and operations officer with 1st Special Forces Operational Detachment-Delta and Joint Headquarters Center (NATO); aide de-camp to the commander, Stabilization Force, Bosnia; Chief of Staff, USASOC; Deputy Commanding General, Special Operations Command Europe; Director, Special Operations Division-Iraq; Deputy Commanding General, 1st Armored Division/U.S. Division Center, Iraq; Commanding General, Special Operations Command Central; Commanding General, Combined Security Transition Command-Afghanistan and NATO Training Mission-Afghanistan; and Deputy Commander, US Southern Command in Miami, Fla.

LTG Tovo's operational assignments include the first Gulf War, refugee relief operations in Northern Iraq, noncombatant evacuation operations in Sierra Leone, peacekeeping operations in Bosnia on two occasions, five tours in Iraq, and one tour in Afghanistan.

He earned a BS in Aerospace Engineering from the US Military Academy at West Point, an MS in Advanced Military Studies from the US Army Command & General Staff College, and a MS in Strategic Studies from the US Army War College.

He is the President & CEO of DOL Enterprises, Inc., a consulting firm focused on providing advice on strategic planning, risk management, and organizational effectiveness and serves on the board of several companies.

Ken and his wife, Suzanne, have been married for 34 years. They raised two sons who both serve the Nation – one as a Special Forces officer and the other as a high school English teacher.





# AGENDA AT A GLANCE

## DAY ONE / VISION 2030

With the US Army's FVL Cross-Functional Team advancing towards acquisition for the Future Long-Range Assault Aircraft (FLRAA) and the Future Attack Reconnaissance Aircraft (FARA), there is a need to define the role that the helicopter will play within the operating environment of the future. As FVL and other major acquisition programmes move forward, we are already seeing a blueprint for the future helicopter which relies on increased range, speed, payload and survivability, coupled with open architectures, increased connectivity and improved integration with unmanned systems. The opening day will provide an opportunity to debate the future capability balance, and to assess how our operational concepts should be updated to meet the demands of the multi-domain battlespace.

### Topics of discussion to include:

- Requirements setting and future platform design
- Unmanned systems integration
- Applying AI and ML to support data management and decision-making
- Platform survivability, range and reach in the contested operating environment
- "Multi-role" as a viable concept for the multi-domain battlespace

### Attend Day One if your objectives are to:

- Hear the latest on major initiatives including the US Army's FVL program and define a blueprint for future helicopter design
- Force multiply manned rotary air assets by integrating MUM-T and RWUAS
- Augment lethality and survivability in readiness for high-end operations by integrating advanced weapons systems and next-generation platform protection
- Protect and defend the information and network capabilities of future platforms by embedding cyber resiliency as a core component of future platform design

### FEATURED SPEAKERS:



**Brigadier General Michael McCurry II,**  
Director, Army Aviation, Office of the Deputy Chief of Staff, G-3/5/7,  
US Army



**Brigadier General Allan M Pepin,**  
Commanding General,  
US Army Special Operations Aviation Command

## DAY TWO / WARFIGHTER READINESS: TRAINING AND CURRENT OPS

As advanced helicopter forces continue to work towards a bold future vision, there are a range of competing operational priorities that demand attention today. Day Two of the conference will concentrate on achieving and sustaining a high-level of training and readiness for current and near-term operations, with dedicated streams covering a range of helicopter mission sets. Underpinning the discussion will be questions on how our operational concepts and doctrine must adapt to support an evolving force structure.

### Topics of discussion to include:

- Developing the blended training model – simulating complex operations
- Equipping the warfighter for the full-spectrum of operations – from heavy lift to attack, maritime to armed scout
- Rethinking operational concepts and doctrine for a multi-domain era

### Attend Day Two if your objectives are to:

- Understand and respond to the unique training requirements facing helicopter operators in the land versus the maritime environment
- Drive up warfighter readiness by delivering a live and synthetic training model which accurately simulates the demands of a contested and multi-domain battlespace
- Augment the C2 and decision-making architecture necessary to ensure that future forces can deter, compete and win at the speed of the future fight

### FEATURED SPEAKERS:



**Major General Andreas Hannemann,**  
Commander Rapid Forces Division,  
German Army



**Brigadier General Enrique Victor Amrein,**  
Chief of Staff,  
Argentine Air Force

## DAY THREE / PLATFORM READINESS

The final day of the conference recognises a harsh reality: a bold vision for the future will be no use if not supported by a robust approach to managing the capability gap and sustaining the deployability of existing fleets. With current assets expected to operate through this decade and well in to the next, it is imperative that we find new approaches to driving up availability rates and to refining the logistics and support model that will enable those platforms to operate in theatre – however complex that theatre becomes. With that in mind, this day will provide a vital opportunity for commercial providers of MRO and logistics solutions to engage with the OEMs and operators who will depend on them to shoulder some of the accountabilities and risks associated with fleet performance.

### Topics of discussion to include:

- Upscaling availability and reducing downtime
- Sustaining legacy platforms through-life and recapitalising existing fleets
- Outsourcing MRO to commercial partners
- Fleet management, predictive maintenance and logistics

### Attend Day Three if your objectives are to:

- Access the leading helicopter OEMs and understand how commercial MRO and support solutions can help them to help their military customers
- Improve fleet performance and reduce operational risk by effectively outsourcing helicopter MRO to commercial providers
- Pre-empt failures and optimise the helicopter supply chain by embedding condition monitoring, predictive maintenance and advanced SCM solutions
- Extend the life cycle of existing platforms and close the capability gap by examining retrofit and mid-life upgrade options

### FEATURED SPEAKERS:



**Lieutenant General Raul Hoyos de Vinetea,**  
Chief of Staff,  
Peruvian Air Force



**Air Vice-Marshal Graham Russell,**  
Director Helicopters, Defence Equipment and Support,  
UK MoD

# OUR INTERNATIONAL 2020 SPEAKER FACULTY INCLUDES:



**Lieutenant General  
Raul Hoyos de Vinetea,**  
Chief of Staff,  
**Peruvian Air Force**



**Air Vice-Marshal  
Graham Russell,**  
Director Helicopters,  
Defence Equipment  
and Support,  
**UK MoD**



**Major General  
Andreas Hannemann,**  
Commander Rapid  
Forces Division,  
**German Army**



**Major General  
Christos Iliopoulos,**  
Director, Army Aviation,  
**Hellenic Army**



**Major General  
Alain Pelletier,**  
Commander, 1 Canadian  
Air Division,  
**Royal Canadian Air Force  
(Tentative)**



**Brigadier General  
Allan M Pepin,**  
Commander,  
**U.S. Army Special  
Operations Aviation  
Command**



**Brigadier General  
Michael C. McCurry,**  
Director, Army Aviation,  
Office of the Deputy  
Chief of Staff, G-3/5/7,  
**U.S. Army**



**Air Commodore  
Robert Adang,**  
Commander Defence  
Helicopter Command,  
**Royal Netherlands  
Air Force**



**Air Commodore Al Smith,**  
Head of Capability  
Air Manoeuvre,  
**Army Headquarters**



**Brigadier General  
David Sanford,**  
Commander, DLA Aviation,  
**Defense Logistics  
Agency (Subject to  
Legal Approval)**



**Brigadier General  
Rory O'Connor,**  
General Officer  
Commanding,  
**Irish Air Corps**



**Brigadier General  
Enrique Victor Amrein,**  
Chief of Staff,  
**Argentine Air Force**



**First Admiral  
Sazalee bin Shoib,**  
Commander Naval Aviation,  
**Royal Malaysian Navy  
(Tentative)**



**Mr Patrick H Mason SES,**  
Deputy PEO, Aviation,  
**US Army**



**Colonel Holger  
Radmann,**  
Deputy Assistant Chief  
of Staff Capability  
Management,  
**German Air Force**



**Colonel Jack Perrin,**  
Programme Manager,  
PMA-261 H53 Heavy  
Lift Helicopters,  
**US Naval Air Systems  
Command**



**Colonel Bruno Paupy,**  
Deputy Chief, Plans Division,  
**French Air Force**



**Colonel  
Sławomir Małkosa,**  
Commander, 1st Army  
Aviation Brigade,  
**Polish Armed Forces**



**Colonel Davide  
Marzinotto,**  
Chief of 2nd Office –  
Logistics Department,  
**Italian Air Force**



**Colonel Dimitar Pavlov,**  
Deputy Commander,  
24th Helicopter Air Base,  
**Bulgarian Air Force**



**Colonel Andreas Pfeifer,**  
Deputy Commander  
Rapid Forces Division,  
**Bundeswehr**



**Colonel Muhamed  
Hasanovic,** Chief of Staff  
Air Brigade and Air Defence,  
**Bosnia & Herzegovina  
Armed Forces**



**Commander Bart Blok,**  
Commander 860 Squadron,  
**Dutch Defence  
Helicopter Command**



**Commander  
Jean-Luc Richard,**  
Branch Chief, Rotary  
Requirements / FVL,  
**US Navy**



**Major Eligijus Rukšnaitis,**  
Commander,  
Air Operations Group,  
**Lithuanian Air Force**



**Carvil E Chalk,**  
Acting Director, Aviation  
Development Directorate,  
**US Army Combat  
Capabilities  
Development Command  
Aviation & Missile Center**



**Jorge Van Hemelryck,**  
Chief of the Strategy  
Office, Aeronautical  
Maintenance Directorate,  
**DGA**



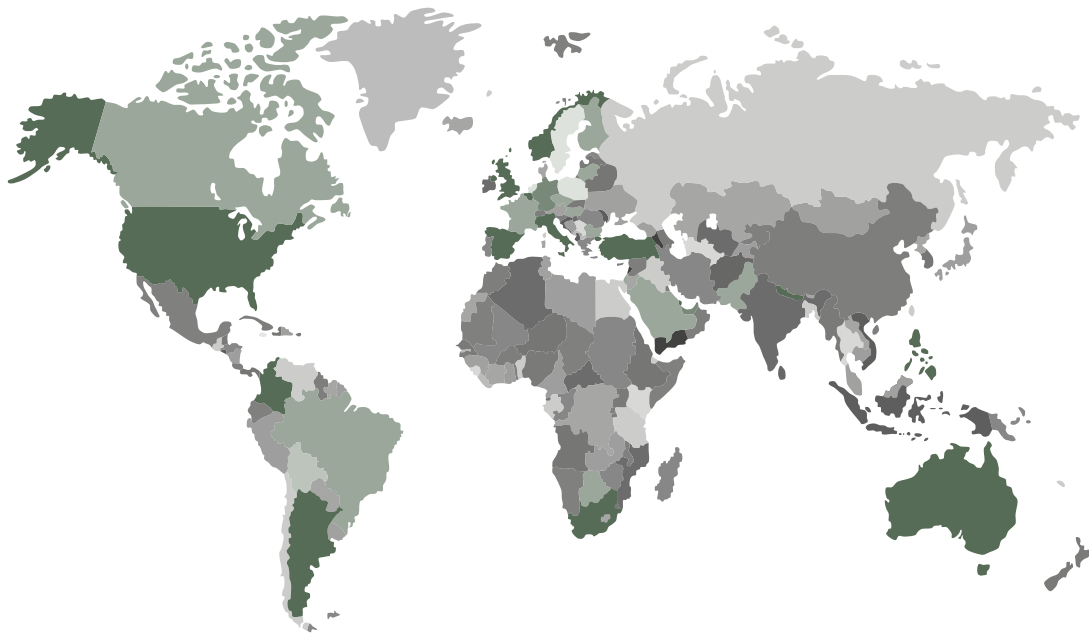
**Michael Schäfer,**  
Programme Manager,  
A400M and NH90/TIGER  
Programme Office (LN),  
**NATO Support and  
Procurement Agency  
(NSPA)**



Senior Representative,  
**Portuguese Air Force**

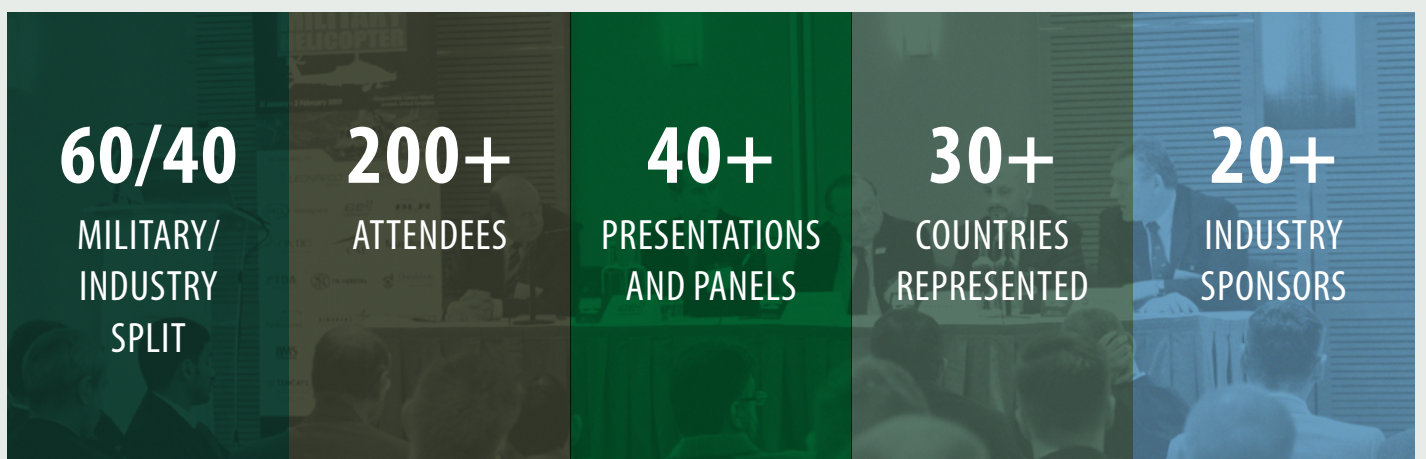


# WHO ATTENDS INTERNATIONAL MILITARY HELICOPTER?



Argentina		Germany		Poland	
Australia		Hungary		Qatar	
Belgium		Israel		Saudi Arabia	
Botswana		Italy		South Africa	
Brazil		Lithuania		Spain	
Bulgaria		Luxembourg		Sweden	
Canada		Nepal		The Netherlands	
Colombia		Norway		Turkey	
Czech Republic		Pakistan		United Arab Emirates	
Finland		Peru		United Kingdom	
France		Philippines		United States	

## KEY STATISTICS












# DAY ONE • TUESDAY 25 FEBRUARY 2020

## VISION 2030 – DEFINING A PATHWAY FOR FUTURE VERTICAL LIFT

0800	<b>REGISTRATION &amp; COFFEE</b>
0900	<p><b>DEFENCE IQ WELCOME</b></p> <p><b>Ben McClatchie</b>, Senior Conference Producer - Defence, <b>Defence IQ</b></p>
0905	<p><b>CHAIRMAN'S OPENING REMARKS</b></p> <p><b>Lieutenant General (Ret.) Kenneth E. Tovo</b>, Former Commander, <b>US Army Special Operations Command</b> &amp; Chairman, <b>International Military Helicopter 2020</b></p>
0915	<p><b>OPENING KEYNOTE: THE FUTURE ARMY AVIATION ENTERPRISE</b></p> <ul style="list-style-type: none"> <li>● Rethinking the force structure to support multi-domain helicopter operations against a peer adversary</li> <li>● Integrating FVL within the future joint force, and planning for a capability transition</li> <li>● Preparing for long-range assault operations in a contested operating environment – delivering range and reach for the future helicopter force</li> <li>● Where are the opportunities for the future Army Aviation enterprise? Embedding autonomy and exploiting innovation in readiness for the future fight</li> </ul> <p><b>Brigadier General Michael McCurry</b>, Director, Army Aviation, Office of the Deputy Chief of Staff, G-3/5/7, <b>U.S. Army</b></p>
0945	<p><b>DELIVERING A JOINT HELICOPTER CAPABILITY FOR THE FUTURE</b></p> <ul style="list-style-type: none"> <li>● Enabling the UK's future joint operations and retaining air manoeuvre in the complex battlespace</li> <li>● Establishing common doctrine and TTPs to support interoperability for NATO's helicopter forces</li> <li>● Supporting force integration at the operational and tactical levels. Considerations for complex mission sets</li> <li>● Networking the future helicopter force. Enhancing connectivity intra-force and inter-force</li> </ul> <p><b>Air Commodore Al Smith</b>, Head of Capability Air Manoeuvre, <b>Army Headquarters</b></p>
1015	<p><b>FUTURE VERTICAL LIFT IN A SPECIAL FORCES CONTEXT</b></p> <ul style="list-style-type: none"> <li>● Deploying globally to execute dynamic missions in challenging environments</li> <li>● Modernising to provide enhanced combat power for the joint force. Leveraging AI as a critical component of future USASOC aviation</li> <li>● Refining TTPs to support lethality and readiness for JMDO</li> <li>● Sustaining communications and mission command in the contested environment</li> </ul> <p><b>Brigadier General Allan M Pepin</b>, Commander, <b>US Army Special Operations Aviation Command</b></p>
1045	<b>MORNING COFFEE AND NETWORKING</b>
1130	<p><b>REVISING OPERATIONAL CONCEPTS FOR FUTURE HELICOPTER OPERATIONS</b></p> <ul style="list-style-type: none"> <li>● Short-term priorities for the Dutch Defence Helicopter Command. Driving up availability and retaining personnel</li> <li>● Defining an operational concept which better reflects the characteristics of the multi-domain operating environment. Avoiding stovepiping and developing a combined approach to multiple mission sets</li> <li>● Creating a continuum of operations which recognizes network-centricity, unmanned systems integration and small-scale deployments as components of every mission set</li> <li>● Applying a new operational concept to standardize training and create synergy across the full-spectrum of joint operations – ultimately supporting the ability to deliver joint effects</li> </ul> <p><b>Air Commodore Robert Adang</b>, Commander, <b>Dutch Defence Helicopter Command</b></p>



<p>1200</p> 	<p><b>DELIVERING LETHAL AND SURVIVABLE VERTICAL LIFT</b></p> <ul style="list-style-type: none"> <li>● Delivering manoeuvrability, range and lethality for future vertical lift</li> <li>● Defining critical capabilities for next-generation platforms – building a modular system architecture and embedding cyber resilience</li> <li>● Assuring platform survivability for complex operations in the contested environment</li> </ul> <p><b>Mr Patrick H Mason SES</b>, Deputy PEO, Aviation, <b>US Army</b></p>
<p>1230 <b>NETWORKING LUNCH</b></p>	
<p>1400</p> 	<p><b>FROM TECHNOLOGICAL INNOVATION TO READINESS – MEETING THE FUTURE THREAT</b></p> <ul style="list-style-type: none"> <li>● Technology as a game-changer; introducing new capabilities and CONOPS</li> <li>● Harnessing data to ensure future forces can compete and win. From C2ISR to condition-based maintenance</li> <li>● Delivering a resilient information architecture which can take advantage of the connected battlespace without increasing vulnerability to cyber and IW threats</li> <li>● Developing the architecture for advanced teaming. Integrating manned rotary, unmanned systems and air-launched effects to accomplish greater situational awareness, lethality and survivability</li> </ul> <p><b>Carvil E Chalk</b>, Acting Director, Aviation Development Directorate, <b>US Army Combat Capabilities Development Command Aviation &amp; Missile Center</b></p>
<p>1430</p> 	<p><b>THE VISION FOR FRANCE'S FUTURE HELICOPTERS</b></p> <ul style="list-style-type: none"> <li>● Helicopters in the post-2030 air domain. Providing an enabler that can integrate with the future joint force</li> <li>● The impact of autonomy on future operational concepts. Successfully integrating manned-unmanned teaming</li> <li>● Optionally manning future helicopters. Identifying technical and doctrinal considerations and minimising risk for future assets and crews</li> </ul> <p><b>Colonel Bruno Paupy</b>, Deputy Chief, Plans Division, <b>French Air Force</b></p>
<p>1500 <b>AFTERNOON COFFEE AND NETWORKING</b></p>	
<p>1530</p> 	<p><b>RAPIDLY DEPLOYING CANADA'S HELICOPTERS FOR OPERATIONS TODAY AND TOMORROW</b></p> <ul style="list-style-type: none"> <li>● Sustaining a decisive command and control function for Canada's helicopters as they deploy in the complex theatre</li> <li>● Increasing connectivity across the force and enabling joint force integration</li> <li>● Integrating unmanned systems as a vital force multiplier within the future air mix</li> </ul> <p><b>Major General Alain Pelletier</b>, Commander, 1 Canadian Air Division, <b>Royal Canadian Air Force (Tentative)</b></p>
<p>1600</p> 	<p><b>UNMANNED SYSTEMS WITHIN THE FUTURE ROTARY MIX</b></p> <ul style="list-style-type: none"> <li>● How will unmanned systems support the future manned helicopter platform?</li> <li>● To what extent can unmanned rotary systems operate autonomously?</li> <li>● How might the unmanned system gap-fill for the manned platform in the high-threat, contested environment? Can the survivability of those platforms be high enough?</li> </ul> <p><b>Moderator:</b> <b>Lieutenant General (Ret.) Kenneth E. Tovo</b>, Former Commander, <b>US Army Special Operations Command &amp; Chairman, International Military Helicopter 2020</b></p> <p><b>Early-Confirmed Panellist:</b> <b>Colonel Bruno Paupy</b>, Deputy Chief, Plans Division, <b>French Air Force</b></p>
<p>1645</p> 	<p><b>CHAIRMAN'S CLOSING REMARKS</b></p> <p><b>Lieutenant General (Ret.) Kenneth E. Tovo</b>, Former Commander, <b>US Army Special Operations Command &amp; Chairman, International Military Helicopter 2020</b></p>
<p>1655</p> 	<p><b>NETWORKING DRINKS RECEPTION HOSTED BY BELL HELICOPTER</b></p>  
<p>1800 <b>CLOSE OF DAY ONE</b></p>	











*“Excellent update on a wide variety of technological innovations and illuminating information on other force’s methods of operations”*

Lieutenant Colonel Will Penkman,  
UK Commando Helicopter Force (CHF)er Force (CHF)



# DAY TWO • WEDNESDAY 26 FEBRUARY 2020

## WARFIGHTER READINESS – CURRENT OPS

0800	<b>REGISTRATION &amp; COFFEE</b>
<b>ACROSS THE OPERATIONAL SPECTRUM: FROM THE HIGH-END FIGHT TO THE ASYMMETRIC THREAT</b>	
0900 	<b>DEFENCE IQ WELCOME</b> <b>Ben McClatchie</b> , Executive Producer - Defence, Defence IQ
0905 	<b>CHAIRMAN'S OPENING REMARKS</b> <b>Lieutenant General (Ret.) Kenneth E. Tovo</b> , Former Commander, US Army Special Operations Command & Chairman, International Military Helicopter 2020
0915 	<b>MAINTAINING READINESS FOR MATERIEL AND PERSONNEL</b> <ul style="list-style-type: none"> <li>● Sustaining high readiness for a rapidly deployable air assault capability – considerations for training and mission support</li> <li>● Improving integration with the land force. Connectivity and data relay for the contested battlespace</li> <li>● Refining the joint operational concept to meet the demands of dynamic contingency operations</li> </ul> <b>Major General Andreas Hannemann</b> , Commander Rapid Forces Division, German Army
0945 	<b>SENIOR LEADERS PANEL DISCUSSION: VERTICAL LIFT TODAY AND TOMORROW</b> <ul style="list-style-type: none"> <li>● As our helicopter forces look to the future, how can we effectively manage the capability gap to sustain readiness rates and ensure the continued deployability of our helicopter forces?</li> <li>● Where does the helicopter sit within the joint force of today? How is the role of this vital enabler likely to change for the future?</li> <li>● What does the capability mix look like for the future? What should the balance be between survivability and stealth, and what are our expectations of a "multi-role" platform?</li> <li>● What will the role of unmanned systems be within the future force structure?</li> </ul> <b>Moderator:</b>  <b>Lieutenant General (Ret.) Kenneth E. Tovo</b> , Former Commander, US Army Special Operations Command & Chairman, International Military Helicopter 2020 <b>Panellists Include:</b>  <b>Major General Andreas Hannemann</b> , Commander Rapid Forces Division, German Army  <b>Air Commodore Robert Adang</b> , Commander Defence Helicopter Command, Royal Netherlands Air Force
1030 	<b>TRAINING TO DELIVER A MULTI-ROLE HELICOPTER CAPABILITY</b> <ul style="list-style-type: none"> <li>● Retaining a multi-role helicopter capability to meet the full-spectrum of national security challenges. Meeting the requirements of SAR, air assault and internal security</li> <li>● Balancing the skillset for the rotary wing warfighter; setting a training baseline</li> <li>● Configuring Argentina's multi-role fleet to enable it to operate over land and in the maritime environment</li> </ul> <b>Brigadier General Enrique Víctor Amrein</b> , Chief of Staff, Argentine Air Force
1100	<b>MORNING COFFEE &amp; NETWORKING</b>





## TRAINING FOR THE FUTURE FIGHT

<p>1130</p> 	<p><b>LEVERAGING THE HELLENIC ARMY'S UPGRADED HELICOPTER FLEET</b></p> <ul style="list-style-type: none"> <li>● Integrating the OH-58D Kiowa Warriors</li> <li>● Training and preparing to operate an armed reconnaissance platform</li> <li>● Sustaining the relevance of existing live training capabilities. Opportunities for integrating simulated training</li> </ul> <p><b>Major General Christos Iliopoulos</b>, Director, Army Aviation, <b>Hellenic Army</b></p>	
<p>1200</p> 	<p><b>DELIVERING A ROBUST MULTI-ROLE HELICOPTER CAPABILITY</b></p> <ul style="list-style-type: none"> <li>● Maintaining readiness of platforms and personnel to support maritime and littoral operations</li> <li>● Meeting a challenging brief for maritime SAR</li> <li>● Improving maritime domain awareness and supporting the helicopter as a vital reconnaissance platform</li> </ul> <p><b>Brigadier General Rory O'Connor</b>, General Officer Commanding, <b>Irish Air Corps</b></p>	
<p>1230</p>  	<p><b>SIMULATING THE COMPLEX ENVIRONMENT – ARE OUR TRAINING ARCHITECTURES AGILE ENOUGH?</b></p> <ul style="list-style-type: none"> <li>● To what extent are our war fighters able to access simulated training which can replicate the myriad demands of the complex and contested battlespace, from next-gen weapons to cyber, visually degraded landscapes to night time operations?</li> <li>● What will the future contribution of live training be to the overall readiness of our helicopter forces?</li> <li>● Are our training resources multi-domain enough? How should we advance training in readiness for the future joint fight?</li> <li>● How can AR/VR improve existing limitations to the simulated training model?</li> </ul> <p><b>Moderator:</b> <b>Lieutenant General (Ret.) Kenneth E. Tovo</b>, Former Commander, <b>US Army Special Operations Command</b> &amp; Chairman, <b>International Military Helicopter 2020</b></p>	
<p>1315 <b>NETWORKING LUNCH</b></p>		
<p><b>HEAVY LIFT</b></p>		<p><b>MARITIME OPERATIONS</b></p>
<p>1430</p> 	<p><b>UPDATE ON THE CH-53K PROGRAM</b></p> <ul style="list-style-type: none"> <li>● Delivering the next generation of ship to shore lift for the USMC</li> <li>● The road towards CH-53K IOC</li> <li>● Integrating a heavy-lift capability as a core component of the future amphibious force</li> </ul> <p><b>Colonel Jack Perrin</b>, Programme Manager, PMA-261 H53 Heavy Lift Helicopters, <b>US Naval Air Systems Command</b></p>	<p>1430</p> <p><b>ENFORCING MARITIME SECURITY FROM THE AIR</b></p> <ul style="list-style-type: none"> <li>● RMN's future helicopter requirement. The limits of the utility platform and the need for an ASW-capable asset</li> <li>● Leveraging rotorcraft assets as a force multiplier for the surface fleet</li> <li>● Marinising the force and increasing reach to support long-range operations at sea</li> </ul> <p><b>First Admiral Szalee bin Shoib</b>, Commander Naval Aviation, <b>Royal Malaysian Navy (Subject to Final Confirmation)</b></p> 
<p>1500</p> 	<p><b>CURRENT OPERATIONS AND FUTURE PLANS: THE VIEW FROM THE GERMAN AIR FORCE</b></p> <ul style="list-style-type: none"> <li>● Deploying a multi-role helicopter fleet to meet current operational challenges</li> <li>● Germany's future helicopter force development and the next-generation heavy lift concept</li> <li>● Providing support to the joint force; delivering a platform with a sufficient baseline capability to meet the demands of varied land operations</li> </ul> <p><b>Colonel Holger Radmann</b>, Deputy Assistant Chief of Staff Capability Management, <b>German Air Force</b></p>	<p>1500</p> <p><b>OPERATING NH-90 IN THE MARITIME ENVIRONMENT</b></p> <ul style="list-style-type: none"> <li>● Refining the operational concept to support the deployment of NH90 in the maritime environment</li> <li>● Streamlining the maritime mission sets – conducting ASW and ASuW, and providing additional support to the surface fleet</li> <li>● Coping with challenging operating conditions and improving readiness rates</li> </ul> <p><b>Commander Bart Blok</b>, Commander 860 Squadron, <b>Dutch Defence Helicopter Command</b></p> 



1530



### Q&A: REFINING THE REQUIREMENT FOR NEXT-GENERATION HEAVY LIFT

- Survivability considerations for the non-combat platform
- Refining the requirements for reach and range
- The limits of the multi-role concept for non-combat platforms. How deployable are utility platforms in a complex or contested operating environment?

#### Moderator:

**Lieutenant General (Ret.) Kenneth E. Tovo**, Former Commander, **US Army Special Operations Command** & Chairman, **International Military Helicopter 2020**



1530

### DEFINING THE FUTURE MARITIME STRIKE REQUIREMENT

- Meeting the future maritime threat above and beneath the surface
- Design considerations for future maritime platforms
- Maximising lethality and survivability for future maritime helicopters

**Commander Jean-Luc Richard**, Branch Chief, Rotary Requirements / FVL, **US Navy**



1600

### AFTERNOON COFFEE AND NETWORKING

## SUPPORT TO FUTURE LAND OPERATIONS

1630



### PANEL DISCUSSION: HELICOPTER OPERATIONS IN THE FUTURE LAND ENVIRONMENT

- Refining the force structure to meet the future requirements for airborne assault operations. To what extent are we moving away from large-scale deployments and towards the targeted application of helicopter forces?
- Adapting to cope with the multi-domain battlespace
- The helicopter force as a vital enabler for future land operations
- Delivering lethality and survivability for future air assault and attack helicopter forces. Networking with friendly forces on the ground to enhance threat awareness and limit risk

#### Moderator:

**Lieutenant General (Ret.) Kenneth E. Tovo**, Former Commander, **US Army Special Operations Command** & Chairman, **International Military Helicopter 2020**



#### Early-Confirmed Panellist:

**Colonel Sławomir Małosa**, Commander, 1st Army Aviation Brigade, **Polish Armed Forces**



1700

### DELIVERING AIR SUPPORT TO THE FUTURE LAND FORCE

- Training to deliver a decisive air assault capability within the congested and contested operating environment
- Germany's future army helicopters - meeting requirements for reach and deployability
- The combat helicopter within the future force structure; deploying small numbers of platforms decisively

**Colonel Andreas Pfeiffer**, Deputy Commander, Rapid Forces Division, **Bundeswehr**



1730

### ENABLING LITHUANIA'S AIR FORCE

- Deploying the existing helicopter force effectively to support air policing and deterrence in Lithuania's air space
- Updating the utility helicopter fleet to deliver a more recognisably multi-role force
- Improving survivability for forward-operating platforms. Meeting an acceptable threshold for platform protection, EW and cyber resilience

**Major Eligijus Rukšnaitis**, Commander, Air Operations Group, **Lithuanian Air Force**



1800

### CHAIRMAN'S CLOSING REMARKS

**Lieutenant General (Ret.) Kenneth E. Tovo**, Former Commander, **US Army Special Operations Command** & Chairman, **International Military Helicopter 2020**



1810

### CLOSE OF DAY TWO









*"As an operators conference it was very good with senior level speakers from many nations"*

Director Business Development EMEA, AAR  
Government Solutions  
2019 Attendee












# DAY THREE • THURSDAY 27 FEBRUARY 2020

## PLATFORM SUSTAINMENT

0830	<b>REGISTRATION &amp; WELCOME BREAKFAST</b>
0930 	<b>CHAIRMAN'S OPENING REMARKS</b> <b>Lieutenant General (Ret.) Kenneth E. Tovo</b> , Former Commander, US Army Special Operations Command & Chairman, International Military Helicopter 2020
0940 	<b>OPENING KEYOTE: MAXIMISING AVAILABILITY FOR THE UK'S HELICOPTER FLEET</b> <ul style="list-style-type: none"><li>● Minimising downtime and improving availability rates for the UK's helicopters</li><li>● Working with industry to streamline the support model</li><li>● Securing performance across the supply chain</li></ul> <b>Air Vice-Marshal Graham Russell</b> , Director Helicopters, Defence Equipment and Support, UK Ministry of Defence
1010 	<b>ENHANCING LOGISTICAL SUPPORT TO VERTICAL LIFT</b> <ul style="list-style-type: none"><li>● Optimising the defence supply chain to enhance aircraft availability</li><li>● Refining predictive approaches to maintenance and re-supply</li><li>● Enabling agility and reach for future helicopter forces. Minimising the logistics footprint and enabling rapid force deployment</li></ul> <b>Brigadier General David Sanford</b> , Commander, DLA Aviation, Defense Logistics Agency (Subject to Legal Approval)
1040 	<b>AUTOMATING THE HELICOPTER LOGISTICS AND SUPPORT MODEL</b> <ul style="list-style-type: none"><li>● NSPA's experience of rolling out the electronic automated logistics model to support DLM, repair and overhaul for Tiger and NH90 fleets</li><li>● Integrating an automated logistics approach for legacy weapons systems</li><li>● Refining the support model to support platforms operating in different domains</li><li>● Considerations for the future - condition monitoring to improve awareness of wear and tear, faults and usage</li></ul> <b>Michael Schäfer</b> , Programme Manager, A400M and NH90/TIGER Programme Office (LN), NATO Support and Procurement Agency (NSPA)
1110	<b>MORNING COFFEE AND NETWORKING</b>
1150 	<b>HOLDING THE HELICOPTER FORCE AT READINESS</b> <ul style="list-style-type: none"><li>● Maintaining persistent availability for the contingency helicopter force</li><li>● Refining the maintenance model to regular short-range deployments</li><li>● Extending the life-cycle of the existing fleet</li></ul> <b>Lieutenant General Raul Hoyos De Vinatea</b> , Chief of Staff, Peruvian Air Force
1220 	<b>WORKING WITH INDUSTRY TO IMPROVE FLEET PERFORMANCE</b> <ul style="list-style-type: none"><li>● Revising the through-life support model. Streamlining industry contracts to overcome performance issues and improve availability rates</li><li>● Harnessing digital transformation to support predictive maintenance and logistics</li><li>● Safely outsourcing responsibility for performance to industry partners. Sustaining internal competence to enable fleet support on deployed operations</li><li>● Rethinking fleet support for future platforms – what opportunities does innovation provide?</li></ul> <b>Jorge Van Hemelryck</b> , Chief of the Strategy Office, Aeronautical Maintenance Directorate, DGA



1250	<b>MORNING COFFEE AND NETWORKING</b>
1400	<p><b>INNOVATING THE HELICOPTER LOGISTICS AND SUPPORT CHAIN</b></p> <ul style="list-style-type: none"> <li>● Innovating the helicopter logistics model to support deployability and increase readiness</li> <li>● Enhancing the forecasting of demand to enable MRO and resupply close to the tactical edge</li> <li>● Limiting critical failures and improving the overall readiness of the helicopter force</li> <li>● Embedding automated resupply to improve the availability of spare parts and key inventory</li> </ul> <p> <b>Colonel Davide Marzinotto</b>, Chief of 2nd Office – Logistics Department, <b>Italian Air Force</b></p>
1430	<p><b>IMPROVING THE DEPLOYABILITY OF BULGARIA'S HELICOPTERS</b></p> <ul style="list-style-type: none"> <li>● Sustaining consistent readiness for a legacy aircraft fleet as it deploys alongside NATO forces</li> <li>● Extending the life cycle of Bulgaria's existing helicopters</li> <li>● Finding opportunities for retrofit and upgrade to improve baseline capability</li> </ul> <p> <b>Colonel Dimitar Pavlov</b>, Deputy Commander, 24th Helicopter Air Base, <b>Bulgarian Air Force</b></p>
1500	<b>AFTERNOON COFFEE AND NETWORKING</b>
1530	<p><b>INTEGRATING AN UPDATED MULTI-ROLE HELICOPTER CAPABILITY</b></p> <ul style="list-style-type: none"> <li>● Integrating AW119Kx and managing the capability gap during the transition</li> <li>● Preparing to sustain new capability through-life; monitoring platform condition to better pre-empt platform failure</li> <li>● Maintaining the multi-role helicopter fleet for a diverse mission set in the maritime and land environments</li> </ul> <p> Senior Representative, <b>Portuguese Air Force</b></p>
1600	<p><b>COPING WITH OBSOLESCENCE ISSUES FOR AN AGEING HELICOPTER FLEET</b></p> <ul style="list-style-type: none"> <li>● Keeping legacy capability operational in readiness to support humanitarian and peacekeeping operations</li> <li>● Training and operating alongside regional partners to improve the deployability of the force</li> <li>● Mitigating obsolescence issues for medium and light utility platforms</li> </ul> <p> <b>Colonel Muhamed Hasanovic</b>, Chief of Staff Air Brigade and Air Defence, <b>Bosnia &amp; Herzegovina Armed Forces</b></p>
1630	<p><b>PANEL DISCUSSION: BALANCING OPPORTUNITIES AND RISKS FOR OUTSOURCED MRO</b></p> <ul style="list-style-type: none"> <li>● What advantages does an outsourced approach to fleet MRO provide to the ultimate end-user?</li> <li>● How do we successfully establish accountability for platform availability and risk where MRO is outsourced?</li> <li>● How can we overcome a historic reluctance to outsourcing MRO services to commercial providers, and what are the limitations to integrating industry personnel in a defence maintenance context, particularly when forces are deployed forward?</li> <li>● Do we have an effective framework in place to manage accountability for risk when MRO is outsourced?</li> </ul> <p></p> <p> <b>Moderator: Lieutenant General (Ret.) Kenneth E. Tovo</b>, Former Commander, <b>US Army Special Operations Command &amp; Chairman, International Military Helicopter 2020</b></p> <p><b>Invited Panellists:</b></p> <p> <b>Jorge Van Hemelryck</b>, Chief of the Strategy Office, <b>Aeronautical Maintenance Directorate, DGA</b></p> <p> <b>Brigadier General David Sanford</b>, Commander, DLA Aviation, <b>Defense Logistics Agency (Subject to Legal Approval)</b></p>
1700	<p><b>CHAIRMAN'S CLOSING REMARKS</b></p> <p> <b>Lieutenant General (Ret.) Kenneth E. Tovo</b>, Former Commander, <b>US Army Special Operations Command &amp; Chairman, International Military Helicopter 2020</b></p>
1730	<b>CLOSE OF CONFERENCE</b>

*"It was an excellent event which gathered most of the military helicopter users to meet each other, to exchange experiences and to have a better understanding of the many concepts discussed"*

Helicopter Maintenance Support Section Manager,  
Royal Saudi Air Force  
2019 Attendee





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