



# FUTURE FORCES INDIVIDUAL SYSTEMS CONGRESS

17 - 19 October 2018, Prague, Czech Republic



## INTERNATIONAL INDUSTRY DAY Under the Auspices of the Czech Ministry of Defence



Discussion Forum/Plenary - Thematic Panel Sessions - Dynamic Presentations - Static Presentations - Interoperability

C4ISTAR Panel Platinum Partner:



C4ISTAR Panel Gold Partners:

C4ISTAR Panel Silver Partner:



Survivability Panel Silver Partners:



Specialized Partners:



**Chairman:**

**Mr. Daniel Košťoval, M.Sc.**

Deputy Minister – Head of the Armaments and Acquisition Division, Ministry of Defence, CZE

**Motto**

*"Better technology = Better protection"*

**Preamble:**

The Future Forces Individual System Congress (FFISC), in the format of an International Industry Day under the auspices of the Czech Ministry of Defence, will offer a unique opportunity to display, present and discuss current achievements and future key challenges on dismounted soldier projects by all stakeholders.

The FFISC will build on the successful international exhibitions of the Combat Clothing & Personal Equipment and Future Soldier held already 6 times in Prague (in 2000, 2008, 2010, 2012, 2014, 2016) and in 2003 in Nitra. At the same time, representative participation by key players, security experts and suppliers in the Open NATO Future Soldier Workshop 2014 and Future Soldier Systems Conference 2016 offered a lot of inspiring views on dismounted soldier projects worldwide known as "Future Soldier".

It is predicted that the role of human potential in future military operations will undergo significant changes compared to the present. The importance of the Future Soldier projects has been confirmed by the NATO Science and Technology Organization when noted Soldier systems as technology trend in long term. „Soldiers Systems refers to the augmentation of individual human abilities using artificial means such as robotic exoskeletons, smart textiles, drugs, and seamless man-machine interfaces. Uses include capacity to endure extreme environments, better health monitoring and care provision, decision making at individual level.“\*

A solution and way forward need to be found via mutual effort and cooperation of all parties involved. FFISC will use it in a comprehensive way of dynamic and static presentations of the on-going and Future Soldier system projects and their individual parts, presentations provided by R&D institutions and industry, accompanied with discussion forums and expert panels at strategic and operational levels. The level of interoperability achieved so far and the requirements for its further deepening will be one of the main objectives.

\*NATO Science & Technology Board, STO Tech Trends Report 2017, 8 August 2017, Reference: Public Release Version of AC/323-D(2017)0006 (INV)

**The Congress will focus on the following topics:**

17. 10. 2018

DISCUSSION FORUM/PLENARY – Topics at Strategic Level:

- FUTURE SOLDIER SYSTEMS PROJECTS, ADVANCED SYSTEMS FOR SPECIALISTS**
- LESSONS LEARNED, FUTURE CHALLENGES, CAPABILITY GAPS AND REQUIREMENTS**
- INTEROPERABILITY (SYSTEMS, INTERNATIONAL, INTER-SERVICE COOPERATION)**
- OPERATIONS IN COMPLEX URBAN ENVIRONMENT**

18. - 19. 10. 2018

THEMATIC PANEL SESSIONS – Topics at Operational Level:

**SURVIVABILITY PANEL:**

- Chairperson:**  
Ms. Jana Barančicová – Logistics Agency, Logistic Materiel Supply Center Brno, Dept. for Technical Specifications, MoD, CZE
- Generally Covers:**
  - Readiness
  - Protection
  - Endurance
  - Identification Friend or Foe
  - Concealment
- Key Topics:**
  - Ballistics & Fragmentation Protection
  - Flame & Flash Protection
  - Climatic Conditions

**SUSTAINABILITY PANEL:**

- Chairman:** TBC
- Generally Covers:**
  - Power
  - Special Equipment
  - Health Monitoring
  - First Aid
- Key Topics:**
  - Power/data connectors
  - Power harvesting
  - Energy storage
  - Health Monitoring and Care Provision

**LETHALITY PANEL:**

- Chairman:** MG Ivo Střecha, Dipl. Eng. – Director Force Development Division, Ministry of Defence, CZE
- Generally Covers:**
  - Weapons
  - Non-Lethal Weapons
  - Sensors
  - Ammunition
- Key Topics:**
  - Weapons and Optics
  - Small & Training Ammunition
  - Sensors, Lasers & Night Vision Devices
  - Non-lethal Systems & Weapons

**MOBILITY:**

- 1/ Integration of the Exoskeleton in the Battlefield Workshop (organized by NATO EOD COE in partnership with FFF)**
- 2/ Mobility Panel**
  - Chairman:** TBC
  - Key Topics:**
    - Load-carrying Systems
    - Soldier Burden
    - Orientation & Navigation

**C4ISTAR PANEL:**

- Chairman:** LTC Petr Šnajdárek, Dipl. Eng. – Reconnaissance and Electronic Warfare Branch, Ministry of Defence – General Staff, CZE
- Generally Covers:** C4I and Architecture; Receiving, Processing, Storing, Distributing Information
- Key Topics:** Relationship between C2 and ISTAR; Compact/seamless data flow in C4ISTAR; Technical solution in data distribution and data storing in ISTAR process; Target Acquisition – the roles of ISR units and tactical level units; The ISR data fusion on operational level; Visualisation of ISTAR data

Endorsed by:



General R&D Partner:



## CONGRESS PROGRAMME COMMITTEE



**Mr. Daniel Košťoval, M.Sc.**  
Deputy Minister – Head of the Armaments and Acquisition Division, Ministry of Defence, CZE  
**Chairman**



**MG Jaromír Alan, M.Sc.**  
Director Capability Planning Division, Ministry of Defence, CZE  
**Vice-Chairman**



**Mr. Magnus Hallberg**  
Project Manager Soldier Equipment, Land Warfare Centre; NATO Army Armaments Group (NAAG) Land Capability Group Dismounted Soldier Systems (LCGDSS) Vice-chairman, SWE  
**Vice-Chairman**

## Thematic Panel Sessions Chairmanship



**Ms. Jana Barančicová**  
Logistics Agency, Logistic Materiel Supply Center Brno, Dept. for Technical Specifications, MoD; Vice-Chairperson NATO LCGDSS/CCIEP WG, CZE  
**Chairperson Survivability Panel**



**MG Ivo Střecha, Dipl. Eng.**  
Director Force Development Division, Ministry of Defence, CZE  
**Chairman Lethality Panel**



**MAJ Jan Badinský**  
Military Police Headquarters; Member NATO Army Armaments Group (NAAG) Non Lethal Capability Working Group, CZE  
**Co-Chairman Lethality Panel**



**LTC Petr Šnajdár, Dipl. Eng.**  
Reconnaissance and Electronic Warfare Branch, Ministry of Defence – General Staff, CZE  
**Chairman C4ISTAR Panel**

## Members (in alphabetical order)

- Mr. František Bajcura, Dipl. Eng.** – Armament and Acquisition Division, Ministry of Defence, CZE
- Assoc. Prof. Blahoslav Dolejší, Dipl. Eng.** – Armament and Acquisition Division, Ministry of Defence, CZE
- COL Assoc. Prof. Martin Hřinko Ph.D., MBA** – Public Order Police Directorate – Director, Police Presidium of the Czech Republic, CZE
- Prof. Josef Lazar, Dipl. Eng., Ph.D.** – The Czech Academy of Science, CZE
- Mr. Pavel Lipowský** – Defence Policy and Strategy Division, Ministry of Defence, CZE
- Mr. Leo Manhal** - ALEX-Alternative Experts contractor supporting the US EUCOM Non-Lethal Weapons Program US EUCOM European Plans and Operations Center (EPOC), USA
- LTC Assoc. Prof. Jan Mazal Dipl. Eng., Ph.D.** – NATO Modelling & Simulation Centre of Excellence, NATO
- Mr. Richard Mácha, Dipl. Eng.** – Czech National Armaments Director Representative, Permanent Delegation of the Czech Republic to NATO, CZE
- Mr. Josef Mikulka, Dipl. Eng.** – Armament and Acquisition Division, Ministry of Defence, CZE
- Mr. Jiří Svačinka** – Armament and Acquisition Division, Ministry of Defence, CZE
- Mr. Pavel Zelenka, Dipl. Eng, MBA** – Director of Foreign Relations, Future Forces Forum, CZE
- COL Daniel Zlatník** – Deputy Director for Logistics, Logistics Agency, CZE

## FUTURE FORCES INDIVIDUAL SYSTEMS CONGRESS – INTERNATIONAL INDUSTRY DAY



## CONGRESS

**Date:** 17-19 October 2018  
**Venue:** PVA EXPO PRAHA, Beranových 667, Prague, Czech Republic  
**Type of Event:** Non-Classified

### Preliminary Programme:

#### Day 1 Wednesday, 17 October 2018

10.00 - 13.15 Registration  
 13.30 - 14.00 **Congress Opening**  
 14.00 - 16.00 Discussion Forum/Plenary  
 Strategic Level Topics:  
 ■ *Future Soldier Systems Projects, Advanced Systems for Specialists*  
 ■ *Lessons Learned, Future Challenges, Capability Gaps and Requirements*  
 ■ *Interoperability (Systems, International, Inter-Service Cooperation)*  
 ■ *Operations in Complex Urban Environment*  
 16.30 - 17.00 Future Forces Exhibition Tour

#### Day 2 Thursday, 18 October 2018

08.30 - 09.15 Registration  
 09.30 - 09.45 **2<sup>nd</sup> Congress Day Opening**  
 10.00 - 16.00 Static Presentations  
 09.45 - 11.30 Thematic Panel Sessions (*Audio-video Presentations, Panel discussion*)  
 11.30 - 12.00 Dynamic Presentations – Presentations of Interoperability  
 11.30 - 12.00 Poster Session  
 12.00 - 12.45 Lunch & Networking  
 12.45 - 13.30 Exposition Presentation in Exhibition Area  
 13.30 - 16.00 Thematic Panel Sessions (*Audio-video Presentations, Panel discussion*)  
 16.00 - 17.00 Social Event for Speakers

#### Day 3 Friday, 19 October 2018

08.30 - 09.15 Registration  
 09.30 - 09.45 **3<sup>rd</sup> Congress Day Opening**  
 10.00 - 16.00 Static Presentations  
 09.45 - 11.30 Thematic Panel Sessions (*Audio-video Presentations, Panel discussion*)  
 11.30 - 12.00 Dynamic Presentations – Presentations of Interoperability  
 11.30 - 16.00 Future Forces Exhibition Tour, Networking

### Proceedings:

The Congress proceedings will be in English. All papers and reference documents, will be accessible within 21 days after the Congress. Access to **the FTP (File Transfer Protocol) site is included in the delegate registration.**

## CONTACTS



### Contact for Participants

**Mr. Jiří Štirba**  
 Programme Director  
 stirba@future-forces-forum.org



### Contact for Participants

**Mrs. Vendula Kučerová**  
 Programme Manager  
 vendula@future-forces-forum.org  
 +420 731 838 795



### Contact for Exhibition and Partnership

**Mr. Adam Drnek**  
 Executive Director  
 adam@future-forces-forum.org



### Accommodation and Transportation

**Mrs. Pavla Šebestová**  
 pavla@future-forces-forum.org  
 +420 602 373 800

## OTHER IMPORTANT INFORMATION

### Conditions for Participants

For on-line registration and more information please visit  
**www.future-forces-forum.org**

### Speakers/Poster Presenters

**Presentation – speech, live demo, poster within the Official Expert Programme**

- GOVERNMENT, MILITARY, WAR VETERANS, POLICE, FIREFIGHTERS, PRISON SERVICE, CUSTOMS SERVICE, ACADEMIA, STUDENTS **FREE OF CHARGE**
- Industry Starting from **440 EUR**

*Presentations are subject to availability and acceptance by the Programme Committee.  
 Prices exclude VAT.*

### Visitors

- GOVERNMENT, MILITARY, WAR VETERANS, POLICE, FIREFIGHTERS, PRISON SERVICE, CUSTOMS SERVICE, ACADEMIA, STUDENTS, SPEAKERS, VIP GUESTS **FREE OF CHARGE**
- Industry Starting from **70 EUR**

*All admission fees include VAT.*

### Partnership

- International and national governmental bodies **FREE OF CHARGE**
- Industry, Academia Starting from **2 000 EUR**

*Prices exclude VAT.*

### Exhibition

- International and national governmental bodies **FREE OF CHARGE** (up to 12 sqm)
- Industry Starting from **2 500 EUR**
- Academia Starting from **2 000 EUR**

*Prices exclude VAT.*

### Admission Policy

- Admission is limited to professional and business visitors only
- Business casual or service dress is required
- Visitors under 18 years will not be admitted to the exhibition and expert events
- Identity checks will be conducted as a condition of entry
- Badges are to be collected at the registration desk at PVA EXPO PRAHA, starting at 08.30
- Badges will only be issued to registered delegates

### Important Dates/Deadlines

Abstract Submission Deadline	On an individual basis
Notification of Acceptance	In due time
Full Paper Submission	21 SEPTEMBER 2018
On-line Registration of Participants	30 SEPTEMBER 2018

## Other Events Organized within the FUTURE FORCES FORUM 2018:

- Future Forces Exhibition
- World CBRN & Medical Congress
- Geospatial, Hydrometeorological and GNSS Conference
- Logistics Capability Conference
- Integration of the Exoskeleton in the Battlefield Workshop
- Multi-domain Advanced Robotic Systems Conference
- MESAS 2018 - Modelling & Simulation for Autonomous Systems Conference
- WAMS 2018 - Workshop on Applied Modeling and Simulation
- BIOMETRICS Conference
- Future of Cyber Conference - Smart Cyber Defence Workshops & Live Hacking Zone



**Keynote Speakers (in alphabetical order)**



**Discussion Forum Panelist**

**Mr. Magnus Hallberg**

Project Manager Soldier Equipment, Land Warfare Centre; NATO Army Armaments Group (NAAG) Land Capability Group Dismounted Soldier Systems (LCGSS) Vice-chairman, SWE



**Discussion Forum Panelist**

**Mr. Marek Kalbarczyk**

Project Officer Land Systems Technologies, European Defence Agency, EDA



**Discussion Forum Panelist**

**BG Pavel Kolář**

Director of Special Forces, Armed Forces of the Czech Republic, CZE



**Discussion Forum Panelist**

**Mr. Daniel Košťoval, M.Sc.**

Deputy Minister – Head of the Armaments and Acquisition Division, Ministry of Defence, CZE



**Discussion Forum Moderator**

**Mr. Richard Mächa**

Czech National Armaments Director Representative, Permanent Delegation of the Czech Republic to NATO, CZE



**Mr. Jonathan Russell**

Chairman NATO LCG/DSS/HBS Head Borne Systems Team of Experts; Principal Scientist, DSTL, GBR

**Supporting Organizations:**

- Armed Forces of the Czech Republic
- Association of Research Organizations
- Customs Administration of the Czech Republic
- Czech Academy of Science
- Czech Technical University in Prague
- Defence and Security Industry Association of the Czech Republic
- European Defence Agency (EDA)
- Fire Rescue Service of the Czech Republic
- Military Police
- Ministry of Defence of the Czech Republic
- Ministry of the Environment of the Czech Republic
- Ministry of Foreign Affairs of the Czech Republic
- Ministry of Industry and Trade of the Czech Republic
- Military Office of the President of the Republic
- North Atlantic Treaty Organization (NATO)
  - NATO Science and Technology Organization
  - NATO Army Armaments Group (NAAG) Land Capability Group Dismounted Soldier Systems and its following Sub groups:
    - Combat Clothing, Individual Equipment and Protection Subgroup
    - Joint Non-lethal Weapons Capability Group
    - Power Team of Experts
    - Weapon & Sensor Subgroup
    - SG1 Small Arms Ammunition Interchangeability
    - C4I System Architecture
  - NATO Centres of Excellence
- Police Presidium of the Czech Republic
- Prison Service of the Czech Republic

**Media Partners:**

Military Technology, Defence Procurement International, Europäische Sicherheit (European Security and Defence), A-report, Army.cz, SoldierMod.com, Global Military Communications Magazine, Safety & Security International, Counter-IED Report, Al Defaiya, Kommando International Special Operations Magazine, CDIS Review, Homeland Security, Global Security, Defence Suppliers, DefenseConference.com, The European Sting, ConferenceLocate.com; BeaverLake6 Report, Frag Out!, Military Systems & Technology, Copybook.com/ military, Copybook.com/ security, Asian Military Review, Armada International, Fuerzas Militares del Mundo (Military World), Defence and Security of India, Advances in Military Technology, Defence and Security Alert, Special OPS (for more details please visit [www.future-forces-forum.org](http://www.future-forces-forum.org)).

**Photogallery**



**Partners**

General Partner of Future Forces Forum



General R&D Partner of Future Forces Forum



Partner of Future Forces Forum



Platinum Partner of C4ISTAR Panel



Gold Partner of C4ISTAR Panel



Gold Partner of C4ISTAR



Silver Partner Survivability Panel



Gold Partner of C4ISTAR



Under the Auspices of



Endorsed by



**International Coordination Centre:**

**Progres Partners Advertising, s.r.o.**

**Address:** Opletalova 55, 110 00 Prague 1, Czech Republic

**Phone:** +420-224 213 905; +420-224 234 274; +420-224 236 506

**Fax:** +420-224 218 312; +420-224 235 033

**E-mail:** [info@future-forces-forum.org](mailto:info@future-forces-forum.org)

**Web:** [www.future-forces-forum.org](http://www.future-forces-forum.org)

**GPS:** 50°05'11.9"N 14°26'05.5"E

