



대한민국방위산업전

DX KOREA 2018

DEFENSE EXPO KOREA

OFFICIAL SHOW REVIEW



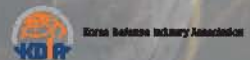
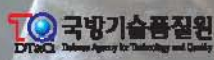
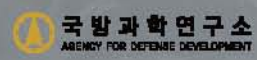
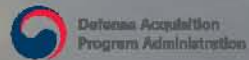
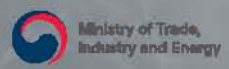
| Host |



| Organizer |



| Support |



www.dxeorea.org

DX KOREA 2018

DEFENSE EXPO KOREA



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Defense Minister
Song Young Moo

“Defense Industry, Core of National Power to improve National Defense and Economic Growth”

Greetings, I am Song Young Moo, Minister of National Defense.

I congratulate everyone involved in the formation and development of DX Korea. I also extend my heartfelt welcome to defense industry and military representatives from around the world. I also thank GEN Kim Pan Kyu, Chairman of Association of Republic of Korea Army for hosting this meaningful exhibition.

Defense industry, with fortification of national defense and economic growth as its central pillars, is at the core of national power.

In the past, the Republic of Korea was incapable of even producing a single rifle. However, we are now among the defense industry’s powerhouse, exporting world class weapon systems based on the driving power of our powerful industry and outstanding science and technology. Now our military is focused on developing new next generation technologies in preparing for the future battlefield environment. Containing drones, robots, high-tech unmanned weapon systems, and many more.

With its foundations in cutting edge defense science and technology, defense industries will be the new driving force for growth towards the future.

As such, nations around the world are focusing on their capabilities on government led growth of their defense industries to not only strengthen their national defense but also to facilitate the growth of their economy.

Korea also needs to pursue export-based strategy to foster our own 4th industrial revolution of future economic growth.

Unification of the government, military, academia, and business must pursue a common goal and work together in the complex interplay for a successful export-based defense industry growth and development.

To this aim, the government would have to soften the point of entry for SMEs to enter into the defense industry and create environment to the ambitious development of new technologies.

For SMEs in particular, government would have to share national defense R&D technology, in order for SME to utilize technology to further achieve creative and innovative results.

Defense enterprises need to formulate an adequate win-win structure between large, medium and small enterprises, furthermore, they would need to establish a corporation culture based not on personal connections or privilege, but on technology and quality.

If a healthy defense industry eco-system can be created based on their technology and quality, fair competition in teamwork is constituted through the efforts of the government, businesses and everyone else in the industry, Korea will truly join the ranks of leading nations in the defense sector.

In this sense, DX Korea 2018 undoubtedly plays crucial role in facilitating interaction in corporation between various players in industry.

With this exhibition serving as the jumping off point, I wholeheartedly encourage everyone in the industry to actively participate in forming a healthy defense industry eco-system.

I again thank Association of the Republic of Korea Army for creating this valuable opportunity for the advancement of the nation and the military, and present everyone here with my wishes for the continued success.

Thank you



ROK Army Chief of Staff
KIM Yong Woo

“The Core of Future Battlefield: Defense Industry’s Investment and Participation”

ROK Army is engaged in creating formidable battlefield capability against both specific and non-specific threats from around the globe. To take lead in the future battlefield environment, innovative defense technology and weapon system is crucial. ROK Army is focused on integrating itself into the 4th industrial revolution’s latest technology, creating AI based combat system (TIGER System 4.0) for faster evaluation and decision-making process in Army’s structure. TIGER System would enhance ROK Army’s battlefield capability as well as survivability in combat operations. Through TIGER System, communication platform, network platform, and AI platform would interconnect with each other, creating basis for future battlefield technology and weapon systems development.



ADD President,
Nam Se Gyu

“ADD as platform for Industry, Academia, and Research cooperation”

ADD (Agency for Defense Development) is working thoroughly to lead Korea to become world’s 6th defense technology nation and to provide high-tech defense technology and solution to the ROK Military, to lead ahead in the future battlefield environment. From AI, Unmanned Systems, Space Communications, Stealth, Bio-tech, and etc., ADD is researching into various areas in technology which can be implemented with defense industry. With the 4th Industrial Revolution, ADD is developing defense R&D to open platform, allowing both industry, research, and academia to closely work together to share ideas and cooperate to improve technology. ADD will become global defense tech center, assisting Korea’s improvement in influencing defense industry.



DTaQ President,
Lee Chang Hee

“Development in SME and Venture Companies, Success for future”

With the changing defense policy, DTaQ (Defense Agency of Technology and Quality) is also renovating its duty to provide best available sustainment system for the military and to assist with providing future defense technology. Current defense technology policy revolves around key-tech to combine both civilian and military technology, as well as resources and manpower to utilize the best of both industries. DTaQ is also continuously aiding SMEs to become competitive in international defense market. SMEs interested in promoting its technology may attend defense exhibition with assistance from DTaQ, and at DX Korea 2018 SMEs can participate in various business meetings with international buyers. Such opportunity at DX Korea 2018 would allow SMEs to get involved in international defense market and increase defense export.



KDIA Chairman
Choi Pyung-Kyu

“DX KOREA 2018, hub of defense trade”

This year’s exhibition is held as the largest ground forces defense exhibition. DX Korea 2018 especially introduced ROK Army’s latest vision and development directions, as well as 4th industrial revolution technology. Korea’s defense industry has reached its domestic limitation and change of technology due to 4th industrial revolution, hence we would have to use this as the opportunity to develop manufacturing infrastructure and utilize latest technology to create new weapon systems. I wish for DX Korea 2018 to be the platform for both supplier and buyer to enhance defense trade.

Exhibition Overview

Asia's Best Defense Networking Platform!

Title	DX Korea 2018 (Defense Expo Korea 2018)
Date	Sept. 12 (Wed) ~ Sept. 16(Sun) 2018, Open 10:00 ~ 17:00 * Business Day : Sept. 12 (Wed) ~ 14 (Fri) / Public Day : Sept. 15 (Sat) ~ 16 (Sun)
Location	KINTEX Hall 7, 8 & Outdoor Display Area & R.O.K. Army Live Fire Training Site
Exhibition Scale	205 Exhibitors from 30 Countries (1,293 Booths) Total Exhibition Scale 140,908㎡ (Indoor 22,580㎡ / Outdoor 118,328㎡)
Host / Organizer	/
Support	

Exhibition Purpose

- Provide opportunity for domestic and international defense & technology cooperation and trade through ground forces specialized exhibition
- Provide foothold for domestic defense companies to reach into the international market
- Raise public awareness in national security and promote defense industry
- Promote and develop Republic of Korea Army and Armed forces through specialized defense exhibition

Exhibition Scale



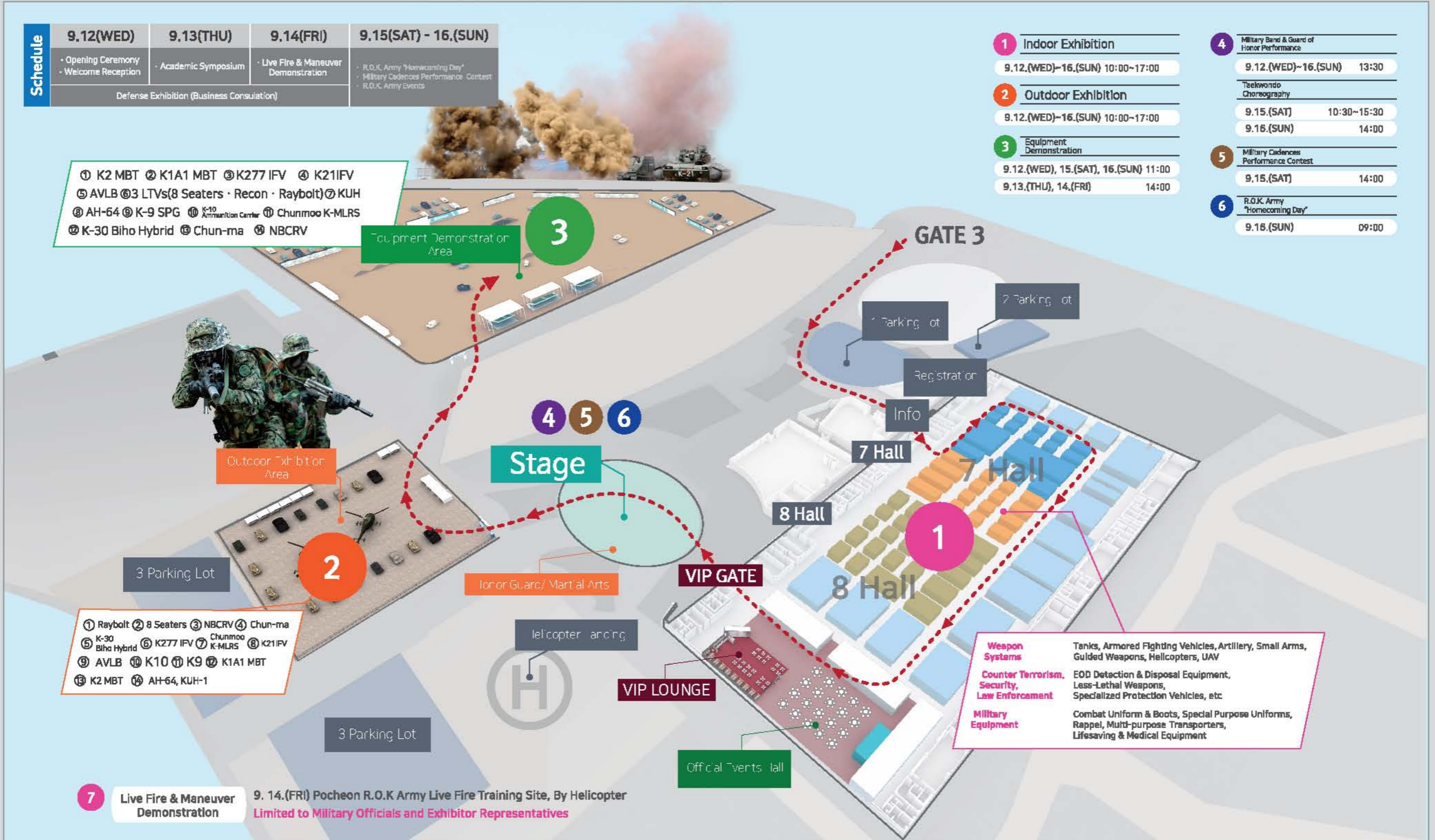
Event Layout

Schedule	9.12(WED)	9.13(THU)	9.14(FRI)	9.15(SAT) - 16.(SUN)
	<ul style="list-style-type: none"> Opening Ceremony Welcome Reception 	<ul style="list-style-type: none"> Academic Symposium 	<ul style="list-style-type: none"> Live Fire & Maneuver Demonstration 	<ul style="list-style-type: none"> R.O.K. Army "Homecoming Day" Military Cadences Performance Contest R.O.K. Army Events
	Defense Exhibition (Business Consultation)			

- ① K2 MBT ② K1A1 MBT ③ K277 IFV ④ K211FV
- ⑤ AVLB ⑥ 3 LTVs(8 Seaters · Recon · Raybolt) ⑦ KUH
- ⑧ AH-64 ⑨ K-9 SPG ⑩ K10 Ammunition Carrier ⑪ Chunmoo K-MLRS
- ⑫ K-30 Biho Hybrid ⑬ Chun-ma ⑭ NBCRV

- ① Raybolt ② 8 Seaters ③ NBCRV ④ Chun-ma
- ⑤ K-30 Biho Hybrid ⑥ K277 IFV ⑦ Chunmoo K-MLRS ⑧ K211FV
- ⑨ AVLB ⑩ K10 ⑪ K9 ⑫ K1A1 MBT
- ⑬ K2 MBT ⑭ AH-64, KUH-1

1 Indoor Exhibition	9.12.(WED)~16.(SUN) 10:00~17:00
2 Outdoor Exhibition	9.12.(WED)~16.(SUN) 10:00~17:00
3 Equipment Demonstration	9.12.(WED), 15.(SAT), 16.(SUN) 11:00 9.13.(THU), 14.(FRI) 14:00
4 Military Band & Guard of Honor Performance	9.12.(WED)~16.(SUN) 13:30
Taekwondo Choreography	9.15.(SAT) 10:30~15:30 9.16.(SUN) 14:00
5 Military Cadences Performance Contest	9.15.(SAT) 14:00
6 R.O.K. Army "Homecoming Day"	9.16.(SUN) 09:00



MEDIA DAY

Date Sept. 11(Tue) 9:30 ~ 17:00
Location KINTEX Exhibition Center II Press Center / R.O.K. Army Live Fire Training Site
Schedule Briefing of the Exhibition for Local/International Medias, Live Fire & Maneuver Demonstration, Equipment Demonstration, Exhibition Tour



Participated Media List

		Media	Pax
Local Media	33 Media	Arirang TV, Asianews, AsiaToday, Blue Korea COM, Business Today, Defese Times Korea, East Asia News, Financial News, Financial Today, Force Jounal, Global Economics, Industry News, KBS, K-Force TV, Maeil Business Newspaper, MBC, MBN, Media Pen, NewDaily, Newsis, Newta Ilbo, SBS, The Chosun Ilbo, The Hankyoreh Ilbo, The JoongAng Ilbo, The Korea Defense Daily, The Korea News, The National Audio Visual Information Service, The Segye Times, Yonhap News Agency, Yonhap TV	57
International Media	11 Media	AFP, AP, Army Recognition, Getty images, HIS Jane's Shephard Media, Kyoto News, Maru, Polaris, Reuter, SIPA Press	17
Total		44 Media	74

Schedule

Time	Location	Content	Time	Location	Content
09:30~10:00	KINTEX Exhibition Center II Press Center	Registration	13:00~13:50	KINTEX -> Army Training Site	Transportation via Helicopter
10:00~11:00		DX Korea 2018 Briefing & Q&A	14:00~15:00	Pocheon Army Training Site	Live Fire & Maneuver Demonstration
11:00~11:50	Outdoor Demonstration Area	Equipment Demonstration	15:00~16:00	Army Training Site -> KINTEX	Transportation via Helicopter
11:50~13:00	KINTEX Meeting Room	Luncheon	16:00~17:00	KINTEX Exhibition Center II	Exhibition Tour



Opening Ceremony

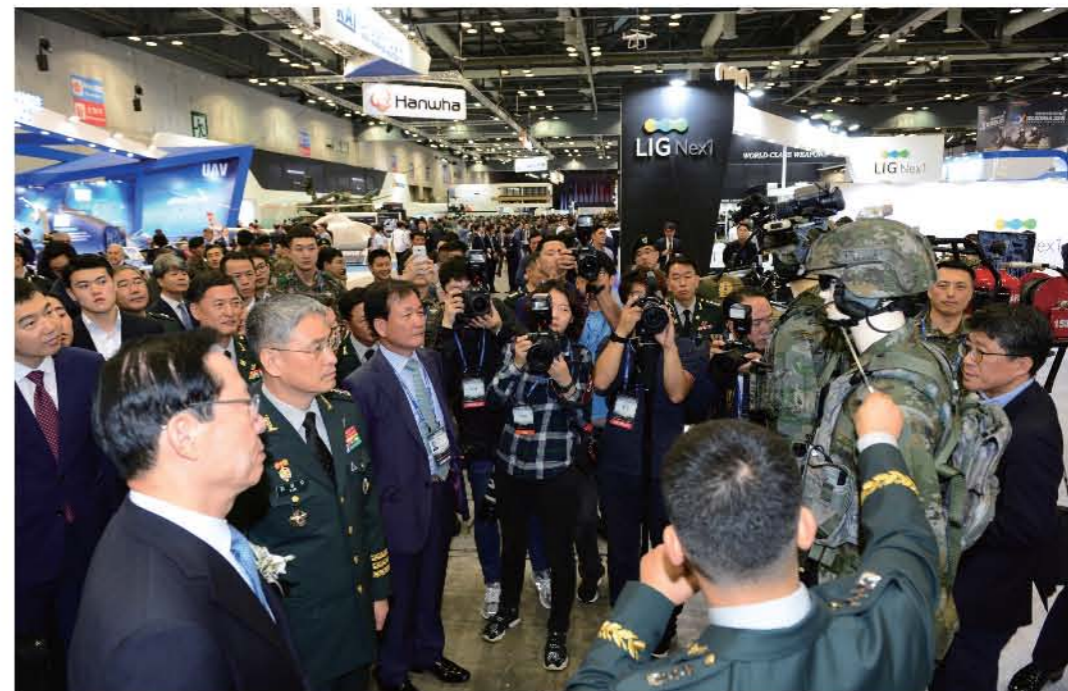
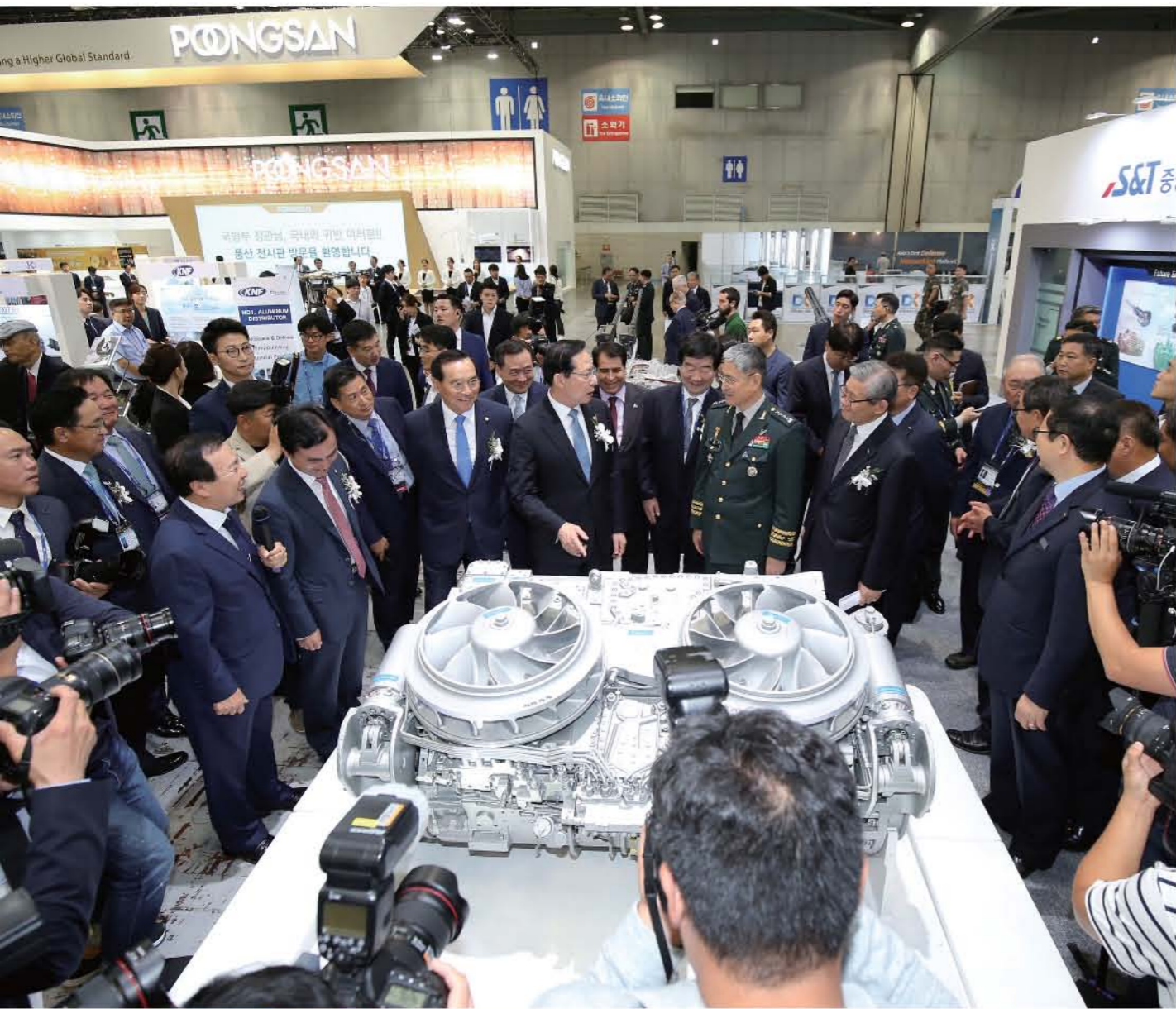
Date Sept. 12, 2018 (Wed.) 09:30 ~ 11:30
Location KINTEX Hall 8 Networking Lounge
Major Guests Minister of National Defense, Army Chief of Staff, Senate Defense Committee Chairman, Ambassadors, International Delegation, DAPA President, ADD President, DTaQ President, KDIA Vice Chairman, key military commanders, key defense industry representatives

Schedule

Time	Content
09:10~09:30	Pre-ceremony & performance (National Gugak Center)
09:30~09:31	VIP Entry
09:31~09:32	Opening Announcement
09:32~09:33	Pledge of Allegiance

Time	Content
09:33~09:36	Opening Remarks – President, AROKA
09:36~09:43	Congratulatory Remarks - Defense Minister
09:43~09:50	Tape Cutting & Photo
09:50~12:20	Exhibition Tour





Welcome Luncheon

Date Sept. 12, 2018 (Wed.) 12:30 ~ 23:30
Location KINTEX Hall 8 Networking Lounge
Major Guests International Delegation, Government & Industry representatives

Schedule

Time	Content
12:20~12:30	VIP Entry
12:30~12:35	Welcome Speech
12:35~12:40	Toast - Army Chief of Staff - President of Poongsan
12:40~13:30	Luncheon - Exhibition Tour or Business Meeting afterwards



Welcome Reception

Date Sept. 12, 2018 (Wed.) 17:00 ~ 20:00

Location KINTEX Hall 8 Networking Lounge

Major Events Reception, Dinner, Performances

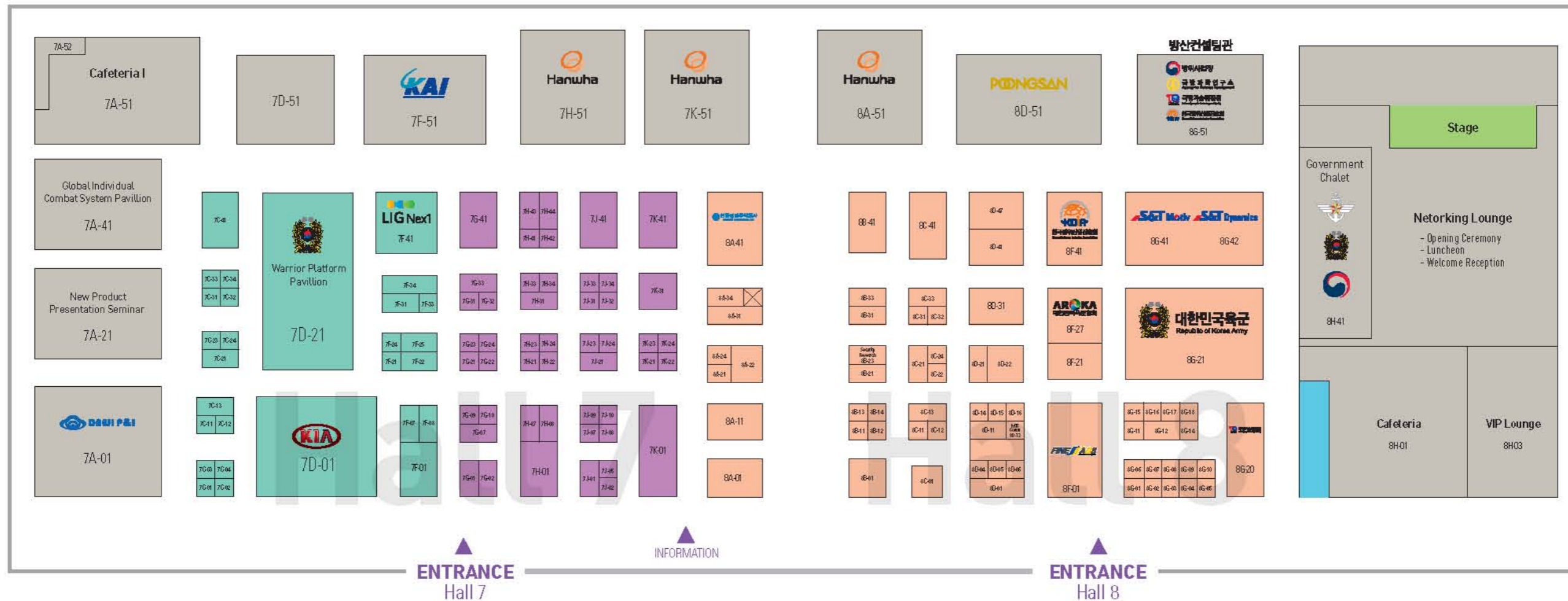


Schedule

Time	Content
17:00~17:30	Cocktail Reception
17:30~17:33	VIP Entry
17:33~17:34	Opening Signal
17:34~17:37	Welcome Speech - Secretary General, AROKA
17:37~17:43	Congratulatory Remarks - President, KDIA
17:44~17:50	Toasts - Director, ADD - President, Hanwha Aerospace
17:40~18:30	Reception
18:30~19:00	Performances
19:00~19:30	Farewell



Booth Layout



EXHIBITION ITEMS

Weapon System

- Tanks, Armored Fighting Vehicles, Combat Engineer Equipment, Mine-Clearing Line Charge, MRAP, etc.
- Artillery, Small Arms, Guided Weapons, Laser Weapons, Ammunition, Artillery Shells, Rockets, Bombs, etc.
- Anti-Aircraft Gun, Guided Anti-Air Weapons, Aerial Defense Radar, NBC Detection & Protection Equipment, etc.
- Helicopters, UAV, C4I Command and Control Systems, Combat Training Simulations, Communications, etc.

Counter Terrorism, Security, Law Enforcement

- EOD Detection & Disposal Equipment, Less-Lethal Weapons, Specialized Protection Vehicles,
- X-Ray Inspection Machines, Metal Detectors, Digital Detectors, Surveillance Equipment, etc.

- Self-Defense Equipment, Riot Control Equipment, Polygraphs, Fingerprint Scanners, Drug Detectors, etc.
- Microscopes, Forensic Science Equipment, Ballistic Armor & Plates, Law Enforcement Armored Vehicles, etc.

Military Equipment

- Combat Uniform & Boots, Special Purpose Uniforms, Load Bearing & Combat Carry Equipment, Pouches & Attachments, Hydration System, Bayonets, Scabbards, etc.
- Sleeping Bags, Blankets, Tents, Rations, Ballistic Helmet & Body Armor, etc.
- Dishwashers, Military Cooking Kit, Mincer, Portable Shower & Launder Container, etc.
- Rappel, Links, Ropes, Lifesaving & Medical Equipment, Multi-purpose Transporters.

Unmanned Systems

- Robot: Reconnaissance, Surveillance, Observation, Bomb Disposal, Medical, Wearable, etc.
- Drone/UAV: Surveillance, Communications Relay, Heat Sensor, Infrared Light Sensor, Security, Firefighting, Aerial Photograph, Construction, Leisure, Mapping, etc.

Security & IT Sector

- Military-IoT, Cloud, Big Data, Security Convergence Technology Product, etc.
- ICT based Mobile Subscriber Equipment, SMART Management System, etc.
- Surveillance & Security Protection, Entry Control Equipment, IT Security Systems, etc.

2018 대한민국방위산업전 참가업체 리스트 (국문)

업체명 가나다순

부스번호	업체명	부스번호	업체명	부스번호	업체명
7G-01	가이아 에이피에스	7G-21	성산테크놀로지(주)	7G-23	(주)지우정보기술
8B-33	(주)거상	7C-13	소모에너지엔테크놀러지	7C-41	(주)창민테크론
8D-16	주식회사 건파워	7H-44	수성정밀기계(주)	8D-47	(주)케이에스씨
8D-21	2020계룡세계군문화엑스포조직위원회	8G-15	(주)윌드케이	8G-01	(주)케이오비에이
7J-34	고등기술연구원	8A-11	스마트에어챔버	7J-01	(주)케이투코리아
7G-09	국기보훈처 제대군인지원센터	7J-05	시지엔지시어링(주)	8G-04	(주)케이티앤씨
8G-20	국방기술품질원	7K-22	신일프리노스	7A-52	케이프렌즈
7J-07	국일제지(주)	7G-32	(주)선테크	7J-41	케이피씨엠
7F-08	2019 국제해양방위산업전	8A-24	씨블 코모레이션	7H-22	코리센
7K-31	그린광학	8G-08	(주)아이블 포토닉스	7A-41	코리아디펜스
7F-07	(주)그린나래	7K-21	에드모텍	7H-23	(주)큐램
7H-42	극동통신	7C-03	아이스파이크	7F-31	(주)크린워터시스템
7G-33	(주)글렌에어코리아	8G-05	아이쓰리시스템㈜	8C-33	킴
7D-01	기아자동차	7G-02	㈜아이텍테크놀러지	7C-34	태양
7K-01	네바릭스	7C-01	아주대학교	7H-21	태양3C(주)
7H-43	넵코어스	7C-31	아테마	7J-02	(주)택산이엔지
7G-41	다산기공	8G-42	S&T모티브	7A-41	택티컬코리아
7H-07	(주)대동중공업	8G-41	S&T 중공업(주)	7H-41	주식회사 토버더가먼트 메이커
7A-01	대지정공	7G-10	에코로켓폼	7A-41	(주)트라이셀인터내셔널
7C-41	대한방직	7F-34	엘아이저텍스원	7H-24	티엠에스알에프(주)
8G-02	㈜동인광학	8A-41	연합정밀	8F-01	(주)파인에이디에스
7G-31	드레스북	7H-31	엘에스엠트론(주)	8B-41	주식회사 파인텔레콤
8D-04	디에스엠 다이니마	7J-34	엘지 유폴러스	7C-23	파코코리아인더스
8B-33	DX Korea 조직위원회 베트남사무소	8G-16	㈜엘케이텍	8B-21	펠리칸
7C-04	디펜스타임즈	7C-33	엘트로닉스	8D-51	포스텍
7J-34	로아우	7C-11	엠제이글로벌(주)	7K-24	풍산
8B-13	마지일렉트로닉스	7H-34	올림푸스한국	7J-32	(주)블랫폼베이스
8D-15	(주)매니아마인드	7C-41	(주)와이에이치교역	7J-23	(주)아몬소프트
8G-12	(주)메티스메이크	7C-21	(주)와이케이케이한국	7H-33	한국디지털CCTV연구조합
7G-01	바이코_에이피에스	7C-12	월간블래툰	8F-41	한국방위산업진흥회
7J-34	베이리시	7F-25	(주)윌드아이	7C-41	한국섬유개발연구원
7H-08	부광씨엔에스	7G-07	위국한신재단	7J-09	한국선서연구소
8G-07	브로던	7J-21	유콘시스템(주)	7K-41	한국전광
7G-24	(주)비스타컴	8G-03	(주)유투에스알	8G-17	(주)한국전자파연구소
7F-33	비에스오토파트	8F-21	육군사관학교	8D-14	올시스템(주)
7J-24	(주)비에이솔루션즈	8D-14	올시스템(주)	7F-22	주식회사 이레산업
7F-24	비주얼지	7J-33	주식회사 아산지티엘에스	7J-08	이오시스템
7C-02	빅텍	7H-01	이오시스템	7J-10	인터콤전자
8G-09	비츠로밀텍	7J-08	(주)사라다	7C-32	자인테크놀로지
7J-08	(주)사라다	8A-34	사브 코리아	8D-22	(사)정부조달물·화상물협회
8A-34	사브 코리아	7C-24	산주광학	8G-06	주식회사 지구
7C-24	산주광학	7F-01	(주)산청	8G-18	(주)지비엘에스
7F-01	(주)산청	7G-22	삼트라이인터내셔널	7J-31	(주)지와이네트웍스
7G-22	삼트라이인터내셔널	8G-14	서광		

List of Exhibitors (Eng)

List in Alphabetical Order

Booth No.	Company Name	Booth No.	Company Name	Booth No.	Company Name
7K-21	ADMOTEC, CO, LTD.	7K-51	Hanwha Land Systems	8D-31	Northrop Grumman
7G-22	AirBom, Inc.	8A-51	Hanwha Systems	7G-22	ODU GmbH & Co.KG
7C-01	Ajou University	8A-22	Harris Corporation	7H-34	OLYMPUS KOREA CO., LTD.
8B-01	Alaska Structures Inc.	8C-41	HEAVYINDUSTRIES TAXILA (HIT), TAXILA CANITT	7C-23	Parkor Korea Indus Co., Ltd.
8C-13	Army Recognition	7F-21	HESSED KOREA, Inc	8B-21	PELICAN
7C-31	ATEMA CO., LTD.	8G-10	Huneeed Technologies Co., Ltd.	8B-41	PINETELECOM Co., Ltd
7G-22	AXON CABLE S.A.S.	7K-23	Hwashin Instrument Co.,Ltd	7J-32	PLATFORMBASE Co.,Ltd
7J-24	BA SOLUTIONS CO., LTD.	8G-05	i3system, Inc.	7C-12	PLATOON
8A-01	BAE Systems	8G-08	iBULe Photonics Co., Ltd.	8D-51	Poongsan Corporation
7J-34	Bayless	7C-03	icepipe	7H-23	Quram
8D-11	Bohemia Interactive Simulations	8C-12	INFODAS	8B-41	RAFAEL
7H-08	Boo Kweng C&S	7J-34	Institute for Advanced Engineering	8A-31	Rockwell Collins
8G-07	BROADERN	8B-11	Intelsat General Corporation	7J-34	ROHAU
7F-33	BS AUTOPARTS	7J-10	INTERCOM ELECTRONICS INC	8G-42	S&T Dynamics Co., Ltd.
7G-24	BSTARCOM,INC.	8C-31	International Congresses and Exhibitions Ltd.	8G-41	S&T Motiv Co., Ltd.
7J-05	C.G. Engineering & Consulting Co., Ltd.	7G-02	ITEC Technologies, LTD.	8A-34	Saab Korea
8A-24	CBOL Corporation	7J-33	ITTSAN GTLS CO., LTD.	8D-01	Safran Electronics & Defense
7C-41	CHANG MIN TECHRON	7C-32	JAIN TECHNOLOGY	7G-22	SamTra International
8C-22	Clarion Defence & Security	8G-06	JIGU Co., Ltd	7F-01	SanCheong
7F-31	Clean Water System	7A-52	K FRIENDS	7C-24	SANJU OPTICAL
8C-21	COGES - Euroatory 2020	7J-01	K2 KOREA Co., Ltd.	7J-08	SARADA Inc.
7H-07	DAEDONG HEAVY INDUSTRY, Inc.	7H-33	KDCA	8G-14	seogwang
7A-01	DAEJI P&I CO., LTD.	8B-33	Keo Sang Co., Ltd.	8G-15	SHIELDK CO.,LTD.
7G-41	DASAN MACHINERIES CO., LTD.	7D-01	Kia Motors Co.	7K-22	Shinil Prinno Co., Ltd.
8C-41	Defence Export Promotion Organization (DEPO)	8C-33	Kim Co., LTD	8A-11	Smart-air Chamber
8G-20	Defense Agency for Technology and Quality	7H-44	KOBACO Co., Ltd.	7C-13	SOMO ENERGY & TECHNOLOGY CO., Ltd.
7C-04	Defense Times	8D-47	Korea Aerospace Industries, Ltd	7H-44	Soosung Defense Industries, Ltd
8G-02	dongin optical	7F-51	Korea Aerospace Industries, Ltd	8D-47	Soucy Defense Co.
7G-31	Dressbook	7A-41	KOREA DEFENCE	7G-21	SUNGSAN SYATEM TECHNOLOGYinc
8C-24	DSA2020 / NATSEC 2020	8F-41	Korea Defense Industry Association	7C-34	sunmedi
8D-04	DSM Dyneema	8G-17	Korea Electromagnetic Research	7G-32	SUNTECH
8B-33	DX Korea Organizing Committee Vietnam Bureau	7K-41	Korea Electro-Optics., LTD.	7A-41	TACTICAL KOREA
8C-01	Dynamit Nobel Defence GmbH	8F-21	Korea Military Academy	7H-21	3C TAEYANG
7G-10	Eco platform	7J-09	KOREA SENSOR LAB	7C-41	TAIHAN TEXTILE
8G-16	ELKtech.CO.LTD	7C-41	Korea Textile Development Institute(KTDI)	7J-02	TECHSAN-ENG Co., Ltd.
7C-33	Eltronix Co., Inc	7H-22	KORECEN	7H-24	TMSRF
7H-01	E0 System	7J-41	KPC Metal Co., Ltd.	7H-41	TOV THE GARMENT MAKER CO.,LTD
7F-22	ERE INDUSTRY CO.,LTD	8D-47	KSC Co., Ltd	7A-41	TRICELL INTERNATIONAL CO.,LTD
8F-01	Fine ADS(Aero Defense System) Co., Ltd.	8G-04	KT&C CO., LTD	8C-11	triglighthouse
8G-11	FINEMOTORS	7H-42	KUKDONG Telecommunication	8G-03	U2SR
7K-24	FOSTEC	7J-07	KUKILPAPER MFG.CO.,LTD.	7J-21	UCONSYSTEM CO., LTD
7G-01	GAIA_APS	7J-34	LG Uplus	8D-06	Van Halteren Defence
8G-18	GBLS Co., Ltd.	7F-34	LIG Nex1 Co. Ltd.	7G-01	VICOR_APS
8A-21	General Dynamics Mission Systems	7H-31	LS Mtron Ltd.	7C-02	VICTEK Co., Ltd.
7G-33	Glennair Korea Co., Ltd.	7F-08	MADEX 2019	7F-24	VISUALG
8D-22	GOVERNMENT PROCUREMENT ASSOCIATION OF TRADITIONAL CULTURE PRODUCTS	8D-15	ManiaMind co., Ltd.	8G-09	VITZROMILTECH
7K-31	GREEN OPTICS	8B-13	March Electronics, Inc.	8B-12	Watts Water Technologies, Inc.
7F-07	GreenNare CO.,LTD.	8G-12	Metismake Co.,Ltd.	8D-21	2020 World Military Culture Expo Gyeongyo, Organizing Committee
8D-16	GUNPOWER Co., Ltd.	7G-09	The Ministry of Patriots & Veterans Affairs	7F-25	Worldi Co., Ltd.
7J-31	Gynetworks co.Ltd	7C-11	MJ Global Co., Ltd.	8A-41	YEONHAB PRECISION CO., LTD.
7J-23	HAMON SOFT CO., LTD.	7G-22	MOOG, Inc.	7C-41	YHtrading
7H-51	Hanwha	7H-43	NAVCOURS CO., LTD.	7C-21	YKK KOREA CO.,LTD
8A-51	Hanwha Defense Systems	7K-01	Naviworks Co.,Ltd.	8D-14	YOUL SYSTEMS INC.
		8B-31	Noptel Oy	7G-23	ZIWOO Information & Technology



Hanwha

ITEMS K9 Thunder, BIH0, K21 Armored Infantry Fighting Vehicle, Chunmoo, etc.
 SCALE 900m²



Hanwha has possessed the largest scale, exhibiting various items that are in use of multiple departments



Hanwha operate businesses in precision-guided munitions, advanced ammunition, surveillance equipment along with aerospace business, sharpening competitive edge.



POONGSAN CORPORATION

ITEMS Ammunition
 SCALE 360m²



Poongsan is world-famous ammunition manufacturer that produces almost all kinds of ammunition from small caliber to large caliber currently used in military.





Kia Motors Co.

ITEMS Military Vehicle
SCALE 330m²



KIA's Light Tactical Vehicle is developed by modularizing a basic chassis that can develop into various models with robust design reflects practicality, mobility and survivability.



VIP from United Arab Emirates is keeping a close watch on KIA's vehicle.



Korea Aerospace Industries, Ltd

ITEMS Full-size aircraft, rotary/fixed wing
SCALE 270m²



Surion of KAI was developed as the first Korean indigenous helicopter and has demonstrating its outstanding performance in particularly excellent hovering. Safety features enable Surion to carry out various missions.





LIG Nex1 Co. Ltd

ITEMS PGM, ISR, C4I, EW, Avionics, Unmanned System etc
 SCALE 109㎡



The booth of LIG Nex1. EXO Skeleton in the front has drawn the most interest from visitors.



LIG Nex1 has made vast contribution to military forces of ROL in having self-reliant defense capabilities with its advanced technologies.



S&T Dynamics Co., Ltd./S&T Motiv Co., Ltd.

ITEMS K9 Transmission, K55/77 Transmission, K-Series Firearms etc.
 SCALE 276㎡



S&T Dynamics has played a pivotal role by supplying transmissions such as X200-5K, HMPT500-4EK, etc. S&T Motiv has also produced and developed products for military such as automotive core components.



S&T Motiv has shown the excellence of Korea's personal arms and mobility equipment to international delegations.



DAEJI P&I Co., LTD.

ITEMS Special Purpose Vehicle for Military
SCALE 180m²



Special Purpose Vehicles manufactured by DAEJI P&I CO., LTD are maintaining its reputation as innovative product and superiority.



Fine ADS(Aero Defense System) Co.,Ltd.

ITEMS Drone, Boundary Light, Security Light, ESS
SCALE 135m²



FINE ADS Co., Ltd. has drawn positive response by showing specialized drones to fulfill the needs of civil, governmental, military, police uses with their own innovative technologies.



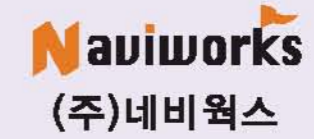
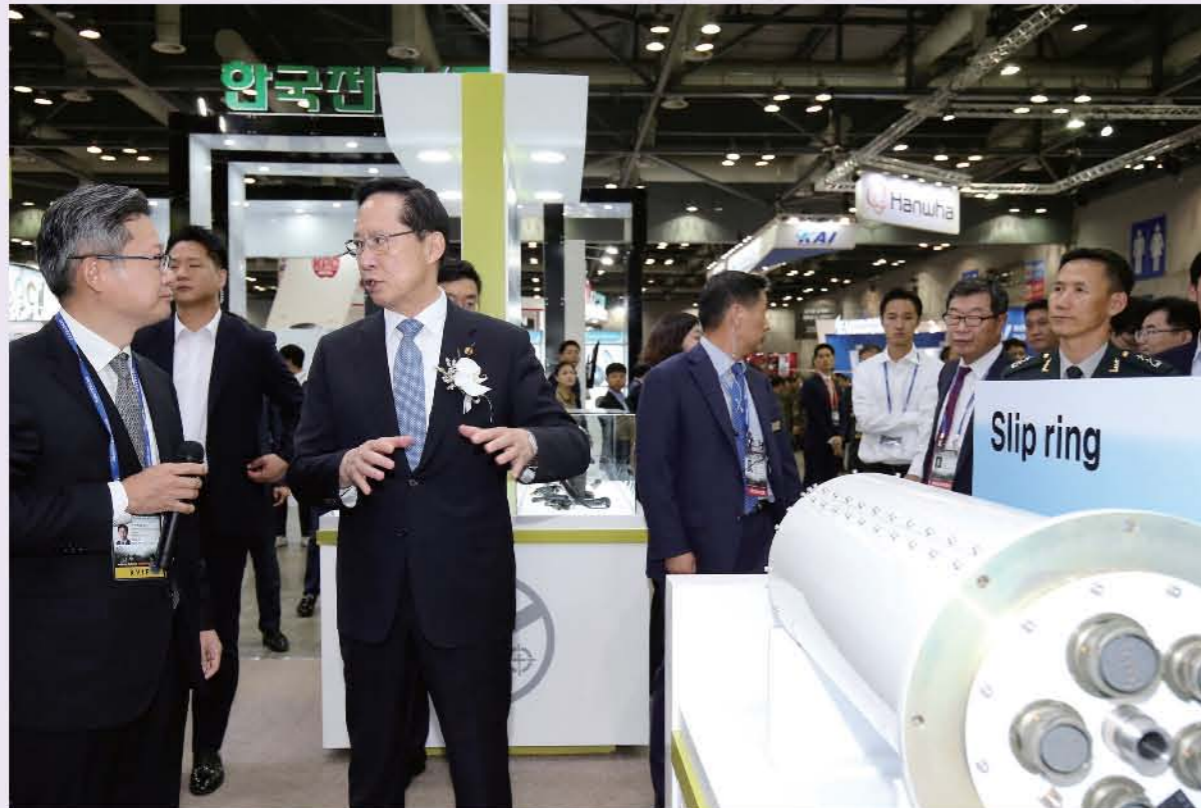


YEONHAB PRECISION CO., LTD.

ITEMS Connector, Cable Assembly, Electronic Devices, Wire&Cable
 SCALE 108m²



Yeonhab Precision has localized components of the defense communication system which have been imported from overseas countries.



Naviworks Co.,Ltd.

ITEMS RTTP, RealBX
 SCALE 90m²



VRSP is a state-of-the-art VR simulator that incorporates a haptic-based VR technology with a multi-training platform control device.



Sancheong

ITEMS Gas Mask, SCBA, etc.
SCALE 54m²



Sancheong specializes in the manufacture of gas masks, respirators and chemical protective suits. The company provides a comprehensive line of products in the areas of the military, fire service and chemical & maritime industries.



EO System

ITEMS Thermal Weapon Sight, Thermal Surveillance Devices, etc.
SCALE 54m²



EO System is supplying high-precision optical components and systems to local and global market.





DASAN MACHINERIES CO., LTD.

ITEMS Firearms
SCALE 54m²

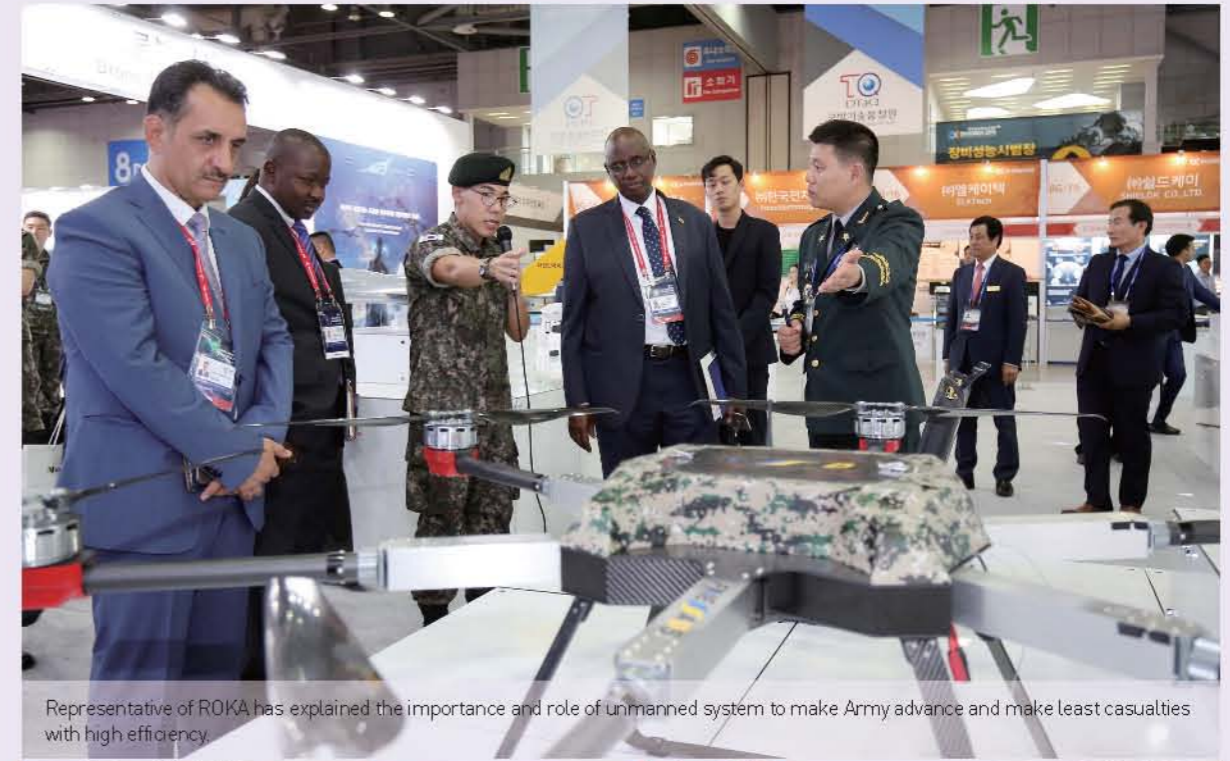


Dasan Machineries Co., Ltd is a professional manufacturer and exporter of premier pistols, rifle parts and completed firearms.



Republic of Korea Army

ITEMS Introduction of ROKA, Dronbot, Training Simulations
SCALE 288m²



Representative of ROKA has explained the importance and role of unmanned system to make Army advance and make least casualties with high efficiency.



Anyone can experience and learn how to run a drone as it is real systems to local and global market.



Defense Agency for Technology and Quality(DTaQ)

ITEMS Defense Venture Company Products, Defense SME Development Products. Etc.
SCALE 90m²

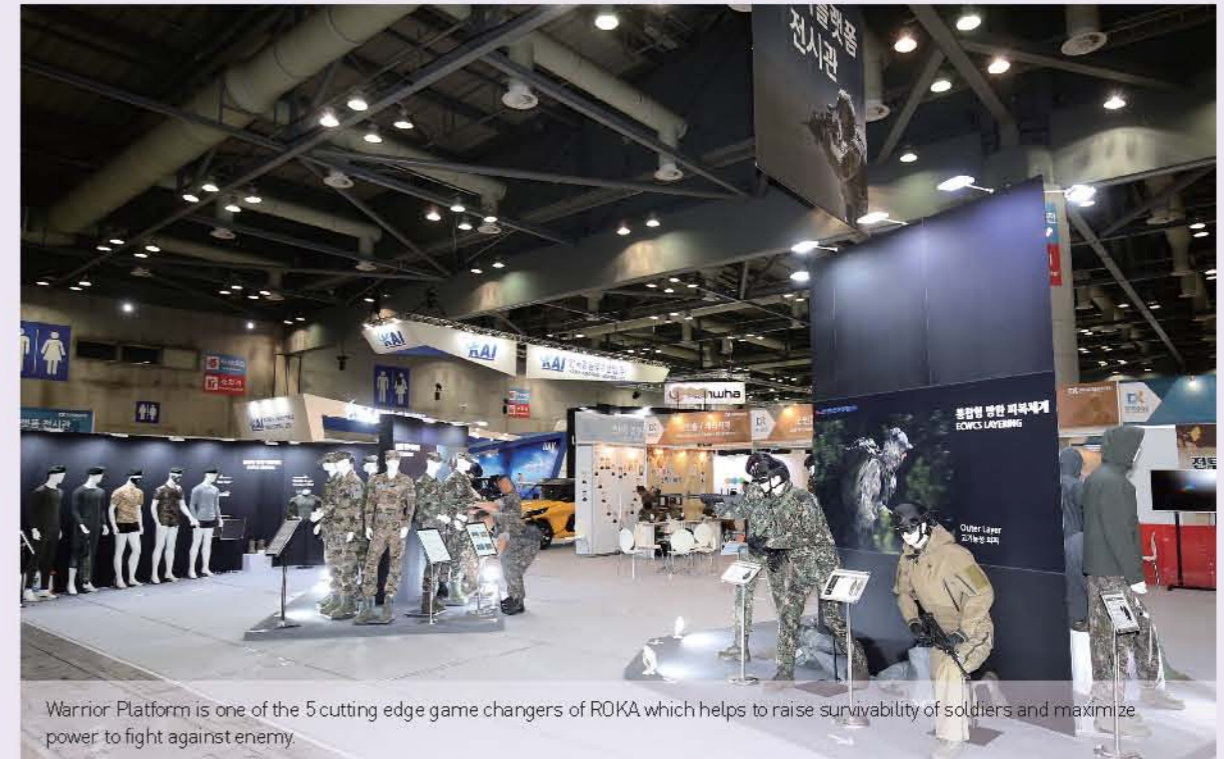


DTaQ promotes defense small & venture enterprises based on the technical know-how and defense cooperation network.



Republic of Korea Army

ITEMS Introduction of Non-weapon system and Warrior Platform
SCALE 288m²



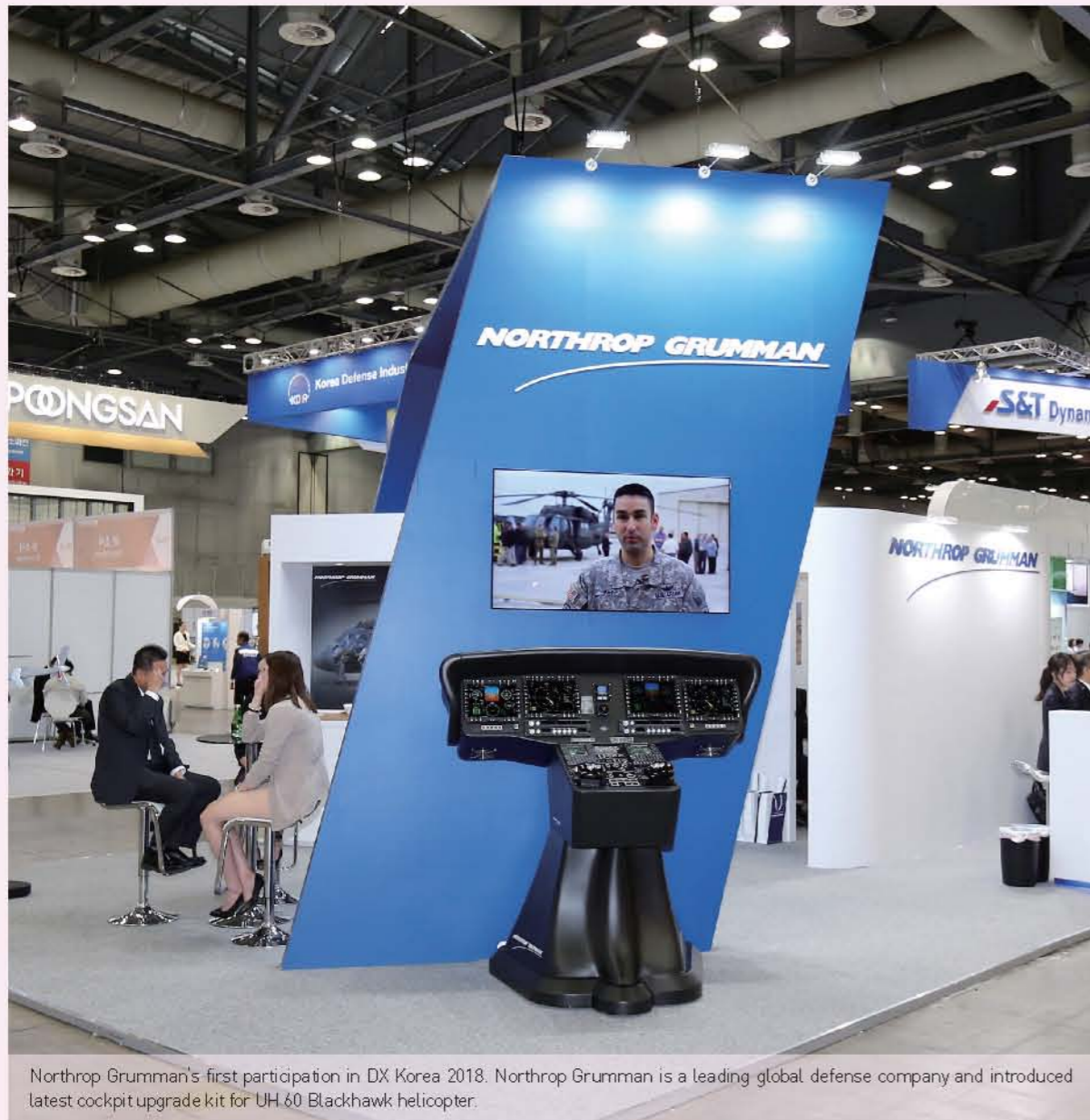
Warrior Platform is one of the 5 cutting edge game changers of ROKA which helps to raise survivability of soldiers and maximize power to fight against enemy.



THE VALUE OF PERFORMANCE.
NORTHROP GRUMMAN

Northrop Grumman

ITEMS UH-60V Cockpit
SCALE 54m²

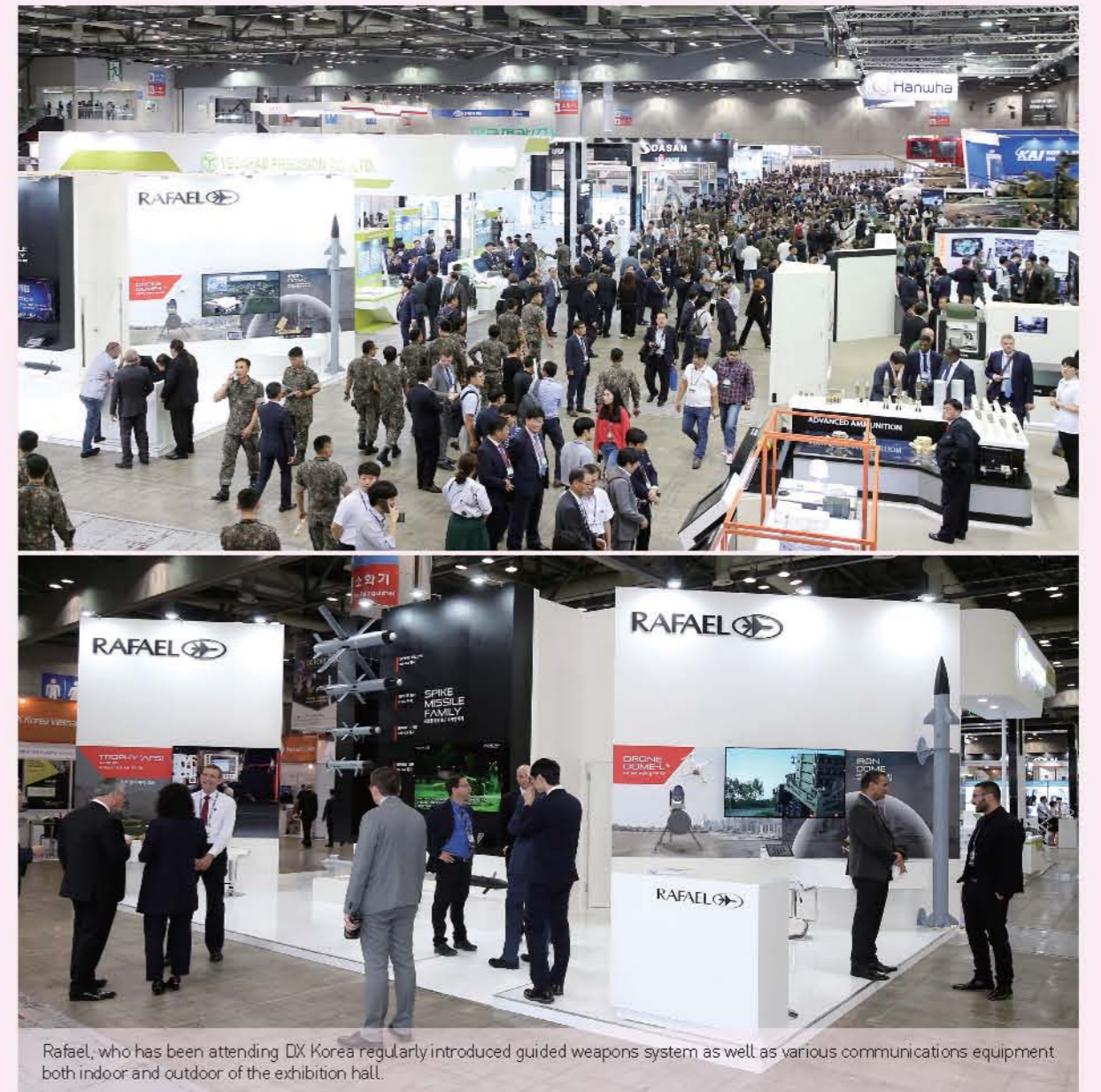


Northrop Grumman's first participation in DX Korea 2018. Northrop Grumman is a leading global defense company and introduced latest cockpit upgrade kit for UH-60 Blackhawk helicopter.

RAFAEL
ADVANCED DEFENSE SYSTEMS LTD.

Rafael

ITEMS Drone, Guided Weapon System, Communications Equipment
SCALE 54m²

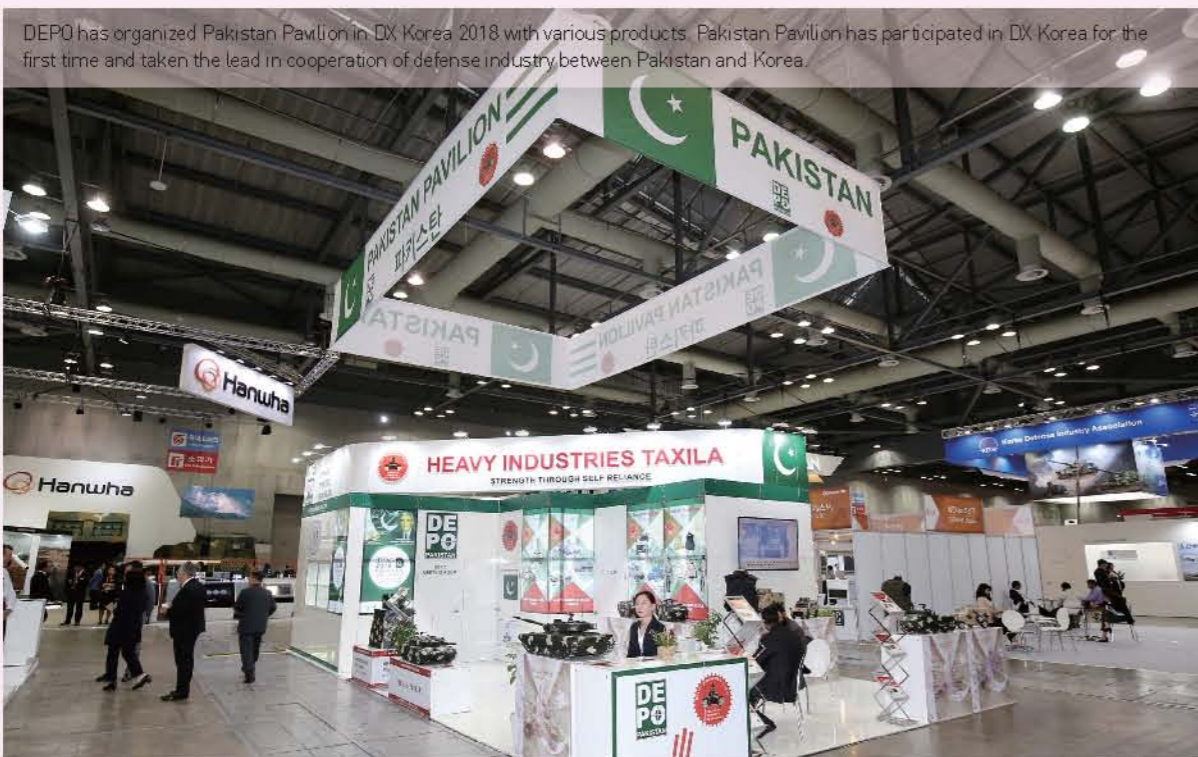


Rafael, who has been attending DX Korea regularly introduced guided weapons system as well as various communications equipment both indoor and outdoor of the exhibition hall.



DEPO(Defence Export Promotion Organization)

ITEMS Main Battle Tanks and Accessories, Small Arms, Bullet Proof Jacket, IDEAS
 SCALE 65m²



DEPO has organized Pakistan Pavilion in DX Korea 2018 with various products. Pakistan Pavilion has participated in DX Korea for the first time and taken the lead in cooperation of defense industry between Pakistan and Korea.



Prior Minister of Defense, Song has visited Pakistan Pavilion.

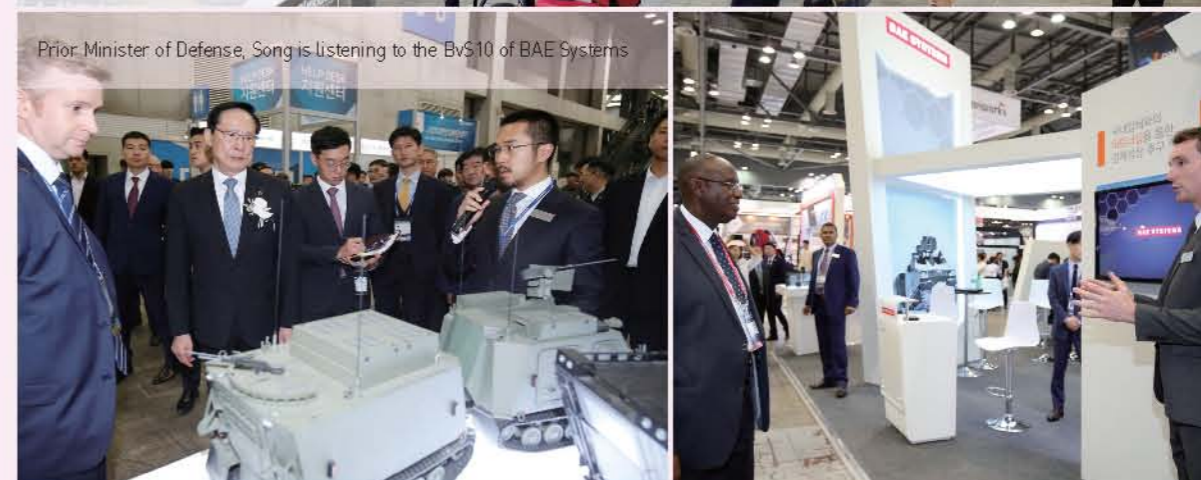
BAE SYSTEMS

BAE Systems

ITEMS BvS 10 All Terrain Armoured Vehicle, CV90 Combat Vehicle, Modular Bridging System, etc.
 SCALE 54m²



BAE Systems has grown its capacity as one of the leading global defense companies. BAE Systems made not only indoor booth but also operated their new BvS10 machine at outdoor demonstration field.



Prior Minister of Defense, Song is listening to the BvS10 of BAE Systems



Alaska Structures

ITEMS Fabric Shelter, ECU, and C4ISR
SCALE 36m²



Alaska Structures has made their booth with their own fabric shelter system.



Representative of Alaska Structures is explaining details about the excellence and practicability of their products



Pelican

ITEMS Military Case, Lightings
SCALE 18m²



Pelican is famous for hard-shell case in both civilian and military usage





Safran

ITEMS Portable Optronics / Soldier Portable Optronics / Inertial Navigation Systems
 SCALE 27m²



SAFRAN, a world-renowned defense company, participated in DX Korea 2018 for the first time, introducing portable optronics, inertial navigation systems, and various equipment for integration with ROK Army's Warrior Platform.



Harris Corporation

ITEMS Radio Communications
 SCALE 30m²



Harris introduced various mobile infantry radio communications equipment at DX Korea 2018.



Rockwell Collins

ITEMS Avionics, Communication, Navigation
 SCALE 27m²



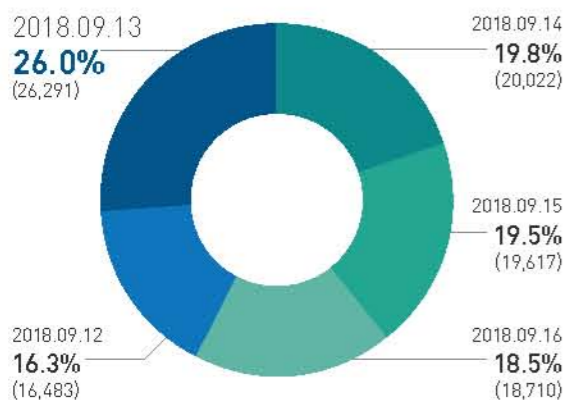
Rockwell Collins introduced avionics, communication, and navigation equipment at DX Korea 2018.

DX KOREA 2018 VISITORS STATISTICS

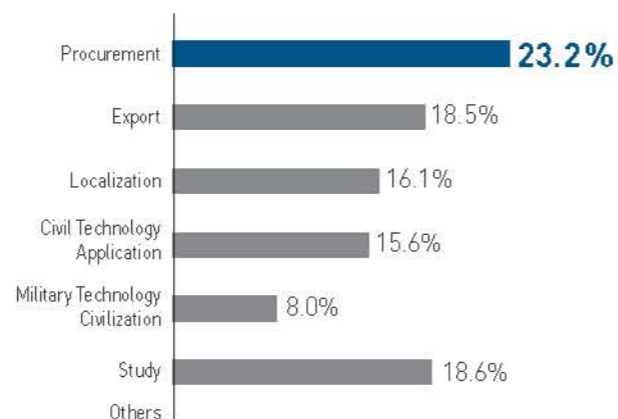
Total No. of Visitors : 101,123 (Professional 38,560)

- **132 VIPs** (Army Chief of Staff & Deputy Level) from **31 countries**
- **50 Buyers** from **12 countries** with KOTRA
- **136 Buyers** from **35 countries** in correlation with KODAS(Korea Defense & Security Week)
- **77 Minister & Vice Minister** delegates from **22 countries** with correlation with Seoul Defense Dialogue

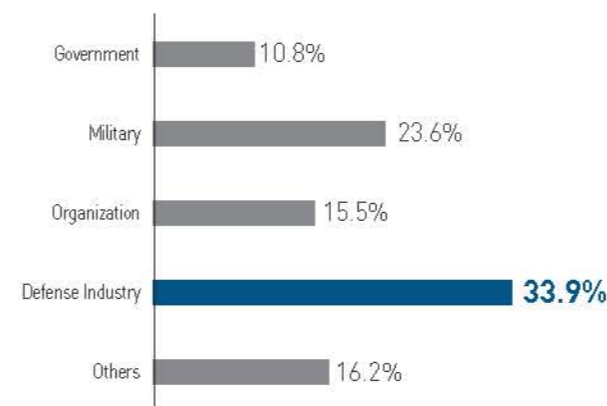
Daily Visitors Report



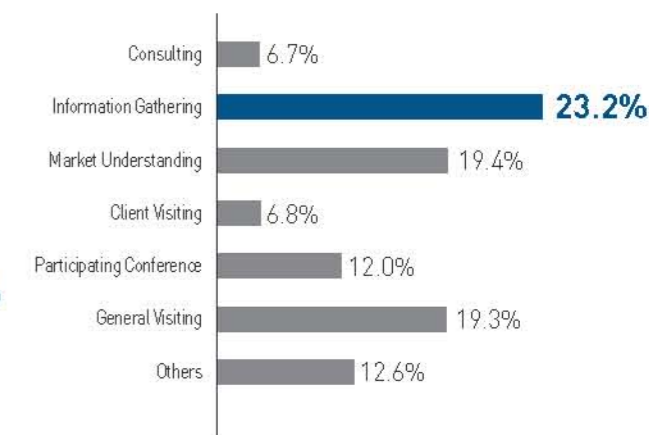
Interested Field



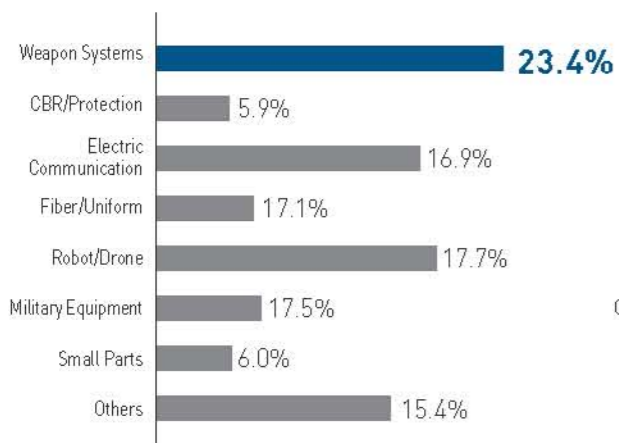
Visitors



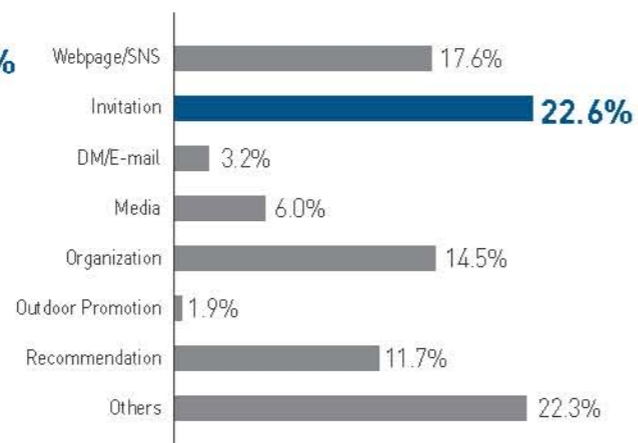
Participants



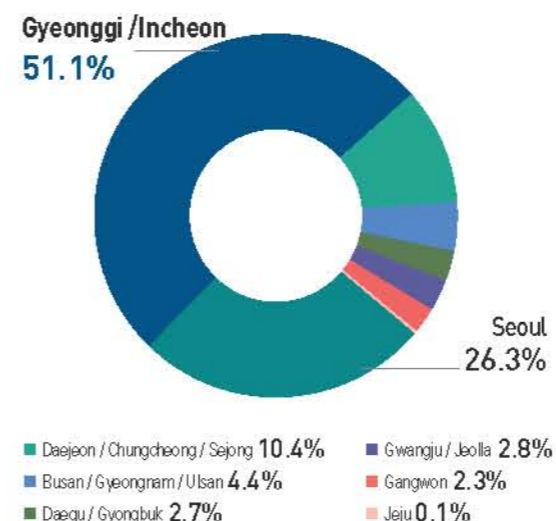
Interested Item



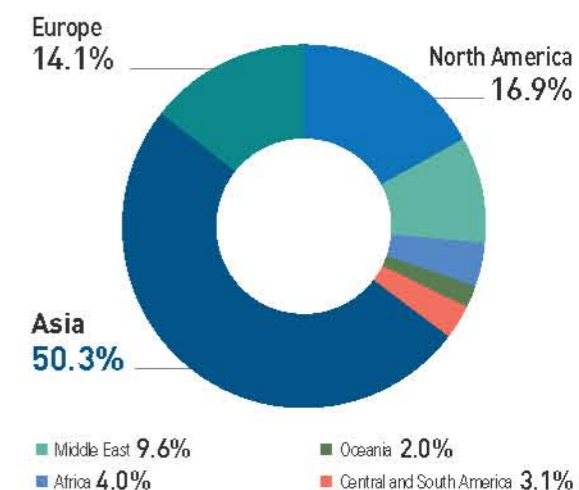
Recognition Channel



National Visitors



International Visitors



International Delegation from 31 countries



※ International buyer nationalities represented including 31 international delegations

CoS	Delegation
Malaysia (CHIEF OF MALAYSIA ARMY/GEN)	Nigeria (General Officer Commanding 6 Division/MG)
Vietnam (Deputy Chief of the General Staff/LTG)	Norway (Chief of Acquisition program in Army staff/COL)
Oman (Commander of the Royal Army/MG)	Russia (Deputy Ground Commander/MG)
Kazakhstan (Army Commander/MG)	Lebanon (Logistics Command/BG)
Hungary (Acting Chief of Land Forces/BG)	Morocco (Armored Corps' Inspector of the General Headquarters/BG)
	Bangladesh (GOC, 19th Infantry Division/MG)
	Botswana (Director General/MG)
	Brazil (Logistic Commander/GEN)
	Saudi Arabia (Head of the Supply and Supply of Land Forces/MG)

Delegation
Singapore (Chief Systems Integration Officer/COL)
United Arab Emirates (Assistant Commander for Development and Support/BG)
Estonia (Estonia Centre of Defence Investments /COL)
Egypt (Commander of Western Regional Command/MG)
Indonesia (Operation Assistant for CA /MG)
Japan (Commander of Test & Evaluation Command/MG)
China (Deputy Chief of Staff/MG)
Cambodia (Deputy Chief of Army/LTG)
Colombia (Director of Procurement/MG)
Thailand (Deputy Army Chief of Staff/LTG)
Turkey (2nd Army Commander/GEN)
Pakistan (IG ARMS/LTG)
Peru (Chief of the Peruvian Army Staff/LTG)
France (Army Headquarters, Research and Strategy Office/COL)
Philippines (Logistics Assistant Commander/BG)
Australia (Head Land Systems/MG)

International Delegation

Malaysia



Delegation	Lead by GEN Ahmad Hasbullah Bin Mohd
Rank	Name
GEN	Ahmad Hasbullah Bin Mohd
COL	Mohd Sobirin Mohd Yusof
COL	Rashidin Hashimi Ab Rashid
Delegate	Sharizam Sulaiman

Interested Equipment	K-1/K-2 Tank, K-9 Thunder
Interested Companies	Hanwha, BAE Systems, BS Autoparts, CBOL, KAI, LIG Nex1, Rafael, S&T Dynamics, SAFRAN, Kia Motors, Naviworks, Sanju Optical, Soosung Defense Industries, Yeonhab Precision, YH Trading, Ziwoo Information & Technology, K-Friends, Tov the Garment Maker, KDIA



Malaysian Chief of Army GEN Ahmad Hasbullah Bin Mohd meeting with ROK Army Chief of Staff GEN Yong-woo Kim



Malaysian Chief of Staff meeting with Deputy Commander CFC GEN Byeong Joo Kim

Vietnam



Delegation	Lead by LTG Ngo Minh Tien
Rank	Name
LTG	Ngo Minh Tien
LTC	Vu Van Thao
MAJ	Byuyen Xian Quan
Spouse	Do Thi Be

Interested Equipment	K-1/K-2 Tank, K-21 Armored Vehicle, Missile Systems, Combat Uniforms
Interested Companies	Hanwha, BAE Systems, BS Autoparts, CBOL, KAI, LIG Nex1, Rafael, S&T Dynamics, SAFRAN, Kia Motors, Daedong Heavy Industry, Daeji P&I, Sanju Optical, Yeonhab Precision, YH Trading, EO System, K-Friends, Fine ADS



Vietnamese Deputy Chief of the General Staff LTG Ngo Minh Tien meeting with GEN Yong-woo Kim

Oman



Delegation	Lead by MG Matar bin Salim bin Rashid Al Bulushi
Rank	Name
MG	Matar Salim Rashid Al Bulushi
BG	Ibrahim Said Omar Al Kindi -
CPT	A. Ahmed Hamdan Humaid Al-Hadifi
Delegate	Mansoor Hamood Mansoor Al Amri

Interested Equipment	Ground Forces
Interested Companies	Alaska Structures, Kia Motors, Naviworks, Daeji P&I, Sanju Optical, Soosung Defense Industries, EO System, Poongsan, Hanwha



Commander of the Royal Army of Oman MG Matar bin Salim bin Rashid Al Bulushi with ROK Army Chief of Staff GEN Yong-woo Kim

Kazakhstan



Delegation	Lead by MG Murat Bektanov
Rank	Name
MG	Murat Bektanov
LTC	Assylkhan Kosdauletov

Interested Equipment	Ground Forces
Interested Companies	Alaska Structures, BS Autoparts, Rafael, Kia Motors, Navworks, YH Trading, K-Friends, Fine ADS, Hanwha, Daeji P&I, Yeonhab Precision



Kazakhstan Army Commander MG Murat Bektanov with ROK Army Chief of Staff GEN Yong-woo Kim

Hungary



Delegation	Lead by BG Zsolt Sandor
Rank	Name
BG	Zsolt Sandor
COL	Jozsef Zsolt Mogyorosi
Spouse	Zsoltne Sandor

Interested Equipment	K-1/K-2 Tank, K-9 Thunder
Interested Companies	Alaska Structures, Kia Motors, Navworks, Fine ADS, Hanwha



Hungary's Acting Chief of Land Forces (Deputy Commander) Joint Force Command, BG Zsolt Sandor and Mrs. Zsolt arrives at the Incheon International Airport



Acting Chief of Land Forces MG Zsolt Sandor meeting with GEN Yong-woo Kim

Nigeria



Delegation	Lead by MG J Sarham
Rank	Name
MG	Jamil Sarham
BG	Obinna Godwin Onubogu
BG	Etuk Bassey Esuh
LTC	Eugenio Olusegun Ferreira
CPT	Abdullahi Mohammodu Dankabo
Delegate	Gabriel Olufemi Asaolu

Interested Equipment	K-1/K-2 Tank, K-21 Armored Vehicle, Missile Systems, Combat Uniforms
Interested Companies	Alaska Structures, BS Autoparts, LIG Nex1, Rafael, SAFRAN, Kia Motors, Sanju Optical, YH Trading, Fine ADS, Hanwha



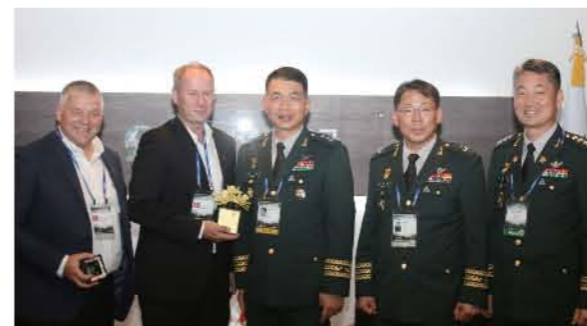
Nigeria's MG Jamil Sarham with ROK Army Chief of Staff GEN Yong-woo Kim

Norway



Delegation	Lead by COL Arild Norstad
Rank	Name
COL	Arild Norstad
LTC	Morten Jensen
Delegate	Mogens Rasmus Mogensen

Interested Equipment	Ground Forces
Interested Companies	BAE Systems, LIG Nex1, S&T Dynamics, Kia Motors, Sanju Optical, Fine ADS, Hanwha



Norwegian delegation in group photo with ROKA representatives

Russia



Delegation	Lead by MG Lizvinsky
Rank	Name
MG	Lizvinsky
COL	Antsibor Vitalii
COL	Matveev Vladimir
COL	Vladimir Svinidov
MAJ	Lazarev Evgenii
MAJ	Lysak Aleksandr
LT	Kozha Daniil

Interested Equipment	Ground Forces
Interested Companies	Fine ADS



Russian Deputy Ground Commander met with ROK Army Logistics Commander LTG Jeong-keun Lee



Russian delegation presented ROKA with shell shaped gift to represent Russia's defense industry

Mexico



Delegation	Lead by BG Fernando Colchado Gomez
Rank	Name
BG	Fernando Colchado Gomez

Interested Equipment	Ground Forces
Interested Companies	YH Trading

Lebanon



Delegation	Lead by BG Pierre Nasrallah
Rank	Name
BG	Pierre Nasrallah
COL	Michel Kanaan

Interested Equipment	Ground Forces
Interested Companies	BS Autoparts, LIG Nex1, Kia Motors, Yeonhab Precision, Fine ADS, Hanwha



Lebanon Logistics Commander BG Pierre Nasrallah meeting with ROK Army G4 MG IL Sung

Morocco



Delegation	Lead by BG Mohamed Laamiri
Rank	Name
BG	Mohamed Laamiri
COL	Foud El Bouchikhi
LTC	Liam Hamid

Interested Equipment	K-1/K-2 Tank, K-9 Thunder, K-21 Armored Vehicle, K-806/808, KLTV Vehicle
Interested Companies	BS Autoparts, LS Mtron, Kia Motors, Daeji P&I, Yeonhab Precision, Hanwha



Morocco delegation in the meeting with ROKA



BG Mohamed Laamiri presenting friendship gift during the meeting.

Bangladesh



Delegation	Lead by MG Mizanur Rahman Shameem
Rank	Name
MG	Mizanur Rahman Shameem
BG	Golam Faruque

Interested Equipment	Ground Forces
Interested Companies	Hanwha, S&T Motiv, LIG Nex1, Kia Motors, Daeji P&I, Yeonhab Precision



Bangladesh delegation and ROKA presenting friendship gift after the meeting

Botswana



Delegation	Lead by MG Mpho Orebotse Mophuting
Rank	Name
MG	Mpho Orebotse Mophuting
BG	Molatlhegi Ntelamo
BG	Thomas Odirile Masunga
LTC	Motshereganyi Leakwa
LTC	Sekaba Sedumedi
MAJ	Tshepo Ketshepile Batsile

Interested Equipment	K-1/K-2 Tank, K-21 Armored Vehicle, Combat Uniforms
Interested Companies	Alaska Structures, BS Autoparts, KAI, Rafael, SAFRAN, Kia Motors, Daeji P&I, Yeonhab Precision, Fine ADS, Hanwha



Botswana delegation and ROKA exchange friendship gifts



Botswana delegation meeting with ROKA

Brazil



Delegation	Lead by GEN Carlos Alberto Neiva Barcellos
Rank	Name
GEN	Carlos Alberto Neiva Barcellos
COL	Wilson Alves de Souza Junior
LTC	Luis Antonio Campos Mota
Delegate	Gaheun Jeon
Delegate	Ronaldo Hilario Da Silva

Interested Equipment	Ground Forces
Interested Companies	BAE Systems, BS Autoparts, KAI, LIG Nex1, Kia Motors, Fine ADS, Hanwha



Brazil Logistic Commander GEN Carlos Alberto Neiva Barcellos arrives at the Incheon International Airport

Logistics Commanders representing Brazil and ROK



GEN Carlos Alberto Neiva Barcellos presenting friendship gift to LTG Jeong-keun Lee

Saudi Arabia



Delegation	Lead by MG Fahad Musaad M. Alharthy
Rank	Name
MG	Fahad Musaad M. Alharthy
BG	Mohammed Hamed Almaidy
BG	Saad Ahmed AlJoudi
BG	Saeed Abdullah Al-Qarni
COL	Mohammed Abdullah M Alsheri
COL	Shaaf Mislaat Al-Sahly
LTC	Talal Salem J Alzahrani
CPT	Rashid Fahad AlMassoud
Delegate	Khalid M. Altakhais

Interested Equipment	Ground Forces
Interested Companies	Hanwha, BS Autoparts, CBOL, KAI, LIG Nex1, LS Mtron, Rafael, SAFRAN, Kia Motors, Naviworks, Daeji P&I, Sanju Optical, Soosung Defense Industries, EO System, Ziwoo Information & Technology, Fine ADS, Poongsan, Hanwha



Saudi Arabian delegation meeting with ROKA

Singapore



Delegation	Lead by COL Wei Lian Lim
Rank	Name
COL	Wei Lian Lim
MAJ	Yuan Wei Soh

Interested Equipment	Ground Forces
Interested Companies	BAE Systems, CBOL, Rafael, SAFRAN, Kia Motors, K-Friends, Fine ADS



Singapore delegation in group photo with ROKA

United Arab Emirates



Delegation	Lead by BG Rashed Obaid Ahmed Alnoosi Almazrouei
Rank	Name
BG	Rashed Obaid Ahmed Alnoosi Almazrouei
COL	Saif Hamdan Nasser Saif Al Raisi
LTC	Khalid Ali Alkaabi
LTC	Mohamed Sultan Mohamed Abdulla Almarzooqi
LTC	Yahya Ahmed Ibrahim Abdalla Alblooshi
Delegate	Lee In Ho

Interested Equipment	Ground Forces
Interested Companies	Alaska Structures, CBOL, LIG Nex1, Rafael, S&T Dynamics, SAFRAN, Kia Motors, Naviworks, Daeji P&I, Sanju Optical, Soosung Defense Industries, YH Trading, EO System, Ziwoo Information & Technology, Poongsan, Hanwha



UAE delegation headed by Assistant Commander for Development and Support Development & Support Programs BG Rashed Obaid Ahmed Alnoosi Almazrouei met with ROK Army G4 MG Il Sung



BG Rashed Obaid Ahmed Alnoosi Almazrouei exchanging gifts with ROKA

Estonia



Delegation	Lead by Director Kusti Salm
Rank	Name
Director	Kusti Salm
Delegate	Tina Uudeberg

Interested Equipment	Ground Forces
Interested Companies	BAE Systems, BS Autoparts, LIG Nex1, Kia Motors, Daeji P&I, Soosung Defense Industries, YH Trading, Fine ADS, Hanwha

Egypt



Delegation	Lead by MG Sherif Fahmy Saad Beshara
Rank	Name
MG	Sherif Fahmy Saad Beshara
COL	Maged Mohamed Ahmed Elwan
MAJ	Maged Tolba Abdelsayed Mohamed

Interested Equipment	K-1/K-2 Tank, K-21 Armored Vehicle, KUH-1 Helicopter
Interested Companies	Alaska Structures, BS Autoparts, CBOL, KAI, LIG Nex1, Kia Motors, Naviworks, Daeji P&I, YH Trading, EO System, Fine ADS, Poongsan, KDIA, Hanwha



Egyptian delegation meeting with ROKA

Japan



Delegation	Lead by MG Kenji KANO
Rank	Name
MG	Kenji Kano
COL	Toru Nagashima
LTC	Hideyuki Miyashita

Interested Equipment	Ground Forces
Interested Companies	BAE Systems, KAI, Rafael, SAFRAN, K-Friends, Fine ADS, Hanwha



MG Kenji Kano greeting ROKA G4



Japanese delegation and ROKA discuss on defense cooperation between two countries

Indonesia



Delegation	Lead by MG Moch Fachrudin
Rank	Name
MG	Moch Fachrudin
MAJ	Arief Handoko Usman
MAJ	Heru Sofa

Interested Equipment	K-1/K-2 Tank, K-21 Armored Vehicle, KUH-1 Helicopter, Combat Uniform, etc.
Interested Companies	BAE Systems, CBOL, LIG Nex1, Rafael, SAFRAN, Kia Motors, Naviworks, Sanju Optical, Soosung Defense Industries, Yeonhab Precision, YH Trading, Ziwoo Information & Technology, EO System, K-Friends, Tov the Garment Maker, Fine ADS, Hanwha, KDIA



Indonesia's Operation Assistant for CA, MG Moch Fachrudin arrives at the Incheon International Airport with his family



Indonesian delegation guided by DX Korea delegation team

Colombia



Delegation	Lead by MG Jorge Enrique Navarrete
Rank	Name
MG	Jorge Enrique Navarrete Jadeth
BG	Gerardo Melo Barrera
Spouse	Claudia Lucia Valencia Cedenó
Spouse	Martha Barrueto Mora

Interested Equipment	Drone/UAV, Armored Vehicles, Helicopters, Combat Uniform and Equipment
Interested Companies	BAE Systems, BS Autoparts, KAI, LIG Nex1, Kia Motors, Daeji P&I, Sanju Optical, Sancheong, Yeonhab Precision, YH Trading, Fine ADS, Poongsan, Hanwha



Colombian delegation in meeting with ROKA

China



Delegation	Lead by MG Aimin Wu
Rank	Name
MG	Aimin Wu
Delegate	Chenghu Xin
Delegate	Weibao Wang
Delegate	Zhihua Liu
Delegate	Zhongbao Feng
Delegate	Zhongming Wu

Interested Equipment	Ground Forces & Equipment
Interested Companies	K-Friends, Tov the Garment Maker, Fine ADS



Deputy Chief of Staff MG Aimin Wu of China arrives at DX Korea 2018's official hotel, Seoul Dragon City | Chinese delegation in meeting with ROKA.

Cambodia



Delegation	Lead by LTG Thong Thavrin
Rank	Name
LTG	Thavrin Thong
BG	Sovanna Sim

Interested Equipment	K-9 Thunder, K-21 Armored Vehicle, Combat Training Systems
Interested Companies	BS Autoparts, Rafael, SAFRAN, Kia Motors, Naviworks, Daedong Heavy Industry, Daeji P&I, Sanju Optical, Yeonhab Precision, YH Trading, EO System, K-Friends, Poongsan, Hanwha



Cambodian Deputy Chief of Army and ROKA Logistics Commander | Cambodian Deputy Chief of Army viewing ROKA equipment demonstration

Thailand



Delegation	Lead by LTG SUCHART PONGPUT
Rank	Name
LTG	Suchart Pongput
COL	Passapong Sirajaruroj
MSG	Kanokpech Pilalam
Delegate	Min-Ji Kim

Interested Equipment	Ground Forces & Equipment
Interested Companies	Alaska Structures, BAE Systems, BS Autoparts, CBOL, LIG Nex1, Kia Motors, Naviworks, Daeji P&I, Sanju Optics, Yeonhab Precision, EO System, Ziwoo Information & Technology, K-Friends, Hanwha



LTG Suchart Pongput viewing outdoor exhibition | LTG Suchart Pongput inspecting medical KUH-1 Surion helicopter

Turkey



Delegation	Lead by GEN Ismail Metin Temel
Rank	Name
GEN	Ismail Metin Temel
MAJ	Selcuk Gurkan
CPT	Sezgin Cebecioglu
COL	Ozcan Yildiz
Delegate	Tuncay Tunca
Delegate	Osman Boduroglu
Spouse	Ferhan Temel

Interested Equipment	Ground Forces
Interested Companies	Kia Motors, K-Friends



Turkish 2nd Army Commander GEN Ismail Metin Temel meeting with GEN Yong-woo Kim | GEN Yong-woo Kim presenting GEN Temel with a gift after the meeting

Pakistan



Delegation	Lead by LTG Sher Afgan HI(M)
Rank	Name
LTG	Sher Afgan
LTG	Muhammad Naeem Ashraf
BG	Numan Anwar
COL	Naveed Abbasi
LTC	Shahid Rasool
LTC	Tariq Mahmood
MAJ	Raza Imtiaz
Delegate	Syed Muhammad Taoufique Zia

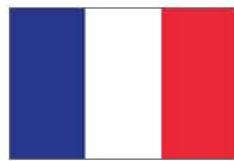
Interested Equipment	K-1/K-2 Tank, K-21 Armored Vehicle, Missile Systems, Combat Uniforms
Interested Companies	Alaska Structures, BS Autoparts, LIG Nex1, Kia Motors, Daeji P&I, Soosung Defense Industries, EO System, Fine ADS, Poongsan Hanwha



Pakistan Inspector General of ARMS LTG Sher Afgan meeting with GEN Yong-woo Kim

GEN Yong-woo Kim presenting LTG Sher Afgan with gift after the meeting

France



Delegation	Lead by COL Jean-Marc B GIRAUD
Rank	Name
COL	Jean-Marc B Giraud
COL	Johann David
Delegate	Lionel Brenier

Interested Equipment	Helicopters, Warrior Platform
Interested Companies	BAE Systems, KAI, Rafael, SAFRAN, Fine ADS, Hanwha



COL Jean-Marc B Giraud meeting with ROKA

French delegation inspecting KUH-1 Surion helicopter

Peru



Delegation	Lead by LTG Oscar De Jesus Reto Otero
Rank	Name
LTG	Oscar De Jesus Reto Otero
COL	Sandro Bravo
LTC	Ronald Paul Terrones Avellaneda
Delegate	Luis Carranza

Interested Equipment	Ground Forces
Interested Companies	BS Autoparts, CBOL, KAI, LIG Nex1, Rafael, Kia Motors, Naviworks, Daeji P&I, Sanju Optics, YH Trading, KDIA, Poongsan, Alaska Structures



LTG Oscar De Jesus Otero, Chief of the Peruvian Army Staff, LTG Oscar De Jesus Reto Otero arrives at the Incheon International Airport



Peruvian delegation in meeting with ROKA

Philippines

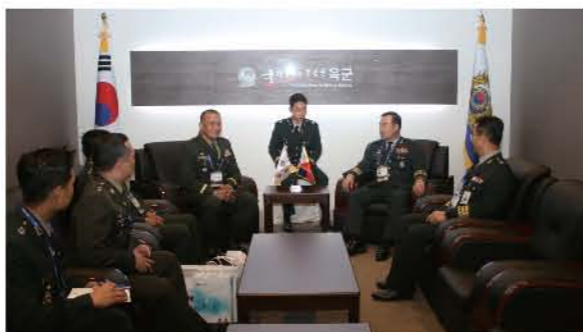


Delegation	Lead by BG BISMARCK D SOLIBA
Rank	Name
BG	Bismarck D Soliba
LTC	Crisanto Prado
LTC	Lennon G Babilonia

Interested Equipment	K-1/K-2 Tank, K-9 Thunder, K-21 Armored Vehicle, Missile Systems, Helmet, Equipment, Uniforms
Interested Companies	Alaska Structures, BAE Systems, KAI, LIG Nex1, Rafael, S&T Dynamics, Kia Motors, Navworks, Daeji P&I, Sanju Optics, Sancheong, Yeonhab Precision, EO System, Tov the Garment Maker, KDIA, Hanwha



BG Bismarck D. Soliba from Philippines arrives at the Incheon International Airport to participate in DX Korea 2018



Filipino delegation met with ROKA and showed big interested in mounted 105mm

Australia



Delegation	Lead by MG David Coghlan
Rank	Name
MG	David Coghlan
COL	Nicholas Keith Bolton
MAJ	Ashley Graham

Interested Equipment	K-21 Armored Vehicle, Missile Systems,
Interested Companies	BAE Systems, LIG Nex1, Fine ADS, Soosung Defense Industries, Hanwha



Australian Head of Land Systems MG David Coghlan arrives at Seoul Station after his visit to various Korean defense companies prior to attending DX Korea 2018



Australian delegation met with ROKA and discussed future development for both Australian and ROK Army

Major VIP Invitation

KOREA

- Senate Defense Committee Chairman & representatives
- Assistance Commander, Combined Forces Command
- CFC Deputy Commander & 27 representatives
- 3rd Army Commander & general officers
- Capital Defense Commander
- TRADOC Commander & 43 representatives
- Logistics Commander & 13 representatives
- Army HQ G4 & 15 representatives
- Blue House Defense Secretary
- Army Training Command Commanders
- ROK-US major unit Sergeant Majors
- etc.



INTERNATIONAL

- 77 Minister & Vice Ministers from 22 countries in cooperation with SDD (Seoul Defense Dialogue)
- 136 International Buyers from 35 countries in cooperation with KODAS (Korea Defense & Security Week)
- UK Secretary of Defense, Ambassadors from US, UK, Sweden, Jordan, Peru, and Poland
- 50 International Buyers from 12 countries via KOTRA
- US DoD FCT Team
- Defense Ministers from Mongolia, Mexico
- etc.



On-line Biz-Matching System

Purpose : Exhibitors to cross-trade business and technology with other defense industry representatives, as well as provide defense trade platform

Users : All exhibitors both domestic and international, All buyers both domestic and international



Defense Consulting Zone

Purpose : Allow exhibitors meet with Korean defense organizations for defense trade

Participating Organizations

Users : All defense industry representatives

Organization	Content	Organization	Content
DAPA Defense Acquisition Program Administration	Defense technology control (quality assurance test & policies)	DTaQ Defense Agency for Technology and Quality	SME
	Offset and acquisition policy		Defense equipment standardization and test & evaluation
	Trade promotion and international defense cooperation		Research consignment
	Contract on defense equipment and materials		DQMS (Defense Quality Management System) benchmark / localization of defense equipment
ADD Agency for Defense Development	Import & Export policy	KDIA Korea Defense Industry Association	Contract on defense equipment & cost accounting
	Weapon system and related technology		Government fund & skilled personnel
	Testing & evaluation		Various assurance services
	Research consignment and support		Exhibition & market expansion
	Military - Industry cooperation		International networking



VIP LOUNGE

Purpose : Allow meeting & resting area for international and domestic delegation

Users : International delegation, major invited guests, key military personnel



▲ ROK Army representatives at VIP lounge taking a break

▼ International Delegation taking a break between meetings at VIP lounge



▲ VIP lounge is designed with flags from all invited international delegation countries. VIP lounge has meeting spaces as well as resting area for delegation to take breaks.

GOVERNMENT CONSULTING ZONE

Purpose : Utilized for private meeting between international delegation and Korean government representatives

Users : International delegation, key ROK government & military representatives



Alongside from networking lounge and VIP lunge, government consulting zone is prepared for government diplomacy and private meetings



Equipment Demonstration

Content

- Display latest equipment in service with ROK Army and exhibited equipment
- Provide dynamic battlefield-like environment with special effects and obstacles
- Demonstrated Unit : ROK Army 30th Mechanized Infantry Division
- Seats : 1028 seats

Date (Sept. 12(Wed.) ~ 16(Sun.), 2018)

Date	Sep. 12(Wed)	Sep. 13(Thu)	Sep. 14(Fri)	Sep. 15(Sat)	Sep. 16(Sun)
Time	11:30	14:00	14:00	11:00	11:00

Location KINTEX Outdoor Demonstration Area



Demonstrated Equipment (17 Types, 28 total)

Name	Qty
K2 "Black Panther" MBT	2
K1A1 MBT	4
K21 IFV	2
K200A1 IFV	2
K9 SPG	3
K10 ARV	2
AVLB	1
K-SAM Chunma	1
K239 Chunmoo	2
K30 Biho Hybrid	1
K1 ARV	1
K21 ARV	1
Obstacle Clearance Vehicle	1
K808	1
K806	1
KLTV	1
KLTV AA	1
BvS10	1





Demonstration Scenario

Demonstrate mechanized infantry battalion's combat situation

No	Situation	Equipment	Content
1	Recon	UAV KLV Recon K808	Deploy UAV to locate hidden enemy location and send out recon teams.
2	Suppression	K9 SPG K10 ARV K239 Chunmoo	Recon team relays enemy position to K9 SPG for suppression fire, K10 ARV reloads ammunition to K9, K239 engages enemy reinforcements.
3	Contact	K21 IFV K200A1 KFV K806/K808	IFVs mounted with infantry move into enemy position, gets in contact engages the enemy. Find obstacle blocking the path.
4	Obstacle	Obstacle Clearance Vehicle AVLB	Obstacle is cleared and bridge is deployed.
5	AA	K30 Biho Hybrid K-SAM Chunma	Enemy Air Asset deployed, engaged by AA units.
6	Conclusion	K1A1 MBT K2 MBT K1 ARV K21 ARV	MBTs penetrate through the battlefield and capture the objected. Damaged equipment recovered.

Live Fire & Maneuver Demonstration

Content

- Display latest equipment in service with ROK Army and exhibited equipment with actual live firing and vehicle maneuver to evaluate real battlefield capability
- Combined Ground – Air battlefield scenario
- Demonstrated Unit : ROK Army 20thth Mechanized Infantry Division
- Participants : International Delegation, industry representatives

Date Sept. 14, 2018 (Fri.)

Time	Contents
13:20~ 14:05 (45')	Transportation (KINTEX -> Field Training Site)
14:05~ 14:25 (20')	Welcome & Exhibited Equipment Tour
14:25~ 14:30 (5')	Move to Seats
14:30~ 14:35 (5')	Event Description & Introduction
14:35~ 15:10 (35')	Firepower Deomonstration (8 Equipments)
15:10~ 15:55 (45')	Maneuver & Fire Demonstration (51 Equipments)
15:55~ 16:10 (15')	Group Photo Session
16:10~	Return to KINTEX

Location KINTEX Outdoor Demonstration Area

Host ROK Army 3rd Army

VIP Helicopter transportation (UH-60 & CH-47)



Demonstrated Equipment

(17 Types, 66 total)

Static Display

Name	Qty
K2 "Black Panther" MBT	1
K21 IFV	1
K30 Biho Hybrid	1
KTLV AA	1
K9 SPG	1
K10 ARV	1
K239 Chunmoo	1

Firepower

Name	Qty
K2 "Black Panther" MBT	1
K1A2 MBT	1
K21 IFV	1
K30 Biho Hybrid	1
K136 Guryong	3
AH-64E Apache Guardian	1

Fire & Maneuver

Name	Qty
K2 "Black Panther" MBT	20
K242 IFV	4
K1 ARV	3
K21 IFV	8
K281 IFV	3
K21 ARV	1
AVLB	1
KM9ACE	1
K9 SPG	6
K77 Target Control	1
AH-64E Apache Guardian	3



Outdoor Exhibition

Content Latest ROK Army equipment displayed
Date Sept. 12(Wed.) ~ 16(Sun.), 2018
Location KINTEX Outdoor Area





Demonstrated Equipment (22 Types)

Name	Qty
K2 "Black Panther" MBT	1
K1A1 MBT	1
K21 IFV	1
K277A1 Command Vehicle	1
K9 SPG	1
K10 ARV	1
K239 Chunmoo	1
KSAM Chunma	1
K30 Biho Hybrid	1
AH-64E Apache Guardian	1
KUH-1 Surion	1
NBC Vehicle II	1
AVLB	1
KLTV	1
KLTV AA	1
KLTV Recon	1
1 ¼ Cargo Truck	1
1 ¼ Ambulance	1
KLTV 2 passenger Recon	1
KLTV 4 passenger Commander	1
KLTV up-armored	1
Mohave	1



Symposium on Future Ground Force Plan



Maneuver Field



Protection Field



the 4th Industrial Revolution



C4I Field

2018 R.O.K. Army International Conference



Symposium on Future Ground Force Plan

9.12 (WED) 13:10-17:00

Topic	Contents
C4I Field	<ul style="list-style-type: none"> Session 1 (13:10-14:40) <ul style="list-style-type: none"> Software Define Network Military Application Plan (Ajou University) Secondary Battery Development Trend and Military Utilization Plan (Chungnam National University) Establishment and Development Direction of Tactical Routing Protocol (LIG Nex1) Session 2 (14:50-16:20) <ul style="list-style-type: none"> System DB Integration Scheme for Big Data Construction (ADD) Establishment Plan of Cyber Situation Recognition System Using Threat Hunting Concept (Hanwha Systems) Development Direction of Security Policy for Cyber Protection (ETRI)
Intelligence Field	<ul style="list-style-type: none"> Session 1 (13:10-15:40) <ul style="list-style-type: none"> Cyber Electronic Warfare's Impact on Dronebot Combat System (ADD) Current Technology of UAV Elect-optical/Infrared (EO/IR) Sensor and its Developmental Trends (ADD) Current Technologies and Implication Studies of Drones (Koribuk University)
Maneuver Field	<ul style="list-style-type: none"> Session 1 (13:10-15:40) <ul style="list-style-type: none"> Development Status and Direction of Un-manned Ground System of National Defense (ADD) Tank Development Direction Suitable for Mission Performance of Armored / Mechanized Unit (KRISS) Development Direction of Future Intellectual Scatterable Mines Systems (Hanwha Corporation) Development Direction of Future Infantry (Infantry School)
Protection Field	<ul style="list-style-type: none"> Session 1 (13:00-17:00) <ul style="list-style-type: none"> Micro Explosive Steam Finder Technology (Chosun University) Development of Nuclear WMD Defense Weapon System (CBRN School) Development Trend of Future Chemical Detection Equipment (Sungsan Technology) Development of Future Decontamination Material for CBRN Protection (UNIST) Development of Chemical Weapon Disposal Technology for Elimination of WMD Threat (ADD) Session 2 (13:50-17:00) <ul style="list-style-type: none"> Future Direction of Air Defense Power for Ensuring the Survival of Ground Forces (Protection School) Development Trend of Multi-Mission Launcher in the U.S. Army and the Application of Air Defense (LIG Nex1) Application of Ground Power to Advanced Laser Technology (ADD) Development of the Future Unmanned Air Defense Weapons System (Hanwha Defense) Development of Drone Control System (Hanwha System) Development of Air Defense Command Control System in the Age of Hyper-Connection (ETRI)

9.13 (THU) 13:10-17:00

Topic	Contents
Maneuver Field	<ul style="list-style-type: none"> Session 2 (13:10-15:40) <ul style="list-style-type: none"> Status and Development Trends of Army Aviation Man and Unmanned Compound System (ADD) Operating Cases and Lessons of Man and Unmanned Compound System in US Army Aviation (US 2nd Aviation Brigade) A Study on the Development of Military Rotary Wing Technology Considering the Future Battlefield (KSAS) Development Trends of the Mid Infrared Rare and Application Method to Helicopter (DTRC)
Fire Power Field	<ul style="list-style-type: none"> Session 1 (13:10-15:40) <ul style="list-style-type: none"> Future Artillery Power Direction of Development (Infantry School) Development of Cheon Mu 2 and Operational Employment Option (AROKA) Precision Guided Munition Development Trend (ADD) Introduction of Drone-Shaped Smart Projectile (Poongsan Corporation)
Sustainment Support Field	<ul style="list-style-type: none"> Session 1 (13:10-14:50) <ul style="list-style-type: none"> The Effect of 4th Industrial Revolution on ILS Ability (DTAQ) IoT Munitions Lifecycle Management Strategy (Kumoh National Institute of Technology) Hi-Tech Nano Technology and its Application on Force Support System (INRF) Session 2 (15:10-16:30) <ul style="list-style-type: none"> How to Innovate Future ILS Management (Hanwha Systems) Hi-Tech Textile Technology and its Application on Future Warrior Platform (KTDI) Munition Transportation Drone Operation at Wars in the Future (Consolidated Army Logistics School)
the 4th Industrial Revolution	<ul style="list-style-type: none"> Session 1 (14:00-17:00) <ul style="list-style-type: none"> Future Land Operation Concept Development Related with 4th Industrial Revolution Force Structure and Organization Development Based on 4th Industrial Revolution Technology Innovation Plan for Dronebot Combat System Utilizing Hyper Connectivity and Intelligence A Study on Possibility of Future C4I System Realization Utilizing ICT Technology

2018 R.O.K. Army International Conference

9.13 (THU) 09:30-13:30

Time	Contents	Time	Contents
09:30-09:50	<ul style="list-style-type: none"> Opening Remarks : Lee, Sanghee, Resident, Korea Research Institute for National Strategy Former Minister of National Defense General, (Ret.) Chairman of Joint Chiefs of Staff Welcoming Address : Gen, Kim Yongwoo, ROK Army Chief of Staff 	10:20-12:30	<ul style="list-style-type: none"> Moderator : Lt Gen (Ret.) Yoo, Jheung, Former TRADOC Commander, ROKA and Deputy Minister for Defense Policy, Ministry of National Defense Speaker 1 : Lee, Jong-Yong (Senior Researcher, Agency for Defense Development) The Concept and Evolution of Manned and Unmanned Teaming across Warfighting Functions Speaker 2 : Curry Wright (Director of Emerging Capabilities and Innovative Effects Division (BXD), UNC / CRC / USFK) Development of Unmanned Weapon System and the Future Concept of Battlefield Operating System
09:50-10:20	<ul style="list-style-type: none"> Keynote Address: General David G. Perkins (Ret. USA) Former Commander, the U.S. Army Training and Doctrine Command 	12:30-13:30	<ul style="list-style-type: none"> Luncheon : Hosted by ROK Army Chief of Staff

KADIS International Seminar



Warrior Platform Development Seminar



Dronebot Combat System Seminar



Dronebot Combat System Seminar

9.14 (FRI) 09:30~17:10

Time	Program	Time	Program
Opening (09:30~10:00)	<ul style="list-style-type: none"> Opening Address : Co-President of KODEF Welcome Speech : Commander of ROK TRADOC Congratulatory Speech : Chief Staff of ROK Army, Chairman of the National Assembly Defense Commission, Vice-Chairman of KDIA, Vice President of ADD 	Session 2 (13:30~15:20)	<ul style="list-style-type: none"> DroneBot Technology's Trend and New Market, and Limitless Opportunities Remote Command & Control System Research and Technology for the Development of DroneBot Combat System Future Battlefield System's Integrated DroneBot Command and Control System Next Generation UAW Development and Control System Unmanned Ground Robots Development and Forecast
세션 1 10:00 ~ 12:00	<ul style="list-style-type: none"> ROK Army's DroneBot Combat System's Present and Future DroneBot Combat System's Strategic Development Ground Force Robots Development Strategy and Status Unmanned Robot's Core Technology Research and Development Application of Advanced Technology in Ground Unmanned Combat System in line with Fourth Industrial Revolution 	Session 3 (15:50~17:10)	<ul style="list-style-type: none"> DroneBot Combat System's Contribution Toward Advancement of Technology and National Economy Development of Drone Industry and Advancement of its Technology The Fourth Industrial Revolution's Technology to Foster DroneBot Specialized Forces Anti-Drone Technology Development and its Progress

Warrior Platform Development Seminar

9.14 (FRI) 13:00~16:30

Session	Time	Contents
	13:00~13:30	<ul style="list-style-type: none"> Registration and Reception
Session I	13:35~14:20	<ul style="list-style-type: none"> Welcome Address : ROK Army's Chief of Staff Celebratory Address : Congressman Jung-ro Kim, Head of Force Support System Management, Chairman of KADIS Chae-woo Suk Lecture Title : Regulations of Today and Innovations for New Paradigm in Acquisition of Force Support System (Change of Perception, Transition to Post-Regulation)
Session II	14:30~15:45	<ul style="list-style-type: none"> Application of Advanced Technology in Private/Military Sector, Enhancement of Company's Participation in R&D Transition of Paradigm in Acquiring Warrior Platform Examples of Regulations and Private Sector Participation with French Militaries Designing and Stimulating Warrior Platform Environment
	15:45~16:30	<ul style="list-style-type: none"> Discussion

Honor Guard



Martial Arts (Tae Kwon Mu)



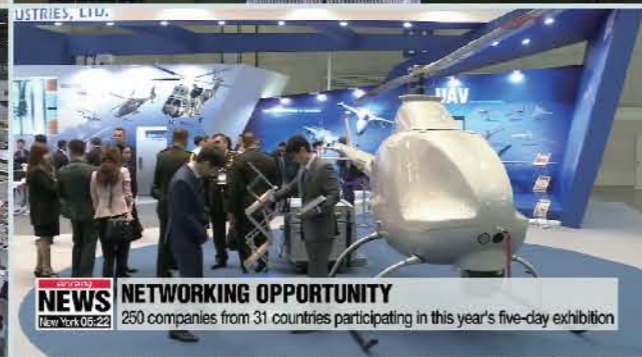
Army Song Contest

Host ROK Army
Date Sept. 15, 2018 (Sat.) 14:00
Location KINTEX Outdoor Stage



Major Press

Broadcasted in major Korean TV and Newspaper Medias. (300 coverages in 50 press organizations)
Official Media Partners : IHS Jane's, Army Recognition

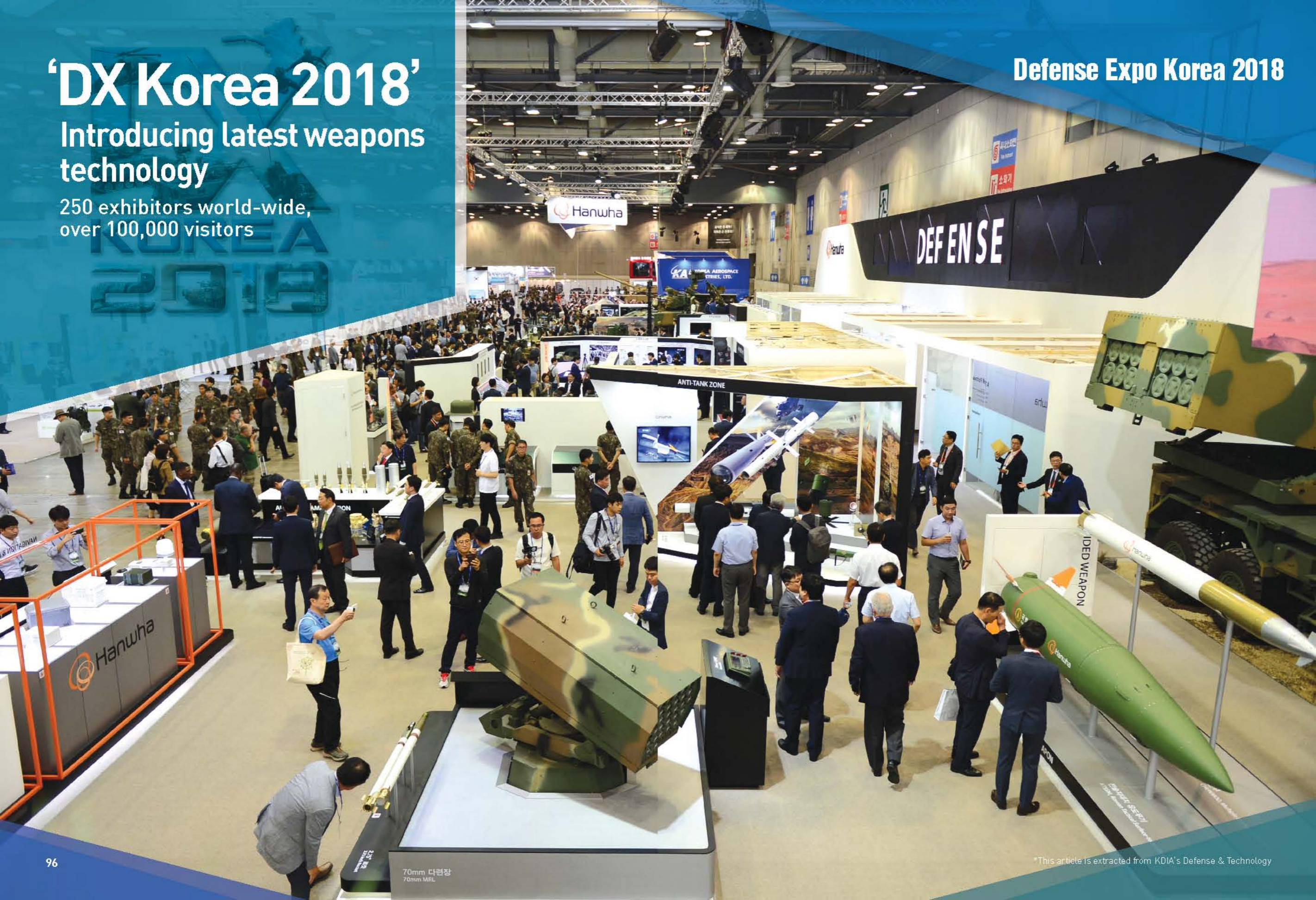


'DX Korea 2018'

Introducing latest weapons technology

250 exhibitors world-wide,
over 100,000 visitors

Defense Expo Korea 2018





Defense Expo Korea 2018 took place at KINTEX between Sept. 12 ~ 16 with over 100,000 visitors from around the globe.

This year's DX Korea is in its 3rd Edition, beginning in 2014. This year's exhibition had been participated by 250 companies from around the world with 1,200 booth spaces used and Korean SME participation increased by 120%. Indoor exhibition size at 22,580sqm and outdoor 78,653sqm, DX Korea 2018 is the largest land forces defense exhibition in Korea. International delegation visited DX Korea 2018 from 26 countries, including Malaysian Army Chief of Staff, which DX Korea 2018 was the first international schedule after becoming the Army Chief of Staff.

Various press members, especially international press personnel who witnessed live fire and maneuver demonstration, stated DX Korea 2018 is the most dynamic defense exhibition in the world.

Representatives from the Presidential Office noted DX Korea is the best platform for defense export as

well as to increase jobs in defense industry.

DX Korea Organizing Committee established business platform for international VIP and buyers to meet with both Korean and international defense companies to assist defense trade. Multiple business meetings took place at both exhibitor's booth and government chalets.

Defense Minister Song Young Moo noted that developing defense industry is crucial in improving national defense capability as well as assisting with economical growth. He also stated spearheading defense industry's development is crucial in modern 4th industrial revolution improvements.

Defense Minister also introduced various government policies to assist SMEs. Government will soon share various R&D resources with SMEs, allowing current technologies to continuously improve and develop further with help from various defense companies around.

Various Korean VIPs including the Defense Minister,

Army Chief of Staff, Senate Defense Committee Chairman, and Army Chief of Staff visited companies exhibiting at DX Korea 2018 to see the latest technology as well as to share ideas on current policy, as well as to encourage companies for their services.

DX Korea 2018 included many government supported programs with collection of SMEs support by ADD for participation. DX Korea also co-scheduled its date with Seoul Defense Dialogue which brought defense ministers from around the world, and Korea Defense & Security Week which brought international defense buyers from around the world. Allowing government and defense representatives from all corners around the world to join in all together.

President of the Association of the Republic of Korea Army, GEN Kim Pan Kyu, the host of DX Korea 2018, noted that Korea's defense industry is among world-class and DX Korea 2018 works as the foothold for announcing and introducing Korea's tremendous defense technology to the world.

DX Korea 2018 displays various types of defense systems such as systems, sustainment systems, as well as counter-terrorism and security systems. ROK Army's latest defense policy, "Warrior Platform" development and "Dronebot" development has also been introduced at DX Korea 2018.

Outdoor demonstration area allowed equipment to be demonstrated in front of buyers and visitors to check their capability, as well as to allow people to board the equipment. Live fire & maneuver

demonstration took place at Pocheon Army Training Site for international defense representatives and buyers to even further examine the effectiveness and capability, and the quality of Korean weapon technology.

DX Korea 2018 especially emphasized greatly on various demonstrations compared to past shows, implementing assorted obstacles and dynamic display, for testing and demonstrating



the equipment in more realistic battlefield-like environment.

There had also been several public events such as military honor guard & band performances, martial arts demonstration, veteran's reunion, etc.



1 Hanwha Corporation's defense companies formed combined Hanwha booth, introducing latest weapons technology and solution. Formed by 4 major defense branches Hanwha, Hanwha Systems, Hanwha Land Systems, and Hanwha Defense, combined Hanwha booth have been the largest in booth size and participant at DX Korea since 2016. Hanwha especially introduced defense robot & drone systems, individual combat equipment, and 4th Industrial revolution digital battlefield capability solution. Hanwha also introduced various portfolio of defense products in maneuver, firepower, guided weapon systems.

2 LIG Nex1's OTM satellite system terminal is latest 2nd generation guidance system with operational capability expected in 2020. The decision on the location terminal's emplacement took an entire year, as terminal device's location would interfere with capability of other parts and equipment of the vehicle. If the terminal device is located outside of the vehicle, it is subjected to hostile gunfire and may also interfere with the visibility and mobility of the vehicle. Close examination and testing finalized the emplacement of the terminal device, with best possible solution.

3 Hanwha's anti-jamming satellite guidance system can be mounted on the vehicle. It can be used to receive GPS signals to guide vehicle's direction, at the same time employ anti-jamming system for hampering with enemy's GPS signals if hostile interference is spotted. It is expected for field testing in 2019.



4 Hanwha's LDRF (Laser Designator and Ranger Finder). LDRF has been reduced in its size to be mounted on LAH (Light Armed Helicopter)'s TADS (Target Acquisition and Designation System). By viewing the photo, you can compare the size difference in earlier models to the left, to the latest version on right, with its size differences.

5 Hanwha's Remote Control Munition system which replaces outdated mines. Fielded starting 2014, Remote Control Munition system can prevent enemy infantry infiltration as well as deployed for perimeter defense protection.



6 7 Hanwha Systems is creating latest infantry equipment for ever-changing battlefield environment. Communication equipment is essential in latest battlefield technology.

Information from cameras attached to the helmet and rifle can be transmitted via antenna and to the soldier's goggle attached to the helmet.

Helmet is also implemented with thermal camera. These various video and audio transmitter and communications equipment will be integrated via C4I systems by 2023.

Battery is of course needed for supply all the tech equipment, and weight of heavy batteries interfere with individual soldier's capability. Hanwha Systems is developing light weight combined battery system to supply power for all equipment attached in the individual soldier's warrior platform.

Anti-jamming system is also needed per individual soldier as information received from various equipment soldier is utilizing becomes useless unless it can be transmitted directly to the soldier. Small chip-sized anti-jamming equipment is expected to be developed.





12 Hanwha Systems is creating one-stop Total Solution Provider to connect UAV and robots, to connect all data-link.



3 Hanwha Land Systems introduced all-terrain unmanned vehicle which can operate in dangerous and hostile areas for reconnaissance and transportation of cargos 160kg. Soldier could operate the unmanned vehicle via monitor from 1km distance and it can transmit communication from air drones and other assets as well. Through deep learning technology, UAV can identify persons and vehicles as well. Equipment attached the rear of the vehicle, which looks like many poles in shape of microphone, is sniper detection system. Introduced by Zain Technology, it can be used to detect enemy's gunshot fire and locate the hostile.

4 Hanwha Land Systems introduced IED robot for utilization in urban and forest area. Weighting about 80kg, IED robot can be operated in both aggressive and defensive missions, detecting hostile mine and IEDs, as well as creating passage for following troops.

5 Hanwha Land Systems surveillance robot which weight roughly 30kg can be utilized in frontline such as General Outpost and ambush points. This



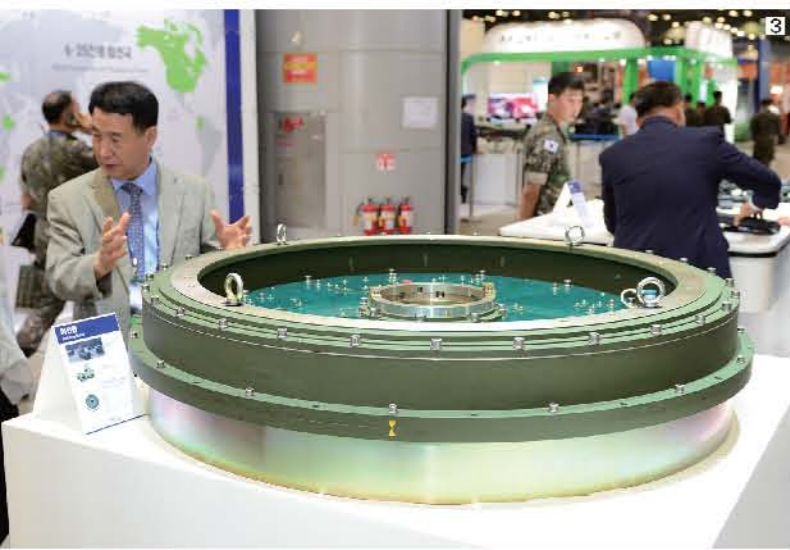
would increase soldier's surveillance capability and provide scientific surveillance mission capability.

6 LIG Nex1 displayed latest Shingung with Mode-5 IFF (identification, friend or foe) installed. LIG Nex1 announced they signed tentative agreement with US's KBR for AIMS certification. IFF is crucial in latest battlefield technology as it can verify enemy and friendly forces. Army is expected to improve all military hardware with Mode-5 IFF capability. AIMS certification is a crucial development procedure as it needs compatibility with US's Mode-5 security clearance codes.

7 LIG Nex1's LEXO suit can help the soldier with equipment weight distribution and allow for heavy cargo to be carried with ease. Suit displayed right is newer model, suit on the left was developed 3 years earlier. It can carry 50kg of weight.

8 LIG Nex1, famous for guided weapon systems, had introduced multi-purpose unmanned helicopter. Both military and civilian market capable, unmanned helicopter is co-developed by Sung Woo Engineering and LIG Nex1. It can perform various missions such as detection and reconnaissance, as well as transportation of equipment. It can carry 60kg of cargo.





1 Mortar system, which may appear as being outdated in modern day military technology, is going through renovation with digital upgrade. S&T Dynamics's 120mm mortar system can be mounted on wheeled and tracked vehicles and can be loaded and fired semi-automatically. It is an upgrade from old 4.2in mortar system with firing range doubled. At 13 tons in weight, it is currently under field testing.

2 S&T Dynamic's is developing new main gun with CTGA (Cased Telescoped Ammunition) systems. CTA ammunition can be identified by 3 methods: Short in length, round in shape, and plastic case. It reduces the weight of ammunition by 30%, minimizes the space for storage, while packing same firepower. CTA ammunition is expected to be field with K21 IFV and KAAV.

3 C4I radar system is crucial for Korean Chungung Surface to Air missile to be effective. S&T Motiv created 360 degree rotating platform for radar system, which can spin 40 times in a second and haul 800kg of weight.

4 As there are black boxes for cars, S&T Motiv is developing black box system for firearms. It can see when and where the ammunition has been fired. The information is transmitted simultaneously via GPS and sensor for data to be saved. It is expected to be developed by 2020 for full operation.



5 **6** Various electric equipment exists inside unmanned aircraft with different voltage and specs per equipment. Yeonhap Precision's PMU (Power Management Unit) provides and distributes correct amount of electrical power to each equipment. BCCU (Battery Charge Control Unit) is used to recharge the needed power, and checking and maintaining the power system can be done easily via laptop.

7 Yeonhap Precision introduced Slip Ring mounted on unmanned gun system on warship. Slip Ring allows the main gun to rotate 360 degrees without having internal wires twisted or damaged. Hanwha Defense's K-30 Biho platform is also equipped with similar Slip Ring.

8 Yeonhap Precision's touch sensors allow person to feel the object which does not exist. It can be used in both civilian and military market. Person can use it for rehabilitation, as well as driving & flight training for military equipment





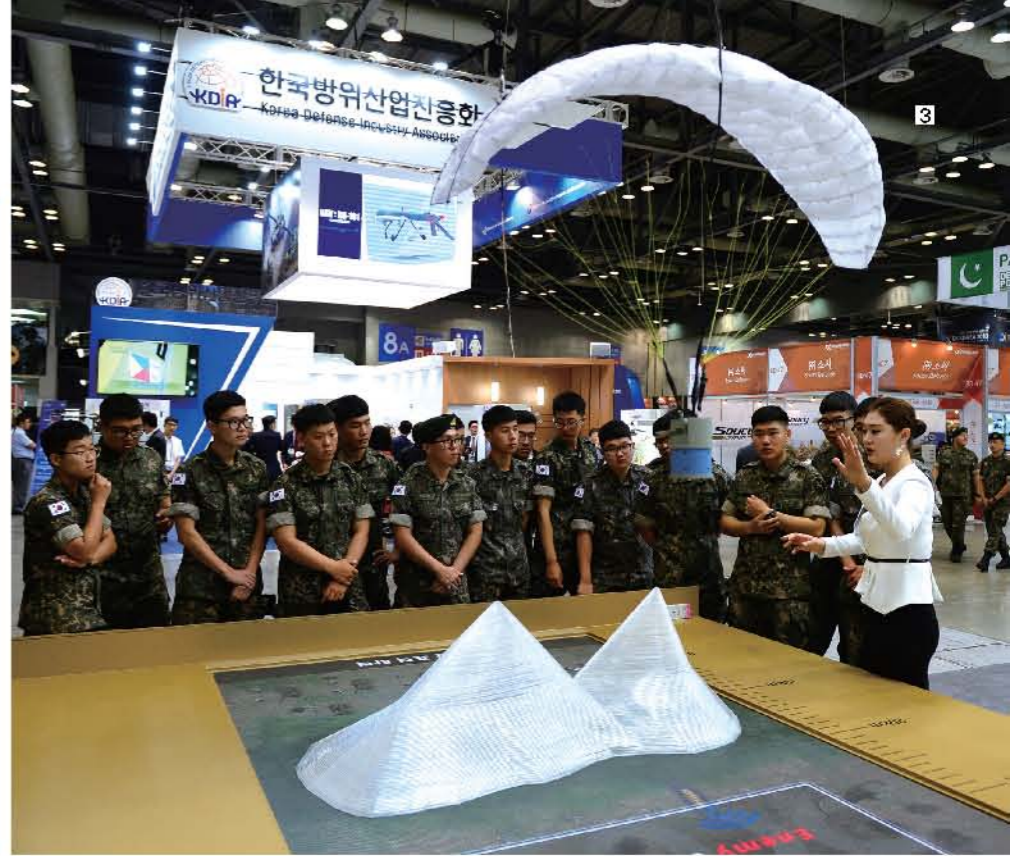
1 KAI's reconnaissance unmanned vehicle NI-600VT (Night Intruder-600 Vertical Take Off & Landing). This UAV removes the need for runway and implemented with Electronic Optics, Infra-Red, and Synthetic Aperture Radar equipment for various reconnaissance capability. It has operational capability for 6 hours.



2 KAI's latest Corps-level reconnaissance UAV is equipped with EO, IR, and SAR. It is modulated for various parts to be attached or detached based on mission specific needs. Length 9m, Width 17m, Height 3m, with flight weight at 1000kg.

3 Poongsan's surveillance ammunition is a 155mm ammunition which can be deployed in the air to send information on following artillery round's impact and target area. It can be used to evaluate the target guidance and target damage assessment. The surveillance ammunition systems stays airborne at 1~2km in the air for roughly 10 minutes.

4 KIA Motor's T2 FTV (Future Tactical Vehicle). An armored transport which can transport approximately 20 persons, the design shows the toughness.





1

1 Hyundai Rotem's K2 "Black Panther" Main Battle Tank in rare desert camouflage. This specific K2 has been modified for desert conditions in preparation for export in Middle East area. Also notable is sun-cover to protect the commander from weather environment. Various other equipment has been added for desert and sand conditions.



2 Among the 5 game changers in the ROK Army, individual soldier's combat platform, "warrior platform" was introduced at DX Korea 2018. With the reduce in troop size coming up, warrior platform has been introduced to enhance individual soldier's combat capability and survivability.

3 KPCM expands its business into the aerospace & space, future vehicles, medical development, etc.

4 Soosung Precision's bore cleaning system for heavy caliber guns such as K9 Self Propelled Gun and K2 Main Battle Tank. Typically, many soldiers would have to clean the bore with metal brush and stick, but automated bore cleaning system removes the burden from the soldiers.



3



4

5 Dasan's AR47 Rifle. The design integrates 7.62mm barrel and magazine AK rifles and receiver platform from AR rifles. AR47 rifle is expected to be fielded in large quantity with Saudi Arabian military.

6 Dasan's MG9 Submachinegun can be used with SWAT and various special operations units. It has recently come into contract with Polish security firm.

7 Hanwha's 230mm MLRS Chunmoo has satellite guidance system developed by Navcours. Antenna must be included in satellite guidance system, and the antenna's emplacement and design may need to be altered in shape based on the projectile. As pictured, antenna is curved in shape.

8 Anti-mining equipment DMB30 introduced by Daedong Heavy Industry which is being introduced into the Cambodian market. Excavator's bucket can dig up the area where mine is anticipated. The bucket shakes 42 times in a second to remove dirt and rocks. This shake does not interfere with the excavator's movement. Unlike the older model DVB26 which is currently fielded with the ROK Army, new DMB30 bucket can rotate 360 degrees.



5



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8

Outdoor demonstration displayed major equipment in service with the ROK Army as well as exhibited equipment.
 ROK Army 30th Mechanized Infantry Division 52nd Armored Battalion led DX Korea 2018's outdoor equipment demonstration.
 Demonstrated equipment include K2 Tank, K1A1 Tank, K9 SPG, K10, K21 IFV, K200 IFV, AVLB, KLTV, Biho Hybrid, BvS 10, etc.



1 Hyundai Rotem's K2 tank is planned with 2nd batch production of 100 tanks to be produced by 2021. 2nd batch production will include Powerpack system with combined systems from Korea's Doosan Infracore and German's RENK.
 K1A1 MBT is upgraded of K1 MBT. While keeping up with the battlefield capability, the weight of the tank has been reduced. Main gun's maximum firing distance is 9km with effective range at 3km. K1A1 is 80% localized and composite armor is mainly localized as well.

2 At DX Korea 2018, visitors can view dynamic demonstration of vehicles including K2 Black Panther tank crushing a car. K2's suspension system is equipped with sensors which can alter its usage based on environment around the tank and can greatly reduce any shock from changes in operational environment.



1 2 Through parts standardization and modulation, Hyundai Rotem's K806 and K808 share 90% of its parts, reducing the maintenance cost. Hyundai Motors supplied the diesel engine, with maximum speed of 100km. K806 is mainly used in rear echelon area for urban warfare, reconnaissance, and base defense, while K808 is mainly for frontline duty with combat and reconnaissance.

3 Hyundai Rotem's K1 AVLB. K1 AVLB is distributed among various Mechanized Divisions and Engineer Corps as Korea's terrain is mainly mountainous and have many natural obstacles. Bridge length is 22m and can be installed in 3~5 minutes and can be retracted in 10 minutes.

4 K21 IFVs crossing the bridge laid by K1 AVLB. Designed by ADD, Doosan DST (Currently Hanwha Defense), and 11 other defense companies, K21 IFV weights 25 tons and can carry 3 crews with 9 passengers. Main armament is 40mm cannon and 7.62 LMG to engage even hostile armor as well as helicopters. It has composite armor to withstand 30mm gunfire and has amphibious capability. K21 has maximum speed of 70km on land and 7km in water.



Hanwha Defense's Biho Hybrid and Chunma. Biho Hybrid is armed with 30mm anti-aircraft gun and Shingung Surface to Air Missile to engage hostile aircrafts at both close and medium range. Shingung can engage low-flying enemy aircraft and helicopters at 7km. Chunma, developed in 1997 as Korea's first guided weapon, has influenced highly on later guided weapons developed in Korea's defense industry.



K9 Self Propelled Gun and K10 Ammunition Carrier. Germany's PzH-2000, considered to be the best Self Propelled Gun in service, only fields 300 units in NATO countries, hence increasing its cost. K9 however, fields over 1,000 units in ROK Army alone, hence reducing the cost and much more cost effective compared to PzH-2000. Hanwha Land Systems is exporting K9 to Turkey, India, Finland, Norway, and Poland. K9 has maximum range of 40km, equipped with rapid fire system to fire 3 rounds in 15 seconds, and 67kph speed. A K10 is assigned per two K9's to assist and resupply. With automated ammunition delivery system, it can resupply K9 with 12 rounds per minute.

Hyundai Rotem's Obstacle Tank which has been approved for service in July 2018. It is specialized for anti-mine operation.

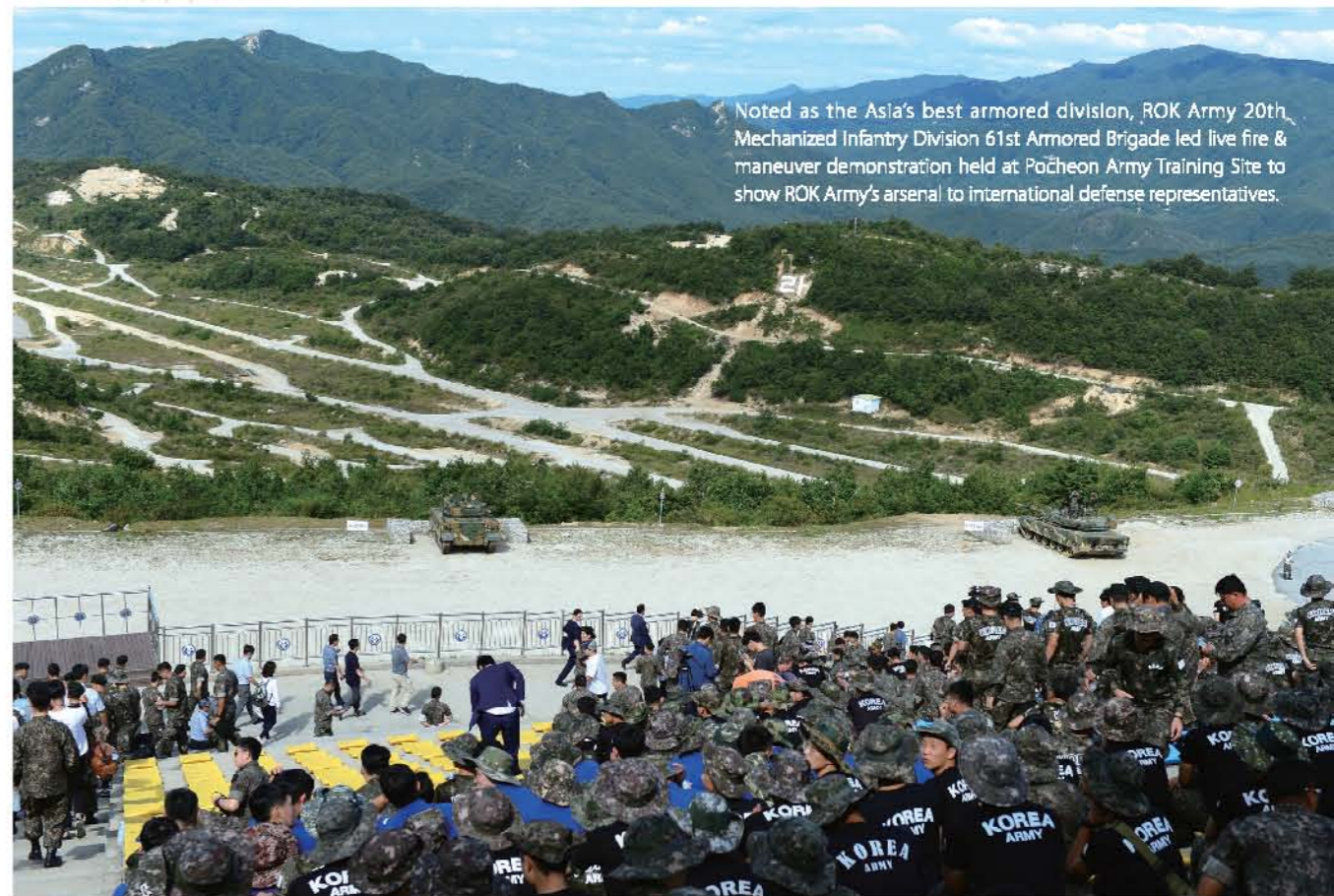


All-terrain BvS10 can transport troops or deliver cargo in any areas and weather conditions. Mountainous and rocky terrain to snow and muddy areas, BvS10 is also amphibious capable and carry up to 5 tons of cargo.



LIG Nex1's Hyungung guided missile installed on Kia Motor's KLTV. Hyungung has fire and forget system to increase shooter's survivability and has very effective armor piercing and firing range distance compared to other guided anti-tank missiles. There are several variations available such as infantry version and mounted versions.

Noted as the Asia's best armored division, ROK Army 20th Mechanized Infantry Division 61st Armored Brigade led live fire & maneuver demonstration held at Pocheon Army Training Site to show ROK Army's arsenal to international defense representatives.



Apache helicopter during live fire & maneuver demonstration.



K2 "Black Panther" Main Battle Tank firing at the target



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