

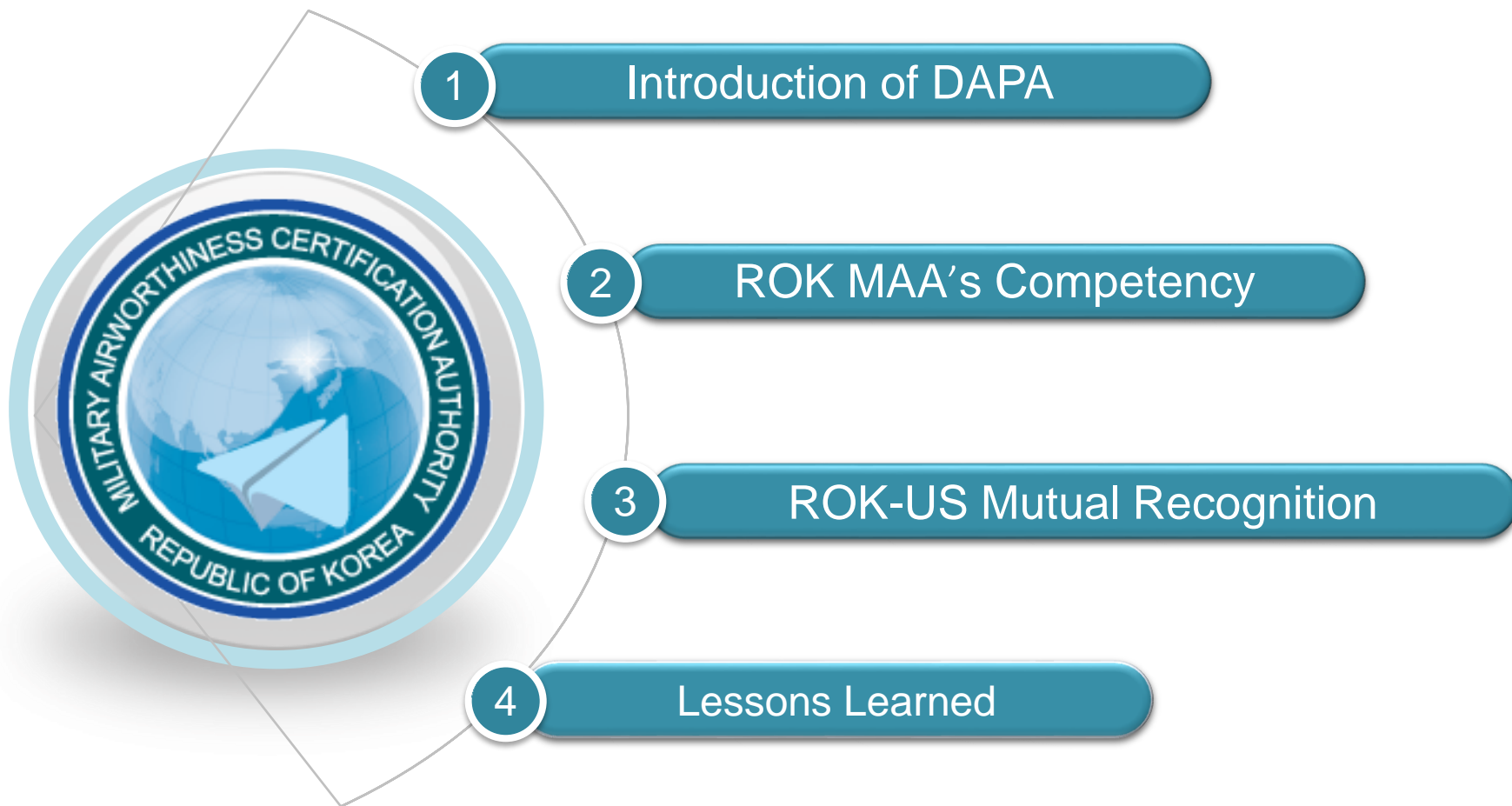


**Mutual Recognition between
ROK-US Airworthiness Authority**

**Military Airworthiness Division
LCDR Cha, Sehoon**



Contents





1

Introduction of DAPA

Introduction of DAPA

* DAPA : Defense Acquisition Program Administration

DAPA was established on January 1, 2006 with a high standard of transparency, efficiency, and professionalism serving as its guiding principles in order to achieve self-reliant national defense.



DAPA manages of the Force Improvement Programs(FIP), procurement of military supplies, and defense industry promotion.

- ✓ Formulation of Defense Acquisition Policies and Implementation Plans
- ✓ Formation and Execution of Annual Budget for FIP
- ✓ R&D Planning & Technology Management
- ✓ Promotion of Defense Industry & International Defense Cooperation
- ✓ Timely Delivery of Military Supplies



Missions & Functions of DAPA

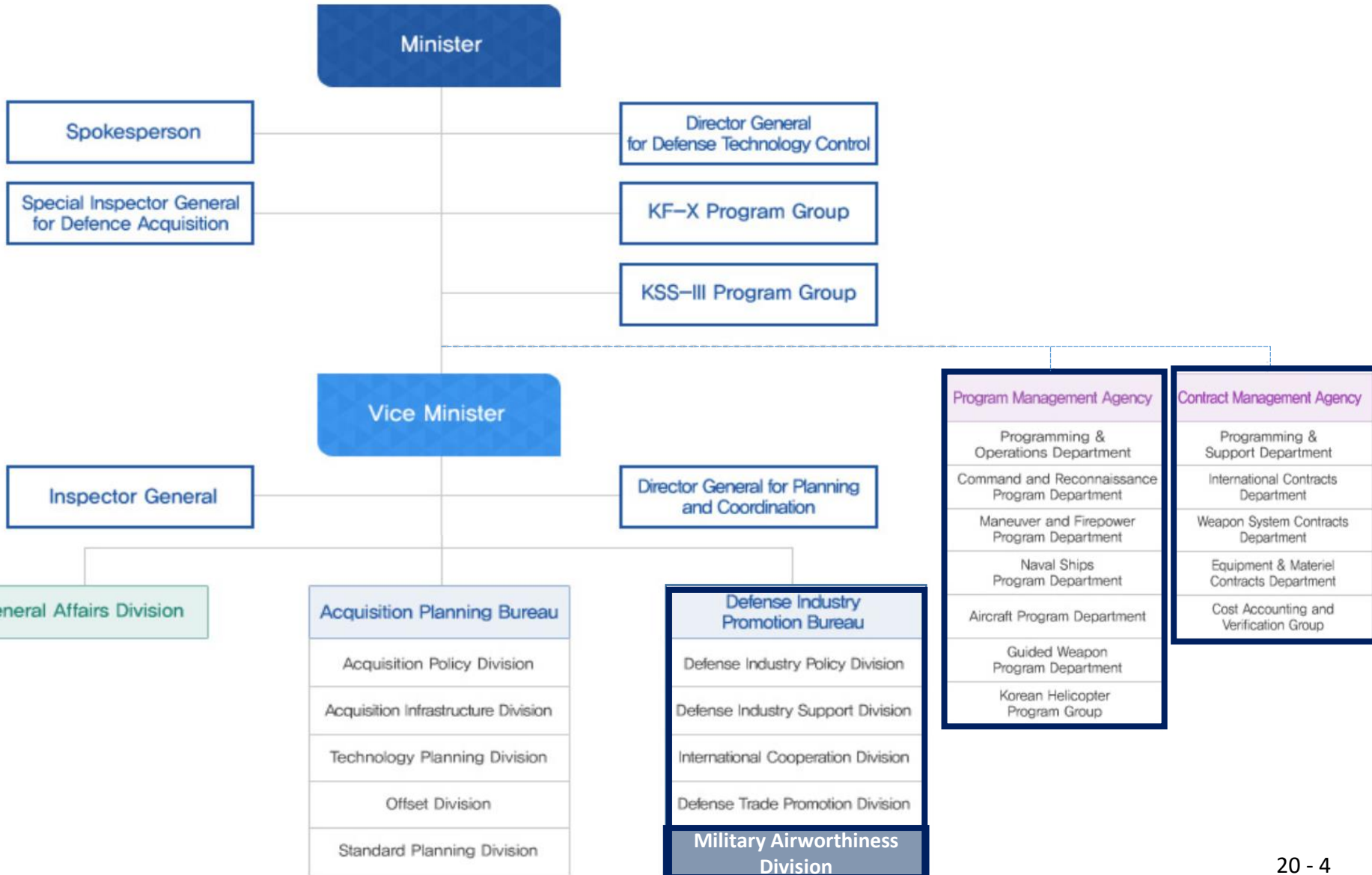
Missions

- Pursuing defense capability improvement programs efficiently
- Procuring defense weapon system meeting requirements in a timely manner
- Nurturing defense industry and strengthening defense competitiveness

Functions

- Establishing acquisition policy and implementing plans
- Establishing mid-term plan and budgeting for integrated program management
- Fostering defense industry and strengthening defense competitiveness through defense science and technology management
- Managing contract and cost and standardization of defense articles

Organization





2

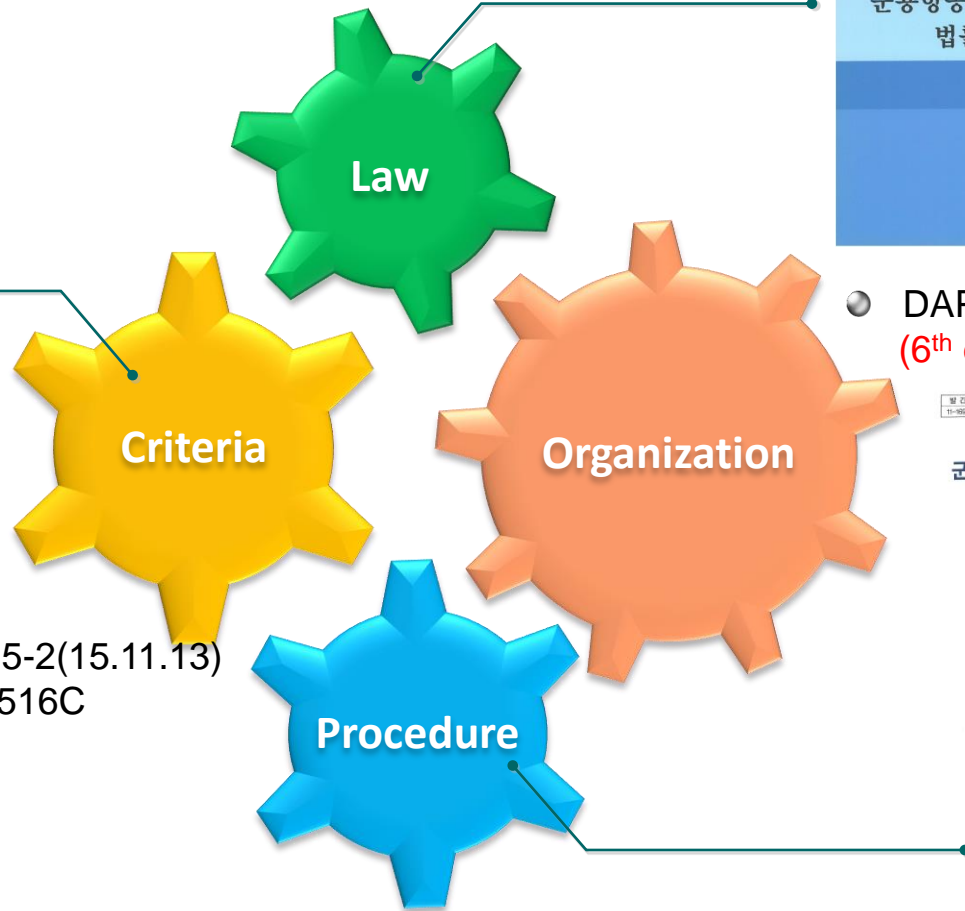
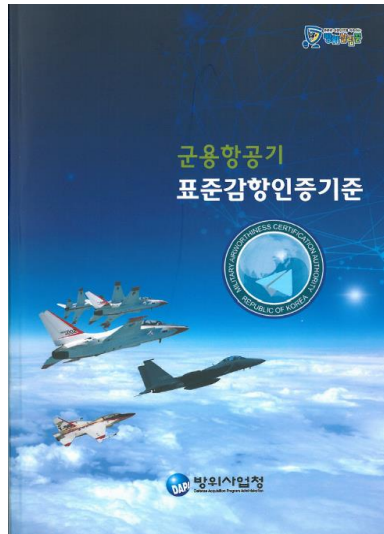
ROK MAA's Competency



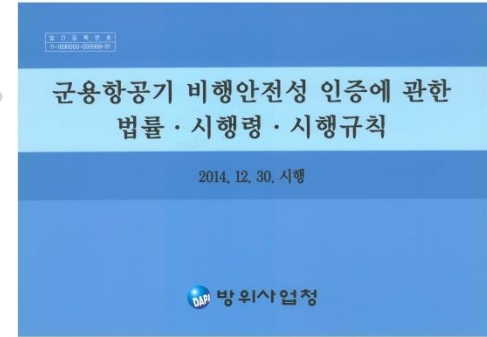
2016 EDA MAWA Conference



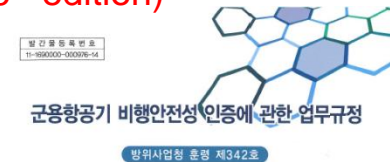
ROK MAA's Competency



- Law-11559(09.8.1)



- DAPA Directive-365('16.8.2) (6th edition)



2015. 10. 6. 개정



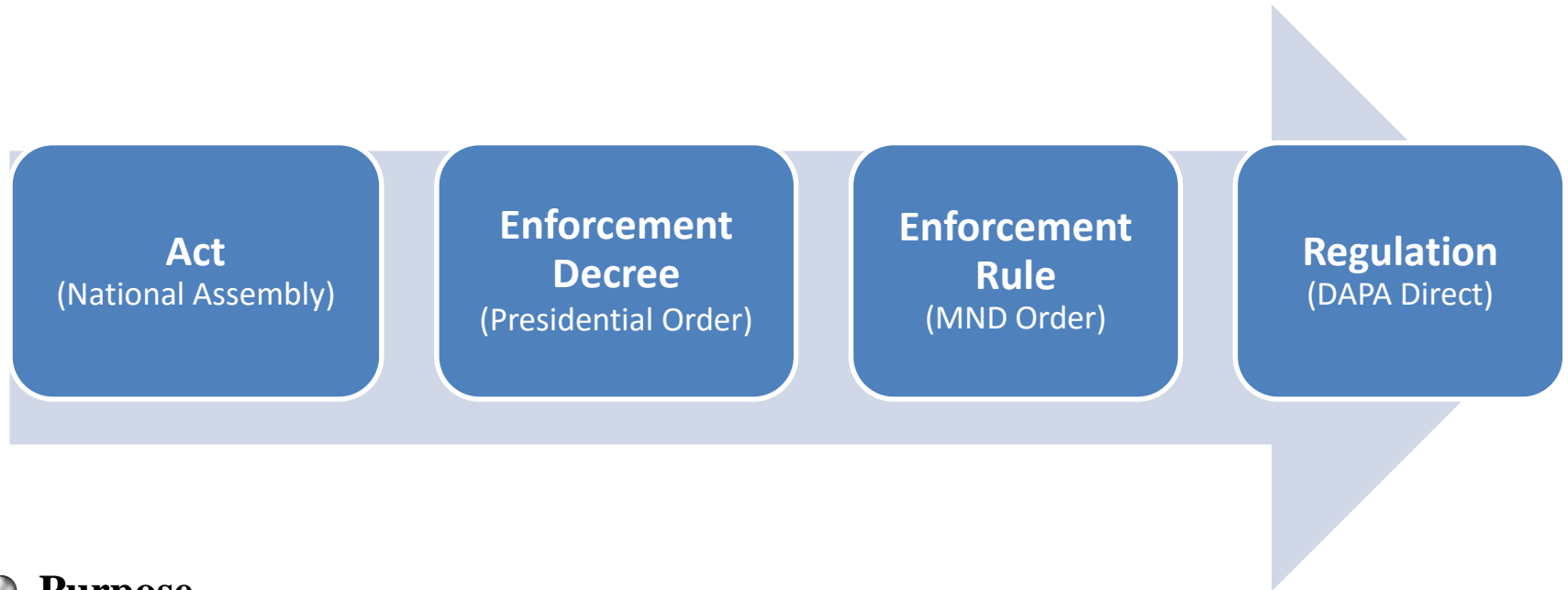
국방부사업장이 발행합니다. (국방부사업장)

- DAPA Notification 2015-2(15.11.13)
- Based on MIL-HDBK-516C (3rd edition)

※(Article 62-2) Recognition of Foreign MAA Procedure



Legal System

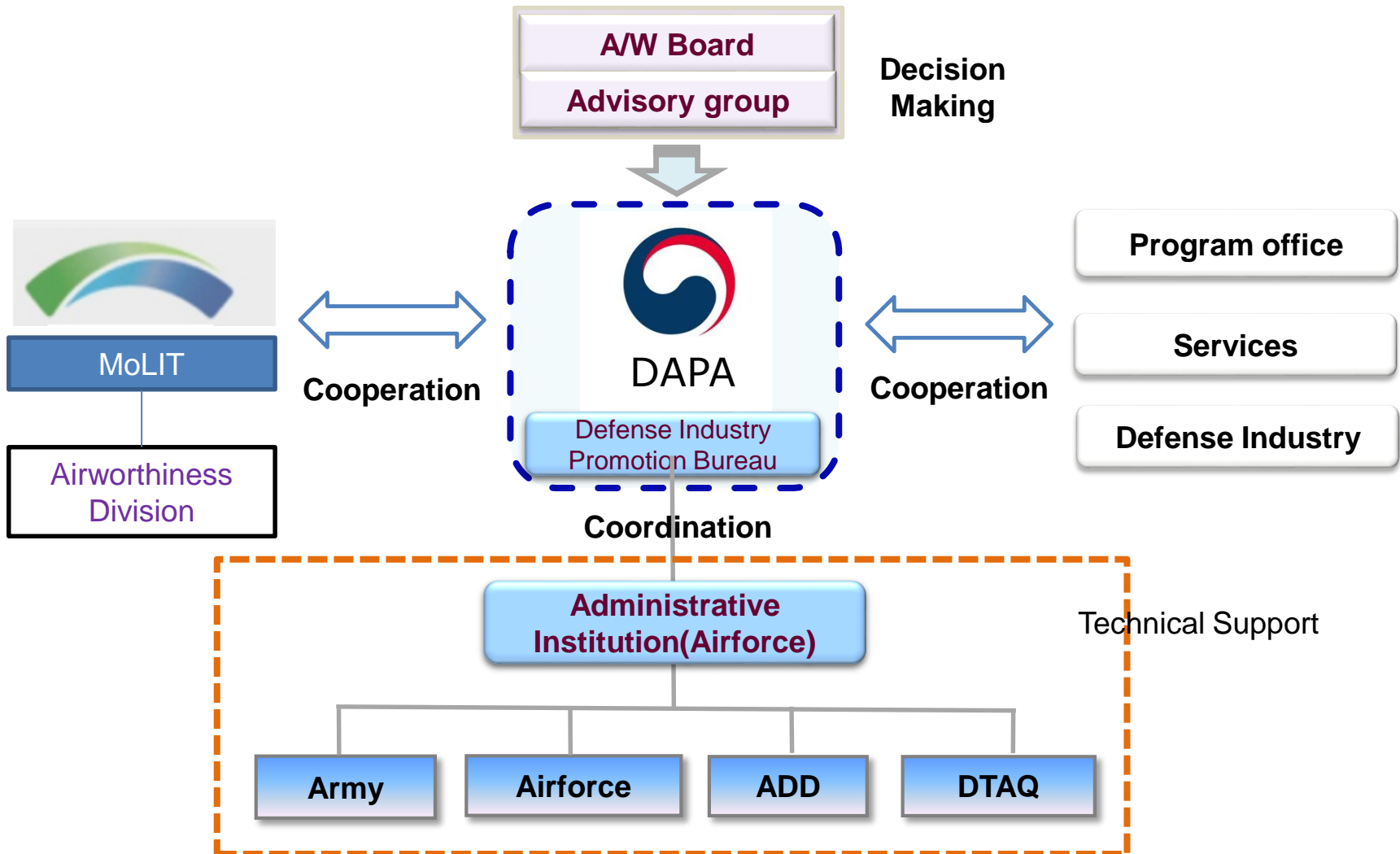


● Purpose

Ensure airworthiness of military aircraft by prescribing matters necessary to **certify** that military aircraft are **capable of operating safely**, and to **contribute to the development of the aviation industry** by supporting the exportation of military aircraft



Organizational Chart





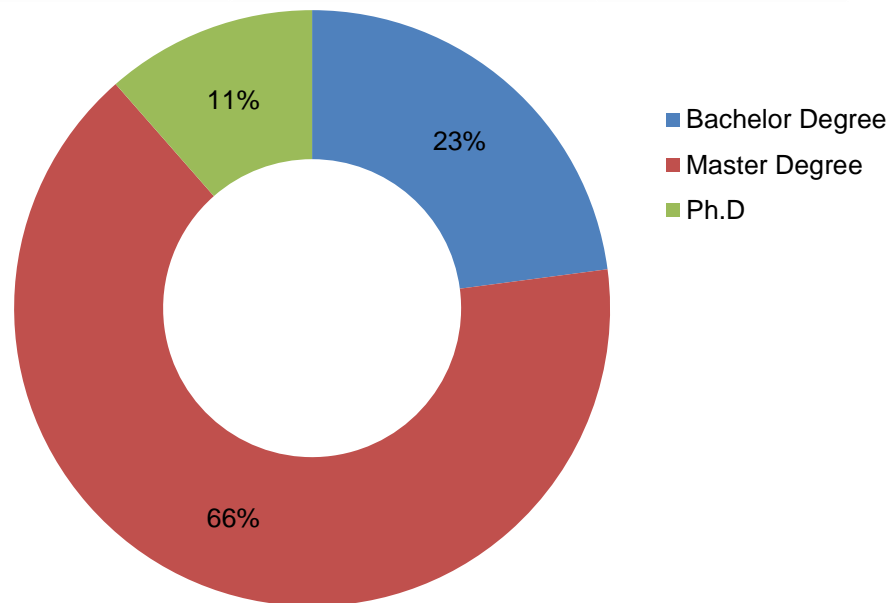
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Man Power

	Number of Experts	Bachelor Degree	Master Degree	Ph.D
Airforce	33	9	23	1
Army	19	11	7	1
ADD	19	0	11	7
DTAQ	25	1	22	2
Total	96	21	63	11

Bachelor Degree	23%
Master Degree	66%
Ph.D	11%



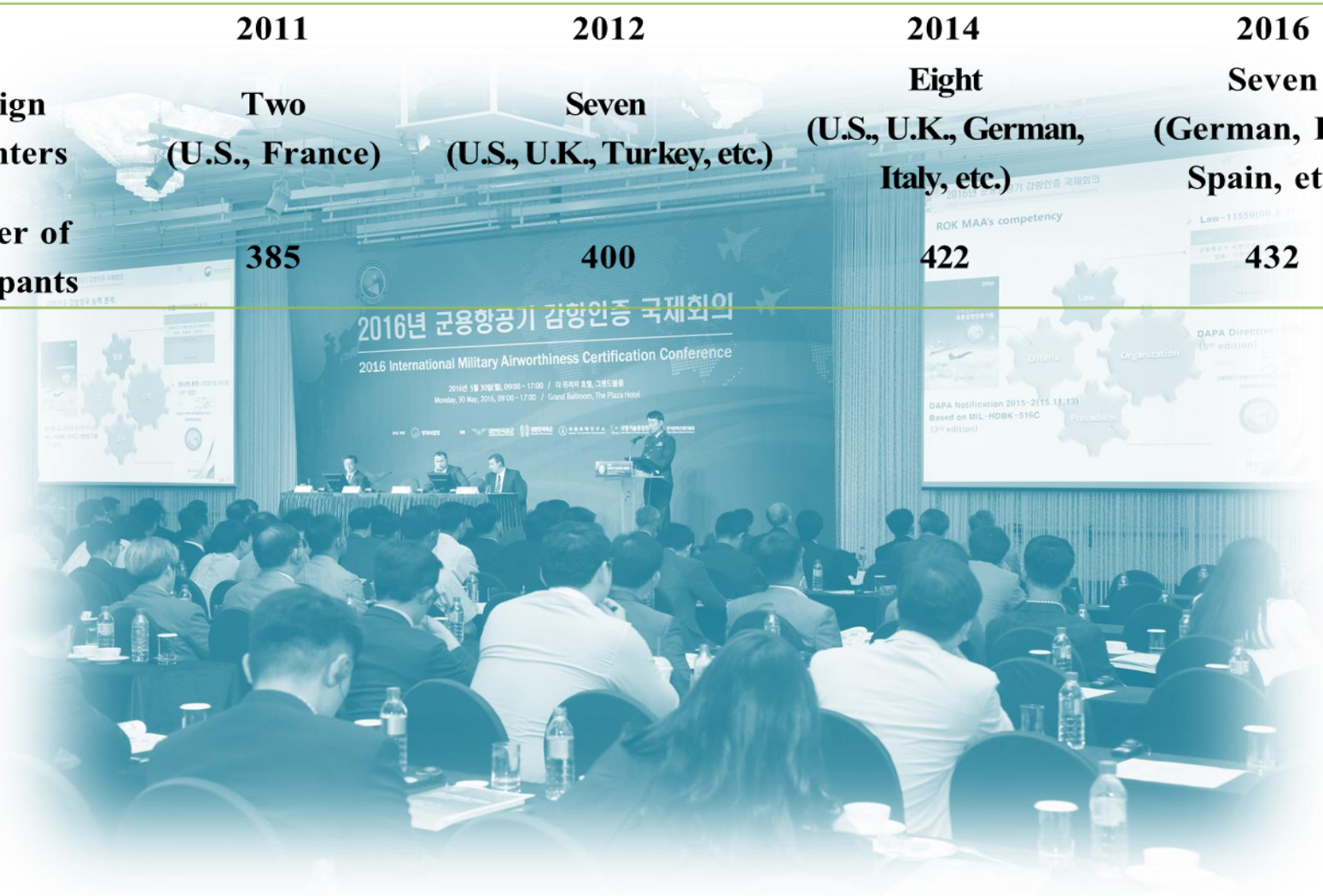


2016 EDA MAWA Conference



Seoul International Military Airworthiness Conference

	2011	2012	2014	2016
Foreign Presenters	Two (U.S., France)	Seven (U.S., U.K., Turkey, etc.)	Eight (U.S., U.K., German, Italy, etc.)	Seven (German, Italy, Spain, etc.)
Number of Participants	385	400	422	432





2016 EDA MAWA Conference



ROK MAA's competency

❖ Type-Certified Aircrafts



3

ROK-US Mutual Recognition



Process of the ROK-US Mutual Recognition

	ROK-US MR Planning	⇒	Organizing Recognition Assessment Team	⇒	Recognition Agreement	⇒	MARQ Responses	⇒	US MARQ Response Review
⇒	Site Visit	⇒	Recognition Assessment Findings Report	⇒	Approval of the Report	⇒	Issuing Recognition Certification		



ROK-US Mutual Recognition Plan

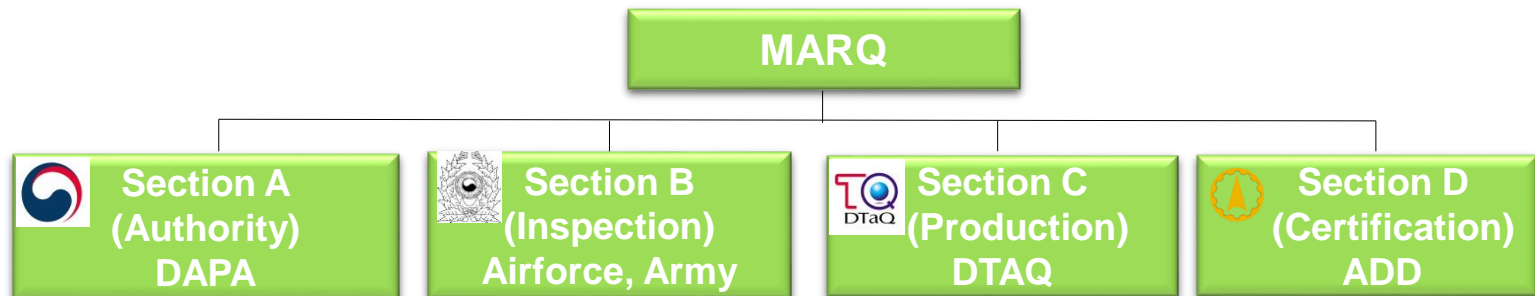
- Signee : (ROK) Airworthiness Division Leader, (US) AED Deputy Director
- Type of Recognition : **Mutual Recognition**
- Scope : Four subsection of MARQ
 - * Subsections : Authority, Inspection, Production, Airworthiness Certification
- Schedule
 - MARQ Review : June ~ July
 - Site Survey : 7.11.(DAPA) / 7.18.(U.S. Airbase)
 - Issuance of Recognition Certificate : 23 of September





Recognition Assessment team

- Recognition Assessment Team
 - Team Leader : Lt. Col. Kim, Keonwan
 - Team members : 9 airworthiness experts
- Tasks



- R.O.K. MARQ responses
- Reviewing U.S. MARQ responses



Recognition Assessment

- Preriod : June ~ July
 - US MARQ response review : June
 - Site Visit : July
 - * DAPA : 7.11.(Mon) ~ 13.(Wed) / U.S. Airbase : 7.19.(Tue) ~ 20.(Wed)
- Recognition Assessment Finding Reports : August ~ September






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Recognition Certificate




대한민국
REPUBLIC OF KOREA
 방위사업청
DEFENSE ACQUISITION
PROGRAM ADMINISTRATION
인정증서
Certificate of Recognition
 (번호 No. 001)

대한민국 '군용항공기 비행안전성 인증에 관한 법률'에 따라, 아래 명시된 조건에
 기초하여 대한민국 군 감항당국은 공식적으로
 Pursuant to the Act on the Airworthiness Certification of Military Aircraft of the
 Republic of Korea and subject to the conditions specified below, the Military
 Airworthiness Authority of the Republic of Korea, formally recognizes the
미국 군 감항당국을
U.S. Military Aviation Authorities
 감항성 검사, 감항인증, 생산감독을 수행하고, 소관하는 모든 항공기 및 예하 조직에
 대한 감항성 확인을 지속적으로 수행할 수 있는 감항당국으로 인정합니다.
 as a competent Military Airworthiness Authority performing airworthiness inspection,
 airworthiness certification, production oversight and continuing airworthiness oversight of
 all aircraft under their airworthiness auspices and of organizations approved under their
 authority supporting these same functions.

인정조건 (Conditions)
 1. 본 인정은 미국 군 감항당국이 군 감항당국 인정 절차서에 명시된 모든 법률과 규정, 절차를
 준수하는 동안만 유효합니다.
 2. This recognition is valid while the U.S. MAAs remains compliant with all current laws,
 regulations, and processes as identified in the Military Authority Requirements Questionset.
 3. 미국 군 감항당국은 첨부된 인정증서에 명시된 조건들을 준수해야 합니다.
 4. The U.S. MAAs will comply with the conditions set forth in the accompanying recognition letter.
 5. 미국 군 감항당국은 지속적인 감항성 감독 및 관리 시스템을 유지해야 합니다.
 6. The U.S. MAA maintains a program of continued surveillance and internal quality monitoring.
 7. 미국 군 감항당국에 대한 본 인정은 본 문서 발급일로부터 4년간 유효합니다.
 8. This recognition of the Republic of Korea MAA is in effect for four years from the date of this memorandum.

발행연월일 (Issue Date) Director General of Defense Industry
 Promotion Bureau
 2016. 9. 26. Major General Oh Won-jin

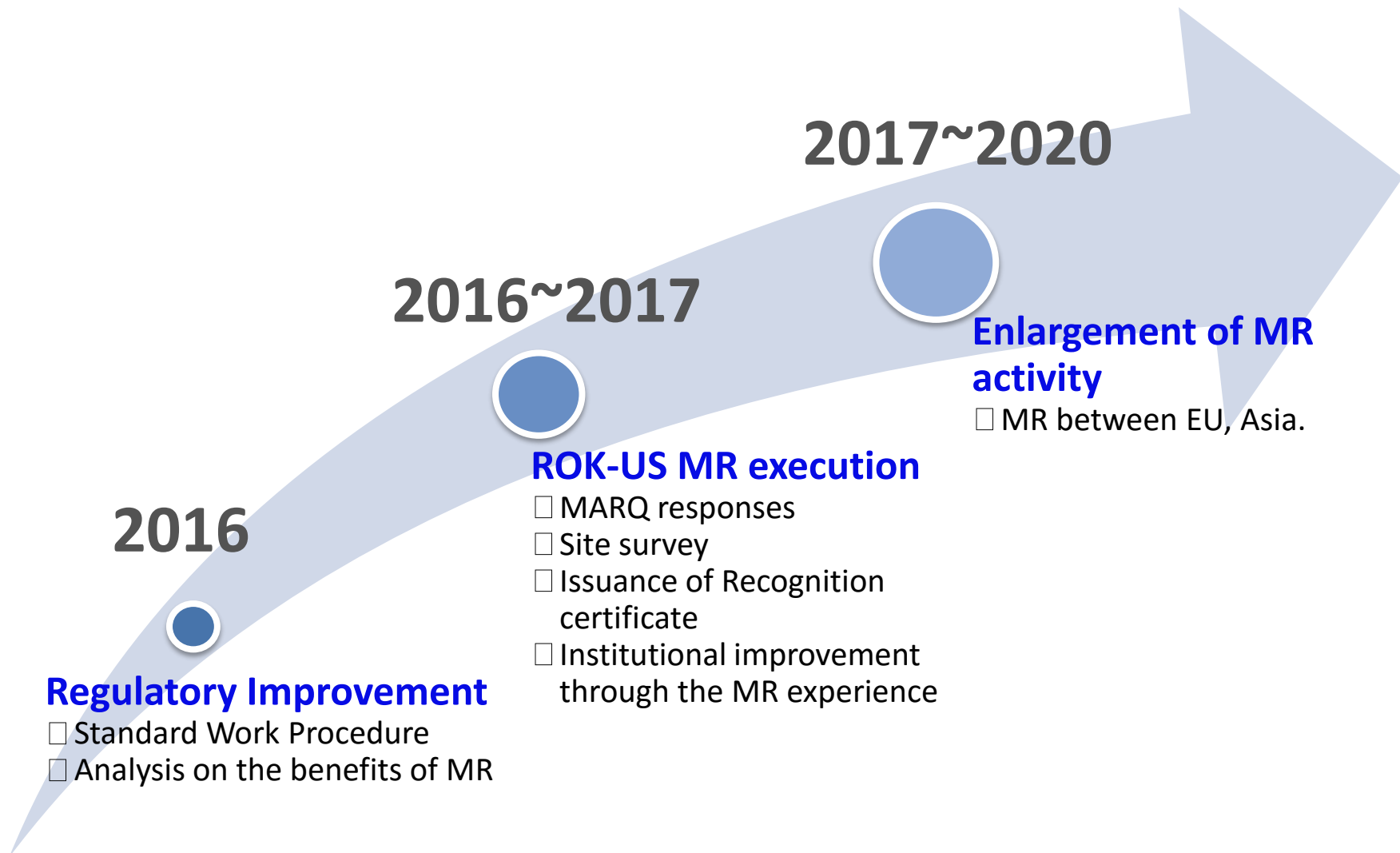

CERTIFICATE OF RECOGNITION
 Reference Number
MAA-NAC-015
 Pursuant to United States Department of Defense policy on recognition of other Airworthiness Authorities
 and of foreign Military Airworthiness Authorities and subject to the conditions specified below, the
 Director of Aviation Engineering, on behalf of the Airworthiness Authorities of the of the United States
 Army, the United States Navy and the United States Air Force, formally recognizes the
Military Aviation Authority of
The Republic of Korea
 as a competent Military Airworthiness Authority (MAA) performing airworthiness inspection,
 airworthiness certification, production oversight and continuing airworthiness oversight of all aircraft
 under their airworthiness auspices and of organizations approved under their authority supporting these
 same functions.

Conditions
 1. This recognition is valid while the Republic of Korea MAA remains compliant with all current laws,
 regulations, and processes as identified in the Military Authority Requirements Questionset.
 2. The Republic of Korea MAA will comply with the conditions set forth in the accompanying recognition
 letter.
 3. The Republic of Korea MAA maintains a program of continued surveillance and internal quality
 monitoring.
 4. This recognition of the Republic of Korea MAA is in effect for four years from the date of this
 memorandum.


JEFFREY L. LANGHOUT, SES
 Director of Aviation Engineering
 US Army
 Date of Issue: 26 September 2016



ROADMAP for Expanding Mutual Recognition





4

Lessons Learned



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- Benefits
 - Opportunity for a **Self assessment**
 - **Learning other systems** for development of my AW systems
 - **Exchange skills and experience**
 - * similar issues and difficulties
 - Enhancing **Cooperation**
 - * building personnel relationships

- Difficulties
 - **Effectiveness** of the recognition certificate ?
 - EMDA-R Process is too **complexed and complicated**
 - Some of the **MARQ questions are hard to answer**
 - * Differences in the AW systems between Civil and Military AW