	Tuesday, June 13th, 2023			
08:00	REGISTRATION & WELCOME			
	PLENARY ROOM			
	OPENING PLENARY SESSION			
09:00	Louis LE PORTZ, 3AF President  Emmanuel DELORME, MBDA - Yannick DEVOUASSOUX, ArianeGroup - Luc DINI, Thales Group, Conference Co-Chairs			
	PLENARY SESSIONS			
	GOVERNMENTS VIEWS 1 - Moderator : Luc DINI			
09:30	General (Armament) Bertrand LE MEUR, French Ministry for Armed Forces, FR			
09:50	Radoslava STEFANOVA, Head, Integrated Air and Missile Defence Section, NATO			
10:10	William R. SHOBERT, Deputy Director for Emerging Security Challenges, US State Dept., USA			
10:30	COFFEE BREAK			
	GOVERNMENTS VIEWS 2 - Moderator : Yannick DEVOUASSOUX			
11:00	Brigadier General Volker SAMANNS, Ground Based Forces, German Airforce, GE			
11:20	Colonel (Res.) Moshe PATEL, Director of Israel Missile Defense Organization, MOD, IL			
11:40	Anthony WRAIGHT, Missile Defence Center, UK			
	GOVERNMENTS VIEWS 3 - Moderator : Emmanuel DELORME			
12:00	Colonel Andrea TRUPPO, Attaché and Italian National Armament Director Representative to EU and EDA PoC, IT			
12:20	Fredéric LAMARQUE, General Delegation for Armaments, FR			
12:40	NETWORKING LUNCH			
	INDUSTRIALS VIEWS 1 - Moderator : Emily Rose HICKEY			
14:30	Dr. Philippe ROUDIER, MBDA, FR			
14:50	Jean-Philippe HARDANGE, VP Strategy, Integrated Airspace Protection Systems, Thales Land and Air Systems (Thales-LAS)			
15:10	Yannick DEVOUASSOUX, Bid and Program Director ArianeGroup, FR			
15:30	COFFEE BREAK			
	INDUSTRIALS VIEWS 2 - Moderator : Emily Rose HICKEY			
16:00	Lars KROGH VAMMEN, Director of Business Development, WEIBEL, DK			
16:20	Brigadier General (Res.) Eytan ESHEL, VP for R&D, Israel Aerospace Industries, II			
16:40	Philippe LE CLÉACH, Vice President Systems of Systems and Collaborative Combat, Naval Group, FR			
17:00	End of Sessions			
19:30	GALA DINNER : PALACIO DA BOLSA			

	Wednesday, June 14th, 2023			
	ROOM 1	ROOM 2	ROOM 3	ROOM 4
	SESSION 1	SESSION 2	SESSION 3	SESSION 4
	Chairperson : E. DELORME, MBDA, FR	Chairperson : Y. DEVOUASSOUX, ArianeGroup, FR	Chairperson : D. ZETZMANN, IABG, DE	Chairperson : L. DINI, Thales Air Systems, FR
	International & European Policy and Cooperation (including NATO, BMD, NATO IAMD, EU and others)	Modelling and simulation - 1	Interceptors & Weapons Systems and Technologies - 1	Sensor systems & Sensor networks, including Space - 1
08:30	21 Lessons learned from the NATO BMD Programme regarding Multi Domain Operations	80 Analysis of Future Defense Architecture and Military Capability through Modelling and Simulation : the example of Ballistic Missile Defense	97 Eurosam contribution in naval systems Eric DELEPOULLE, Eurosam	15 On the Spectrum between Protein Folding and Radar Systems – Confronting Hypersonic Missile challenges
	Laurent SMITH, NATO Communications and Information Agency	Guillaume LEMIERE, French MoD	Elic Belef Golle, Eurosain	Haim AVIRAM, ELTA
08:50	125 Modular GBAD in NATO Claudio PONZI, MBDA Italy	132 Simulation, a strong enabler for assessing & optimizing defense architectures into a multi domain (Space, Air, Land & Sea) context  Fatima IERVOLINO-KAJOUT, Hugo PAUGAM, ArianeGroup	63 ASTER, the European sovereign IAMD Capability Pierre ROTY, MBDA FRANCE	101 Impact of the complex European Terrain on future VSHORAD & C-UAS Radar system designs for the maneuvering forces André HANEWINKEL, Hensoldt Sensors GmbH
09:10	113 The implications of an EU Space Strategy for Security and Defence on European Space Governance Giulia PAVESI, KU Leuven	73  Deterministic air defence simulation systems: Simulation Analysis  Laboratory  Gokhan BIRCAN, Roketsan Inc.	145 Concept Study of a 5 inch Gun Launched Air & Missile Defence Interceptor  Wouter HALSWIJK, TNO	94 The Naval Cooperative Surveillance Capability Aline NAVETTI-CAMPILLO, DGA - Antoine BOUQUET, Naval Group
	Giulia FAVESI, NO Leuveli	GUNIAN BIRCAN, RUNEISAN INC.	Would HALSWIJK, INC	
09:30	66 From a Strategic Perspective: Aerial Defense in the Middle East - New Opportunities	26 Using Semi-empirical models for threat typing during Interception		52 Leonardo Labs advancements in the application of Al to the processing of radar signals and data
	Gil DOLOV, Israel Defense Force	Elie LEVY, Linkcom Telecom		Pasquale FERRARA, Leonardo Spa
		INTERSES	SSION (10')	
	SESSION 5	SESSION 6	SESSION 7	SESSION 8
	Chairperson : R. LEIBOVICH, RAFAEL, IL	Chairperson : S. INSALACO, Leidos, US	Chairperson : C. PONZI, MBDA Italy	Chairperson : L. KROGH VAMMEN, Weibel, DK
	Defence Architectures & Integration of Air and Missile Defence - 1	Modelling and simulation - 2	Interceptors & Weapons Systems and Technologies - 2	Sensor systems & Sensor networks, including Space - 2
	10 System of Systems IAMD Architectures	65 An Overview of Digital Engineering (DE) and How it is Applied to	104 Eurosam and SAMP/T NG : key assets for a European Air Defence	49 Ground Fire, an evolutionary new Multi Function Radar
10:00	•	Integrated Air and Missile Defense (IAMD)	Industrial Base	,
10.00	Michael HAMER, Parsons	Stephen THOMAS, Parsons	Philippe CHOPIN, Eurosam	Nico DE BRUIJN, Thales
	11 Smart Launcher – Providing the future today	41 New challenging approach in training methods	55 Sea Viper – An appropriate response to the emerging threats	144 European demonstration of Plot Level Data and Exchange Fusion
10:20	Eili BEHAR, IAI	Avraham NAVOT, Elbit Systems	Stew KILBY, MBDA	(PLDEF)  Martien JOOSTEN, Thales Netherlands
	118	134	67	37
10:40	Modifying Operations Of Aegis Ashore in Europe	Avoiding traps of shortcut learning when using deep learning techniques in military intelligence and missile early warning	A discussion regarding the importance of an ENDO-EXO defense layer in view of the emerging threat	37 Advanced Multi-Mission Tactical Radars - Game-changing building blocks
10.40	Roy BALACONIS, Balaconis Consulting	Igor GIRARD-CARRABIN, ArianeGroup	Leopold WENGER, IAI	Guy AVITSUR, DRS RADA TECHNOLOGIES
11:00		COFFEE	BREAK	

	Wednesday, June 14th, 2023			
	ROOM 1	ROOM 2	ROOM 3	ROOM 4
	SESSION 9	SESSION 10	SESSION 11	SESSION 12
	Chairperson : A. HERMETZ, WALES, IL	Chairperson : S. INSALACO, Leidos, US	Chairperson : S. THOMAS, Parsons, US	Chairperson : L. KROGH VAMMEN, Weibel, DK
	Defence Architectures & Integration of Air and Missile Defence - 2	Modelling and simulation - 3	Interceptors & Weapons Systems and Technologies - 3	Sensor systems & Sensor networks, including Space - 3
	82 RAFAEL's Open Architecture Concept in an Evolving Air Defense Arena	86 Missile Trajectory Optimization Considerations	20 Requirements for Intercepting a Hypersonic Threat by the Lower Tier	43 Future Sensor System Network and SoS (System of Systems)
11:20	Gal. Shachar SHOHAT, Rafael	Ephraim BASHAN, EZB	Ofri BECKER, WALES, Ltd.	Engineering for IAMD
		<b></b>	J. 1	Vincent ARNOULD, HENSOLDT Sensors GmbH
	35 The Russia-Ukraine IAMD Conflict Laboratory: Lessons for the future	81  Data visualization for complex and multi-layered analysis	152 Thales thoughts on countering Hypersonic Operational Threat	47 Very Long Range Radar (TLP): Overview and Experimentation for Early
11:40	IAMD operational environment	Yoav COHEN, IAI	Nico DE BRUIJN, Thales LAS France, France	Warning
	Todd SCHMIDT, PH.D., U.S. Army			Ronan MOULINET, THALES LAS FRANCE
	9 Determination of Jammer Allocation for Air Defense Systems	70 Performance Analysis of a Close In Weapon System Against Multiple	78 Intercepting hypersonic threat : facts and way-ahead	98 SMART-L MM, Diagnostics (Built-In Test)
12:00	Yarkin SARGIN, Aselsan Inc.	Threats Using Partially Observable Markov Decision Processes.	Emmanuel DELORME, MBDA France	Gilles PREMEL-CABIC, THALES NERDERLAND BV
	randin oracons, risologii illo.	Tom VANCAEYZEELE, Belgian Royal Military Academy	Elimando Belovine, indovidio	Omoo I Remee Grafo, Invieed Rendering By
	136 Countering Advanced Threats with Advanced Integration	111 Challenges in expanding Defended Area Analyses from Ballistic	51 User Friendly Gripstock Design for a MANPAD	122 Classifying UAS with FMCW Doppler technology
12:20	Matthew FULCHINO, Raytheon	Missiles to Hypersonic Threats	Tuba KAYA, Roketsan Inc.	Jose NAVARRO, Weibel Norway AS
	matalew i Ozorinto, naytheon	Daniel PAUKNER, IABG mbH	Tasa IVATA, Noncisull'illo.	Cose NAVANICO, Neiser Normay Ac
12:40	NETWORKING LUNCH			
		PLENAR	RY ROOM	
14:00	PLENARY SESSION - KEYNOTE SPEECH  Lt. Gen. Henry "Trey" OBERING			
	INTERSESSION (10')			

	Wednesday, June 14th, 2023			
	ROOM 1	ROOM 2	ROOM 3	ROOM 4
	SESSION 13	SESSION 14	SESSION 15	SESSION 16
	Chairperson: Y. DEVOUASSOUX, ArianeGroup, FR	Chairperson : E. LEVY, Linkcom Telecom Ltd, II	Chairperson : C. PONZI, MBDA Italy	Chairperson : S. LAMMENS, Thales, NL
	Defence Architectures & Integration of Air and Missile Defence - 3	Modelling and simulation - 4	Interceptors & Weapons Systems and Technologies - 4	Sensor systems & Sensor networks, including Space - 4
14:40	17 Hypersonic Weapons – The View of Terminal Defenses Dror COHEN, WALES, Ltd.	53 Study and optimization of hypersonic intakes for airflows in chemical and thermodynamic equilibrium applied to hypersonic missiles propulsion  Laurine HILLION, Hybrid Propulsion for Space	74 Trajectory Optimization of an Air Defense Missile System with Model Predictive Control  Rüştü Berk GEZER, Roketsan Inc.	107 Improved tracking accuracy through multi-platform triangulation of radars Doppler information for engagement Frederic LIVERNET, DGA - Antoine BOUQUET, Naval Group
15:00	117 Next Generation Air And Missile Defense System Architecture - Providing Solutions For All Missions Dincer OZCAN, ASELSAN	19 Scramjet Vehicle Optimal Trajectories Joseph BEN-ASHER, WALES, Ltd.	68 Adaptive Attitude Controller Design for a High-altitude Interceptor with Divert and Attitude Thrusters under Input Constraint  Yongwoo LEE, Agency for Defense Development	130 Increasing survivability by augmenting active radar with passive sensors Michael RUPPEL, Hensoldt Sensors
15:20	148 Weapons Systems networking Luc DINI, Thales, Metin BUGRU, NATO	75 Aerodynamic loads of thermo-chemical nonequilibrium hypersonic flow around a generic HGV Dominik JAMES, Universität der Bundeswehr München	99 SAMP/T NG System right choices to contribute to European & Allies Defense Alain DEUDON, Eurosam	138 The Space Domain Awareness mission of the SMART-L MM Erwin VAN DER POEL, Thales Nederland B.V.
15:40	133 Space based Intelligence for Ballistic Missiles Defence Younik THOMAS, ArianeGroup	112 Aerodynamic-Shadow Improved Aerodynamics Computations of Hypersonic Vehicles  Jannis BONIN, IABG	120 IRIS-T SLM/X - Medium-Extended Range Air Defence tailored to Your Mission Arne NOLTE, Diehl Defence	
16:00		COFFEE	BREAK	
	<u>SESSION 17</u> Chairperson : T. DRUCE, LMCO, US	<u>SESSION 18</u> Chairperson : L. DINI, Thales Air Systems, FR	<u>SESSION 19</u> Chairperson : S. THOMAS, Parsons, US	<u>SESSION 20</u> Chairperson : S. LAMMENS, Thales, NL
	Defence Architectures & Integration of Air and Missile Defence - 4	Modelling and simulation - 5	Interceptors & Weapons Systems and Technologies - 5	Sensor systems & Sensor networks, including Space - 5
16:30	18 Debris – The Great Unifier Ayala GUR, WALES, Ltd.	96 A Numerical Simulation of Radar-Plasma-Signatures of the RAM C-II Re-entry Flight Experiment René PETERVARI, Fraunhofer FHR	45 Numerical and experimental study on the solid propellant ignition at high- altitude condition  Doo-Hee HAN, Agency for Defense Development	128 IR Signature Model for Space-Based Observation of Hypersonic Glide Vehicles Sebastian STABROTH, Airbus Defence and Space GmbH
16:50	123 Reflections on a Territorial Missile Defence Architecture for Europe Georg BAHMEIER, AMDC GmbH	58 SALTO – Space Early Warning simulator for analysis and operations Stephane URIEN, Airbus DS	64 Propulsion Technology Survey – Optimizing Air & Missile Defense Interceptors Doyle LAHTI, Aerojet Rocketdyne	127 The study of a European space-based missile early warning system: ODIN'S EYE Michele BONERBA, OHB System AG
17:10	79 The Benefits of centralized Multi-Tier Missile Defense Alon KAHANA, IAI		102 Coupled solid Divert and Attitude Control Systems with extensive maneuverability  Pascal CAUBET, Philippe SAUNOIS, ArianeGroup	146 Operational Viewpoint of New Multifunctional Radar System Ramazan ÇETINER, ASELSAN
17:30		INTERSES	SSION (10')	

	Wednesday, June 14th, 2023				
	ROOM 1	ROOM 2	ROOM 3	ROOM 4	
	SESSION 21	SESSION 22	SESSION 23	SESSION 24	
	Chairperson : D. ZETZMANN, IABG, DE	Chairperson : N. GIACOMETTI, NATO, BE	Chairperson : P. LE CLÉACH, Naval Group, FR	Chairperson : Y. THOMAS, ArianeGroup, FR	
	Defence Architectures & Integration of Air and Missile Defence - 5	CRAM, Counter UAV, GBAD & NBAD - 1	Command and Control - C2, combat cloud - 1	Lethality / Testing, Targets & Demonstration Programs - 1	
17:40	16 The Impact of Missiles Sophistication Alik HERMETZ, WALES, Ltd.	116 Skyranger 30 – the C-UAS Solution Reto MAURER, Rheinmetall Air Defence AG	135 Consistent C2 system architecture for all layer air & missile defence Gerd BROSZEIT, Airbus Defence and Space GmbH	23 NATO BMD and IAMD Capability Development in coordination with national exercises  Joe MAGGS, NCI Agency	
18:00	90 Interoperability, System of Systems and architectures vs. the speed of relevance in procurement: opposing trends?  Gunter EMRICH, IABG mbH		56 Technical advancements to meet the demands of a Future Air Defence System Sophie EVANS, MBDA	25 Back to the future with ATBM kill mechanism Elie LEVY, Linkcom Telecom	
18:20	151 Operational Effectiveness Considerations in Employing Defence Architectures Tyler DRUCE, Lockheed Martin			62 Development of a Flexible-Use Hypersonic Test Platform Using Sounding Rocket Delivery Vehicles Braeden CALLIS, Kratos Defense & Security Solutions	
18:40	End of Sessions				

	Thursday, June 15th, 2023			
08:30	PLENARY SESSION - KEYNOTE SPEECH Dr. Olivier ZAJEC, Université de Lyon (FR)			
09:00		INTERSES	SSION (10')	
	ROOM 1	ROOM 2	ROOM 3	ROOM 4
	SESSION 25	SESSION 26	SESSION 27	SESSION 28
	Chairperson : N. GIACOMETTI, NATO, BE	Chairperson : A. KAHANA, IAI, IL	Chairperson : J. VAN HOOF, TNO, NL	Chairperson : D. ZETZMANN, IABG, DE
	Testing, Targets & Demonstration Programs - 2	CRAM, Counter UAV, GBAD & NBAD - 2	Command and Control - C2, combat cloud - 2	Directed Energy Weapons
09:10	95 The COI tool HEAT and Aspects of Consequences on LEO satellites	40 The Changing Face of War - Nagorno-Karabakh, Ukraine and On	34 Multi-Layered GBAD Mission Optimization System	57 High-Energy Lasers Against Drone Threats
	Martin GLENDE, tms mbH	Azriel LORBER, RTG	Fredi TZIMET, Omnisys	Maximilian TAILLANDIER, MBDA
09:30	50 Formidable Shield 2023 - A Dutch perspective	54 Counter UAS – An effector approach for modern battlefield scenarios	88 An Industry Perspective on IMLAMD - Integrated Multi-Layer Air and Missile Defense System	85 Ultrashort Pulse Lasers to counter Hypersonic Weapons
	Rogier NOORLAND, Thales Nederland B.V.	Andreas HEINEMANN, MBDA	Claudio PONZI, MBDA Italy	Francisco Javier CRUZ HERNÁNDEZ, Tecnobit - Grupo Oesía
09:50	27 NATO Missile firing installation	119 German inner layer air defence programme NNbS – from industries perspective	106 Dynamic Target Weapon Assignment and Scheduling Solution for Air Missile Defence Systems: A Multi – Objective Linear Programming Approach	72 The Requirement Management with Model Based Systems Engineering Approach in Directed Energy Weapon Systems
	Stylianos RODOUSAKIS, NATO Missile Firing Installation	Bernhard MOELLMANN, Hensoldt Sensors GmbH	Göksu UZUNTÜRK, ASELSAN	Fehmiye YILDIZ, ROKETSAN INC.
10:10		131 PARADE C-UAS system, initiating a new generation	121 Collaborative engagement against air and missiles threat	24 Experimental Investigation of Correlation between Ground-Based Atmospheric Turbulence Strength (Cn2) and Meteorological Parameters during Winter Season
		Philippe JUGE, Thales LAS France	Luc DINI, Thales LAS France	Cafer BAYAR, Roketsan
10:30		COFFEE	BREAK	
$\perp$	ROOM 1	ROOM 2	ROOM 3	
	SESSION 29	SESSION 30	SESSION 31	
	Chairperson : E. LEVY, Linkcom Telecom Ltd, II	Chairperson : A. KAHANA, IAI, IL	Chairperson : Y. THOMAS, ArianeGroup, FR	
	Disruptive Approaches	CRAM, Counter UAV, GBAD & NBAD - 3	Command and Control - C2, combat cloud - 3	
11:00	46 Advanced Grid Structure for Missiles with Embedded Fiber Optic Sensing Capability	61 NIAG SG265 SBAMD Study Review	147 Anti-Air Warfare Naval Collaborative Engagement – Beyond Force Threat Evaluation & Weapons Assignment	
	Ilan WEISSBERG, IAI (Israel Aerospace Industries)	Jacques BLANQUART, MBDA France	Renaud BARATTE, Naval Group	
11:20	103 Open-air hardware in the loop simulation by robosim	69 C-UAS ONERA Researches	48 Mastering complexity of the IAMD Command and Control through an augmented all-domain Decision-making process	
	Hakan AKGUN, Aselsan	Laurent BARRILLIET, ONERA	Gilles DESCLAUX, THALES	
11:40		76 Facing new low cost threats: a way to address this challenge Badri BADREDDINE, MBDA	84 Distributed Architecture and Technologies for Air Defense Combat Cloud Alfredo VERNUCCI, MBDA Italy	
12:00		NETWORK	ING LUNCH	

	Thursday, June 15th, 2023		
	PLENARY ROOM		
	SESSION 32		
	PLENARY SESSION : ROUNDTABLE  Moderator: Uzi RUBIN, Begin Sadat Center for Strategic Studies, IL		
13:20	124 Examination of a RUS ICBM in the Context of Missile Defence		
	Markus SCHILLER, AMDC GmbH		
13:40	143 ALBMs; history, current programmes and challenges to IAMD architectures Pierre GRASSER, Thales LAS France, Yannick JAMOT, Ariane Group		
14:00	Threat Suppression in Support of Integrated Air and Missile Defense		
	Herbert KEMP, OneALPHA Corporation		
14:20	7 The DPRK's January 2022 "hypersonic" missile tests, an open-source analysis		
	Ralph SAVELSBERG, Netherlands Ministry of Defence		
14:40	60 Maritime Supremacy and Anti-ship Threat		
	Arthur DAIRE, MBDA		
	12		
15:00	The Need for Comprehensive Cruise Missile Defense		
	Uzi RUBIN, BSCSS		
15:20	CLOSING ADDRESS - Conference Co-Chairs  Emmanuel DELORME, MBDA - Yannick DEVOUASSOUX, ArianeGroup - Luc DINI, Thales Group		
15:30	End of IAMD 2023		
10.00	Elia of Initial Edeo		