

# ACARE IT GdL Difesa



**ACARE Italia**



## SRIA It - La realizzazione



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**Strategic Research and Innovation Agenda - Volume 2**

**Challenge 4: Ensuring safety and security**

Cluster of Enablers	Enabler	Capability	Sub-Capability	R&I-Needs	Domain	Achievements 2020	Innovative AC	Integrated design tools for complex systems	Innovative Materials	Advanced manufacturing	Avionics and equipment	Autonomous flight	Technology for Greening	Innovative systems for ATM and Airports	Safety & Security	NOTE
		Safety framework that ensures equity in access to airspace by all air vehicles. E.g. UAS, LTA		Definition of requirements of the different air vehicle types with respect to air space needs, definition of a fixed standard minimum guidance level for airspace and airport access (landing, take-off, taxi)	Knowledge	First set of regulations covering the use of UAV in military and civil airspace; Safely integrated UAS in civil airspace	M				M	H		M	M	DUAL: Special Operations and RPAS missions insertion
				Development of concepts and technologies to support airspace management allowing autonomous and decentralized operations	Technology		H				H	H		H	M	Selex ES: maintain alignment with SESAR DUAL: Special Operations and RPAS missions insertion
				Identification of legal requirements regarding responsibilities, liabilities, claims, etc. against damages caused from non-commercial aviation applications	Others							H		H	M	DUAL: Special Operations and RPAS missions insertion
		An understanding of human and organisational performance and how to induce a positive corporate safety culture at all levels across the air transport system		Development and implementation of an ATS-wide safety incident reporting system	Policy	Further development of training programs, extension to relevant system areas that are not yet incorporated; step by step implementation of a just culture approach across all sectors of aviation;	M	M	M	M				M	H	
				Understanding of how safety has to adapt and develop in order to reflect the shift towards a more interconnected environment	Knowledge	There is general awareness of the effects on safety of workplace culture; Best practices from across the transport industry are										

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PRONTO CONTEGGIO: 15

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Von Beckh, Cristina

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ing Societal and Market Needs

Enabler	Capability	Sub-Capability	R&I-Needs	Domain	Achievements 2020	Innovative A/C	Integrated design tools for new systems	Innovative Materials	Advanced manufacturing	Avionics and equipment	Autonomous flight	Technology for Greening	Innovative systems for ATIS and Airports	Safety & Security	NOTE
Performance based navigation and surveillance information platform is available throughout the whole air transportation network meeting the needs of future operations	New navigation technology enabling flexible and sustainable operations for all enroute and terminal applications (incl. approach & landing guidance)	New technology architecture and implementation concept	Concepts	New navigation technology enabling flexible and sustainable operations has been developed	Concepts	H	H	H	H	H	H	H	H	H	DUAL: Weather radar, medium-range radar, Laser systems for wind speed monitoring and turbulence calculation, Laser Gyro technology, Anti-collision Electrooptical Platforms for rotary-wing aircraft, for operation in DVE conditions (Degraded Visual Environment), Protected navigation-system receivers against jamming/spoofing
		Develop new navigation technology enabling flexible and sustainable operations for all enroute and terminal applications (incl. approach & landing guidance)	Technology	Cat I procedure can be defined on any runway, with the appropriate ground lighting	Technology	H	H	H	H	H	H				
		Global Navigation liability issues is solved	Technology	All weather Cat III is available with e.g. GBAS	Technology	H	H	H	H	H					
	Development and operational implementation, alternative to GNSS, as sole means of navigation	Technology	Counter measures foreseen against jamming, spoofing and other security threats (WG 4)	Technology	H	H	H	H	H	H	H	H	H	H	
	New sensor technologies to enable all weather operations and atmospheric hazard avoidance	Develop operation concept for use	Concepts	Concepts	New sensor technologies to enable all weather operations and atmospheric hazard avoidance	Technology	H	H	H	H	H	H	H	H	
New operational procedures and technical surveillance system(s)	n/a	Develop operational concept based on integration of different surveillance technologies	Concepts	Suitable surveillance for UAS and other automated operations monitoring and security	Concepts	H	H	H	H	H	H	H	H		
														Develop new technology for continued monitoring of accurate air vehicle position information (incl. UAVs) for surveillance applications and in particular search and rescue	Technology

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PRONTO

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**RPAS** - Aree correlate alle innovazioni fondamentali di mezzi ed impiego operativo come i RPAS (velivoli a pilotaggio remoto) in tutti i loro aspetti: operativi di missione, tecnologici di volo autonomo, di inserzione nel traffico aereo, di policy, di certificazione, ecc

**Special Operations** – sistemi e sensori specifici (es. sensori per situation awareness, movement monitoring, ecc.) per operazioni delle missioni tipicamente non transport (o special operations) quali la sorveglianza, il Search and Rescue ed il pattugliamento marittimo

**Cyber Security** - Aree collegate specificamente agli aspetti di safety e security quali la cyber defense sia nel segmento velivolo che per le relative infrastrutture, contro gli attacchi di rete e di spettro (nel wireless, anti-Jamming, anti-spoofing e altre minacce alla navigazione e alle funzioni critiche), la advanced data protection e data fusion, ecc.

**Secured Data Link - HMI - M&S** - aree trasversali tecnologiche per aeronautica e trasporto aereo comprendenti data-link a larga banda, interfaccia uomo-macchina, modellazione e simulazione, ecc