

Fourth SESAR Innovation Days

25th - 27th November 2014

Madrid, Spain

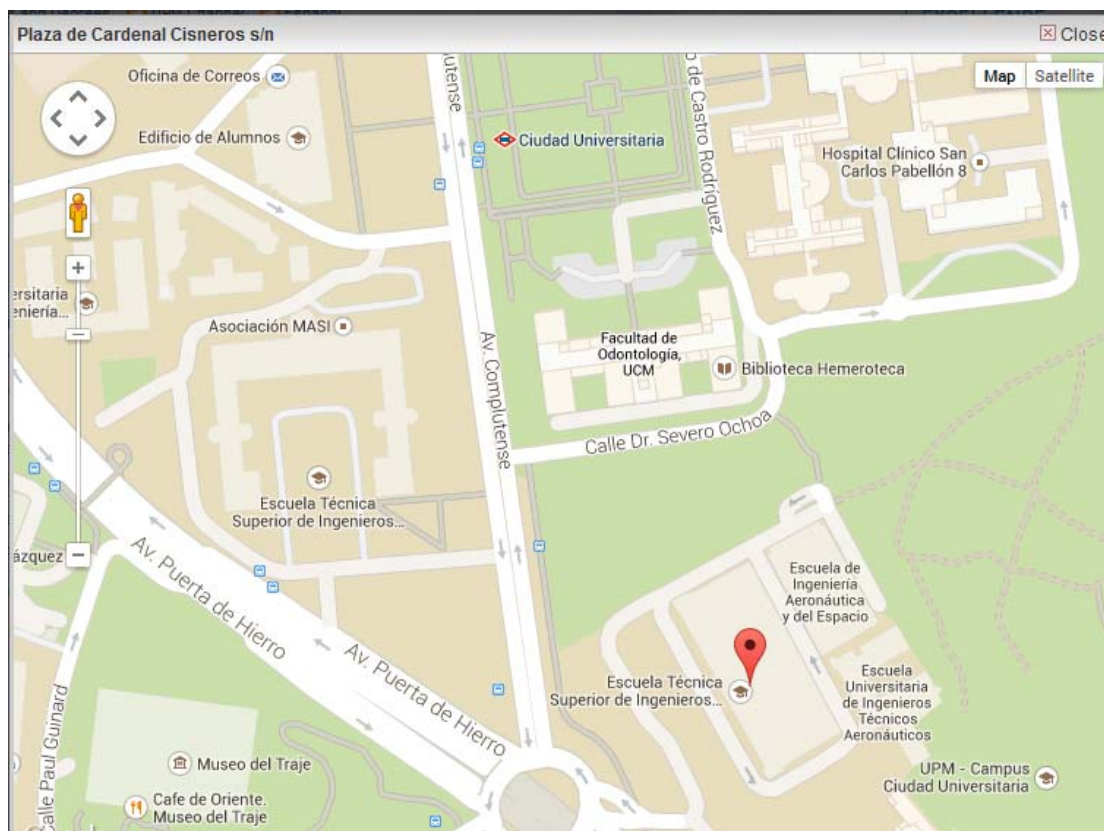
The SIDs are hosted by Universidad Politécnica de Madrid

Address: School of Aeronautical and Aerospace Engineering

Plaza del Cardenal Cisneros n° 3, CP 28040 Madrid, Spain

<http://www.aero.upm.es/>

Metro: Ciudad Universitaria (L6), Moncloa (L6,L3) - Autobus: 82,83,113,132,G



Draft Programme

Day 0: 24th November 2014

14:00 – 18:00

Workshop: “State-of-art in the Context of ATM Resilience”
organized by Innaxis and FP7 project “Resilience 2050”
followed by a free social event

Please register via <http://resilience2050.innaxis.org/event-registration-2/>

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Day 1: 25th November 2014

9:00 – 10:30	Registration, Welcome Coffee	
10:30 – 11:30	<p>Welcome and Opening</p> <p>Carmen Librero - Secretary of Transport, Spanish Ministry of Transport (tbc)</p> <p>Carlos Conde – Rector of UPM (tbc)</p> <p>Ignacio González – Director of Air Navigation ENAIRE</p>	
11:30 – 12:15	<p>Keynote 1</p> <p>Florian Guillermet</p> <p>Executive Director, SESAR Joint Undertaking</p>	
12:15 – 12:30	Latest news from SESAR	
12:30 – 14:00	Lunch	
14:00 – 16:15	<p>Complexity and Data Science* <i>Session chair: Gokhan Inalhan, Istanbul Technical University</i></p> <p>Enabling the Aviation CO2 Allowance Trading Through Secure Market Mechanisms ^{WP-E} <i>Massimiliano Zanin, Innaxis</i></p> <p>Trees of Reactionary Delay: Addressing the Dynamical Robustness of the US Air Transportation Network <i>Pablo Fleurquin, IFISC</i></p> <p>Modelling Reactionary Delays in the European Air Transport Network ^{WP-E} <i>Bruno Campanelli, IFISC</i></p> <p>A Data-Driven Model of Air Traffic Control ^{WP-E} <i>Bernardo Monechi, Sapienza University of Rome</i></p>	<p>Meteorology* <i>Session chair: Damian Rivas, University of Seville</i></p> <p>Sensitivity of Flight Durations to Uncertainties in Numerical Weather Predictions ^{WP-E} <i>Jacob Cheung, UK Met Office</i></p> <p>Dynamic Route Optimization based on Adverse Weather Data <i>Christina Schilke, TU Braunschweig</i></p> <p>Uncertainty Analysis of Thunderstorm Nowcasts for Utilization in Aircraft Routing ^{WP-E} <i>Manuela Sauer, University of Hannover</i></p> <p>Case Study of Adverse Weather Avoidance Modelling <i>Patrick Hupe, University of Hannover</i></p>
16:15 – 16:45	Coffee	
16:45 – 18:30	<p>RPAS and Technical Enablers* <i>Session chair: Dirk Kügler, DLR</i></p> <p>Real-time Simulations to Evaluate the RPAS Integration in Shared Airspace ^{WP-E} <i>Enric Pastor, Polytechnic University of Catalonia</i></p> <p>RPAS Integration in Non-segregated Airspace: the SESAR approach <i>Ricardo Román, Polytechnic University of Madrid</i></p> <p>Satellite Communications Data Link Solution for Long Term Air Traffic Management <i>David Fernández, Indra</i></p>	<p>Capacity and Performance* <i>Session chair: Peter Hecker, TU Braunschweig</i></p> <p>Quantifying Air Traffic Controller Mental Workload <i>Nicolás Suárez, CRIDA</i></p> <p>ACCHANGE: Building Economic Models for Understanding ATC Performance ^{WP-E} <i>Thomas Blondiau, Transport & Mobility Leuven</i></p> <p>Airport Capacity Forecast - Pre-tactical Forecasting of Runway Capacity <i>Henk Hesselink, NLR</i></p>
18:30 – 20:00	Posters and Exhibits Session 1, Cocktail	

* include poster teaser and exhibition announcement session (15 min)

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Day 2: 26th November 2014

9:30 – 10:15	<p>Keynote 2 Joan Roselló, Assistant Director of Flight Operations, Air Europa José Luis Angoso, Innovation Director, Indra</p>	
10:15 – 10:30	<p>Musical Interlude by UPM Naval Engineering School Tuna</p>	
10:30 – 11:00	<p>Latest news from WP-E Research Network ComplexWorld Latest news from WP-E Research Network HALA!</p>	
11:00 - 11:30	<p>Coffee</p>	
11:30 – 13:00	<p>Risk and Security Assessment <i>Session chair: Jose Javier Ramasco, IFISC</i></p> <p>ATM safety management: Reactive and Proactive Indicators <i>Riccardo Patriarca, Sapienza University of Rome</i></p> <p>A First Empirical Evaluation Framework for Security Risk Assessment Methods in the ATM domain ^{WP-E} <i>Federica Paci, University of Trento</i></p> <p>Accelerated Risk Analysis in ATM: An Experimental Validation Using Time Pressure as a Stressor <i>Lothar Meyer, TU Dresden</i></p>	<p>Human Factors and Decision Support Tools <i>Session chair: Billy Josefsson, LFV</i></p> <p>Usability Evaluation of Multi-Touch-Displays for TMA Controller Working Positions <i>Maria Uebbing-Rumke, DLR</i></p> <p>Analysis of Neurophysiological Signals for the Training and Mental workload Assessment of ATCos ^{WP-E} <i>Gianluca Borghini and Pietro Aricò, Sapienza University of Rome</i></p> <p>Simulating Air Traffic Control Ground Operations: Preliminary Results from Project Modern Taxiing ^{WP-E} <i>Zarrin Chua, ISAE-Supaero</i></p>
13:00 – 14:30	<p>Lunch</p>	
14:30 – 16:30	<p>Modelling and Optimization <i>Session chair: Daniel Delahaye, ENAC</i></p> <p>Robust Runway Scheduling Using a Time-indexed Model ^{WP-E} <i>Andreas Heidt, FAU Erlangen-Nürnberg</i></p> <p>Pre-Tactical Time Window Assignment: Runway Utilization and the Impact of Uncertainties ^{WP-E} <i>Manu Kopolke, FAU Erlangen-Nürnberg</i></p> <p>Modelling Interactions in Complex Systems – an Air Navigation Service Provider Focussed Approach <i>Michael Kreuz, DLR</i></p> <p>Traffic predictions supporting General Aviation ^{WP-E} <i>Carlo Lancia, Deep Blue and Joram Verstraeten, NLR</i></p>	<p>Economics <i>Session chair: Andrew Cook, University of Westminster</i></p> <p>What cost resilience? ^{WP-E} <i>Luis Delgado, University of Westminster</i></p> <p>Better pricing strategies for ATM? ^{WP-E} <i>Tatjana Bolic, University of Trieste</i></p> <p>Agent-Based Pilot Model for Alternative Primary Airport Slot Allocation with Price-setting Auctions ^{WP-E} <i>Mario Ramirez, INSISOC</i></p> <p>Managing European Air Traffic Control Provision ^{WP-E} <i>Nicole Adler, Hebrew University of Jerusalem</i></p>
16:30 – 17:30	<p>Posters and Exhibits Session 2, Coffee</p>	
	<p>Participants transfer to networking event, Visit of Prado museum possible</p>	
20:30 – 23:00	<p>Networking Event (Casa de America)**</p>	

** participant contribution: 40 € (to be paid at the conference desk)

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Day 3: 27th November 2013

9:30 – 10:30	SESAR Perspectives on Automation Olivia Nunez, SESAR Joint Undertaking	
10:30 – 11:30	<p>Resilience Engineering <i>Session chair: Bruno Lamiscarre, ONERA</i></p> <p>The SCALES Framework for Identifying and Extracting Resilience Related Indicators ^{WP-E} <i>Ivonne A. Herrera, SINTEF</i></p> <p>Resilience Management Problem in ATM Systems as a Shortest Path Problem ^{WP-E} <i>Francesco Gargiulo, CIRA</i></p>	ComplexWorld PhD session
11:30 – 12:00	Coffee	
12:00 – 12:15	SESAR 2020 Exploratory Research Programme Peter Hotham, SJU	
12:15 – 12:30	Young Scientist Award by the SESAR Scientific Committee	
12:30 – 13:00	<p>Closing plenary</p> <p>Report and observations from HALA!: (<i>HALA! rapporteur</i>)</p> <p>Report and observations from ComplexWorld: (<i>CW rapporteur</i>)</p> <p>Close</p>	
13:00 – 14:30	Lunch	
15:00 – 17:00	<p>Workshop: "The HALA! Position Paper: Progress on Automation Applied to ATM: Challenging Areas in Future ATM System" organized by Francisco Saez Nieto from the WP-E Network HALA! – Towards Higher Levels of Automation in ATM</p> <p>Please contact the HALA! Network hala@hala-sesar.net for more information about attending the workshop</p>	<p>HALA! PhD Seminar organized by Nicholas Suarez from the WP-E Network HALA! – Towards Higher Levels of Automation in ATM</p> <p>Please contact the HALA! Network hala@hala-sesar.net for more information about attending the seminar</p>