

# Single pilot incapacitation The SAFELAND project

Stefano Bonelli (Deep Blue), SAFELAND project coordinator

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on Innovation in Aviation & Space for opening New Horizons  
DAY 2 | 19.10.2022

# Welcome to the SAFELAND final dissemination event

- **The topic**
  - Single pilot operations
- **The SAFELAND Project contribution**
  - Enhancing safety in case of single pilot incapacitation, until landing
- **The connection with RPAS related projects**
  - RPAS Projects collaboration group



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# Session overview

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| Single pilot incapacitation (SAFELAND): Part I   |
| Mr. Stefano Bonelli (Deep Blue, Italy)   |
| A Concept of Operations for Single Pilot Incapacitation<br><i>Ana P. G. Martins, Joonas Lieb, Max Friedrich</i>  |
| SAFELAND Concept overview - Feedback & Round Table   |
| Assessing SPO incapacitation using Low Fidelity Simulation<br><i>Ana Lidia de Almeida Castro, Ricardo Jose Nunes dos Reis, Gianmaria Mallozzi, Aurora De Bortoli Vizioli, José Ricardo Parizi Negrão</i> |
| Low Fidelity Simulation - Feedback & Round Table   |
| Evaluation of Operating Procedures for Single Pilot Incapacitation - Real Time Simulation<br><i>Joonas Lieb, Ana P. G. Martins, Max Friedrich</i>  |
| Real Time Simulation - Feedback & Round Table  |

The SAFELAND concept

Q&A + Comments

Preliminary evaluations

Human in the loop simulations

16:40

17:00

Coffee Break

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| Single pilot incapacitation (SAFELAND): Part II   |
| Mr. Stefano Bonelli (Deep Blue, Italy)  |
| SAFELAND Final Evaluation Results. Outcomes and insights from the Real Time Simulation, and the Legal and Regulatory analysis - partA<br><i>Aurora De Bortoli Vizioli, Pasquale Junior Capasso, Francesco Godano, Gianmaria Mallozzi, Stefano Bonelli</i> |
| SAFELAND Final Evaluation Results. Outcomes and insights from the Real Time Simulation, and the Legal and Regulatory analysis - partB<br><i>Aurora De Bortoli Vizioli, Pasquale Junior Capasso, Francesco Godano, Gianmaria Mallozzi, Stefano Bonelli</i> |
| SAFELAND Final Evaluation Results - Feedback & Round Table  |

Project results

18:00

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| SESAR RPAS projects overview   |
| Prof. Cristina Barrado (Universitat Politècnica de Catalunya, Spain)   |
| Preliminary validation results of a novel concept of operations for RPAS Integration in TMA and at airports<br><i>Gunnar Schwoch, Gabriella Duca, Vera Ferraiuolo, Edoardo Filippone, Paola Lanzi, Co Petersen, Riccardo Rocchio, Vittorio Sangermano, Jürgen Teutsch</i>  |
| Simulation campaign results for a Remain Well Clear system for IFR-RPAS integration in Airspace classes D-G in Europe<br><i>Edoardo Filippone, Niklas Peinecke, Damiano Taurino, Chris Shaw, Enric Pastor, Erik Theunissen</i>   |
| CORUS-XUAM project overview<br><i>Riccardi Giovanni</i>  |
| Special focus on demonstration activities<br><i>Riccardi Giovanni</i>  |
| SESAR PJ13 ERICA "Enable RPAS Insertion in controlled airspace" Validation experiment for the long-term integration of RPAS in an Italian air traffic scenario<br><i>Alessandro Manzo, Giovanni Riccardi, Giuseppe d'Angelo, Gino Pompei, Damiano Taurino, Alexandra Ghita, Umberto Ciniglio, Salvatore Cusimano</i> |

RPAS Projects

19:40



# The SAFELAND Project

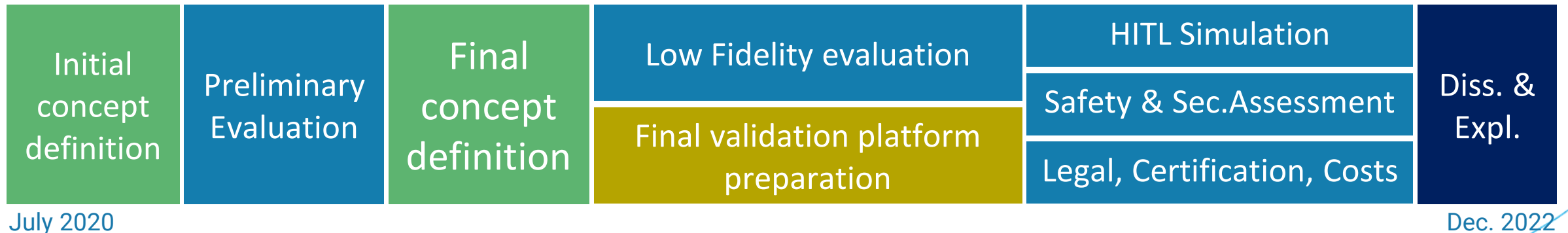
This project has received **funding from the SESAR Joint Undertaking under the European Union's Horizon 2020 research and innovation programme** under grant agreement No 890599

## Programme(s)

H2020-EU.3.4. - SOCIETAL CHALLENGES - Smart, Green And Integrated Transport

## Topic(s)

SESAR-ER4-30-2019 - RPAS for Manned Flight Contingency Management all for proposal H2020-SESAR-2019-2)



# The SAFELAND Consortium

Project Coordinator  
WP3 Leader



WP1 Leader

WP2 Leader



WP4 Leader



THANK YOU FOR  
YOUR ATTENTION