





General aviation Rescue capacity IMprovement for the worldwide Adoption of a Safe Solution based on European GNSS

General aviation user's needs collection workshop

1 – Welcome & introduction

Barcelona January 31st 2018

















- 1. Welcome to the workshop
- 2. GRIMASSE consortium
- 3. A few words about Pildo Labs
- 4. Today's agenda



1 – Welcome to the workshop

Why are we here today?

- This project takes place in the context of the development of MEOSAR system.
- MEOSAR system is developed in the frame of C/S international group, built on the heritage of GEOSAR and LEOSAR systems.
- Early Operational Capability service since 13th Dec 2016
- Full Operational Capability (FOC) expected for end 2018:
 - Homogeneous MEOSAR service worldwide
 - New functionalities:
 - Moving beacon (e.g. aircraft) can be detected (previously it was not possible)
 - Reception of SGB for improved detection, message content and independent localization accuracy
 - Indicates the position < 10min (versus 2 h of LEO/GEO generation)
 - Position accuracy improves to 200 m (vs. 5km previously)



1 – Welcome to the workshop

Why are we here today?

- European GNSS agency funded, under H2020 programme, 2 projects to our consortium: GRICAS and GRIMASSE
- GRICAS (Jan 2016- April 2018):
 - Main objective: Innovate operational procedures for in-flight activation of SAR beacons onboard aircrafts taking benefit of the unique Galileo SAR service (and the RLM)
 - Answer ICAO requirements for the implementation of the Global Aeronautical Distress and Safety System (GADSS)
 - Strong consortium: TAS and CNES in Cospas-Sarsat
 - Meolut developed by TAS within GRICAS
 - ELTA developing New Generation aircraft Beacon
 - Flight testing platform developed by PILDO

- Strong representation at ICAO and RTCA level to push for the adoption of the concepts (DGAC, ASECNA)

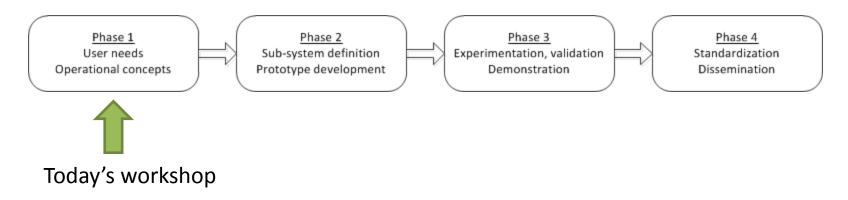




1 – Welcome to the workshop

Why are we here today?

- GRIMASSE (Sept 2017- June 2019):
 - Follow-up of GRICAS but focused on General Aviation and Helicopters
 - Development of a low-cost easy-to-use SAR beacon
 - Development of operational standards, procedures and tools in SWIM environment
 - Flight tests and worldwide dissemination of the results
 - Four steps approach methodology:





2 - GRIMASSE Consortium





3 – Pildo Labs



Engineering Company created in 2001

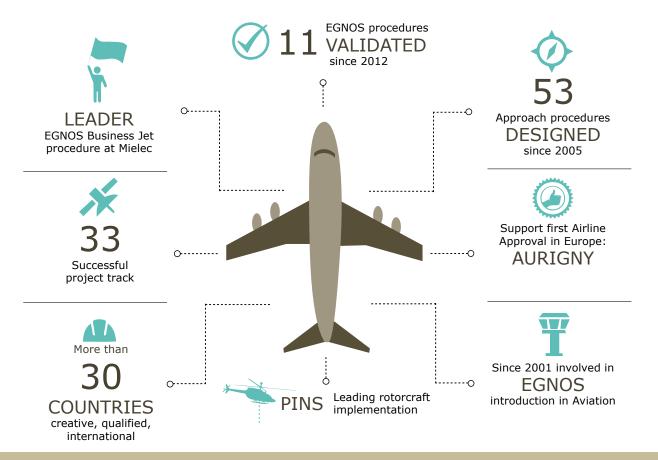
Aeronautics and Aerospace

From Technology to a more efficient Service

Pioneering the implementation of new operations based on Satellite Navigation

SOLUTIONS for a more SUSTAINABLE TRANSPORT

3 – Pildo Labs



Leading the Implementation of SATNAV technology in Aviation

GRIMASSom

3 – Pildo Labs





4 – Today's agenda

Morning

9:00 – 9:30	Welcome and Introduction	Mercedes Reche (PILDO)
9:30 – 10:00	 GRIMASSE overview: Context (GADSS and ADT) GRICAS outputs GRIMASSE objectives Operational scenarios 	Pauline Martin (Thales Alenia Space)
10:00 – 11:00	 General Aviation user experience in SAR (I/II): Present solutions. Pros & cons. Operation and distress scenarios. Involved bodies and reaction time. 	Martin Robinson (AOPA)
Coffee Break & Group picture		
11:15 – 11:45	UK SAR experience	Mark Lawson (UK Maritime Agency)
11:45 – 12:15	Difficulties to implement SAR in Africa	Theodore Tchuisseu (ASECNA)
12:15 – 12:45	General Aviation user experience in SAR (II/II):Features to be improved.Approach to move forward	Martin Robinson (AOPA)



4 – Today's agenda

Afternoon

13:45 – 15:00	General Aviation beacon:PLB vs ELT. Pros & cons.Improvements in features and operation.	Christophe Chatain (ELTA)	
15:00 – 16:00	 Communications between GA operators and rescue teams: Present solution used. Pros & cons. Improvements in features and operation. 	Mercedes Reche (PILDO)	
16:00 - 17:00	Wrap-up & Way forward	All	
17:00 End of workshop			



Thanks for your attention