

Regional Aircraft in CS: objectives and programme status

Napoli, 14 novembre 2018



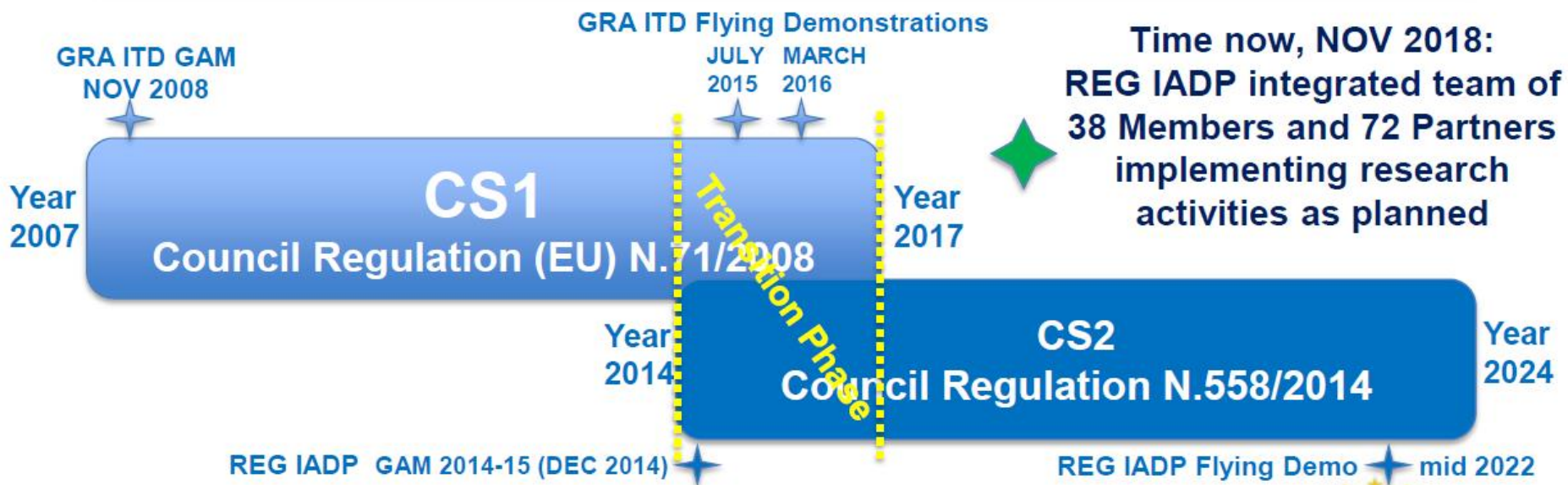
The Clean Sky initiative



Clean Sky JTI LIFETIME

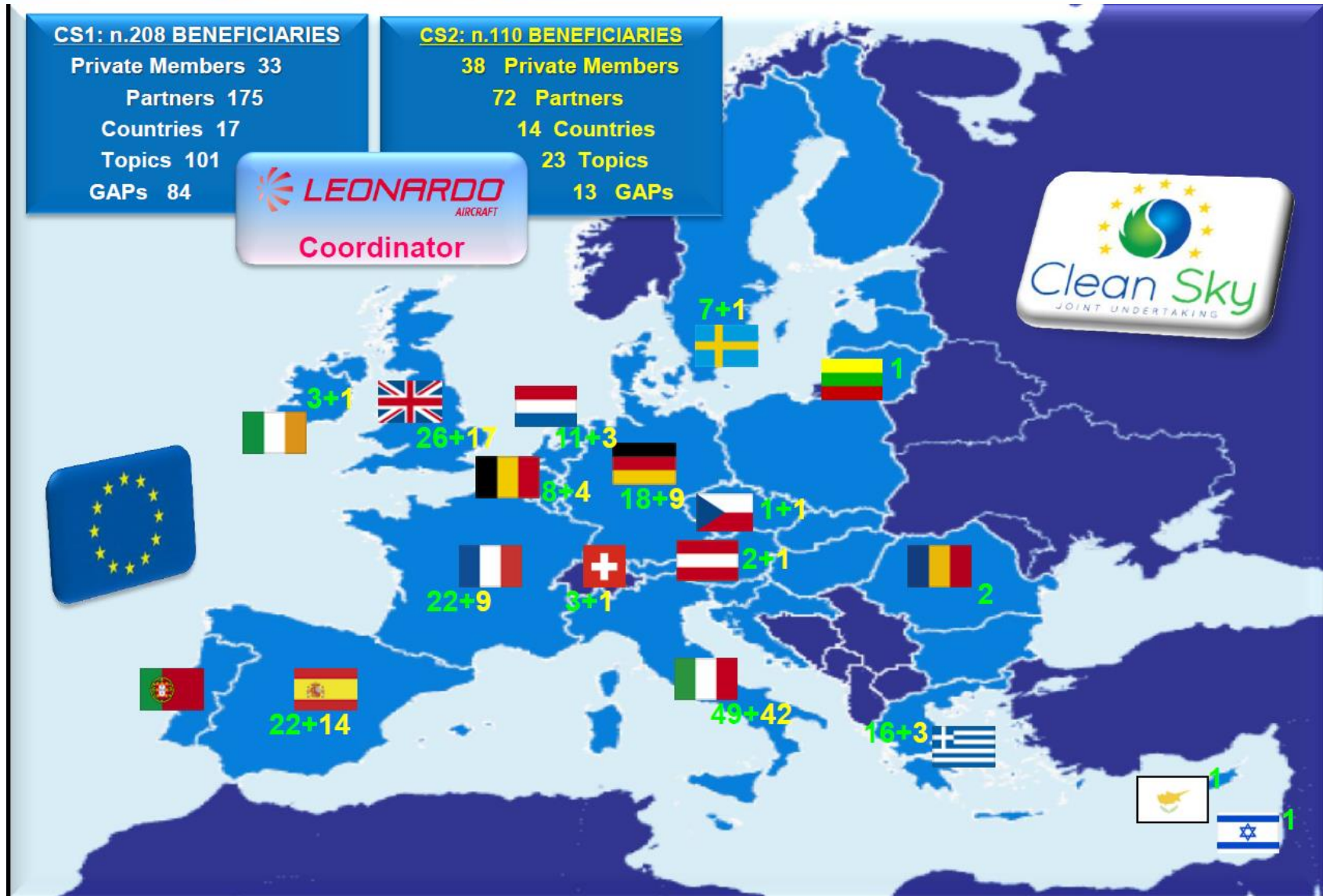


2007 CLEAN SKY JOINT TECHNOLOGY INITIATIVES 2024



CLEAN SKY 2 JOINT UNDERTAKING

CSJU Beneficiaries in the CSJTI REGIONAL: 318 Parties

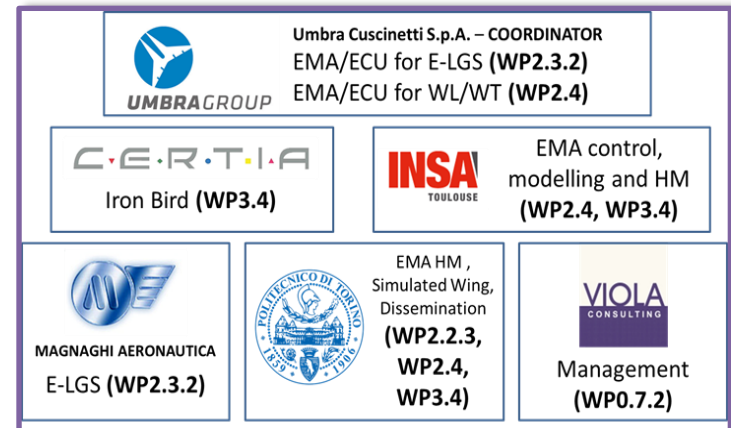


The "REGIONAL" Team: CORE PARTNERS

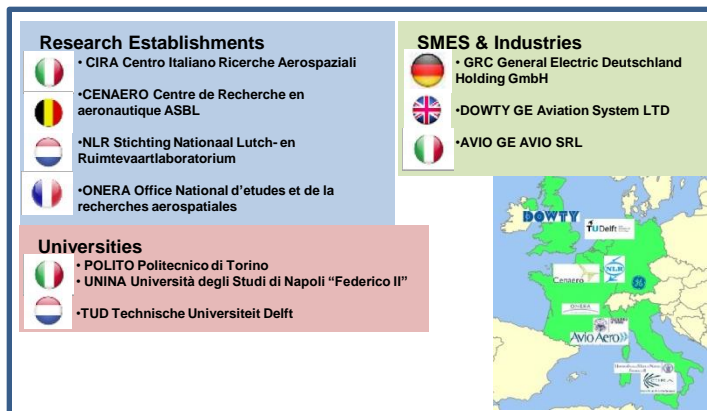
REG IADP AIRGREEN2



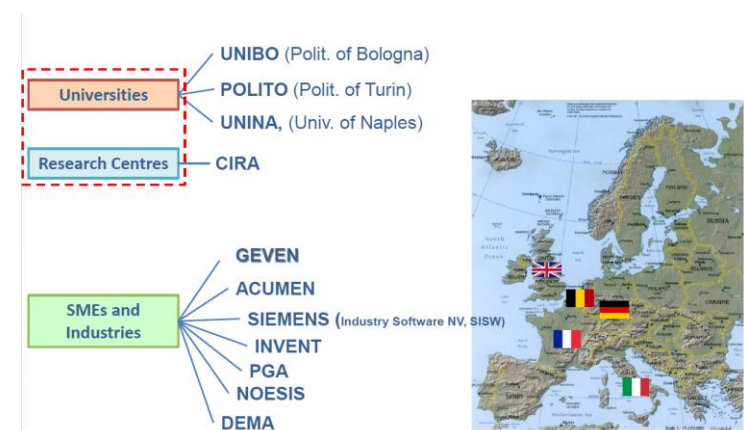
REG IADP ASTIB



REG IADP IRON



AIR ITD CASTLE



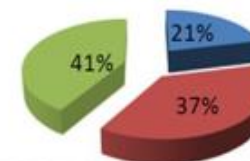
AIRGREEN2 Core Partners

AIRGREEN 2 Consortium



FUNDING Distribution per organization k€

- Res 1823
- Academias 3187
- Industries 3506



ASTIB Core Partners



UMBRAGROUP

Umbra Cuscinetti S.p.A. – COORDINATOR
EMA/ECU for E-LGS (WP2.3.2)
EMA/ECU for WL/WT (WP2.4)

C.E.R.T.I.A

Iron Bird (WP3.4)



EMA control,
modelling and HM
(WP2.4, WP3.4)



MAGNAGHI AERONAUTICA
E-LGS (WP2.3.2)



EMA HM ,
Simulated Wing,
Dissemination
(WP2.2.3,
WP2.4,
WP3.4)

VIOLA
CONSULTING

Management
(WP0.7.2)



IRON Core Partners



Italian Aerospace Research Centre



UNIVERSITÀ DEGLI STUDI DI NAPOLI
FEDERICO II



Delft University of Technology



A GE Aviation Business



Dedicated to innovation in aerospace

10 PRIVATE MEMBERS of the CS2JU:

- 6 EUROPEAN COUNTRIES
- 3 Universities
- 5 Research Centers
- 2 Industries



THE FRENCH AEROSPACE LAB



POLITECNICO DI TORINO



CASTLE Core Partners

Universities

UNIBO (Polit. of Bologna)

POLITO (Polit. of Turin)

UNINA, (Univ. of Naples)

Research Centres

CIRA

GEVEN

SMEs and Industries

ACUMEN

SIEMENS (Industry Software NV, SISW)

INVENT

PGA

NOESIS

DEMA



CAMPANIA Region support to Clean Sky “REGIONAL AIRCRAFT”

Centro Italiano Ricerche Aerospaziali

CNR - Istituto per i Polimeri, Compositi e Biomateriali

MM CNR - Istituto per la Microelettronica e i Microsistemi CNR

ENEA - Dipartimento Sostenibilità dei Sistemi Produttivi e Territoriali

IMAST - Distretto Tecnologico Ingegneria Materiali Polimerici Compositi e Strutture

Università degli Studi di NAPOLI "Federico II "

Università degli Studi della Campania "LUIGI VANVITELLI«

Università degli Studi di SALERNO

SICTA - Sistemi Innovativi per il Controllo del Traffico Aereo

Aeromechs SRL

Power Naples Prototype Laboratory SRL

TEKNOSUD S.R.L

EUROTECH di Mario Amoroso SAS

NOVOTECH

Officine Meccaniche Irpine SRL

REDAM SRL

Magnaghi Aeronautica SPA

DEMA SpA

Geven SpA

RES NOVA DIE SRL

ItalSystem SRL

TECNAM

Aerosoft SPA

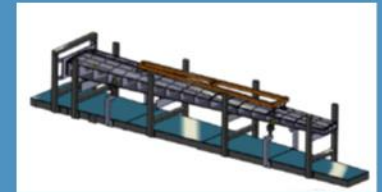
FOXBIT



REG IADP Full Scale Demonstrators

ADAPTIVE WING INTEGRATED DEMONSTRATOR

- **FLYING TEST BED#1 (FTB#1)**
In-flight demonstration of Load Control & Alleviation and Aerodynamics enhancements features through new generation wing devices and advanced Flight Control Actuation systems
- **OUTER WING BOX (OWB) Ground Demonstrator**
Structural static and fatigue tests of innovative low cost and low weight structural technologies integrated at full scale level



IRON BIRD Ground Demonstrator

Integration and validation of FCS Load Control/Load Alleviation (LC/LA), Electrical Landing Gear, Electrical Power Distribution System, inter-system integration activity; support the achievement of the permit-to-fly for FTB#1

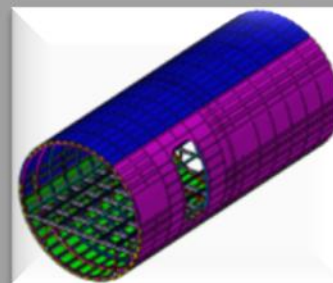


REG IADP Full Scale Demonstrators

D3 - FUSELAGE / PAX CABIN INTEGRATED DEMONSTRATOR

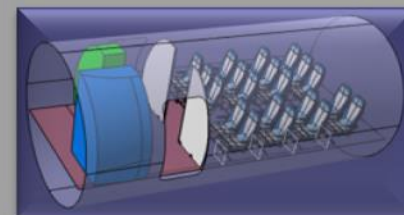
Fuselage Ground Demonstrator

Full scale composite fuselage with innovative structural and architectural solutions aimed to weight and cost reduction



Cabin Ground Demonstrator

Full scale passenger cabin (same primary structure of fuselage structural demonstrator) with innovative on board systems and advanced solutions for increasing passenger comfort and safety



REG IADP Dissemination and Exploitation Performance



Regional aircraft - what next in Horizon Europe

