

Overview of Clean Sky 2 JU



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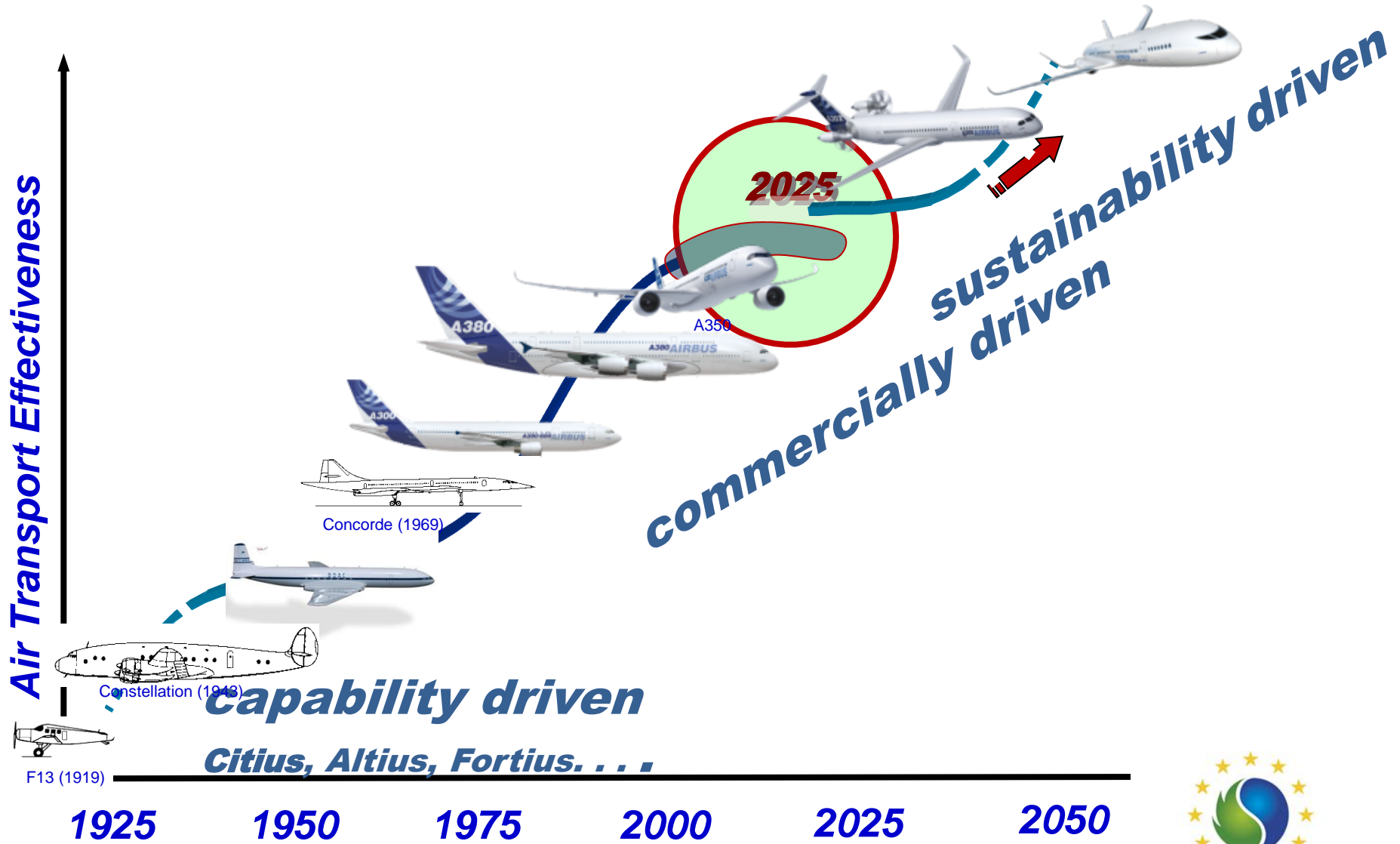
Athens, 21 November 2017

Innovation Takes Off

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Drivers of innovation have changed



Big technical challenges, bigger ones still ahead

Reduce perceived external noise by

50% by 2020

65% by 2050



Reduce fuel consumption and CO₂ emissions by 50% by 2020
75% by 2050

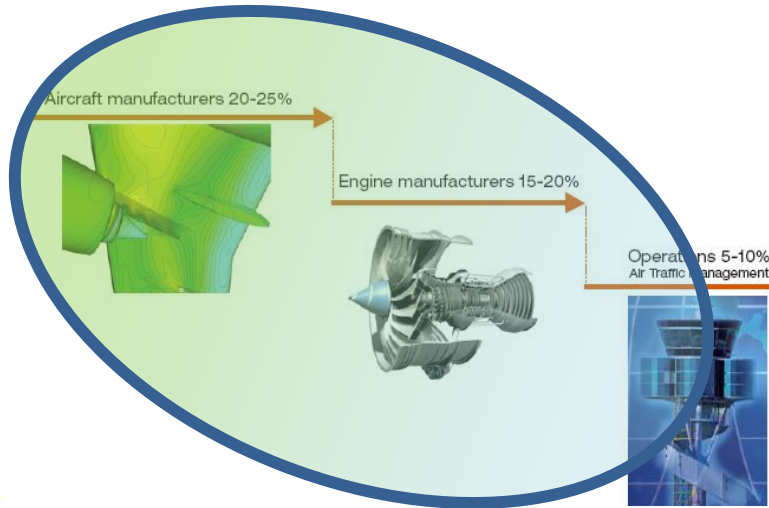
Reduce NO_x emissions by 80% by 2020
90% by 2050

Performance trade-offs and technology trades for all stakeholders

ACARE 2020 SRA and 2050 SRIA targets for new aircraft technology “ready for adoption” relative to 2000 performance

Clean Sky – Responding to Societal Needs But New Frontiers & Challenges

2000



2020



Extended and Enhanced and enlarged efforts in CS2 / H2020

2050

- Bridging the gap & completing journey to 2020 Goals
- Growing competition: *Re-invigorate industrial leadership*
- Ambitious new targets for 2035/2050 (ACARE SRIA)
- COP21 “Paris Agreement”
- Energy Union goals and commitments

Clean Sky 2 Programme Set-up

EU Funding: ~1.8bn€
Private Members:
~2.2bn€

Vehicle
IADPs

Fast Rotorcraft
Leonardo Helicopters
Airbus Helicopters

Large Passenger Aircraft
Airbus

Regional Aircraft
Leonardo Aircraft

Large
Systems
ITDs

Eco-Design
Fraunhofer Gesellschaft

Airframe ITD
Dassault – Airbus D&S – Saab

Engines ITD
Safran – Rolls-Royce – MTU

Systems ITD
Thales – Liebherr

Small Air Transport
Evektor – Piaggio

Technology Evaluator (TE)
German Aerospace Center (DLR)

*Building on Clean Sky, going further into integration at full aircraft level
And developing new technology streams for the next generations of aircraft*

Clean Sky 2 Participation

≤ 40% of EU funding allocated to CS2 Leaders

> 60% of EU funding open to competition via open calls:

Up to 30% for Core Partners (becoming *Members* once selected)

At least 30% for Calls for proposals (i.e. *Partners*)

>1bn€ of EU funding in play, via open and competitive calls



Industry, SMEs, Academia, and Research Organizations eligible.
Participation possible via Clusters / Consortia or as sole applicant



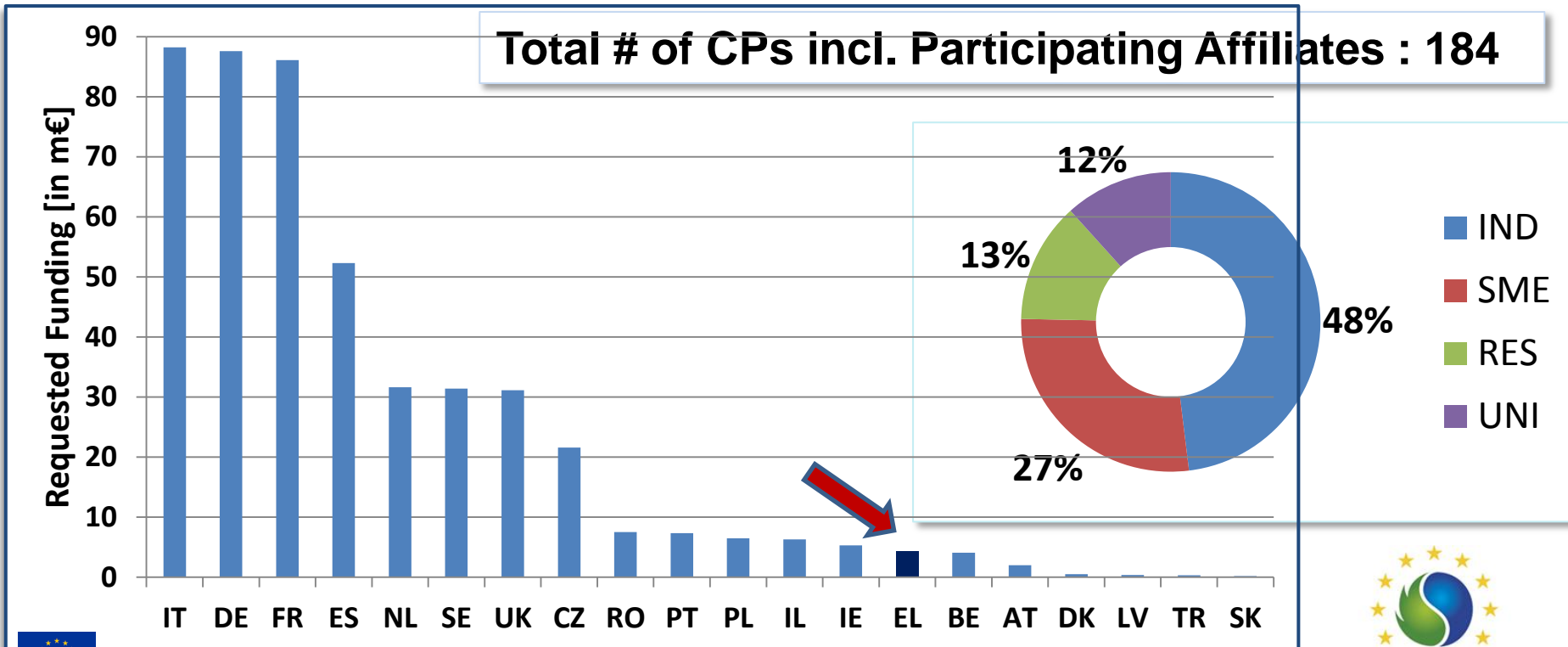
800 - 1000 Participants across all tiers of the industrial supply chain and “R&I Chain”, with large investment leverage effect

4 Core Partner Calls to date
5th Call under evaluation
Over 180Members to date

6 CfP Calls to date; 7th Call open
~400 Partners to date

Core Partners Statistics

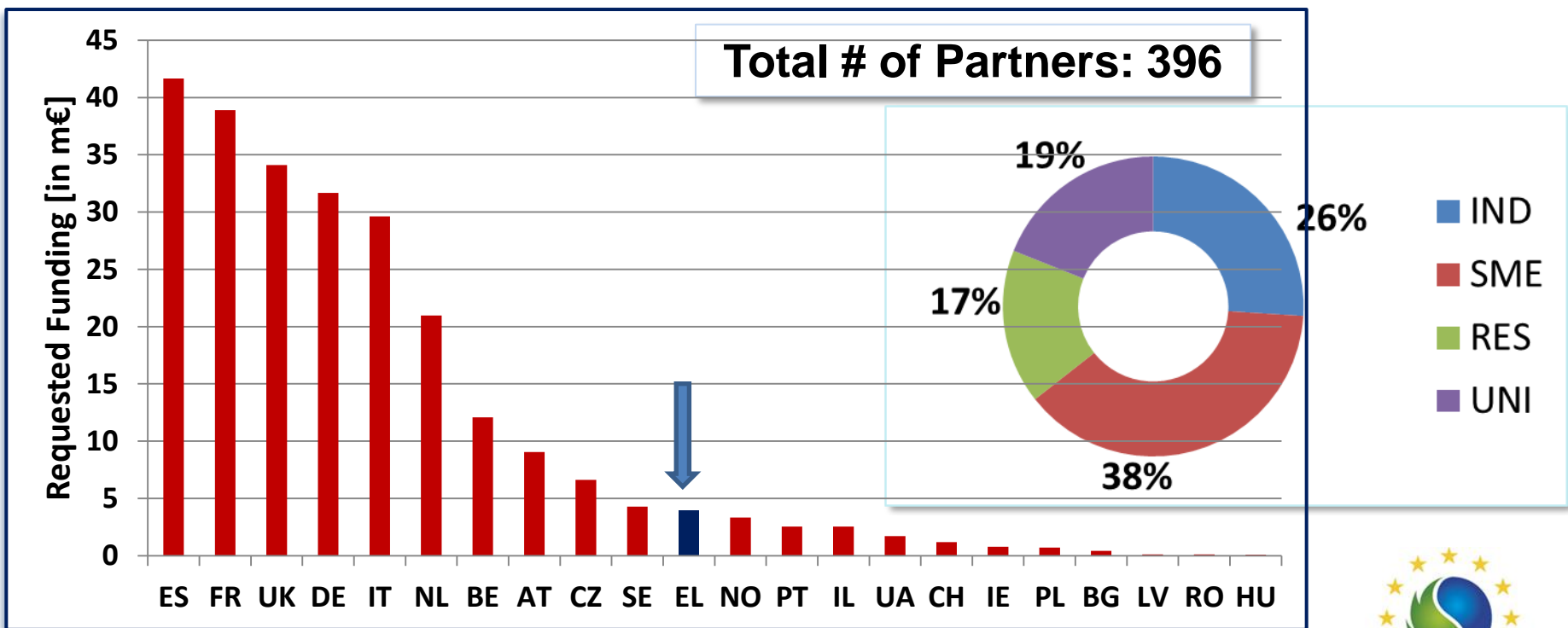
Type of Organisation	LPA	REG	FRC	AIR	ENG	SYS	TOTAL
IND	33	13	9	29	14	24	122
SME	3	2	7	19	5	8	44
RES	11	8	4	19	4	5	51
UNI	3	9	1	13	1	4	31
Total	50	32	21	80	24	41	248



Partners Participation to date

After CfP01-06*

Type of Organisation	LPA	REG	FRC	AIR	ENG	SYS	TE	TOTAL
IND	26	5	19	29	27	25	0	131
SME	44	16	20	66	25	39	7	217
RES	46	6	20	50	18	35	8	183
UNI	43	11	12	36	36	16	2	156
Total	159	38	71	181	106	115	17	687



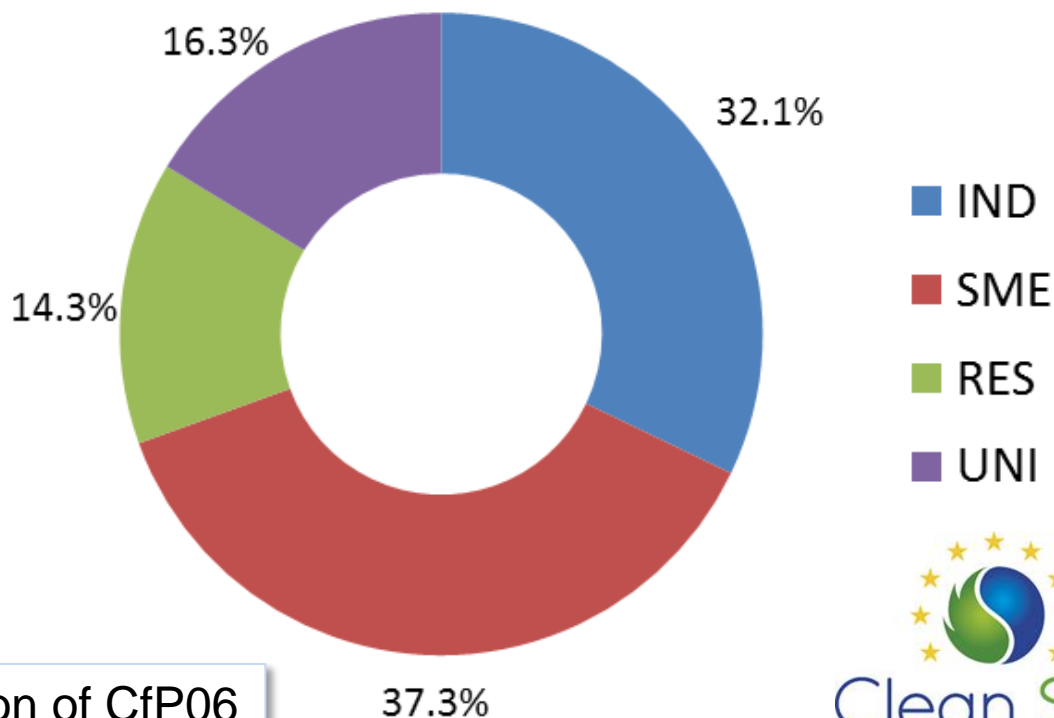
* Subject to GB adoption of CfP06

Overall Participation to Date

Participations in winning proposals [CPW01-04 and CfP01-06]*

Type of Organisation	LPA	REG	FRC	AIR	ENG	SYS	TE	TOTAL
IND	59	18	28	58	41	49	0	253
SME	47	18	27	85	30	47	7	261
RES	57	14	24	69	22	40	8	234
UNI	46	20	13	49	37	20	2	187
Total	209	70	92	261	130	156	17	935

Total number of single entities: 498 from 27 countries



* Subject to GB adoption of CfP06



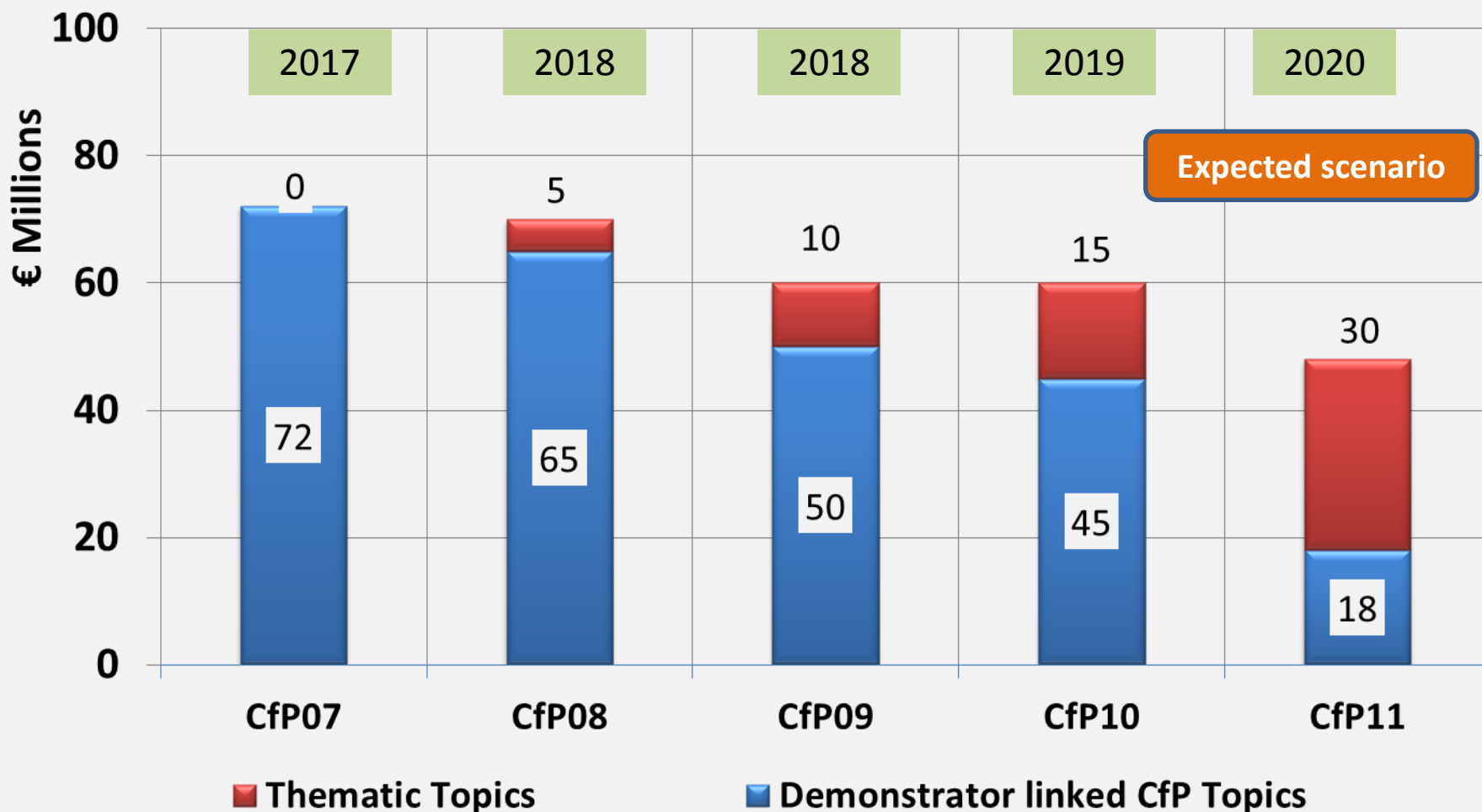
Call for Partners >2017 with Thematic

CS2DP: 549m€ in total for Partners

CfP01-06: 279m€ launched, 243m€ granted

CfP07-11: 306m€ available (246m€ for industrial/demonstration (demonstrator linked) topics, 60m€ for Thematic Topics)

Call for Partners indicative budgets



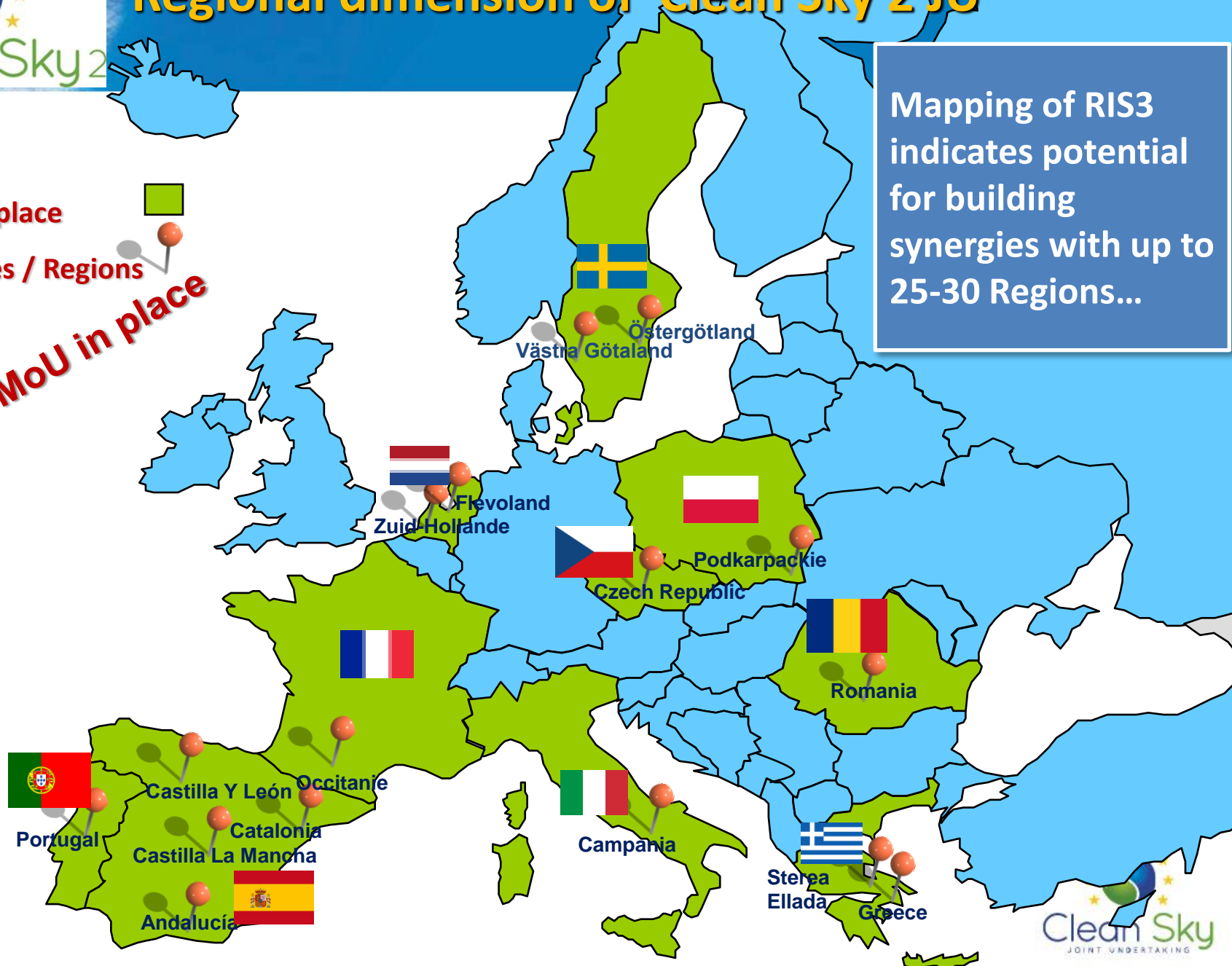
Regional dimension of Clean Sky 2 JU

Mapping of RIS3 indicates potential for building synergies with up to 25-30 Regions...

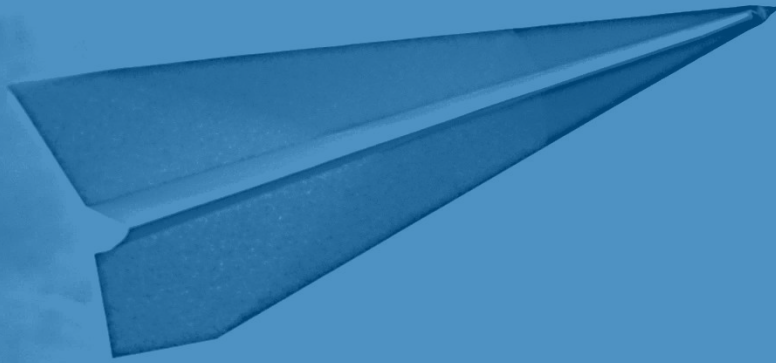
MoU in place

Countries / Regions

✓ 16 MoU in place



Come and join us!
Thank you!



Tiit Jürimäe
Interim Executive Director

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