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**CREDOS
WakeNet Europe**

**Eurocontrol Headquarters
Brussels
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ATC-Wake Results

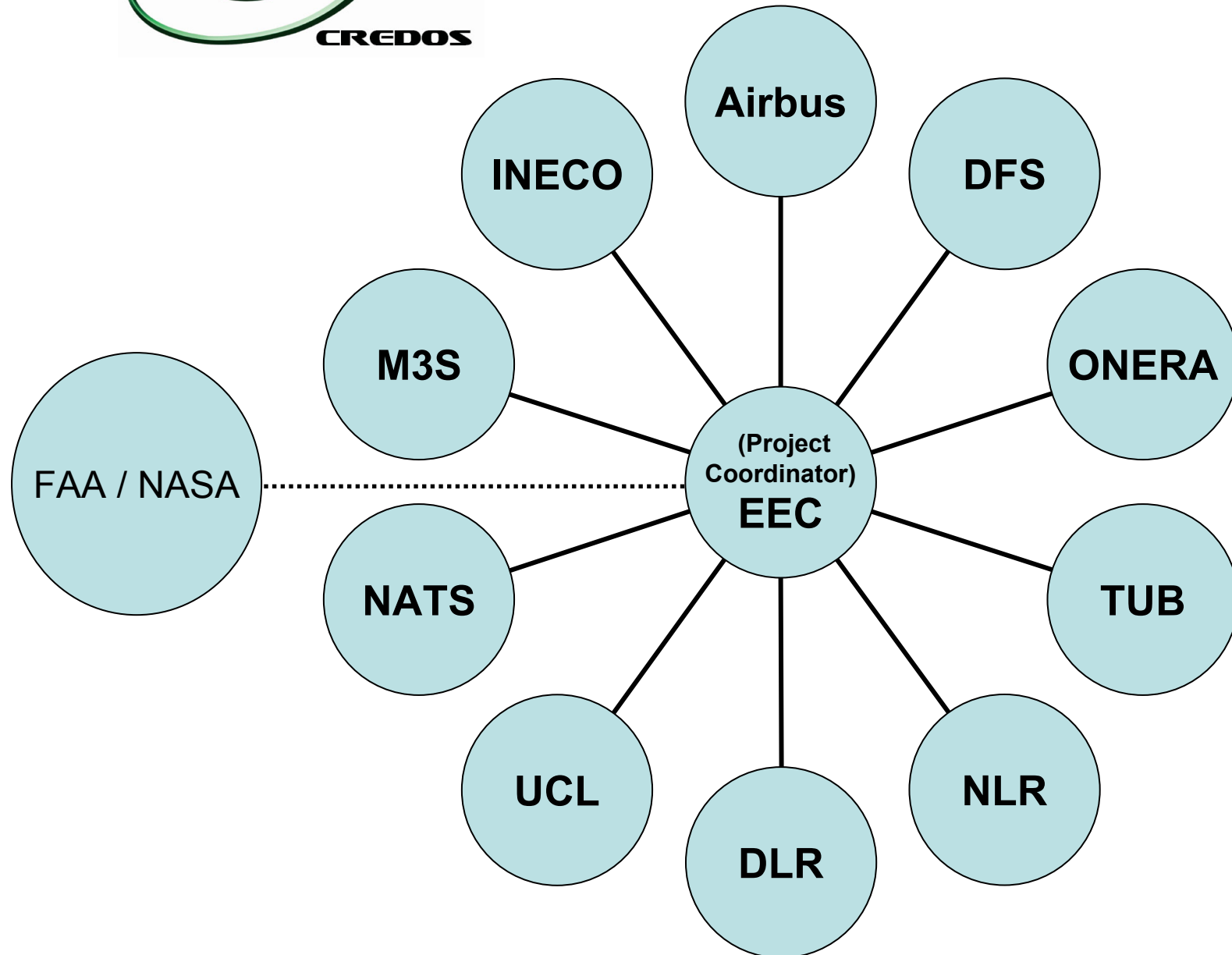
2.5 nm

<i>Airport</i>	Extra Movements per Day Possible under ATC-Wake (number of Queued Hours per day)				Annual Total
	Winter	Spring	Summer	Autumn	
<i>EDDF</i>	41 (13)	31 (15)	23 (14)	29 (15)	11315
<i>EDDM</i>	0 (0)	0 (0)	0 (0)	0 (0)	0
<i>EHAM*</i>	0 (0)	0 (0)	0 (0)	0 (0)	0
<i>LIRF*</i>	1 (1)	0 (2)	9 (4)	3 (4)	1186
<i>LFPG</i>	0 (0)	14 (2)	2 (1)	4 (1)	1824
<i>LSZH</i>	2 (2)	1 (2)	0 (2)	1 (2)	365
<i>LEMD</i>	10 (9)	11 (9)	20 (12)	10 (10)	4653
<i>LEBL</i>	0 (0)	0 (0)	0 (0)	0 (0)	0
<i>EGLL</i>	69 (14)	84 (15)	59 (14)	72 (16)	25915
<i>EGKK</i>	0 (0)	0 (0)	0 (0)	0 (0)	0
<i>EGCC</i>	0 (0)	0 (0)	0 (0)	0 (0)	0

The

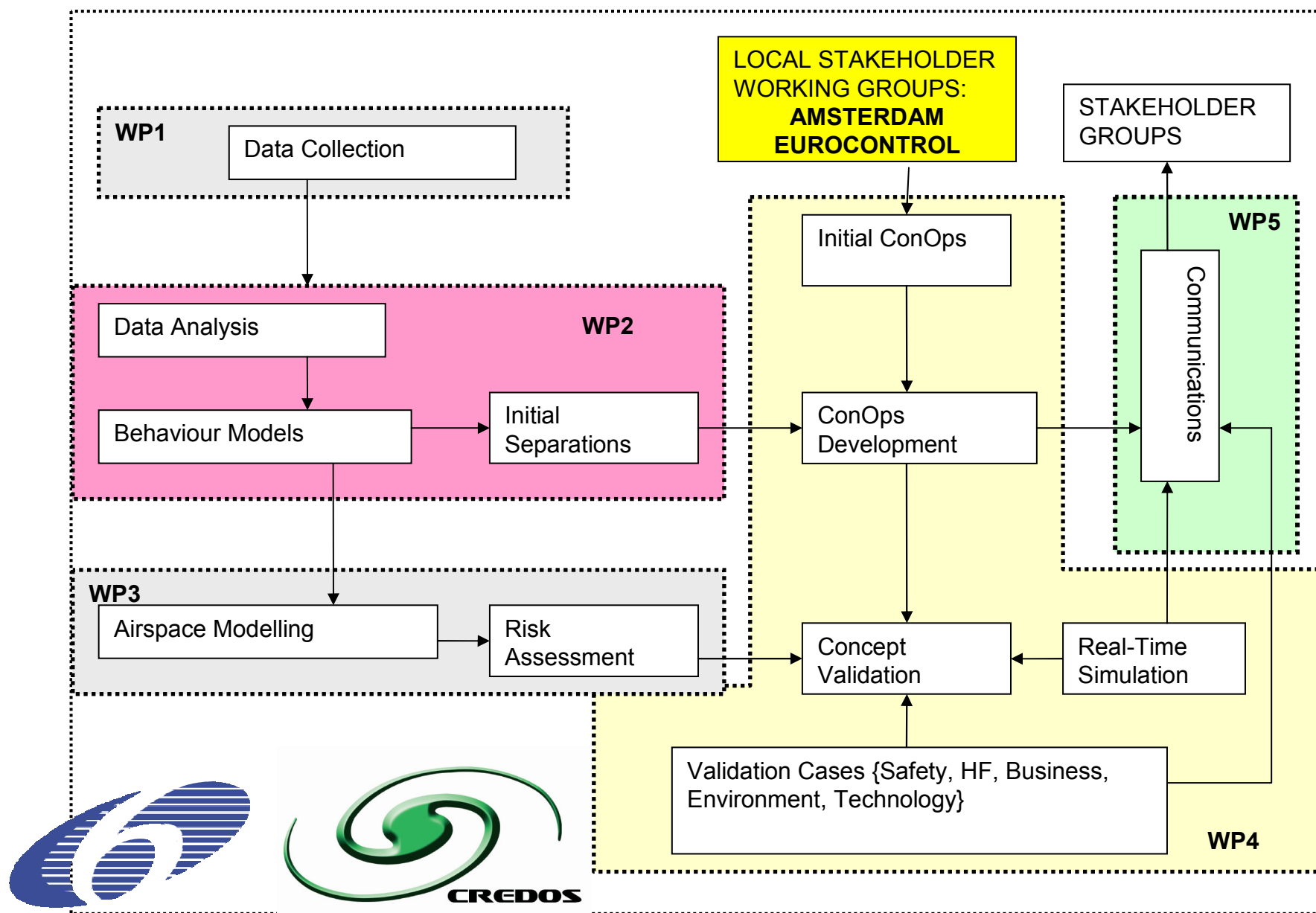


Consortium



OBJECTIVES

- Demonstrate the feasibility of an Operational Concept for Reduced Separations for Single Runway Departures under Crosswind
- Provide all stakeholders with the required information for the implementation of this concept where appropriate in the near-term (pre-2012)



Future Demand

	ATC-Wake, 3Nm		CREDOS, 80s	
<i>Airport</i>	<i>Current Demand</i>	<i>Constant Demand</i>	<i>Current Demand</i>	<i>Constant Demand</i>
EGLL	10,858	12,318	9,490	10,220
EDDF	3,923	6,002	91	3,011
EHAM	1,277	9,307	638	5,200
LFPG	638	13,961	0	3,832
LEMD	547	1,460	456	1,095
EDDM	0	273	0	91
LIRF	0	1,733	0	912
LSZH	0	912	0	547
LEBL	0	273	0	91
EGKK	0	4,471	0	2,372
EGCC	0	9,125	0	5,110



Conclusion

The CREDOS Project:

- Sound Basis / Wide Support
- Part of a wider picture
- Laying the way for implementation



CREDOS

Crosswind-reduced Separations for Departure Operations

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CREDOS





WV Behaviour Models

- AVOSS Predictor Algorithm
 - APA (NASA)
- Probabilistic 2-Phase Model
 - P2P (DLR)
- Probabilistic Vortex Forecast System
 - P-VFS (UCL)

Validation strategy



EDDF_1 Frankfurt Data

Phase 1

FAA LIDAR

