



MetOp Second Generation (MetOp-SG)

MetOp-SG Programme



- Collaborative programme with EUMETSAT.
- Designed to provide data continuity with, and to enhance the observations from, the existing first generation MetOp series.
- Current MetOp satellites provide essential meteorological observations from polar orbit.
- ESA is responsible for the development of the prototype satellites and, on behalf of EUMETSAT, for the procurement of the recurrent satellites.
- EUMETSAT contributes approx. 30% of the development costs for the satellites and funds all the recurrent satellites.
- In addition, EUMETSAT develops the ground segment, procures the launch and LEOP services and performs the operations.

MetOp-SG for C-MIN 2012



- Overall programme size (ESA + EUM): > 3 Beuro.
- ESA contribution of 715 Meuro (2012 e.c.).
- 2-satellite constellation – recurrent models (nominally 2 series of 3 satellites each).
- Proposal for Phase B2/C/D, spanning period ~2013-2022.
- Inclusion of ICI instrument to be decided by EUMETSAT Council on 5-6 July.

MetOp SG financial profile (ESA contributions) Ref. ESA/PB-EO(2012)35.

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Total (M€)
Without ICI option:	10	40	80	115	120	120	100	75	45	10	715
With ICI option:	10	50	90	125	125	125	110	80	50	15	780

MetOp-SG Payload Complement



Satellite	Instruments	Instrument Provider
Sat-A	METimage IASI-NG MWS RO 3MI Sentinel-5	DLR via EUMETSAT CNES via EUMETSAT ESA – MetOp-SG ESA – MetOp-SG ESA – MetOp-SG ESA – GMES
Sat-B	SCA MWI RO ICI (option) Argos-4	ESA – MetOp-SG ESA – MetOp-SG ESA – MetOp-SG ESA – MetOp-SG (option) CNES via EUMETSAT

MetOp-SG – Potential Portuguese Roles



- MetOp-SG is a large programme and offers several possible opportunities for Portuguese industry.
- With the recurrent satellites, MetOp-SG provides security for long-term industrial activities and workload / employment.
- Portugal is a EUMETSAT Member State and will contribute to the mandatory EUMETSAT EPS Second Generation programme at GNP level.
- To maximise return to Portuguese industry, Portugal should subscribe to the ESA MetOp-SG programme at a higher level than its EUMETSAT GNP contribution (revised level = 1.25%).
- Expected Portuguese contribution to ESA MetOp-SG Programme: $\sim 1\% \approx 7 \text{ M€}$.