



Objectives:

- Develop and qualify Next Generation Platform (NGP) product lines allowing the two European satellite prime integrators, Airbus Space and Defense (F) and Thales Alenia Space (F) to deliver competitive satellites on the 3 to 6 tons launch mass commercial satellite market;
- In-orbit validation, with protoflight models (PFMs) delivery in orbit by 2018/2019.

Programme Status/Achievements:

- Phase A started late 2011 under CNES PIA (Programme d'Investissement d'Avenir);
- ARTES 14 approved at Ministerial Council in November 2012;
- Cooperation agreement signed between ESA and CNES in February 2013;
- Key Technology Review held, based on worldwide call for idea, bottom-up approach;
- Architecture Design Review ongoing; Steering board planned in March 2013, concluding the phase A activity.

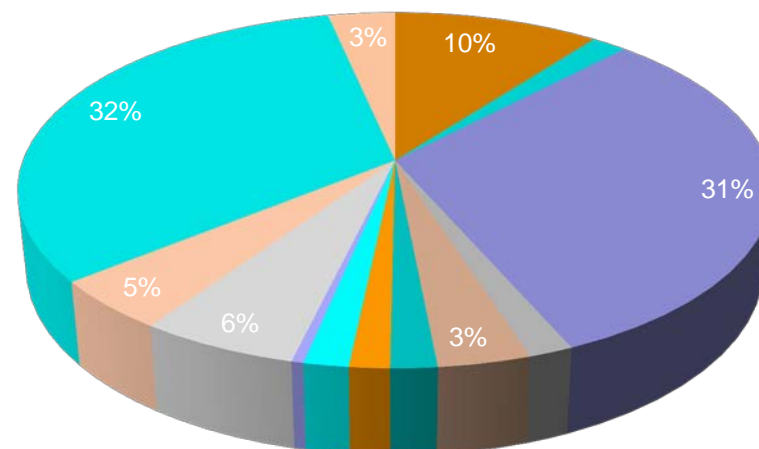
- Procurement proposal Next Generation Platform “NEOSAT” Phase B/C/D (ESA/IPC(2013)1) was approved by 276th IPC meeting on 09 January 2013 for a ceiling price of 260 M€ to be funded by ARTES 14 based on a total cost of 310 M€ with co-funding from Industry, with a firm fixed price for Phase B and ceiling price to be converted into a firm fixed price for Phase C/D. A contract proposal for Phase C/D shall be submitted to IPC at the end of the Phase B, including the list of preferred suppliers for the development and subsequent exploitation phase.
- The ESA RFQ for the NEOSAT Program (Phases B/C/D) was issued to Industry on 26 July 2013.
- A Phase B/C/D proposal for a ceiling price of 252 M€ was received from Airbus Space and Defence and Thales Alenia Space on 2 October 2013.
- The Agency concluded its evaluation at the end of November and decided to award a contract for Phase B.
- Negotiation started in December; contract signed on 20 February.
- Before the end of Phase B, expected by first quarter 2015, Airbus Space and Defence and Thales Alenia Space will be invited to submit a complete phase C/D proposal (as initially agreed).



The Phase B contract has been placed with Airbus Space and Defense and Thales Alenia Space, based on the principle of joint and several liability for 18.225 M€
The following activities are included.

- Concurrent engineering activities to define technical baseline to be presented at System PDRs in 3rd Quarter 2014, mainly on mechanical platform (structure, thermal, propulsion) and involving subcontractors in UK, S, CH and LUX;
- Predevelopments of critical technologies led by the two Co-Primes, such as:
 - New generation battery cells
 - High power electric propulsion thruster and power control electronics
 - Thruster mechanism for electric orbit raising
 - Mechanical Pumped Loop based thermal control system
 - East West thermal coupling architecture;
- Neosat Supplier Selection for phase C/D following ESA Best Practices on some 25 common Building Blocks.

Country	Companies	Industrial return in k€
Belgium	ETCA, EHP	1,890
Czech Republic	Toseda	325
France	Airbus DS, TAS, SAFT, Axon, Rica, LRCCP	5,700
Ireland	Enbio	300
Luxembourg	Euro-Composites	620
Netherlands	NLR	310
Norway	Norsat	270
Portugal	Critical Software	300
Romania	Conflux	80
Sweden	RUAG, APR Technologies	1,063
Switzerland	RUAG	838
United Kingdom	Airbus DS, TAS, ESP, Qioptiq, EADS IW, SEA, University of Bath	5,915
TBD		615
Total		18,225



NEOSAT

2014				2015				2016				2017				2018				2019				2020			
Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4

PHASE B

Complementary Definition

Pre-developments

Subcontractor Selection

IPC contract proposal

PHASE C/D

Complementary technologies

Development and Qualification

Platform qualification reviews

Candidate PFM (s) Mission(s) Review

PFM(s) Manufacturing (including Development & AIT)

Launch

IOV

Exploitation of telemetry data.