



Small GEO Satellite initiative (ARTES-11)

Programme objectives and implementation

29 June 2006 – Rottach-Egern

ARTES-11 Workshop

- ARTES-11 programme was created following request from a group of Small Satellite System integrators led by OHB
- ARTES-11 programmatic framework was defined and approved in preparation of last ESA Council at Ministerial level
- Strong support to idea from Delegations and Industry was confirmed with a high level of contributions to the ARTES-11 Programme

- To develop a European cost-effective platform product line addressing the segment of small GEO telecommunications satellites
- Fly a mission making use of the first small GEO platform PFM in order to validate the platform in orbit and to provide in-flight heritage

- To develop a European cost-effective platform product line addressing the segment of small GEO telecommunications satellites
 - Segment of small TC satellites was defined as supporting Payload < 300 kg and < 3 kW
 - Complementary to existing European product lines
 - Enable direct negotiation with industrial core team rather than open competition
- Fly a mission making use of the first small GEO platform PFM in order to validate the platform in orbit and to provide in-flight heritage
 - Representative payload
 - Mission selection by ESA
 - Decision by ARTES-11 Participating States

- Product requirements defined by Industrial core team in line with ARTES-11 programme constraints
- Time to market for the new platform product line is essential in view of competitive offers
 - This calls for a fast implementation of ARTES-11 programme

- The development of a cost-effective product requires the competitive selection of equipment suppliers
 - Most competitive conditions for equipment
 - Competition open to all equipment suppliers (even if not from ARTES-11 Participating States)
 - Maximise chances of competition
 - Process supervised by ESA with application of ESA Code of Best Practices
- Long-Term Agreements (LTA) will be required to protect interests of the industrial core team and equipment suppliers
 - Ensure production capabilities and conditions in line with business plan
 - Ensure investments are matching with some business prospects

- Fair contribution rather than fair return, meaning that the adjustment of contributions is done a-posteriori, in view of industrial contracts
 - Enables the competitive selection of equipment suppliers without the constraints of geographical return
- Some elements of co-funding were introduced in the ARTES-11 programme
 - Platform: co-funding by Industry (core team / equipment suppliers) of activities that lead to recurring business
 - Mission: funding by user / operator of recurring elements (e.g. launch

- Currently Platform Phase A is starting that will define a baseline for the platform and confirm its feasibility
- Platform Phase B is planned to start before end 2006
- During Phase B the selection of equipment suppliers will be carried out
- Mission selection will be carried out ASAP. Different options being considered.