

QB50 Project

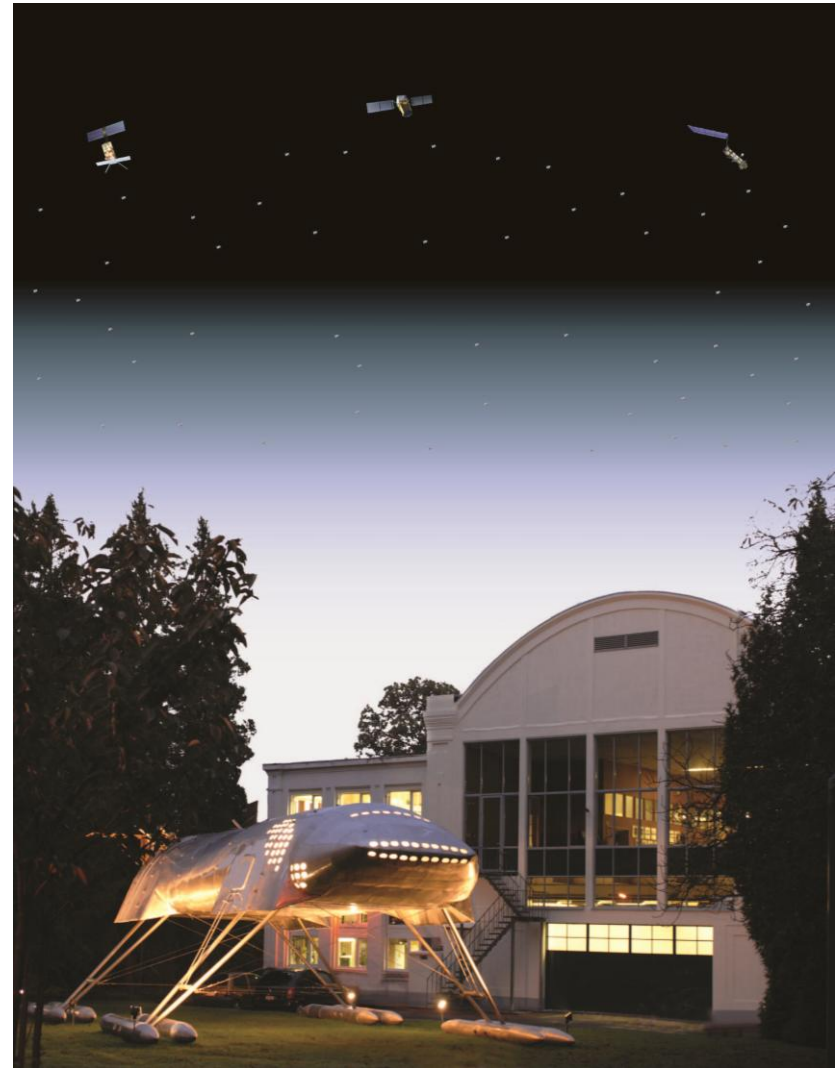
Schedule, Deliverables, Communication Channels and Project Reviews

C. O. Asma

3rd QB50 Workshop

2 Feb 2012

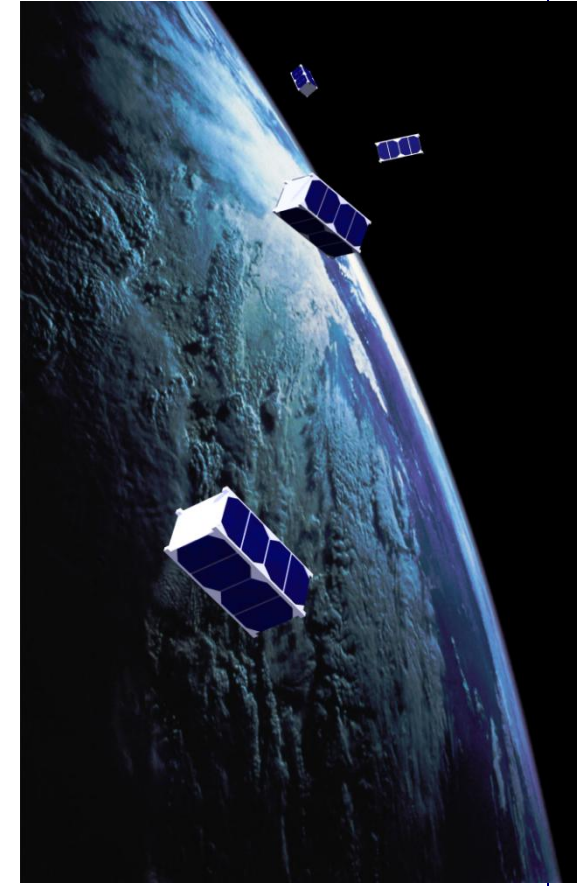
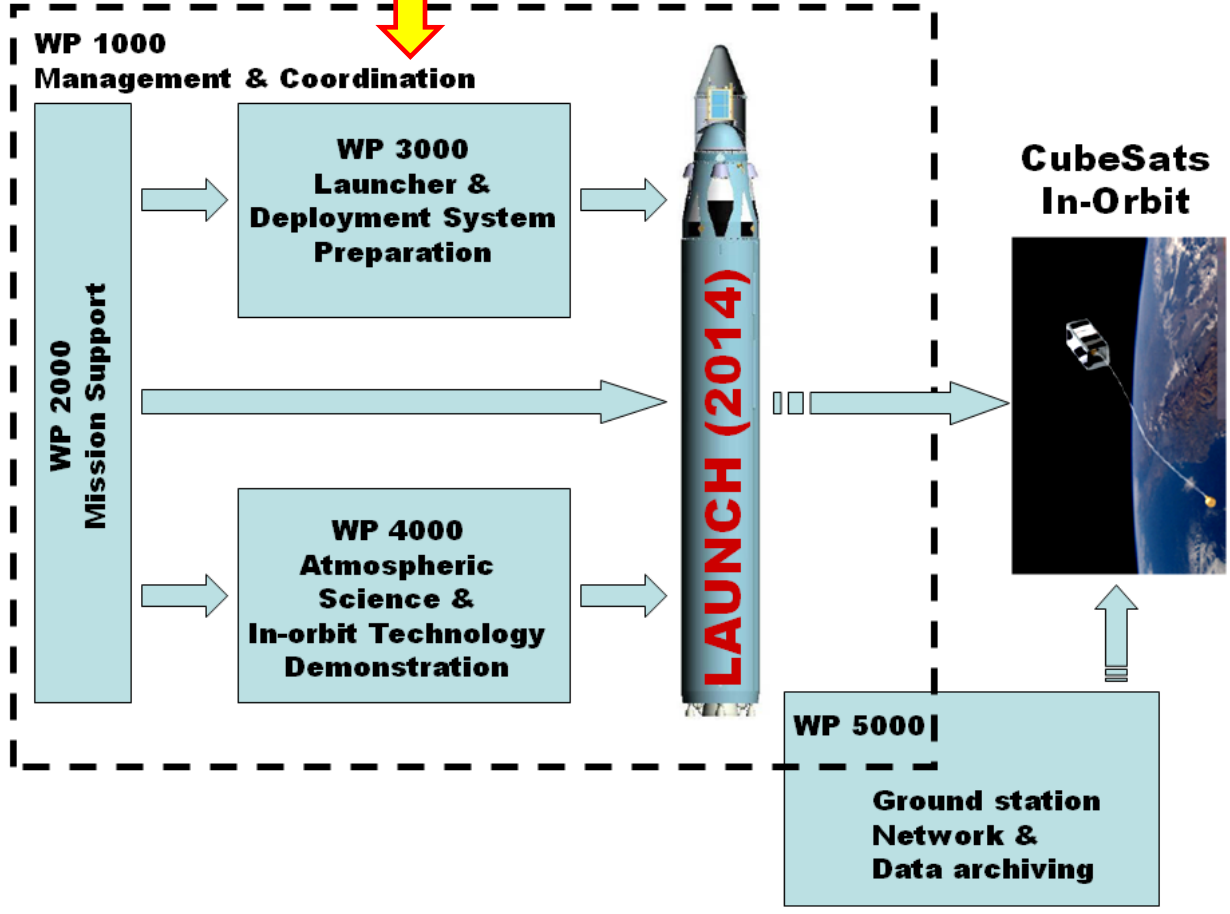
von Karman Institute



Work Logic



CubeSat Building



Milestones



- MS1 Kick-Off
- MS2 Call for Proposals
- MS3 Proposal Submission
- MS5 CubeSat Selection
 - D1200b Selected CubeSats
 - D4200a IOD Descriptions
- M7 PDR
- M9 CDR
- M10 Sensor shipment
- M13 FRR
- M15 Launch

Milestone number ⁵⁹	Milestone name	WP number ⁵⁹	Lead beneficiary number	Delivery date from Annex I ⁴⁸
MS1	Kick-Off	WP110	1	1
MS2	Call for CubeSat Proposals	WP140	1	1
MS3	Submission of CubeSat Proposals	WP140	1	3
MS4	Communications protocols	WP510	1	4
MS5	CubeSat selection	WP140	1	4
MS6	Launcher Agreement	WP312	1	6
MS7	PDR and ICD	WP140	1	12
MS8	Precursor launch	WP314	2	16
MS9	CDR and ICD	WP140	1	18
MS10	Sensor shipment	WP411	4	18
MS11	CubeSat Flight Model	WP140	1	28
MS12	Pre-launch campaign and Workshop	WP313	2	29
MS13	FRR	WP140	1	30
MS14	CubeSat shipment	WP330	2	32
MS15	QB50 Launch	WP315	2	36
MS16	Final Workshop	WP130	1	42

Schedule



15 February 2012	Issue by VKI of the 'Call for CubeSat Proposals for QB50'
31 March 2012	Deadline for submission of CubeSat proposals to VKI
1 - 30 April 2012	Proposal clarification period/evaluation of the proposals
2 - 3 May 2012	Meeting of the Selection Committee at VKI, selection of 50 CubeSats
4 May 2012	Notification of selection to CubeSat teams
1 October 2012	Securing the funding for CubeSat development by CubeSat teams and Submission by participating CubeSat teams of the signed Contractual Agreement to VKI

Sep 2012 - Oct 2014

CubeSat development at universities

March 2013	Preliminary Design Review (PDR) of all 50 CubeSats and the deployment system
July 2013	Shipment of the standard sensors for atmospheric research from MSSL to universities
November 2013	Critical Design Review (CDR) of all 50 CubeSats and the deployment system

Tentative Schedule



Nov-Dec 2014	CubeSat flight models environmental testing
January 2015	CubeSat flight models delivery to ISIS
February 2015	Launch campaign preparation workshop at ISIS
February 2015	Flight Readiness Review (FRR) at ISIS
February 2015	Shipment of CubeSat flight models from ISIS to the launch site
1 Mar-mid Apr 2015	Launch campaign
mid Apr 2015	Launch
mid Apr - mid Jul 2015	QB50 flight operations
January 2016	Final QB50 Workshop

Expected Deliverables



- A letter showing evidence of the timely provision of funding
- A contractual agreement between the CubeSat building team and VKI
- Progress reports every 3 months (template will be provided)
- All presentations / dissemination materials produced during the course of the project, with acknowledgment and disclaimer phrases (template will be provided)
- Technical documents that are necessary for the major reviews [A full list is TBC]
- Data package of all system level environmental tests
- Documented evidence of flight readiness of the CubeSat
- Participation in the major Project reviews (PDR, CDR, FAR)
- Provide the flight ready CubeSat
- Operate their CubeSat in orbit (expected lifetime is about 3 months)
- Provide science and selected housekeeping data to the QB50 Data Processing and Archiving Centre (DPAC) after the end of operations

Contact



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DISSEMINATION



- QB50 web site is www.qb50.eu
- The QB50 Newsletters No. 1 and 2 are already published
- QB50 Newsletter will be published every two months

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- QB50 information dissemination list qb50@vki.ac.be
- QB50 Workshops (next: 4th QB50 Workshop, 12-13 June 2012)
- Publish articles, give presentations, **inform us!**
- **Acknowledge QB50 Project**

