Coordination unit CU6: spectroscopic processing 2nd workshop 12-13 October 2006 Royal Observatory of Belgium - Brussels

* Status of the RVS design

***** Status of the consortium

***** Status of CU6

* Objectives of the workshop

* Phases/deliverables for a generic development cycle

***** Master schedule for 2006-2008

***** Objectives and agenda for cycle 2

D . Katz

Status of the RVS design

RVS design (1)

* <u>Agenda</u>

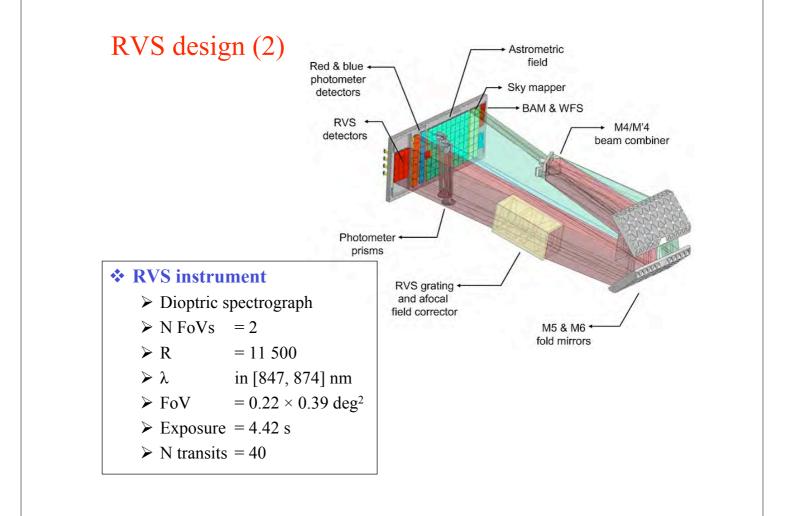
> Oct. 05: Industrial consortia answers (Alcatel/Alenia and Astrium)

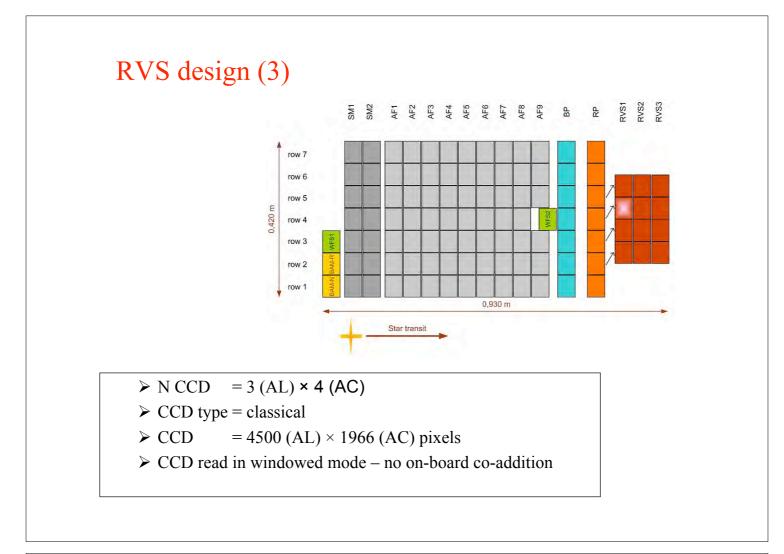
> Dec. 05: Recommendation by the evaluation board to select Astrium

Feb. 06: <u>Astrium selected as prime contractor.</u>

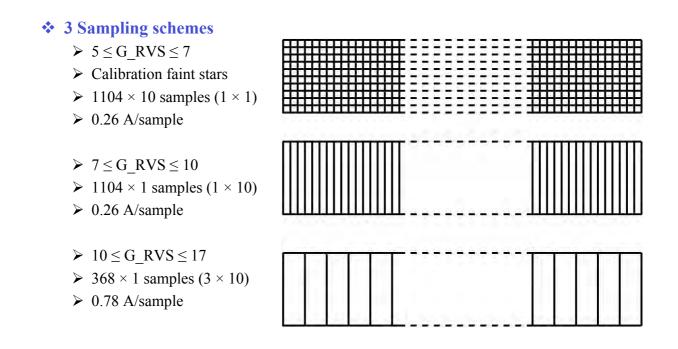
➤ March 06: Start of phase B2 (~1 year)
 → optimisation of the RVS design

> July 06: RVS design optimisation 90% completed





RVS design (4)



Status of the Consortium

Gaia Data Processing & Analysis Consortium status

* Agenda

- Q1 05: Community express interests in Gaia processing via Letters of Intent (LoI)
- > April 05: Start of the definition of a Gaia data processing consortium
- mid-June 06: Creation of the DPAC
 ✓ Start drafting the answer to the AO
- mid-Nov 06: AO released by ESA
- mid-Dec 06: DPAC answers the AO
- > early-Jan 07: "Negotiation" with ESA

***** DPAC-CU6 activity kick-off at workshop 2.

Status of CU6

Status of CU6

- ***** Structure
 - \geq 47 members

***** Work Breakdown Structure (WBS)

➢ 61 out of 63 WPs taken care of

***** Actions

- ➤ List of TWP and WP frozen
- ➤ 49 out of 54 description pages received
- revision of the description pages
- ved \rightarrow In progress
 - \rightarrow In progress

 \rightarrow Completed

 \rightarrow Completed

* Agenda, deliverables, etc...

 \succ Write first version of SDP

- Software Development Plan GAIA-C6-SP-OPM-DK-003-1
- ➢ CU6 workshop 2

Objectives of the workshop

Objectives of the 2nd CU6 workshop

* Present in details the "structure" of a development cycles

- > Phases and deliverables: e.g. specification, design, ...
- Recommended tools: e.g. subversion, netbeans, mantis, ...
- ▶ Protocol: e.g. code delivery, code modification, ...
- > Detailed presentations on first day (GAIA-C1-SP-CNES-TL-001)

Review, discuss and agree plans for Cycle 2 (WP per WP)

- ➤ Deliverables
- ➤ Agenda

Phases & deliverables for a generic development cycle

Development cycle

✤ 6 months development cycle (in phase for all CUs):

Review previous cycle & agree plans for next cycle: Software Development Plan & workshop – 1 for CU6

- > **Define requirements:** Software Requirement Document 1 per DU
- Define design: Software Design Document 1 per DU
- Define test campaign: Software Test Plan Document 1 per DU
- > Implement software products
- > **Description of the software:** Software User Manual 1 per DU
- Delivery of the software
- > Integration, validation, test at CNES centre
- Summary of requests for test data (to CU2) and for auxiliary data (to CU8): Test & auxiliary data requirements document – 1 for CU6

Master schedule: 2006-2008

Master schedule 2006 - 2008

Cycle 2 [mid-Oct 06 – mid-May 07]

- Validate QA procedures
- > Specify requirements & design for all WPs (except multiple-transits)
- > Implement & deliver 7 firsts software products

♦ Cycle 3 [mid-May 07 – end-Nov 07]

- Implement & deliver all WPs (except multiple-transits)
- ➢ First end to end tests at CNES

* Cycle 4 [Dec-07 – end-May 08]

- Optimise all WPs (except multiple-transits)
- > Specify requirements & design multiple-transits

♦ Cycle 5 [June 08 – end-Nov 08]

- Implement & deliver all WPs
- Second end-to-end tests at CNES

Objectives & agenda: Cycle 2

Cycle 2

***** 2 different series of WPs

- > Specification, design, implementation, delivery, integration, tests
- Specification, design

First Series

- ✓ Host framework infrastructure
- \checkmark Normalisation to the continuum
- ✓ Wavelength scale & distortion
- ✓ Vr & vsini by CC in direct space
- ✓ Vr in Fourrier space
- ✓ Vr & vsini by MdM
- ✓ Vr & vsini by TODCOR-like meth.

***** Second series

- ✓ Spectra extraction
- ✓ Calibration
- ✓ Astrophysical zero point
- ✓ Coarse characterisation of sources
- ✓ Detailed first look and validation: single transit
- \checkmark Science alerts
- ✓ Assess source spectroscopic stability/variability

Cycle2: agenda

First series

- ✓ 10 Nov 06: Delivery of Software Requirement Document
- ✓ 8 Dec 06: Delivery of Software Design Document
- ✓ **30 March 07:** Delivery of:
 - Software Product
 - Performance Report Document
 - Software User Manual
- ✓ 11 May 07: Completion of the integration, validation and tests

Second series

- ✓ 15 Dec 06: Delivery of draft Software Requirement Document
- ✓ 15 Jan 07: Validation of draft Software Requirement Document
- ✓ 15 Jan 07: Delivery of draft Software Design Document
- ✓ 15 Feb 07: Validation of draft Software Design Document
- ✓ 16 March 07: Delivery of revised Software Requirement Document
- ✓ 13 Apr 07: Validation of revised Software Requirement Document
- ✓ 13 Apr 07: Delivery of revised Software Design Document
- ✓ 11 May 07: Validation of revised Software Design Document