

EXPReS SA2

Network Provision for a global e-VLBI array

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19 Participants in SA2

Proposal budget: 10 M€

Contract budget: 7,8 M€

EC contribution: 0,8 ME

Ratio total cost / EC contribution = 8,75 : 1

Timeframe: March 1 2006 – Feb 28 2009

Covers: only cost of connection and equipment.

STATUS = studies of feasibility for last-mile connection.



- **Already connected at 1 Gbps: 6 stations + correlator**

JIVE (6), WSRT, Onsala, Medicina, Torun, Jodrell Bank, Metsähovi

- **Expected in 2007:**

Effelsberg, Yebes, VIRAC, *4x Chinese tels.*, Arecibo, TIGO.

- **Expected later:**

Sardinia, Noto, HRAO, ATNF/ATCA.

- **To 10 Gbps: Onsala, Jodrell Bank, Metsähovi.**



- **Comments:**

Effelsberg: 1-10 Gbps fibre in place in 2007 (+ LOFAR)

Yebes: 2 Gbps after 40-m telescope completion in 2007

VIRAC: fibre in place

4x Chinese tels.: 1 Gbps local fibre, missing link to JIVE

Arecibo: 155 Mbps, up to 1 Gbps (2-3 hours/month)

TIGO: 1 Gbps local fibre, 64 Mbps to Europe

HRAO: 1 Gbps local (SKA) but poor to Europe

ATNF: 1 Gbps local fibre (telescopes – LBA correlator)



Expenses:

DELIVERABLES AT THE POSSIBLE MINIMUM COST !

- No expense yet: Onsala, Yebes, HRAO, INAF
- Little expense: Effelsberg (250 €)
- “Medium” expense: Metsähovi (~ 20 k€)
- Large expense: VIRAC (113 k€)
- Rest unknown

Note:

- Large expenses before EXPRReS: Metsähovi, Medicina



Summary

- Six telescopes and correlator already connected at 1 Gbps.
- Nine other telescopes have finished the feasibility study and are progressing to obtain (full) connectivity in 2007.
- BUT: still to solve the data transfer from China/SA to JIVE.
- Little expense (= EC “work”?) as of today for most partners.
- Most progress to be seen in 2007.

<http://www.jive.nl/dokuwiki/doku.php?id=expres:sa2>

<http://www.oan.es/expres/status.htm>

