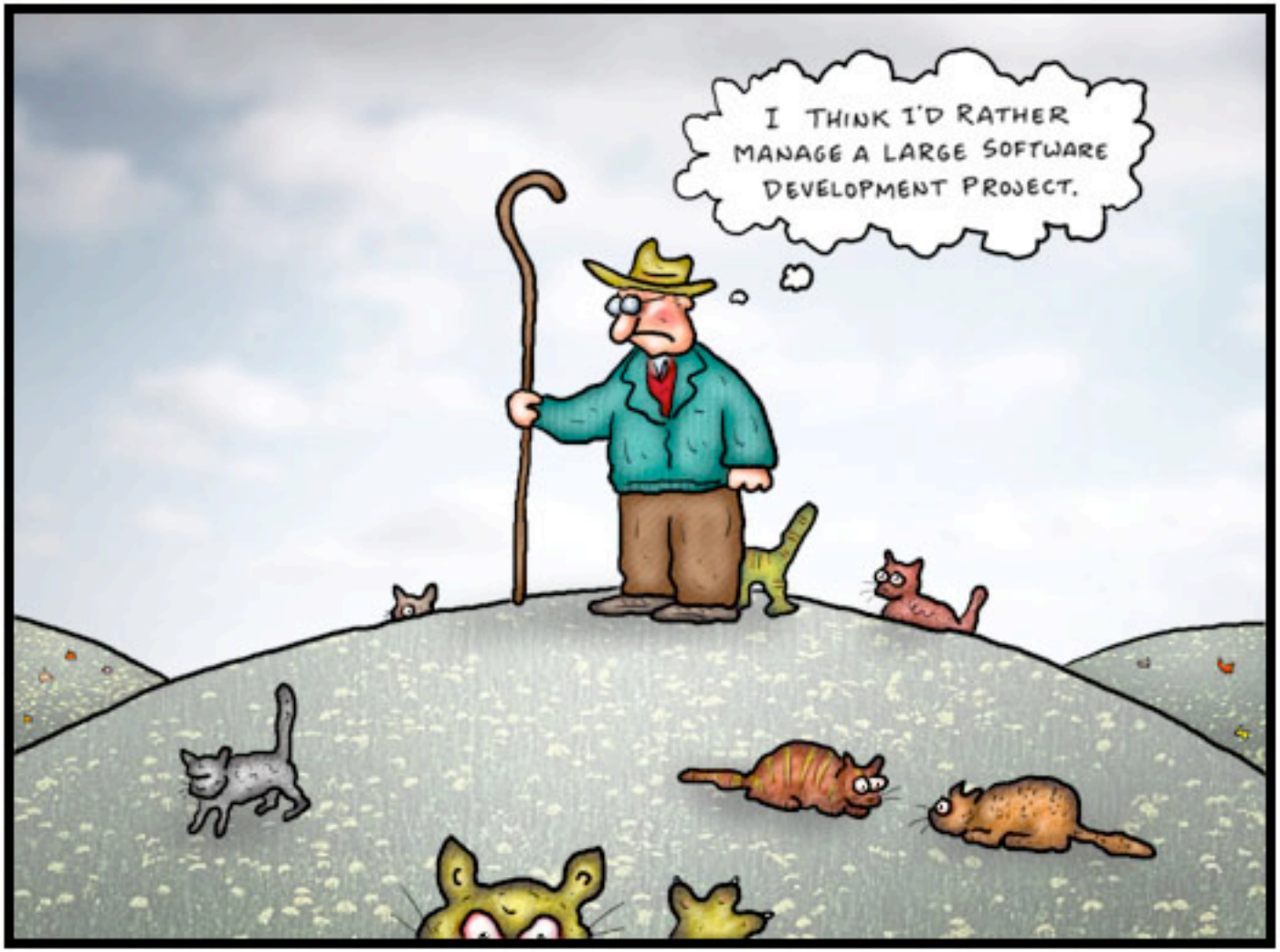
Goal of this meeting

Huib Jan van Langevelde, JIVE

DOCTOR FUN

Oct 2002



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The daydreams of cat herders

Huib Jan van Langeveld, JIVE

Goal of this meeting

- Set-up a sufficiently detailed work-package structure
  - Everybody can do their work independently
  - And produce 'eligible costs'
  - Requires agreement on man-months matrix
- More detailed goals and intermediate steps
  - In order to focus work (re-focusing is allowed)
  - And to be able to have metrics on progress
- Work out (bilateral) collaborations
  - Establish roles partners in sub-taks
  - And discuss expertise available
- Additional items:
  - Heads up on reporting
  - Financial issues, impact of late pre-financing
  - Telecons and next meeting

Looking from DoW

- **Description of Work is a contract with EC**
  - Signed by the coordinator (ASTRON)
  - On behalf of the RadioNet board
    - Governed by Consortium agreement
- **Contract to deliver 11 items (software, reports)**
    - Between 9 partners in ALBiUS
  - Can claim a contracted number of man-months
    - And should match with similar amount own effort
- **Within this context: follow your ambitions!**
  - But spirit should be collaborations across platforms/instruments

Participant name	JIVE	ASTRON	UCAM	ESO	MPG	NRAO	UOXF	UMAN	BORD	
Person-months:	26+ 18	13+ 13	12+ 10	18+ 12	6+ 0	12+ 9	12+ 9	15+ 12	12+ 9	126+ 92

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Money

scenario max 50% matching, rev5

	Part1	Part 2	Part 3	Part 4	Part 5	Part 6	Part 7	Part 8	Part 9	Total
Partner Short name	JIVE	ASTRON	UCAM	ESO	MPG	NRAO	UOXF	UMAN	BORD	
RTD rate	75	75	75	75	75	75	75	75	75	
Overhead rate (%)	60	60	60	60	60	60	60	60	60	
Overhead rate/year (€)		53,400			113,000					
Analytical a/c*	No	Yes	No	No	Yes	No	No	No	No	
Labour rate/year	50,000	89,400	49,700	50,000	75,000	47,300	62,000	49,500	50,000	
Labour rate/month	4,167	7,450	4,142	4,167	6,250	3,942	5,167	4,125	4,167	
Overhead rate/mont	- 0	4,450	- 0	- 0	9,417	- 0	- 0	- 0	- 0	
Man months (funded	18	13	10	12	0	9	9	12	9	92
Man months (funded	26	13	12	18	6	12	12	15	12	126
Personnel costs EC	108,333	96,850	49,700	75,000	37,500	47,300	62,000	61,875	50,000	588,558
participants pers co	75,000	96,850	41,417	50,000	- 0	35,475	46,500	49,500	37,500	432,242
Travel	9,000	4,500	3,000	4,500	3,000	6,500	3,000	3,500	3,000	40,000
Equipment										- 0
Materials										- 0
Other	3,000	3,000	2,000	3,000	3,000	2,000	2,000	2,000	2,000	22,000
Other direct costs	12,000	7,500	5,000	7,500	6,000	8,500	5,000	5,500	5,000	62,000
Indirect costs (EU)	72,200	57,850	32,820	49,500	56,500	33,480	40,200	40,425	33,000	415,975
indirec costs (part)	45,000	57,850	24,850	30,000	- 0	21,285	27,900	29,700	22,500	259,085
Subtotal	192,533	162,200	87,520	132,000	100,000	89,280	107,200	107,800	88,000	1,066,533
Sub-contract										- 0
Subcontracting	- 0	- 0	- 0	- 0	- 0	- 0	- 0	- 0	- 0	- 0
Total budget (ori)	192,533	162,200	87,520	132,000	100,000	89,280	107,200	107,800	88,000	1,066,533
real total budget	312,533	316,900	153,787	212,000	100,000	146,040	181,600	187,000	148,000	1,757,860
Requested contribut	144,400	121,650	65,640	99,000	75,000	66,960	80,400	80,850	66,000	799,900
contributed	168,133	195,250	88,147	113,000	25,000	79,080	101,200	106,150	82,000	957,960
EC fraction	46.2%	38.4%	42.7%	46.7%	75.0%	45.9%	44.3%	43.2%	44.6%	45.5%
share income	18.05%	15.21%	8.21%	12.38%	9.38%	8.37%	10.05%	10.11%	8.25%	100.00%
share of work	20.18%	11.93%	10.09%	13.76%	2.75%	9.63%	9.63%	12.39%	9.63%	100.00%
incl correction					5.4%					

Deliverables

Del. no.	Deliverable name	Lead Partner	target date
6.1.1	Final report on calibration of pilot experiment using interoperability framework	JIVE	21
6.1.2	Release of distributed ParselTongue	JIVE	21
6.2.1	New implementation of Global Fringe Fitting algorithm	NRAO	36
6.2.2	Direction dependent ionospheric, tropospheric, calibration to test data set	UMAN	21
6.2.3	Software for mosaic imaging including primary beam correction	ESO	25
6.2.4	Report on image plane polarization calibration effects	UCAM	19
6.2.5	Final report on the implementation of algorithms for image plane calibration in a distributed environment	ASTRON	30
6.2.6	Final report on new algorithms and observing strategies for astrometry	BORD	28
6.3.1	RFI mitigation software	MPI	19
6.3.2	Final report on Data Quality algorithms and excision methods	UOXF	36
6.3.3	Final report on models for extended sources	ASTRON	28

Flexibility…

- All above are in the DoW contract
  - Can be changed after convincing the board
  - Not a simple procedure for the coordinator
    - But typically happens after every annual report
  - Changing budgets is complicated
    - Budgets at some places consolidated at faculty level
  - Changing milestones is not desired
    - But wording has room for re-scoping
  - Shifting delivery dates a bit is relatively simple

- Defining sub-tasks for internal use
  - Can be done relatively freely
  - And can move around between partners

- But keep it simple!
  - Was already agreed in proposal stage by all partners
  - And looked OK in kick-off meeting
  - Availability of manpower is an argument that holds

Workplan matrix

- **Guiding principle: make Matrix as empty as possible**
  - For easiest project management, and clear responsibilities
  - Already sparse: only 24/117 filled

proposal dow rev5

	task			4	1	18	15	5	23	19	6	20		total
			subtask	JIVE	ASTRON	UCAM	ESO	MPG	NRAO	UOXF	UMAN	BORD		
1	Interoperability			35	0	0	18	0	0	0	3	0		56
1	Portable Algorithms	1.1	Framework	15	0		6							21
		1.12	Data structures				12							12
		1.2	Distributed ParselTongue	20							3			23
2	Calibration algorithr			9	11	12	12	0	21	6	24	21		116
		2.1	Global Fringe fitting	6					15		3			24
2	Image plane calibra	2.2.1	Ionospheric/tropospheric								12			12
		2.2.2	Primary beam/mocaicing				12		6		6			24
		2.2.3	Polarization			12								12
		2.2.4	Distributed processing		11					6				17
		2.3	Astrometric positions	3							3	21		27
3	Large datasets			0	15	10	0	12	0	15	0	0		52
3	Quality control	3.1.1.	RFI mitigation					12						12
		3.1.2.	Data Inspection		6					9				15
		3.1.3	Data Excision			10				6				16
	Source Parametrisa	3.2.1	Source parametrization		9									9
		3.2.2	Source extraction		0									0
		3.3	Source Modelling		0									0

Total		44	26	22	30	12	21	21	27	21		224
proposal	EC funded	26	13	12	18	6	12	12	15	12	126	218
	partner contributed	18	13	10	12	0	9	9	12	9	92	

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Gantt chart in proposal

- Not much of this division work visible
  - But reduced the deliverables to 1 per subtask
  - And only 1 or 2 per partner
  - So each partner is primary responsible for 1 deliverable

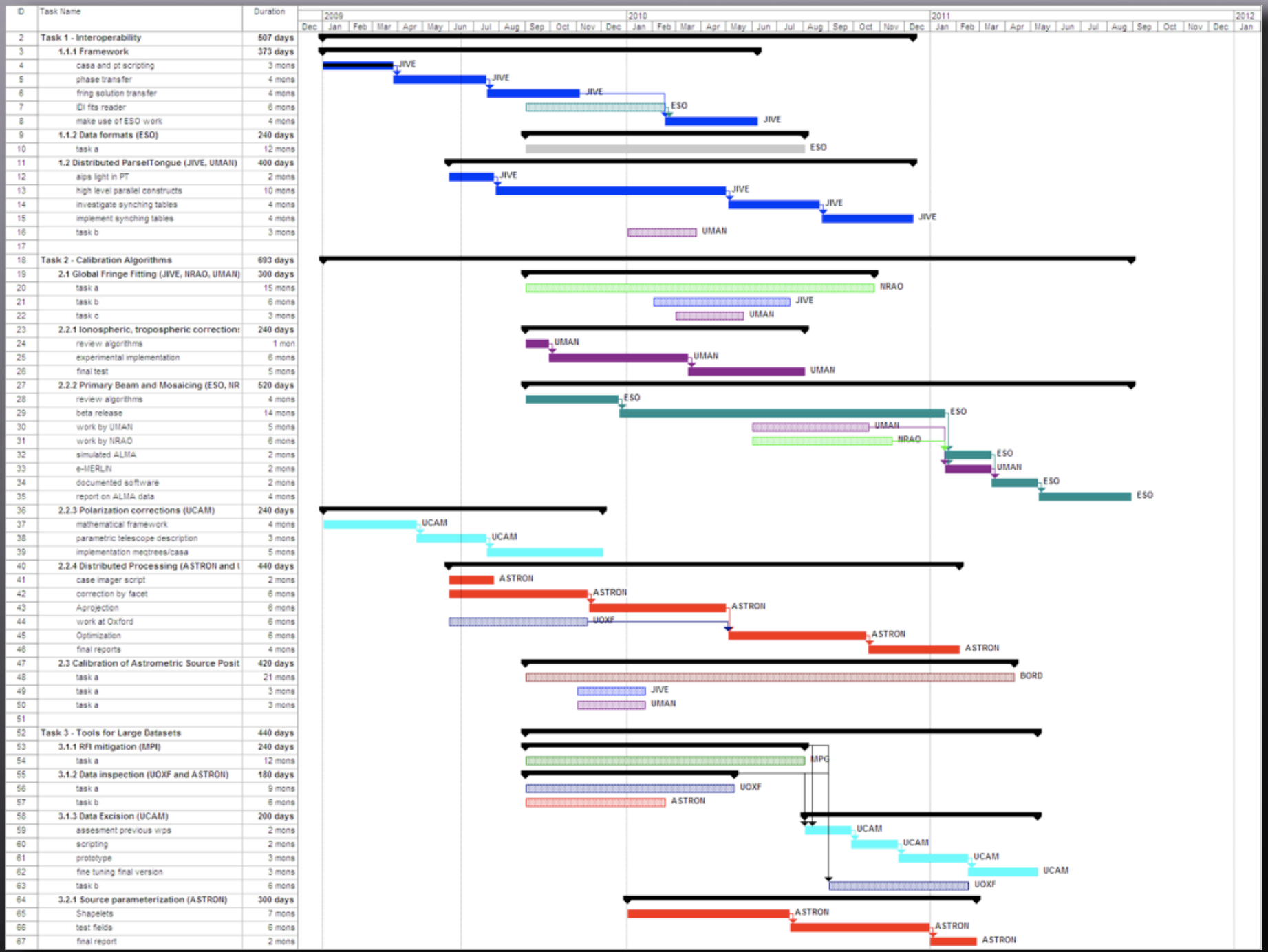
ID	Task Name	Duration	Start
1			
2	**Task 1 - Interoperability**	**642 days**	**Thu 1-1-09**
3	**1.1 Portable Algorithms**	**600 days**	**Mon 2 3 09**
4	1.1.1 Interoperable framework (JIVE, ESO)	18 mons	Mon 2-3-09
5	1.1.2 Data formats (ESO)	12 mons	Mon 19-7-10
6	1.2 Distributed ParselTongue (JIVE, UMAN)	20 mons	Thu 1-1-09
7			
8	**Task 2 - Calibration Algorithms**	**750 days**	**Thu 1-1-09**
9	2.1 Global Fringe Fitting (JIVE, NRAO, UMAN)	18 mons	Thu 1-7-10
10	**2.2 Image Plane Calibration**	**608 days**	**Thu 1-1-09**
11	2.2.1 Ionospheric, tropospheric corrections (UMAN)	12 mons	Tue 1-9-09
12	2.2.2 Primary Beam and Mosaicing (ESO, NRAO, UMAN)	24 mons	Thu 1-1-09
13	2.2.3 Polarization corrections (UCAM)	12 mons	Wed 1-7-09
14	2.2.4 Distributed Processing (ASTRON and UOXF)	12 mons	Tue 1-6-10
15	2.3 Calibration of Astrometric Source Positions (BORD, JIVE, UM	21 mons	Wed 1-7-09
16			
17	**Task 3 - Tools for Large Datasets**	**720 days**	**Thu 1-1-09**
18	**3.1 Automated Data Quality Control**	**720 days**	**Thu 1-1-09**
19	3.1.1 RFI mitigation (MPI)	18 mons	Thu 1-1-09
20	3.1.2 Data inspection (UOXF and ASTRON)	18 mons	Thu 1-1-09
21	3.1.3 Data Excision (UCAM)	18 mons	Thu 20-5-10
22	**3.2 Source Parameterization**	**180 days**	**Thu 1-7-10**
23	3.2.1 Source parameterization (ASTRON)	9 mons	Thu 1-7-10

Current process

- Define goal of each task in concrete terms
  - document or software, instrument and platform
    - what will you be able to do that is not available now?
    - which algorithms are you going to evaluate?
- Ownership primary partner
  - Must herd his own cats!
- Define sub-task activities
  - simply verifiable milestones
  - interrelation other partners
    - use expertise, for example to test data from different instrument
- Plan for manpower
  - Start date: Is this being delayed by late pre-financing?
  - Resource levelling may required some staggered tasks

wp	wp name	number	name of milestone	partner	effort	accum	dow	elaps	start	end	dow
1.1.1.	Framework	6.1.1	interoperable calibration	JIVE		21	21	25	1	26	
			casa and pt scripting	JIVE	3			3	1	4	
			phase transfer	JIVE	4			4	4	8	
			fring solutions transfer	JIVE	4			4	8	12	
			IDI fits reader	ESO	6			6	8	14	
			using ESO work	JIVE	4			12	14	26	
1.1.2	Data structures		-	ESO		12	12	12	9	21	
			a	ESO	12			12	9	21	
			b	ESO	0			0	21	21	
			c	ESO	0			0	21	21	
1.2	Distributed ParselTongue	6.1.2	NEW	JIVE		23	23	23	6	29	
			Integrate aips light into PT	JIVE	2			2	6	8	
			high level constructs	JIVE	10			10	8	18	
			b	UMAN	3			3	8	11	
			investigate synchronizing tables	JIVE	4			4	18	22	
			implement synchronizing tables	JIVE	4			4	11	15	
2.1	Global Fringe fitting	6.2.1	fringe fitting	NRAO		24	24	15	9	24	
			a	NRAO	15			15	9	24	
			b	JIVE	6			6	12	18	
			c	UMAN	3			3	18	21	
2.2.1	Ionospheric/tropospheric	6.2.2	NEW	UMAN		12	12	12	9	21	
			review of algorithms	UMAN	1			1	9	10	
			experimental implementation	UMAN	6			6	10	16	
			final test	UMAN	5			5	16	21	
2.2.2	Primary beam/mocaicing	6.2.3	mosaicing	ESO		28	24	16	8	24	
			review existing algorithms	ESO	2			4	8	12	
			beta release	ESO	9			14	12	26	
			work by UMAN	UMAN	5			5	18	23	
			work by NRAO	NRAO	6			6	18	24	
			report on simulated ALMA	ESO	1			2	26	28	
			report on e-MERLIN data	UMAN	1			2	28	30	
			delivery of documented software	ESO	3			2	30	32	
			report on real ALMA data	ESO	1			4	32	36	
2.2.3	Polarization	6.2.4	everything	UCAM		12	12	15	9	24	
			mathematical framework	UCAM	4			4	9	13	
			paremetrised telescope description	UCAM	3			6	13	19	
			implementation meqtrees/casa	UCAM	5			5	19	24	
2.2.4	distributed imaging	6.2.5	report on image plane cal	ASTRON		17	17	24	6	30	
			casa imager Mwimager script	ASTRON	1			2	6	8	
			Implement correction by facet	ASTRON	3			6	8	14	
			Aprojection	ASTRON	3			6	14	20	
			work at Oxford	UOXF	6			6	14	20	
			Optimaization	ASTRON	3			6	20	26	
			final report	ASTRON	1			4	26	30	
2.3	Astrometric positions	6.2.6	new methods	BORD		27	27	21	9	30	
			a	BORD	21			21	9	30	
			b	JIVE	3			3	12	15	
			c	UMAN	3			3	15	18	
3.1.1.	RFI mitigation	6.3.1	enabled	MPG		12	12	12	9	21	
			a	MPG	12			12	9	21	
			b	MPG	0			0	21	21	
			c	MPG	0			0	21	21	
3.1.2.	Data Inspection	6.3.2	data quality	UOXF		15	15	9	9	18	
			a	UOXF	9			9	9	18	
			various tasks	ASTRON	6			6	9	15	
			b	UOXF	0			0	18	18	
			c	UOXF	0			0	18	18	
3.1.3	Data Excision			UCAM		12	16	10	24	34	
			assesment previous wps	UCAM	2			2	24	26	
			scripting	UCAM	2			2	26	28	
			protype	UCAM	3			3	28	31	
			task a	UOXF	6			6	24	30	
			tuning final deliverable	UCAM	3			3	31	34	
3.2.1	Source parametrization	6.3.3	extended sources	ASTRON		9	9	15	13	28	
			GSM with shapelets	ASTRON	4			7	13	20	
			test fields	ASTRON	4			6	20	26	
			final report	ASTRON	1			2	26	28	

partner	here	matrix	ok
JIVE	44	44	0
ASTRON	26	26	0
UCAM	22	22	0
ESO	34	30	-4
NRAO	21	21	0
UMAN	27	27	0
UOXF	21	21	0
MPG	12	12	0
BORD	21	21	0


ID
Task Name
Duration
2009
2010
2011
2012
2 Task 1 - Interoperability 507 days
3 1.1.1 Framework 373 days
4 casa and pt scripting 3 mons
5 phase transfer 4 mons
6 fring solution transfer 4 mons
7 IDI fits reader 6 mons
8 make use of ESO work 4 mons
9 1.1.2 Data formats (ESO) 240 days
10 task a 12 mons
11 1.2 Distributed ParselTongue (JIVE, UMAN) 400 days
12 aips light in PT 2 mons
13 high level parallel constructs 10 mons
14 investigate synching tables 4 mons
15 implement synching tables 4 mons
16 task b 3 mons
17
18 Task 2 - Calibration Algorithms 693 days
19 2.1 Global Fringe Fitting (JIVE, NRAO, UMAN) 300 days
20 task a 15 mons
21 task b 6 mons
22 task c 3 mons
23 2.2.1 Ionospheric, tropospheric correction 240 days
24 review algorithms 1 mon
25 experimental implementation 6 mons
26 final test 5 mons
27 2.2.2 Primary Beam and Mosaicing (ESO, NR 520 days
28 review algorithms 4 mons
29 beta release 14 mons
30 work by UMAN 5 mons
31 work by NRAO 6 mons
32 simulated ALMA 2 mons
33 e-MERLIN 2 mons
34 documented software 2 mons
35 report on ALMA data 4 mons
36 2.2.3 Polarization corrections (UCAM) 240 days
37 mathematical framework 4 mons
38 parametric telescope description 3 mons
39 implementation meqtrees/casa 5 mons
40 2.2.4 Distributed Processing (ASTRON and I 440 days
41 case imager script 2 mons
42 correction by facet 6 mons
43 Aprojection 6 mons
44 work at Oxford 6 mons
45 Optimization 6 mons
46 final reports 4 mons
47 2.3 Calibration of Astrometric Source Posit 420 days
48 task a 21 mons
49 task a 3 mons
50 task a 3 mons
51
52 Task 3 - Tools for Large Datasets 440 days
53 3.1.1 RFI mitigation (MPI) 240 days
54 task a 12 mons
55 3.1.2 Data inspection (UOXF and ASTRON) 180 days
56 task a 9 mons
57 task b 6 mons
58 3.1.3 Data Excision (UCAM) 200 days
59 assesment previous wps 2 mons
60 scripting 2 mons
61 prototype 3 mons
62 fine tuning final version 3 mons
63 task b 6 mons
64 3.2.1 Source parameterization (ASTRON) 300 days
65 Shapelets 7 mons
66 test fields 6 mons
67 final report 2 mons
JIVE
ESO
UMAN
NRAO
UOXF
ASTRON
BORD
MPG
UCAM

Goal

- Produce as many “fact-sheets” as possible during meeting
  - Collect them on the wiki
- Try to discuss specific points in your talks
  - Use case for the activity
  - Sub-tasks and associated milestones
  - Man-month effort and elapse time
  - Start date and available manpower
  - Relation with other partners
  - Management and ownership
- Will try to update Gantt chart
- But of course: discussion of real issues more important!

Other issues

- Communication
  - Distribution list, or actually two
- First quarterly report is due
  - Will need to file progress report
  - E-mail is going round
- Next meeting
  - Should not be before Jan 2010? Volunteers?
- Must hold a few telecons

Quarterly reports due June 26

- **Best done now!**

na:reporting:wp_6_period_1 - FP7 Wiki http://www.radionet-eu.org/fp7wiki/doku.php?id=na:reportin...

Achievements in reporting period:

- List of working documents
- List of activities organised during reporting period
- Meetings attended – both meetings for NA organisation or meetings on behalf of RadioNet

Problems / Issues

- Issues - organisational, administrative or other problems foreseen
- Red flags - major problems

Forward Look

- Plan for next quarter/half year– 3 and 6 month outlook, more detail in first 3 months (including budget)
- Expected milestones/deliverables
- Expenditures - equipment, material and services
- Person month spent/to be spent until next EC Report
- Number of Persons working in JRA