

FP7- Grant Agreement no. 283393 – *RadioNet3*

Project name: Advanced Radio Astronomy in Europe

Funding scheme: Combination of CP & CSA

Start date: 01 January 2012

Duration: 48 month



Deliverable D15.2

**Providing access of 238 hours to the
infrastructure Effelsberg**

Due date of deliverable: 2014-06-30

Actual submission date: 2014-06-30

Deliverable Leading Partner: MAX PLANCK GESELLSCHAFT ZUR FOERDERUNG
DER WISSENSCHAFTEN E.V. (MPG)

1 Document information

Document name:	Providing access of 238 hours to the TNA – Effelsberg infrastructure
Type	Other
WP	15
Authors	Alex Kraus (MPIfR)

1.1 Dissemination Level

Dissemination Level		
PU	Public	X
PP	Restricted to other programme participants (including the Commission Services)	
RE	Restricted to a group specified by the consortium (including the Commission Services)	
CO	Confidential, only for members of the consortium (including the Commission Services)	

1.2 Content

1	Document information	2
1.1	Dissemination Level	2
1.2	Content.....	3
2	Description of the TNA deliverable.....	4
2.1	Information about the TNA-Effelsberg facility.....	4
2.2	Information about the provided access in the period (01/07/2013-30/06/2014)	5
2.3	Information about the financial EC contribution to the travel.....	6

2 Description of the TNA deliverable

2.1 Information about the TNA-Effelsberg facility

The 100-m radio telescope of the Max-Planck-Institut für Radioastronomie (MPIfR) is a unique European astronomical facility that combines superb sensitivity and wide frequency coverage with distinct versatility, making the telescope not only a cutting edge instrument for front-line research but also a testbed for emerging and future technology. With its specs, this extremely flexible telescope is only rivalled by the Green Bank Telescope in the US, the only other fully steerable 100-m-class telescope in the world. The telescope is located in a protected valley near Bad Münstereifel-Effelsberg and can be used to observe radio emission from celestial objects in a wavelength range from 90 cm (300 MHz) down to 3.5 mm (86 GHz).

Observer's access to the Effelsberg Radio Observatory with its 100-m telescope is awarded on the basis of successful observing proposals, subject to a peer review procedure by a TAC (see below). To facilitate the proposal preparation the MPIfR has adopted the web-based proposal tool "North Star" which was developed by the FP6 NA2 (Synergy) program. The proposers are informed about the success of their application (with detailed feedback) soon after the meeting of the TAC. Proposals selected for observation are scheduled as soon as possible (normally within 3-6 months). "Target-of-Opportunity"-proposals can be submitted at any time.

The TAC, the "Programm Komitee Effelsberg" (PKE), currently consists of three members elected from the scientific staff of the institute, and five experts (2 Germans + 3 Europeans) from outside the MPIfR. They meet face-to-face three times per year. During these meetings the PKE judges the scientific merit and technical feasibility of each proposal and assigns a certain grade and – if necessary – a change of the observing time granted. This procedure is the same, regardless of the origin of the proposers or their observing experience. Members of the PKE, who are co-investigators on a project, are not participating in the assessment of the corresponding proposal. After the meeting, the proposers receive a notification about the assessment including the grade, amount of time granted, the comments of the referees, and – if applicable – scheduling information.

External users are offered support by specialised and experienced local staff at all project stages: scientific and technical support for the preparation of the proposal, during the observations as well as during the data reduction process. In addition, technical staff at the radio observatory (receiver engineers, telescope operators, etc.) is available at any time to ensure successful data taking. In some cases, remote and absentee observations have been made possible by the Effelsberg staff (e.g. for projects 78-09, 57-12, 21-12).

Through the financial aid of the current TNA proposal, a (second) dedicated support scientist has been hired who is especially looking after the (most requested) spectroscopic mode of observations. Users who gain access to the telescope can also count on the help of scientists ("friends of observers") from the institute's headquarters in Bonn who are experienced in the corresponding observing modes (spectroscopy, continuum, pulsars, and VLBI). Furthermore, the MPIfR provides external users with transportation from Bonn to the telescope site (~40 km distance), en-suite accommodation at the observatory (for one or two observers per project), a well-equipped library, office space, and computer access. Outside the TNA program, visitors have to pay for their own travel expenses and the costs of local accommodation.

2.2 Information about the provided access in the period (01/07/2013-30/06/2014)

Date of access	Project acronym	Name (institute) of the TNA user group leader	Number of the TNA users	Provided access [hours]
Aug 3 & 10, 2013	21-12	Diego Tucillo, Santander University, Spain	1	6
Sep & Dec 2013	57-12	Viktor Toth, Eötvös University Budapest, Hungary	1	27
Nov 20, 2013	72-13	Andrea Tarchi, INAF Cagliari, Italy	1	4
Dec 9-16, 2013	92-12	Alvaro Hacar Gonzalez, University of Vienna, Austria	1	47
Dec 2013 – Jun 2014 (many slots)	78-09	Karl-Heinz Mack, INAF Bologna, Italy	1	110
Mar 11-14, 2014	111-13	Wim Ubachs, Vrije Universit�t Amsterdam, The Netherlands	2	15
May / Jun 2014 (5 slots)	15-14	Andrzej Szary, University of Zielona Gora, Poland	2	27
Jun 26/27, 2014	21-13	Jaroslav Kijak, University of Zielona Gora, Poland	2	17
	Total projects 8		Total users 11	Total access 253 hrs

The detailed information about the committee providing access, projects and selection is given in the TNA database of the periodic report.

2.3 Information about the financial EC contribution to the travel

The table below shows the estimated travel costs. It is a responsibility of the TNA leader to allocate and approve a travel support (see estimated support).

The travel budget is allocated by the RadioNet3 beneficiary 5 (JIVE). Therefore, the exact costs will be presented by JIVE at the 1st periodic report.

Project acronym	Person name (institute)
92-12	Alvaro Hacar Gonzalez, University of Vienna, Austria
111-13	Mario Dapra, Vrije Universiteit Amsterdam, The Netherlands
15-14	Wojciech Lewandowski, University of Zielona Gora, Poland
21-13	Slawomir Białkowski , University of Zielona Gora, Poland

Copyright

© Copyright 2014 RadioNet3

This document has been produced within the scope of the RadioNet3 Projects.

The utilization and release of this document is subject to the conditions of the contract within the 7th Framework Programme, contract no, 283393