SEVENTH FRAMEWORK PROGRAM

RESEARCH INFRASTRUCTURES

Grant Agreement Number 212891

Enabling Virtual Access

to

Latin-american Southern Observatories

http://www.evalso.eu

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[1] nature of the deliverable:
Dissemination: **R** = Report, **P** = Prototype, **D** = Demonstrator, **O** = Other

[2] Dissemination level
PU = Public
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).

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Contents

LIST OF ABBREVIATIONS

EVALSO Enabling Virtual Access to Latin-american Southern Observatories

1 PURPOSE AND SCOPE

The present document reports on the overall dissemination activities done by the EVALSO consortium and on the impact of the project on the research community. This includes the papers published in the proceeding of the conferences where the project has been presented.

1.1 Applicable documents

The following applicable documents form part of the present document to the extent specified herein. In the event of conflict between applicable documents and the content of the present document, the content of the present document shall be taken as superseding.

AD1 NA3-3 EVALSO WEB Evaluation

AD2 EVALSO, 212891, Grant agreement for: Combination of Collaborative projects & Coordination and support actions, Annex I - “Description of Work”, update 15/02/2011

2 EXECUTIVE SUMMARY

The overall dissemination approach that was set as part of the EVALSO proposal (see [AD2] section "*B.3.2 Plan for the use and dissemination of foreground*") has been implemented over the project development with only minimal changes and, mainly, adaptation to the actual schedule of the link availability.

Here below a short recap of the initial goals and the way they have been implemented, with references to more detailed explanations.

2.1 Use of already well-established outreach structures

Proposed: It is planned to use the already well-established outreach structure of ESO, including its widely distributed quarterly bulletin, "The Messenger"..

Implemented: the project featured several times on ESO as well as other project beneficiaries (REUNA, CLARA, etc) bulletins, web-sites, and other outreach means. Details are in section 4.

2.2 WEB site

Proposed Creation of an informative WEB site, in English, for the benefit of all scientific and general public. The site will link to and be linked by the sites of the participant entities. As soon as the link is available, live images from the sites in high quality can be made accessible.

Creation of a Spanish section targeted at the Chilean and, more in general, Latin American public with the aim to make the project effort more visible to the non-European involved community and to connect it to other initiatives improving and extending the relationship among the two areas.

Implemented: the EVALSO WEB

http://www.evalso.eu

became publicly accessible on **March 11th, 2008** and since then has been regularly updated with all news and dissemination material that has been produced by the project.

A separate report (see [AD1]) focuses on the web site implementation and usage.

After initial discussion, it was preferred to have a single site with a balanced set of articles, material, and events covering both languages.

2.3 Presence at Conferences

Proposed: The project will be advertised at at least three major conferences with worldwide attendance:

- The bi-annual conference of the International Society for Optical Engineering (SPIE) on Astronomical Telescopes and Instrumentation, 2008 and 2010 editions.
- The annual Astronomical Data Analysis Software and Systems (ADASS) conference, 2008,2009 and 2010 editions
- The tri-annual General Assembly of the International Astronomical Union (IAU), 2009 edition

Besides, the enhanced operational capabilities will be presented by means of posters in astronomical conferences devoted to transient phenomena like supernovae or gamma-ray bursts. Such conferences are typically announced with an anticipation of less than one year, and it is therefore not possible at the moment to provide here with a detailed list.

Implemented: the project has been presented to main conferences as SPIE (2008 and 2010), ADASS (2010), ICALEPCS (2009), as well as on several events and conferences, both for astronomies and for the networking and communications.
Section 4 provides a comprehensive list of all events and reference to papers.

2.4 Special Events

Although not initially planned, two major events have been/are being organized, as response to EC indications that have emerged during the second project review (2009), namely:

Proposed: Plan a big launch event for the network operations inauguration and a Latin American continental event which shows the different collaborations between Europe and Latin America in networking which supports science. EC investment should be made clear at those events.

Implemented:

- The EVALSO Launch event took place in Santiago on November 4th, 2010. Section 5 is devoted to a detailed report on this unique event.

- The second major event is currently in preparation and will be held in October in Brazil. Updated information will be available on the EVALSO Web site.

3 EVALSO IDENTITY

3.1 Logo

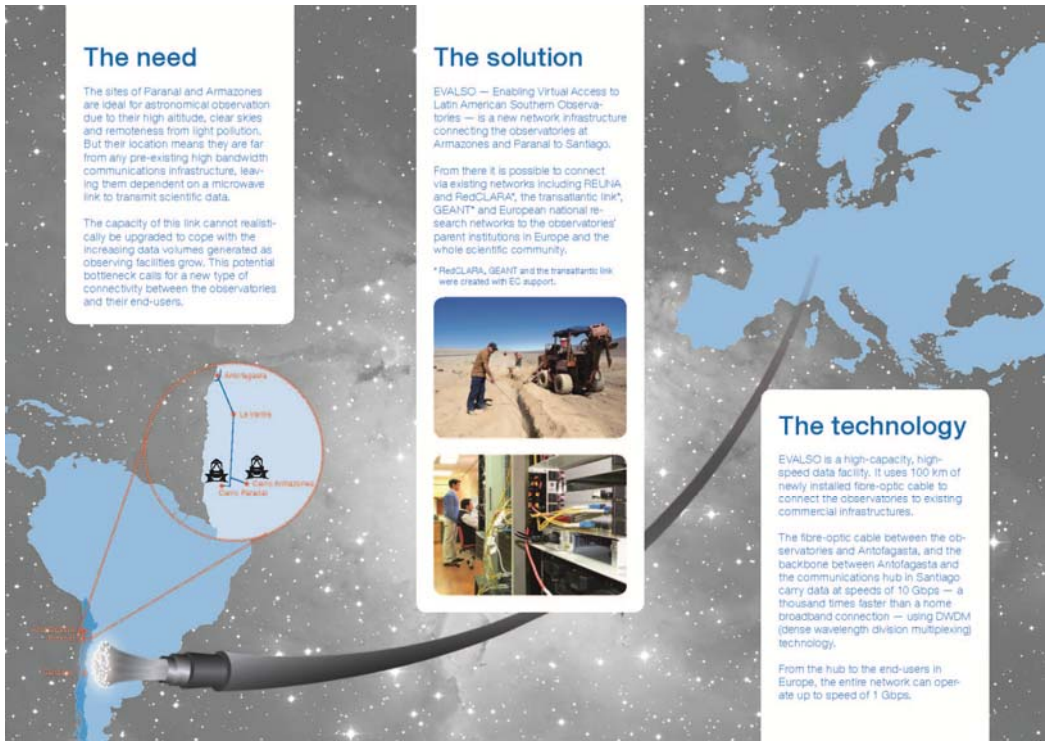
The logo was established at the beginning of the project and used consistently on documentation and web site.

3.2 Fact Sheet

A A4 fact sheet has been prepared in both English (here below) and Spanish. The first version (2008) was updated and improved after the completion of the Link Event (Oct2010)

3.3 Brochure (flyer)

A two-fold brochure (in English) focusing on the EVALSO Communication Infrastructure was prepare for the Launching event and also distributed further to all beneficiaries and at Conferences.



3.4 Movie

In behalf of the project, the ESO outreach developed an informative movie on the EVALSO Communication Infrastructure illustrating the physical construction as well as the future usage and advantages of such a system.

ESOcast 23: A telescope's wire to the world

In this episode of the ESOcast, we travel to the inhospitable but dramatic landscape of the Atacama Desert. Beneath the ground there, a new high-speed data cable is helping connect Paranal, the world's most advanced astronomical observatory, with scientists and engineers based at ESO headquarters in Germany. Dr J presents this new project and explains its impact on scientific research at ESO.

3.5 Presence on beneficiaries outreach channels

EVALSO featured on the following bulletins or periodical publications:

EC	2009/04 GRID Briefing (UK)
ESO	Messenger 136, June 2009 (UK) 2010/05/24 Picture of the Week in the ESO Web Site (UK) Messenger No.142 – December 2010 (UK)

RedCLARA	2008/05 RedClara bulletin n.16 (, ,) 2010/12 RedClara bulletin n.25 (, ,)
REUNA	2008/06 REUNA bulletin ()

Links to the project web site are present in:

ESO	http://www.eso.org/public/shop/product/brochure_evalso/ () http://www.eso.org/public/images/potw1021a/ () http://www.eso.org/public/news/eso1043/ ()
GARR	http://www.garr.it/a/progetti/europei/evalso ()
INAF	http://www.media.inaf.it/2010/11/04/un-cavo-nel-deserto/ ()
RedCLARA	http://www.redclara.net/index.php?option=com_content&view=article&id=69&Itemid=449&lang=en ()
REUNA	http://www.reuna.cl/index.php/es/proyectos/proyectos-en-ejecucion/evalso ()
RUB	http://www.astro.ruhr-uni-bochum.de/astro/oca/evalso.html ()

4 COMPLETE LIST OF DISSEMINATION EVENTS

The EVALSO project featured or appeared on the following events/media. The complete description is available in the EVALSO WEB Site/All Events.

- 2011/06/20-21 4. DFN-Forum, Bonn (D)
- 2011/02/28-03/03 Telescopes from Afar, Hawaii (US)
- 2010/12 ESO The Messenger No.142 – December 2010
- 2010/12 Dec RedClara bulletin DeCLARA #25
- 2010/11/30 EVALSO in the Lunck Talks series at ESO
- 2010/11/16/17 Sixth AccessNova Forum, Tokyo (Japan)
- 2010/11/15-19 INFONOR Chile, Antofagasta (CL)
- 2010/11/7-11 ADASS XX, Boston (US)
- 2010/11/04 EVALSO Communication Infrastructure Launching Event, Santiago (CL)
- 2010/11/03 ICT Forum, Santiago (CL)
- 2010/06/27-07/02 SPIE2010, SPIE Conference on Astronomical Instrumentation, San Diego (US)
- 2010/05/24 Fiber construction snapshop features as Picture of the Week in the ESO Web Site
- 2010/04/12-13 CLARATec 12, Santa Cruz de la Sierra (Bolivia)
- 2010/03/23-24 ECRI 2010, Barcelona, Spain
- 2009/11/28 EVALSO presented at the EELA Conference, Venezuela
- 2009/10/12 ICALEPCS 2009, Kobe, Japan
- 2009/06/01 The need for faster links to the Paranal Observatory was pointed out in an article appeared on the ESO bulletin (The Messenger 136, June 2009, p.62)
- 2009/05/18 Workshop on Robotic Autonomous Telescopes
- 2009/04/21 EVALSO was noted in a talk at the Joint European and National Astronomy Meeting (JENAM).
- 2009/04/01 EVALSO mentioned in the GridBriefing brochure (p.4)

- 2008/07/11 Light Pollution Workshop, Antofagasta (Chile)
- 2008/06/23-28 SPIE conference on Astronomical Instrumentation, Marseille (France)
- 2008/05/22 Fifth AccesNova Forum, Pucon (Chile)
- 2008/May RedClara bulletin/REUNA bulletin
- 2008/04/21 “el Mercurio” (Chilean newspaper)
- 2008/03/08 talk on EVALSO given in a meeting of VISTA

5 LAUNCHING EVENT

On **November the 4th, 2010** in **Santiago de Chile, at the ESO Campus (Vitacura)** took place the the ***Launching event*** of the ***EVALSO Communication Infrastructure***

(Picture courtesy of ESO)

In the words of the EVALSO Project Coordinator, Fernando Liello:

"The event was attended by a number of ambassadors and diplomatic from the EU, a very large delegation from the EC, very high level officials from ESO, ALMA and a number of other organisations.

The event was opened by a short speech of the ESO Director General, Tim de Zeeuw, and there were speeches from Josè Palacios (REUNA president), Rolf Chini, Massimo Tarenghi (ESO representative in Chile), Mario Campolargo (EC) and Ambassador Fernando Schmidt Ariztía (sub-secretary of Foreign Affairs of Chile).

The relevance that has been given to the EVALSO first achievement was really very impressive.

The technical aspects of the EVALSO infrastructure have been very well illustrated by Giorgio Filippi (for the physical infrastructure) and Sandra Jaque (for the technological aspects). The illustration of the possible science implications, made by Rolf Chini was very well appreciated and understood by non-technical people, who have shown in off-line discussion the they have really got the point and appreciated the EVALSO objective.

I have felt proud of introducing the EVALSO framework, and I believe this was a very successful event, especially for the hard work of the people in ESO and REUNA that have organised everything with great care."

F.Liello, Santiago 2010/11/04

5.1 Dissemination material

The following additional material concerning the event is available

- The detailed program and presentations used
- The recording of the event as streaming video
- The ESOcast Video "A Telescope wires to the world"
- the invitation card for the Launching event
- the brochure of the EVALSO Communication Infrastructure

All presents received a copy of the above printed material as well as brochures on ESO and RENA. The information package was offered in a recyclable textile bag bearing the EVALSO logo.

5.2 Press Releases on the event from the EVALSO Beneficiaries:

- AIRUB-OCA
- CLARA
- ESO
- INAF
- REUNA

5.3 The event in the Media:

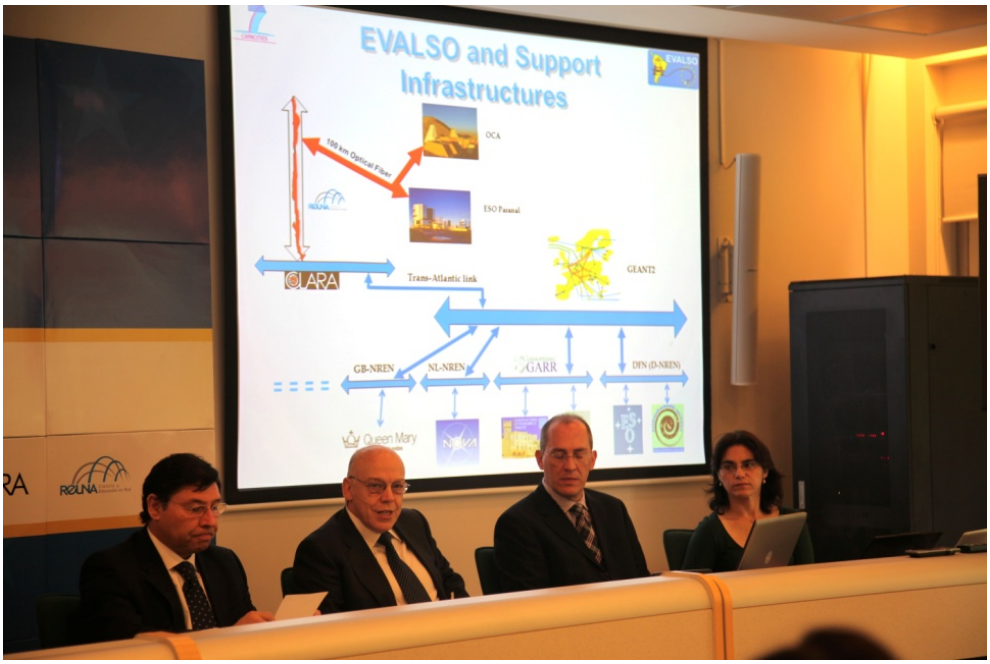
- El Mercurio de Antofagasta
- Informationsdienst Wissenschaft
- Innovations report
- FirstScience
- Stjornuskodun
- El Periodico De Mexico
- UNI-Online
- YouTube (ESOcast)
- noticia123
- elNortero
- SpaceDaily
- Wirtualna Polska
- El Mercurio de Calama (announcement)
- El Mercurio de Calama
- La Tercera
- Physorg
- Sciences et Avenir
- PressRelation (Max-Planck-Institut für Astronomie)
- Univision

5.4 Picture Gallery

Opening speech from ESO Director General, Tim de Zeeuw

The EVALSO Project Coordinator, Fernando Liello, speaking about the EVALSO project and its relation with other academic networks.

Sandra Jaque (REUNA) and Giorgio Filippi (ESO) illustrating the technological aspects of the new infrastructure . In the background live links to the Paranal Observatory over the existing lines (MPLS, microwaves) and on the EVALSO Optical infrastructure. Although it cannot be appreciated in the picture, the people presents at the event could see the striking improvement.



Josè Palacios (REUNA president) pointing out the importance of EVALSO for the Chilean academic community.

Rolf Chini (by Video Conference, first on the left) illustrating the possible science implications of EVALSO.

Massimo Tarenghi (ESO representative in Chile) explaining the new possibility opened by the EVALSO infrastructure. Among those the since long dream for remote operation (in the background early attempts in the late 80s on T1 lines!) will become an option.

Mario Campolargo (EC, by Video Conference) providing the strategic vision in which the EVALSO project is located

Ambassador Fernando Schmidt Ariztía (sub-secretary of Foreign Affairs of Chile) closing the event.

6 LATIN AMERICAN CONTINENTAL EVENT

A second major event is planned to take place in October 2011 in Brazil. The focus will be on the different collaborations between Europe and Latin America in networking which supports science and the key role of the EC investment.

Due to organizational constraints, the event takes place outside the time frame of the project and therefore cannot be reported in the present document, but it can be followed up on the EVALSO Web site at the following link:

http://www.evalso.eu/evalso/20111017-21-latin-american-event/

7 CONCLUSIONS

We think that the NA3 EVALSO Dissemination has overall delivered the expected goals (as defined in [AD2] section "*B.3.2 Plan for the use and dissemination of foreground*") by means of the combined use of:

- project identity (logo, fact sheet, etc);
- modern outreach techniques, as web, movies, etc.;
- presence at well known conferences;
- targeted events (launching, LA event on Europe and Latin America collaboration).

8 APPENDIX A: LIST OF PAPERS

The following is a list of papers on EVALSO or related to EVALSO:

SPIE conference on Astronomical Instrumentation (Marseilles, 23-28 June 2008):

- (poster) **"EVALSO: Enabling Virtual Access to Latin-America Southern Observatories"**
- (poster) **"A fast link with Paranal: new operational opportunities"**

2009/10/12 ICALEPCS 2009

- (poster)"The EVALSO Project: Software-Hardware architecture and remote test results"

2010/03/23-24 ECRI 2010 Barcelona

- (Poster) **"EVALSO" project** .

SPIE conference on Astronomical Instrumentation, San Diego, 27June-02July 2010:

- Paper 7740-53 (oral presentation) **"EVALSO: a high-bandwidth communication** infrastructure **to efficiently connect the ESO Paranal and the Cerro Armazones Observatories to Europe."**
- Paper 7737-81 (poster), **From Chile to Europe in minutes: handling the data stream from ESO"s Paranal Observatory**

Astronomical Data Analysis Software and Systems XX (ADASS),

- (poster) **"Closing the observing loop across continents: data transfer between Chile and Europe"**.

INFONOR Chile 2010 Antofagasta

- (paper) "EVALSO: Infraestructura de vanguardia que conecta a los observatorios de ESO Paranal y Cerro Armazones a Europa generando grandes sinergias con la comunidad académica chilena"

2011/02/28-03/03 Telescopes from Afar, Hawaii (US)

- (paper) *Rapid response to transient events*

4. DFN-Forum: Kommunikationstechnologien (June 2011)

- (poster) "EVALSO, an enabling communication infrastructure for Astronomy"