ENSAR2 Status and Progress

Muhsin N. Harakeh
Coordinator ENSAR2
on behalf of
ENSAR2 management group

NuPECC Meeting
16-17 June 2017
Lisbon, Portugal
ENSAR2 Started on: March 1, 2016
We had the Kickoff Meeting in Caen 16-17 March 2016
End date on: March 1, 2020
Organisation of ENSAR2

European Commission EU

Coordinating Institution

Management Group
- Coordinator
- Deputy Coordinator
- Manager
- Financial Officer
- Administrative Officer

Executive Board
Representatives of WP leaders

Project Coordination Committee (PCC)
Work Package leaders

NAs
1-8

JRAs
1-7

TAs
1-10

Deliverable Evaluation Committee
TA leaders

Facility Coordination Group (FCG)
Lab directors & PAC chairpersons

General Assembly (GA) of all partners

Meetings: 1×/year

6 monthly progress reports
Report back GA decisions to WP leaders

Meetings: 2×/year

Meetings: 1×/year

NuPECC Meeting, 16-17 June 2017; Lisbon, Portugal
Management Group

Coordinator: Muhsin N. Harakeh
Deputy Coordinator: Marek Lewitowicz
Manager: Ketel Turzó
Financial Officer: Veronique Vandevoorde
Administrative Officer: Sandrine Dubromel
Impact Studies Coordinator: Sabrina Lecerf-Rossard

General Assembly
Chair: Adam Maj

Executive Board of PCC
TNAs: Maria G. Borge
      Ari Jokinen
JRAs: Andres Gadea
      Olof Tengblad
NAs:   Silvia M. Lenzi
      Christoph Scheidenberger
NAs

- NA1-FISCO2

Financial and Scientific COordination 2
Ketel Turzó

Managing Network to insure a smooth running of the ENSAR2 IA in all aspects of technical, scientific, financial, administrative, contractual and legal activities. It will supervise an impact study on TNA infrastructures and on ENSAR2 itself. FISCO2 will also stimulate dissemination of knowledge and outreach activities.
NA01-FISCO2- Dissemination

D1.1: Dissemination of knowledge and outreach activities

ENSAR 2 Web site created: http://www.ensarfp7.eu

Major scientific events held in 2016 with ENSAR2 support:
  • 13th Russbach School on Nuclear Astrophysics - March 6-12, 2016 - Russbach, Austria
  • International Workshop on "In-Vivo Dosimetry" - May 19-20, 2016 - LMU Munich, Germany
  • Carpathian Summer School of Physics 2016 - June 26 – July 9, 2016, Sinaia, Romania
  • NUSPIN Workshop 2016 – June 27 – July 1, 2016 – San Servolo, Italy
  • ENSAF workshop on Accelerator operation and Management – October 19-21, 2016 – CNA Sevilla, Spain
  • IV International GEANT4 School - October 23-28, 2016 – Belgrade, Serbia
  • NuSPRASEN workshop – December 6th, 2016 – CERN, Switzerland

ENSAR2 participated in public outreach events and supported web site for layman: http://nupex.eu/
NA01-FISCO2-Task 2 : Studies and reporting
Social, Environmental and Economic Impact Analysis

I. Reminder

a) Two complementary impact studies:
   - FISCO (socio-economic and environmental studies) wider scope
   - NUPIA (Innovation) based only on Nuclear physics

b) Deadlines:
   - Milestone : mid-term report on month 18
   - Deliverable D1.3: final report on month 36

II. List of partners involved in the socio economic and environmental study

   - 12 RI
   - Number of people working on this study : 37 (Directors not included)

III. Number of meetings already performed

   - With the working group
     - 23rd August 2016
     - 7th February 2017
   - With FCG members
     - 6th October 2016
NA01-FISCO2-Task 2 : Studies and reporting
Social, Environmental and Economic Impact Analysis

IV. Situation

➢ Beginning of 2017 : Result of the working group’s brainstorming ⇒ very broad approach.

➢ Suggestion to shrink the scope:
  - Concentrating only on Nuclear physic,
  - Reducing the number of areas and indicators for the three fields:
    Economic impact
    Social impact
    Environmental impact

➢ Current actions

  ▪ February 2017 → June 2017 : State-of-the-art characterisation of each RI
    - Description of the RIs (with their phase of design and construction) and their ecosystem/cluster in which they are installed.
    All major links have to be highlighted.
  + SWOT Analysis of ENSAR2
  + Data collection on ENSAR2 + ENSAR
    (for RIs involved in ENSAR). Submit end of 2018.
NA01-FISCO2-Grant Agreement

Amendment on the GA:

- Replacement of FFCUL by FCiencias.ID, whose PIC is 915 056 194, in the framework of the project ENSAR2.
- Modification of Milestone M18
- Modification of Deliverables D6.2 to D6.5, D8.5
Partners of ENSAR2

10 TNA Facilities

30 beneficiaries
15 countries

Community: 2700-3000 scientists and highly qualified engineers

Close collaboration with infrastructures outside Europe:
Canada: TRIUMF Vancouver
China: IMP Lanzhou
India: BARC Mumbai?
Japan: RIKEN Tokyo
VECC Calcutta
Russia: JINR Dubna
South Africa: iThemba Cape Town
United States: NSCL East Lansing?
ANL Argonne?
TNAs

- GANIL-SPIRAL2 (France)
- LNL-LNS (INFN, Italy)
- ISOLDE (CERN, Switzerland)
- JYFL (Finland)
- ALTO (CNRS, France)
- GSI (Germany)
- KVI-CART (The Netherlands)

NEW - NLC (HIL/IFJ PAN, Poland)
NEW - IFIN-HH/ELI-NP (Romania)
NEW - ECT* (Italy)
ENSAR2 Research Infrastructures (ENRI)

Cooperation and Coordination Agreement between GANIL, LNL/LNS (INFN), ISOLDE (CERN), JYFL (JYU), ALTO (CNRS), GSI, KVI-CART, NLC (IFJ PAN & UNIWARSAW), IFIN-HH/ELI-NP, ECT* (FBK) and ENSAF network

1. Accelerator facilities
2. Experiments in nuclear (astro)physics
3. Nuclear theory
4. Expensive, technically advanced experimental equipment
5. Coordination

Facility Coordinating Group (FCG)

Directors, chairpersons of local PACs of the ENRI participating laboratories, a representative of ENSAF network and the coordinator of ENSAR2.
The mission of the overarching Facility Coordinating Group is to do the coordination and harmonisation between the ENSAR2 research infrastructures and also their PAC’s and thus go a long way in the spirit of the ‘Integrating activity’ programme through integration of the transnational access.

Further aspects of the collaboration between the laboratories:

1. **Accelerator physics**
2. **Radiobiology, hadron therapy and other applications**
3. **Educational programme**
   (e.g., Euroschoool on Exotic Beams)
4. **International dimension**
International dimension

ENSAR2 will be able to provide transnational access to ENRI facilities to international users from outside the European Union and associated countries. This could be up to 20% of the total ENSAR2 quantity of access allocated to transnational access. The coordinator of ENSAR2 will contact directors of international large research infrastructures in Canada, China, India, Japan, Russia, South Africa, and USA to promote mutual collaboration on access to these international research infrastructures and ENRI facilities. The directors of the ENRI RIs with this ENRI agreement delegate the signature of the Memorandums of understanding (MoUs) between the international labs and ENSAR2 to the ENSAR2 coordinator. The MoUs would be signed by the various directors of the international labs and ENSAR2 coordinator in which the terms for access of European citizens to the international labs and vice versa will be recorded.

The ENRI agreement is valid through the contract period of ENSAR2 from 1 March 2016 to 1 March 2020.
ARTICLE 1

Purpose of the memorandum

The objective of this MoU is to establish a general framework of collaboration and project relationship, implemented by RNC-RIKEN and IA ENSAR2 to increase cooperation between the Parties in general and to provide a framework for establishing specific collaborative activities between the parties. The collaboration aims:

- to provide access to the facilities at RNC-RIKEN for European physicists and vice versa to the facilities of IA ENSAR2 RIs to Japanese physicists following the rules of the various infrastructures, i.e. approved projects based on scientific merits and feasibility, and

- to increase cooperation and mutual support between the Parties in general.

APPENDIX I

Each Party shall be responsible for its own costs and expenses under this MoU, except as otherwise agreed in writing by the Parties. RNC-RIKEN will cover the daily expenses of European physicists, while performing experiments at RNC-RIKEN, according to local per diem rules and vice versa, IA ENSAR2 will cover the daily expenses of Japanese physicists, while performing experiments at IA ENSAR2 RIs, according to local per diem rules of the IA ENSAR2 RIs. In the case of IA ENSAR2 support, mutual spokesmanship for the experiments is required.
Close collaboration with infrastructures outside Europe:

Japan: RCNP Osaka; MoU signed on 30 January 2017
China: IMP-CAS Lanzhou; MoU signed on 3 March 2017
South Africa: iThemba Cape Town; MoU signed on 9 March 2017
Russia: JINR Dubna; MoU signed on 11 March 2017
Japan: RIKEN Tokyo; MoU signed on 30 March 2017
United States: E-mails on 4 May
- NSCL East Lansing; MoU with University Administration
- ANL Argonne; MoU with DOE Administration
India: VECC Calcutta; E-mail on 2 May ⇒ MoU being prepared
- BARC Mumbai; did not hear anything
Canada: TRIUMF Vancouver; were not interested
PCC meeting on 9 May 2017
ENSAR2 TNA reporting

- Budgeting

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https://www.jyu.fi/fysiikka/en/research/accelerator
ISOLDE / M. Borge

- Summary (link)(file: ISOLDE_ENSAR2_TNA summary_April 2017-1.xlsx)
- Non-EU payments (link)(file: ISOLDE_ENSAR2 Non-Eu payments April-Dec 2016.xlsx)
JYFL / M. Hilska

**Link** (file: JYFL_Supported_experiments2016_2017.xlsx)

- 66 persons supported during the first year of ENSAR2
- Total amount of support 59.7 k€, which agrees well with the steady usage of T&S (61.6 k€ / 12 months)

### PAC statistics 2006-2015

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<tr>
<td>Requested days</td>
<td>2833</td>
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<tr>
<td>Given days</td>
<td>2026</td>
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<td>Success rate</td>
<td>71,5%</td>
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<td>No. of proposals</td>
<td>389</td>
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<td>Average number of proposals</td>
<td>17</td>
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<tr>
<td>Average number of pending days</td>
<td>383 (15.3.2017 323 days)</td>
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### March 2017 PAC:

- 23 exp’s, of which only 3 are ”JYFL”-proposals
- 232 days requested altogether
ECT* Scientific Events 2016-2017

2016

- 18 workshops (8 supported by ENSAR2)

ECT* Doctoral Training Programme 2016
Trento, June 6 - July 15
Nuclear, Neutrino and Relativistic astrophysics
Programme Coordinator
Sanjay Reddy (University of Washington)

2017

- 19 workshops (3 supported by ENSAR2 so far)

ECT* Doctoral Training Programme 2017
Trento, June 12-30
Microscopic Theories of Nuclear Structure, Dynamics and Electroweak Currents
Programme Coordinator
Omar Benhar (INFN and Università La Sapienza)

ECT* Nuclear TALENT School 2017
Trento, July 3-21
Theory for Exploring Nuclear Structure Experiments
Organizers
Alex B. Brown (Michigan State University) - Morten Hjorth-Jensen (Michigan State University and University of Oslo)

Students’ Coordinator and Advisor
Morten Hjorth-Jensen (Michigan State University and University of Oslo)

NuPECC Meeting, 16-17 June 2017; Lisbon, Portugal
During PCC meeting of 9 May, it was reported that all NAs and JRAs are on schedule, except for a few delays. The dates have to be changed by modifying the Grant Agreement, e.g.,

- Modification of Milestone M18
- Modification of Deliverables D6.2 to D6.5, D8.5

Some interesting results were achieved. The presentations can be downloaded from the ENSAR2 website.

**Last point:** Letter of Robert-Jan Smits, Director-General at Research and Innovation Directorate-General of European Commission, about open access obligations in Horizon 2020, which apply to peer reviewed scientific publications.

[http://ec.europa.eu/research/participants/data/ref/h2020/other/comm/170406_open-access_en.pdf](http://ec.europa.eu/research/participants/data/ref/h2020/other/comm/170406_open-access_en.pdf)
Thank you for your attention