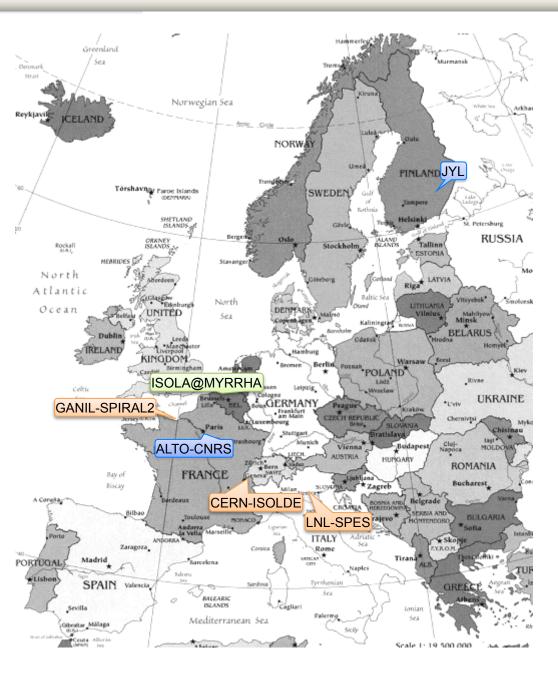
### EURISOL – Distributed Facility (DF)



M. Lewitowicz

on behalf of the EURISOL MoU Steering Committee



#### **EURISOL** – Distributed Facility (DF) Initiative

## Background

- 2001-2005: EURISOL RTD
- 2005-2009: EURISOL Design Study (see http://www.eurisol.org)
- 2010: EURISOL endorsed by NuPECC as highest long term priority for low energy nuclear physics in Europe
- Existing & planned ISOL facilities in Europe:
  - GANIL-SPIRAL2, HIE-ISOLDE, SPES, ISOL@MYRHHA, ALTO, JYFL Eurisol collaboration: ISOL-based RIB facilities, other labs, funding agencies, university groups
- EURISOL Office
- EURISOL User group
- EU support for EURISOL through ENSAR and ENSAR 2
  - •EURISOL NA in ENSAR (FP7)
  - •EURISOL JRA in ENSAR 2 (Horizon 2020)
- -> EURISOL MoU



#### **EURISOL MoU**

This MoU establishes a common understanding among the Parties of the collaborative effort required for the continued development of EURISOL, including more focused R&D and a more refined cost estimate.

Signatories: CERN, COPIN (Poland), BEC (Belgium), GANIL, INFN

The MOU is implemented by a Steering Committee with one representative per signatory. The members are:

MJG Borge (CERN), M. Lewitowicz (GANIL, chair), A. Maj (COPIN), S. Pirrone (INFN), L. Popescu (BEC) and A. Bracco (NuPECC representative)

The SC replaces the EURISOL Project Office which is dissolved.



#### EURISOL – Distributed Facility (DF)

#### Goals:

- Current ISOL-based projects and physics supported, optimized and coordinated
- EURISOL as a single site facility as a long term goal
- Eurisol on the ESFRI list?: EU funding and trigger local funding
   Note: in Nuclear Physics FAIR and SPIRAL2 moved to the implementation
   phase and most probably will no longer be on the ESFRI list in 2016
- Eurisol as a Distributed Facility :
  - Upgrade of the major ISOL facilities with focus on key developments to address challenges imposed by EURISOL
  - Physics, R&D on RIB production, Instrumentation towards EURISOL

#### To be defined:

- Members
- Complementarities between the facilities
- Legal structure, coordination, responsibilities, etc.



### EURISOL – Distributed Facility (DF)



New project to be submitted for the 2018 update of the ESFRI roadmap

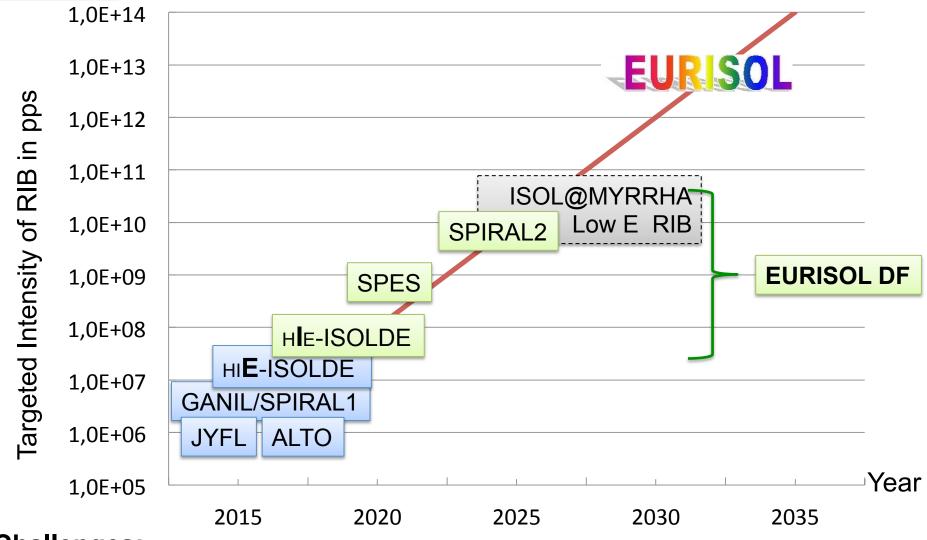
Members Initially: GANIL-SPIRAL2, HIE-ISOLDE SPES

Other potential candidate: ISOL@MYRRHA

Smaller scale ISOL facilities; ALTO, JYFL?



#### **EURISOL DF: Intermediate step towards single site project**



#### **Challenges:**

High-power accelerators, targets & sources, purification of RIB Complementarities:

Instrumentation eg. AGATA, FAZIA, GASPARD, PARIS,...

# Preparation of the EURISOL DF project for the ESFRI roadmap 2018 update

- Regular EURISOL MOU Steering Committee meetings (1/month)
  - Preparation of the proposal by 2017
  - Attract new MoU members
  - Discussion with representatives of EU member states
  - Lobbying, lobbying, lobbying



# Preparation of the EURISOL DF project for the ESFRI roadmap 2018 update

- Presentations from the facilities and discussion at the EURISOL NET Town meeting in October 2014
- Tight links with NuPECC, EURISOL User Group and EURISOL JRA in ENSAR2
- EURORIB 2015 conference dedicated session
- Dedicated EURORIB DF conference in 2016 with a "EPS label" in collaboration with Nucl. Phys. Board of EPS

## THE END



## Updating the ESFRI Roadmap

## Rules for new Roadmap

- Much shorter only ~25 Projects on the new Roadmap
- Projects that have been on the roadmap and not implemented will automatically roll off after 10 years
  - Any project that wants to be considered again after 10 years must reapply, either in a different form or with bottlenecks resolved
- Room for 8-10 new projects on the 2016 roadmap
- Entry level projects will be at a more mature level
  - conceptual design and feasibility done
  - supported by at least three MS
- Every 2-3 years audit of the project by ESFRI Implementation WG
- Opportunities to add more projects in 2018, 2020 as others roll off
- J. Womersely in http://www.copori.eu/1435.php

