

Task 2.4 Development of SRA, roadmap and priorities for research on dosimetry

EJP CONCERT Kick-Off Meeting
Oberschleißheim, Germany

8. June 2015

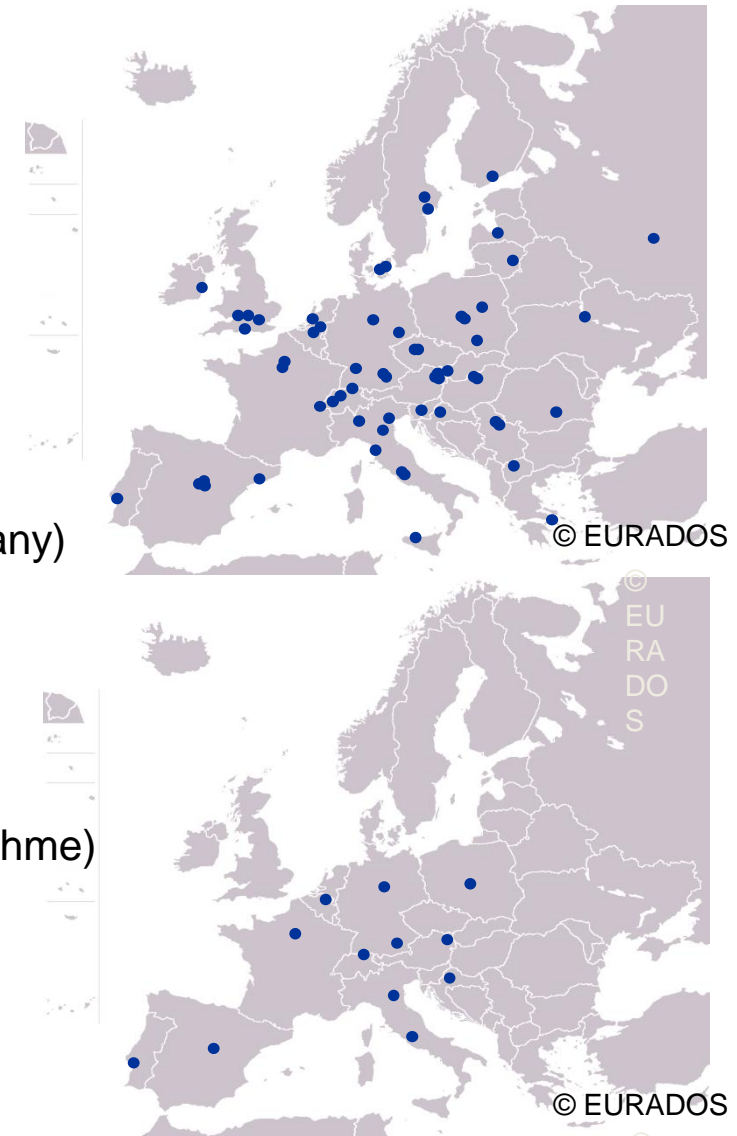
W. Rühm

Institute for Radiation Protection

Helmholtz Zentrum München, German Research Center for Environmental Health

EURADOS (as of January 2015)

- **Founded in 1982**
- **Voting Member Status (January 2015)**
61 Voting Members from 29 countries
- **EURADOS Board of Officers**
Chair: W. Rühm (Helmholtz Munich, Germany)
Vice-Chair: F. Vanhavere (SCK-CEN, Belgium)
Secretary: JF. Bottollier (IRSN, France)
Treasurer: H. Schumacher (PTB, Germany)
- **EURADOS Office**
operated by HMGU (W Rühm, H Schuhmacher, J Brehme)
- **EURADOS Council**
J. Alves, J.F. Bottollier, E. Fantuzzi, P. Fattibene,
M.A. Lopez, S. Mayer, S. Miljanic, P. Olko, W. Rühm,
H. Schuhmacher, H. Stadtman, F. Vanhavere



EURADOS Working Groups

Eight EURADOS Working Groups

- Harmonization of Individual Monitoring (J. Alves, Portugal)
- Environmental Dosimetry (A. Vargas, Spain)
- Computational Dosimetry (R. Tanner, UK)
- Internal Dosimetry (M.A. Lopez, Spain)
- Dosimetry in Radiotherapy (R. Harrison, UK)
- Retrospective Dosimetry (C. Woda, Germany)
- High-Energy Radiation Fields (J.F. Bottollier, France)
- Dosimetry in Medical Imaging (Z. Knezevic, Croatia)



Associate Members

Almost 500 scientists contributing to the overall EURADOS objectives

WP2 - Bringing together the European research community to enhance RP knowledge (led by STUK, Finland)

- MELODI, ALLIANCE, NERIS, EURADOS will maintain and update their SRAs
 - Annual statements on current research needs, priorities and road maps for joint programming will be prepared,
 - Roadmaps (long-term view) will be prepared,
 - Research priorities (shorter term perspective) will be identified,
 - Joint interests for multidisciplinary and synergistic research will be identified,
 - Medical use of ionizing radiation will be included in the SRA of MELODI + EURADOS.
 - Scientific knowledge from outside the radiation protection field will be integrated
- Social and human sciences, including ethical developments and communication issues, should contribute to the consolidation of European radiation protection culture
- Agendas for research and innovation supporting the implementation of the revised European Basic Safety Standards will be developed
- The research platforms are open for new memberships. Attraction of research organizations and universities from countries not yet involved in radiation protection research on the European level receive a high priority on the agenda.

Task 2.4 - Development of Strategic Research Agenda, roadmap and priorities for research on dosimetry

(Lead: EURADOS; Partner: HMGU, IRSN, SCK-CEN, CIEMAT, DH-PHE, ENEA, ISS; LTPs: PTB, IFJ, SL, RBI, IST)

- EURADOS with its SRA Working group will maintain and update the SRA in a coordinated manner with other platforms
- will prepare annual statements on current research needs for joint programming (WP3).
- EURADOS prepares a long-term roadmap, identifies shorter-term research priorities and explores joint interests for multidisciplinary research.

Key activities are:

- The EURADOS SRA is revised on a 5-year basis
- A SRA-statement is prepared annually and consulted openly.
- This consultation will be finalized during the annual EURADOS meeting or a series of sessions covering different themes.
- A long-term roadmap for research is developed by EURADOS.
- Annually, short-term research priorities are elaborated by EURADOS.
- Input to WP3 (Joint Programming) is provided

Deliverables

- **D2.1 – Annual SRA Statements from MELODI, ALLIANCE, NERIS, EURADOS (M2)**
- D2.2 – Priorities for medical use of radiation and communication/risk perception (M5)
- D2.3 – Research needs and R&D priorities for implementation of BSS (M12)
- **D2.4 – Annual SRA Statements from MELODI, ALLIANCE, NERIS, EURADOS (M13)**
- **D2.5 – Long-term RTD roadmaps from MELODI, ALLIANCE, NERIS, EURADOS (M15)**
- D2.6 – Priorities for medical use of radiation and communication/risk perception (M17)
- **D2.7– Synergies between the medical and MELODI/EURADOS SRAs (M18)**
- D2.8 – Draft SRA on social science and humanities in RP (M24)
- **D2.9 – Annual SRA Statements from MELODI, ALLIANCE, NERIS, EURADOS (M25)**
- D2.10 – Priorities for medical use of radiation and communication/risk perception (M30)
- D2.11 – Research needs and R&D priorities for implementation of BSS (M36)
- D2.12 – Revised SRA for social sciences and humanities in RP (M36)
- **D2.13 – Updating SRAs of MELODI, ALLIANCE, NERIS, EURADOS (M54)**

EURADOS Strategic Research Agenda – Past and Presence

- **July 2012, Paris, Council Meeting**
Discussion of OPERRA; Decision to participate in MELODI2012 (Helsinki)
- **September 2012:** Participation at the 4th MELODI Workshop, Helsinki
- **October 2012 (after MELODI 2012)**
Council initiates SRA discussion and stimulates **input from WGs**
- **February 2013, Barcelona, Council Meeting**
SRA: W. Rühm (Chair), E. Fantuzzi, R. Harrison, H. Schuhmacher, F. Vanhavere
- **July 2013, Berlin, Council Meeting**
Discussion of collected material and future actions
- **October 2013:** Draft version of SRA presented at MELODI2013, Brussels, Belgium



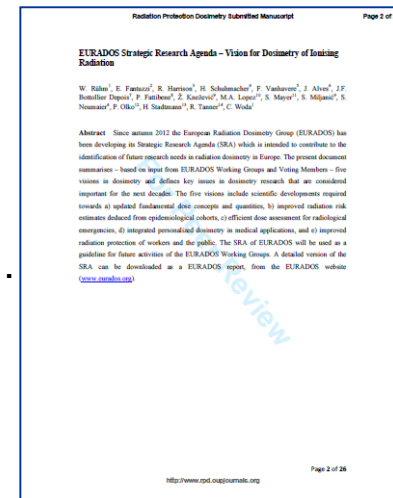
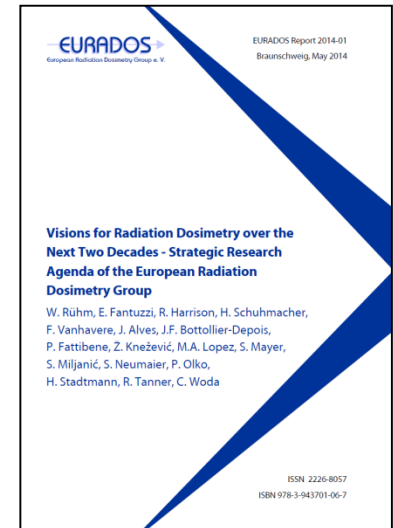
EURADOS Strategic Research Agenda – Past and Presence

- **December 2013:**
MoU MELODI-ALLIANCE-NERIS-EURADOS,
Brussels, Belgium
- **December 2013:**
Publication of Press Release
- **January 2014**
Distribution of most recent SRA among VMs and WG chairs
- **This version**
 - ... was produced with much input from all EURADOS WGs
 - ... represents what we as EURADOS community believe that
 - should be done to improve dosimetry during the next decades (20 years)
 - should be funded in future EC calls
 - ... but needs continuous input



EURADOS Strategic Research Agenda – Past and Presence

- **EURADOS Report 2014/01 finished** and published
- **SRA presented at**
 - OPERRA, 01/2014, Rome (W Rühm)
 - German Rad- Protection Association, 04/2014, Munich (W Rühm)
 - IRPA, 05/2015, Geneva (F Vanhavere)
 - MELODI 2014, Barcelona (Alves, Bottollier, Ginjaume, Rühm)
- **Publication for RPD prepared (accepted February 6, 2015)**
 - Ref. 1: “... could serve as a reference for possible research topics ... which could potentially bear academic and practical significance.”
 - Ref. 2: “... the paper identifies all relevant research needs in radiation dosimetry ...good reference to justify future research projects. “



EURADOS Strategic Research Agenda – Future

- **July 6-7, 2015, PTB Braunschweig, Council Meeting**
 - Information on Concert Kick-Off
 - Discussion of further steps to develop SRA
 - Restructure SRA working group?
 - Restructure EC/EJP working group?
 - Development of stakeholder list
 - Preparation of stakeholder meeting
 - Procedure to define a roadmap

Milestone number 18 Milestone title Lead beneficiary Due Date (in months) Means of verification

MS7 Input documents for
WP3 2 - STUK 6 Document prepared
MS8 Annual SRA platform
statements 2015 2 - STUK 6 Document prepared
MS9 Input documents for
WP 3 2 - STUK 18 Document prepared
MS10 Annual SRA platform
statements 2016 2 - STUK 18 Document prepared

MS11 Annual SRA platform
statements 2017 2 - STUK 30 Document prepared
MS12 Annual SRA platform
statements 2018 2 - STUK 42 Document prepared
MS13
Annual SRA platform
statements and SRA
update 2019

2 - STUK 54 Documents prepared