

**IAEA**

International Atomic Energy Agency

# **IAEA Physics Section activities in the field of Synchrotron Radiation**

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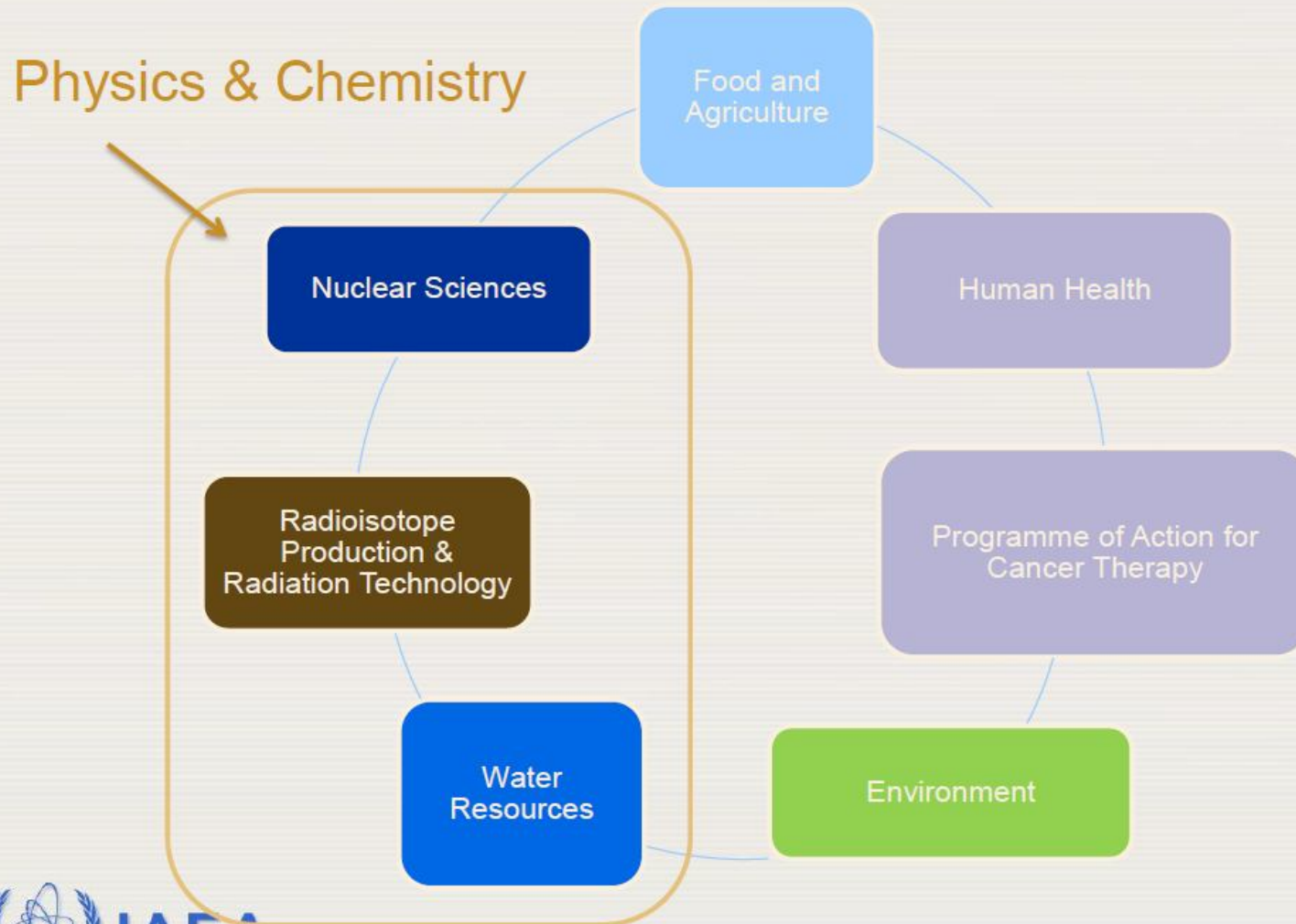
Seibersdorf, Austria

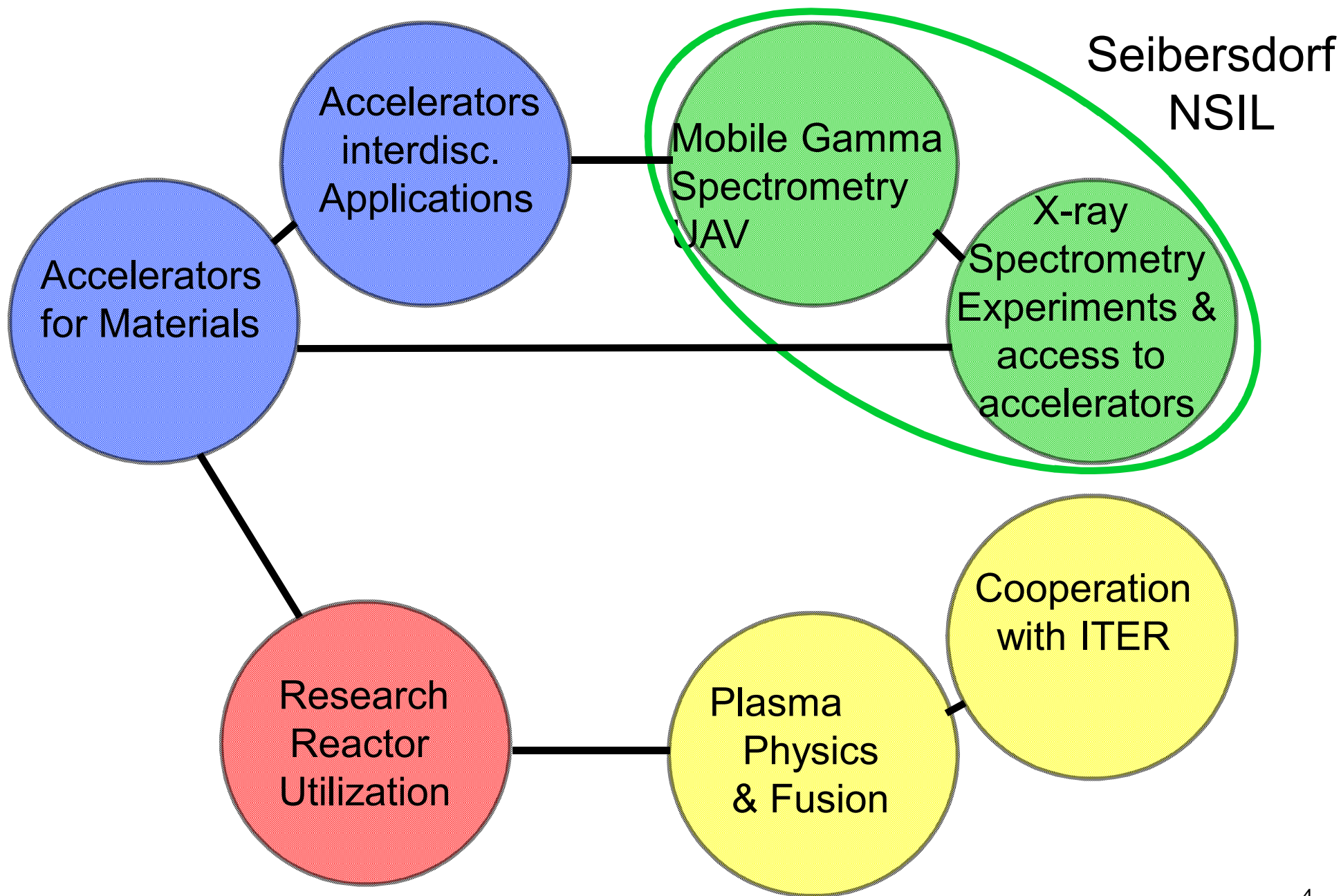
# IAEA Laboratories at Seibersdorf



The IAEA Laboratories are located about 35 km south of Vienna, Austria

## Nuclear Sciences and Applications





## Coordinated Research Projects (CRP)

Research activities designed to promote acquisition and dissemination of new knowledge from the use of nuclear techniques

## Provide Access to Research Infrastructures

Elletra Sincrotrone Trieste, Italy

Rudger Boscovic Institute (RBI), Zagreb, Croatia

## Information Exchange

Technical Meetings, Workshops, Schools

## Backstopping in Technical Cooperation Projects

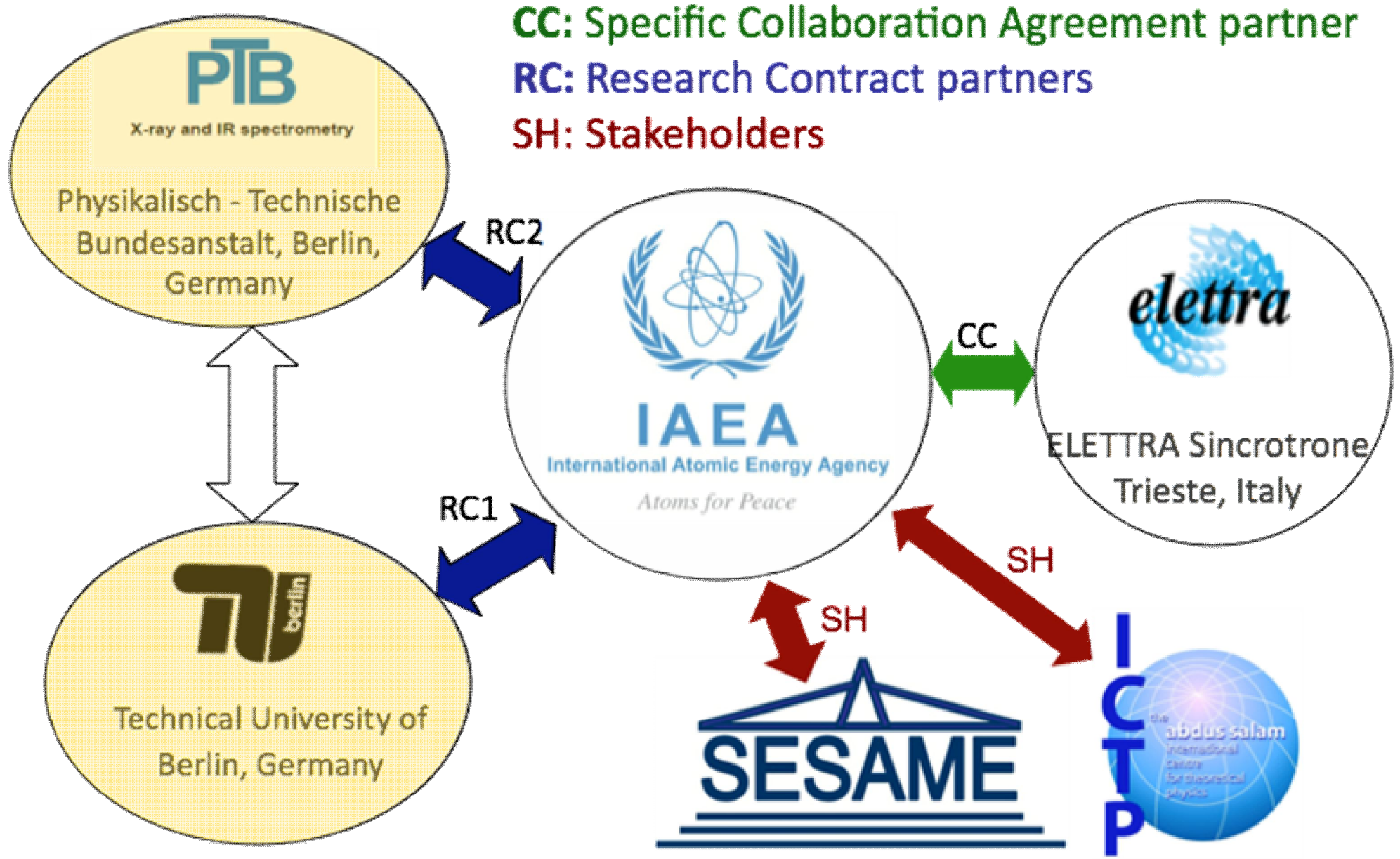
National

Regional or Interregional



- Coordinated Research Project (2012-2015) “*Applications of Synchrotron Radiation for Environmental Sciences and Materials Research for Development of Environmentally Friendly Resources*”
- CRP on “*Experiments with Synchrotron Radiation for Modern Environmental and Industrial Applications*”, 2014-2017
- Facilitate access for research projects and training events at the XRF beamline of Elettra Sincrotrone Trieste
- Joint ICTP-IAEA events
- SESAME’s IAEA TC Project (INT0086)

# The IAEA advanced XRS beamline end-station project - Partnerships



- Fundamental Parameters (FP) based methodologies and analytical applications of hand-held XRF analyzers
- Development of a combined PIXE-XRF excitation probe
- Ion Beam Analysis of thin CIGSe Solar cells
- Mobile Gamma spectrometry instrumentation for field radiological monitoring and assessment
- Unmanned Aerial Vehicle (UAV) - based Mobile Gamma Spectrometry





# Nuclear Science and Instrumentation Laboratory – NSIL staff

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