IFIGENEIA

Innovative Facility for Isotope GENeration
with Efficient Ion Accelerator

Innovative Facility for Isotope GENeration with Efficient Ion Accelerator

Urška Mrgole, Jožef Stefan Institute

Ljubljana, Slovenia, June 2026

Funded by
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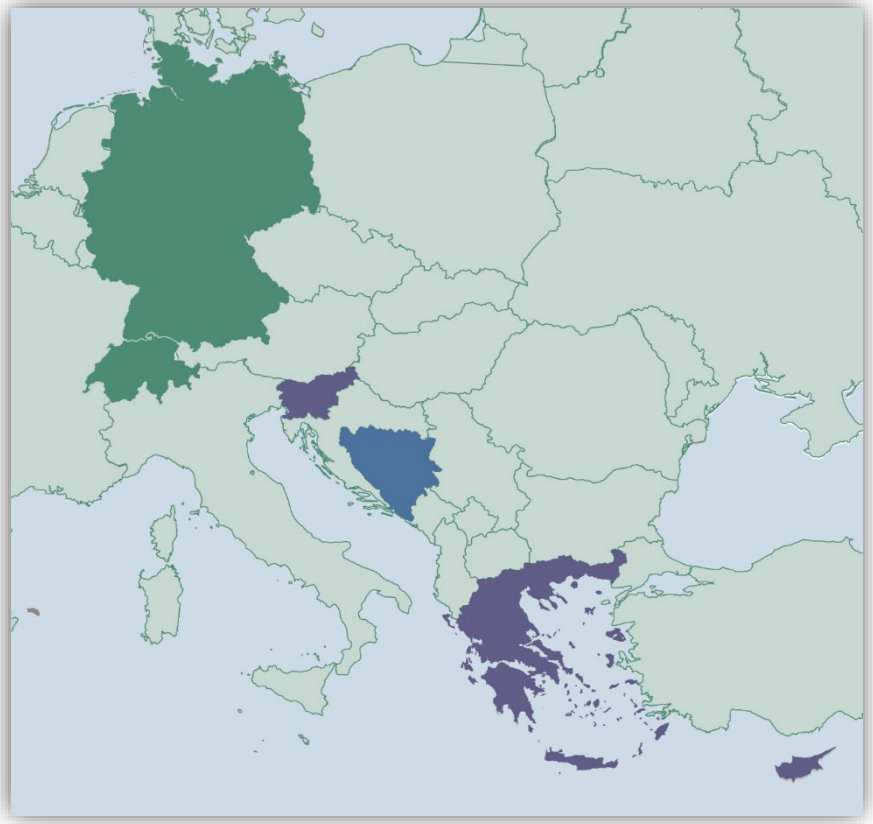
IFIGENEIA Presentation

- Project Overview
- Geographical Focus
- Our Goals and Key Activities
- IFIGENEIA Scope of Work
- Education, Outreach and Inclusion
- The IFIGENEIA Team Members
- Connect with us

Project overview

- Project title: Innovative Facility for Isotope GENeration with Efficient Ion Accelerator
- Acronym: IFIGENEIA
- Programme: Horizon Europe – WIDERA-2023-ACCESS-07
- Duration: March 2025 – February 2029 (48 months)
- Total Budget: €6,000,000
- Coordinator: Aristotle University of Thessaloniki (AUTH), Greece
- Project motto: „IFIGENEIA: Scientific knowledge for the health of tomorrow.“
- Consortium: 22 partners

Geographical Focus



Main Hubs

Greece	LINAC design, Beam dynamic studies, Beam parameters and HW specifications, Safety and radiation protection requirements, Small scale LINAC prototype, Pilot in health and culture.
Slovenia	Controls, Lab condition development, Isotopes identification, Ligands investigation, Pilot pre-clinical studies.
Cyprus	Exploitation Strategies, Business Plan, Investment Plan, Private Equity.

Mentorship for Western Balkans

Bosnia and Herzegovina	Support for future excellence hubs: Mentoring activities, Knowledge transfer.

International collaboration

CERN, DKFZ, GSI	Ensuring scientific excellence and regional impact.

Our Goals

Implement Linear Accelerator (LINAC) technology in Europe to improve healthcare by:

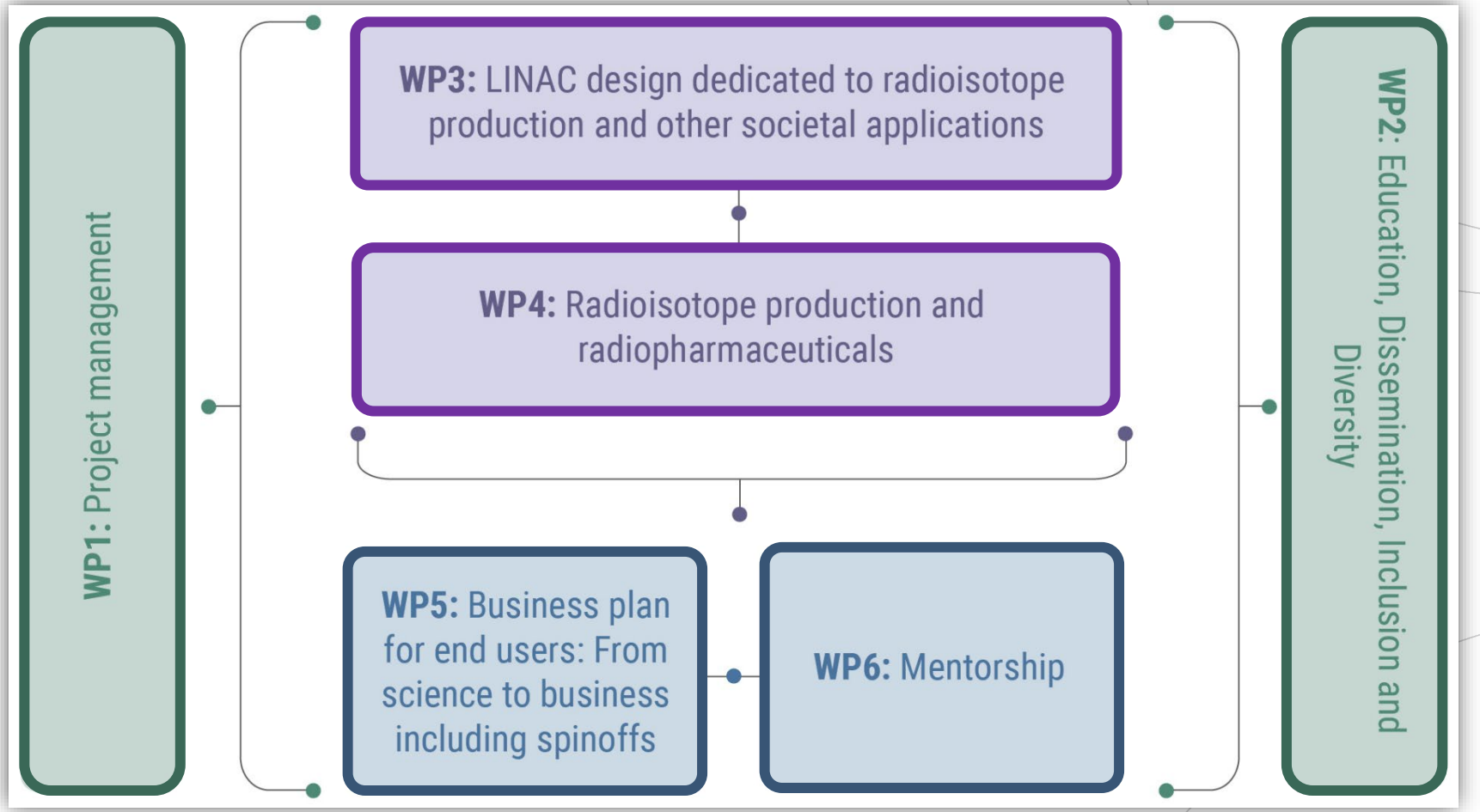
- Designing sustainable facilities for radionuclide therapy, diagnostics, and theranostics.
- Establishing Centres of Excellence in Greece, Slovenia, and Cyprus to operate LINAC facilities that produce a wide range of medical radioisotopes.
- Strengthening collaboration between science, industry, and healthcare.

Key Activities

- Technical design and safety studies for a unique LINAC facility targeting to societal and medical applications in Europe.
- Design and develop laboratory infrastructure fully compatible with current Good Manufacturing Practices (cGMP) for production of a wide range of mainstream and emerging radiopharmaceuticals.
- Tailor training programs, exploiting innovative virtual training tools, and support researcher exchanges to build technical capacity across Europe, via inclusive participation, mentoring and regional collaboration.
- Create an investment strategy and plan towards the sustainable future of the LINAC Excellence Hubs.
- Communicate project outcomes and share knowledge widely through targeted dissemination efforts.
- Define and prioritize a LINAC-based portfolio of diagnostic, therapeutic, and theranostic radionuclides to meet the current and future needs of the Balkan region.

IFIGENEIA Work Packages

- **WP1 Leader**: Aristotle University of Thessaloniki
- **WP2 Leader**: Jožef Stefan Institute
- **WP3 Leader**: Aristotle University of Thessaloniki
- **WP4 Leader**: University of Ljubljana
- **WP5 Leader**: RTD TALOS Limited
- **WP6 Leader**: University of Cyprus



Before we continue;

Visit our website:

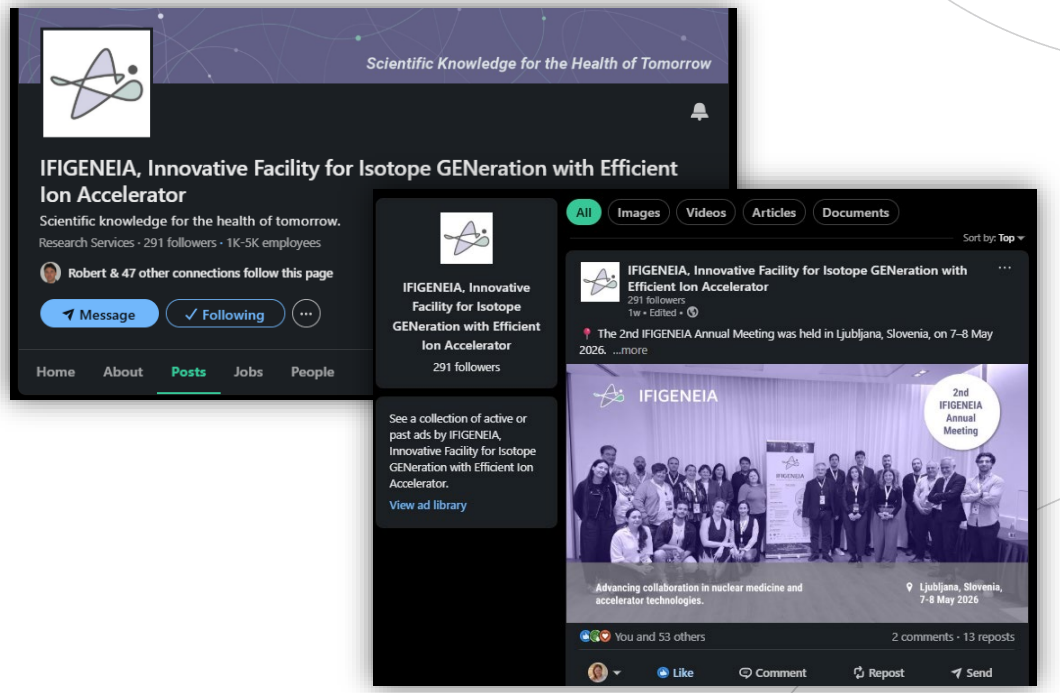
https://ifigeneia.eu/

Education, Outreach and Inclusion

Communication tools

- **Website**: https://ifigeneia.eu/

- **Social Media Platforms** - LinkedIn

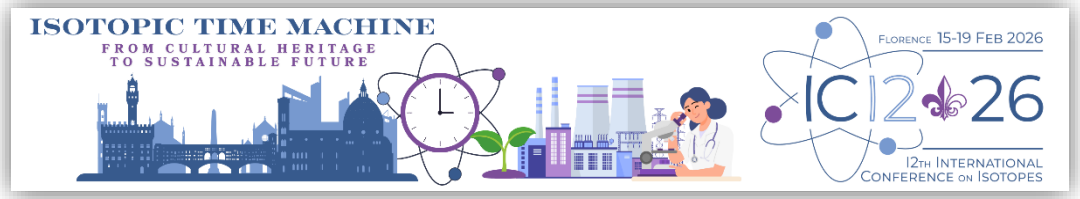


Education, Outreach and Inclusion

- IFIGENEIA **Newsletter**

Subscribe:
https://ifigeneia.eu/#newsletter

- **Events**
  Conferences, meetings, invited lectures

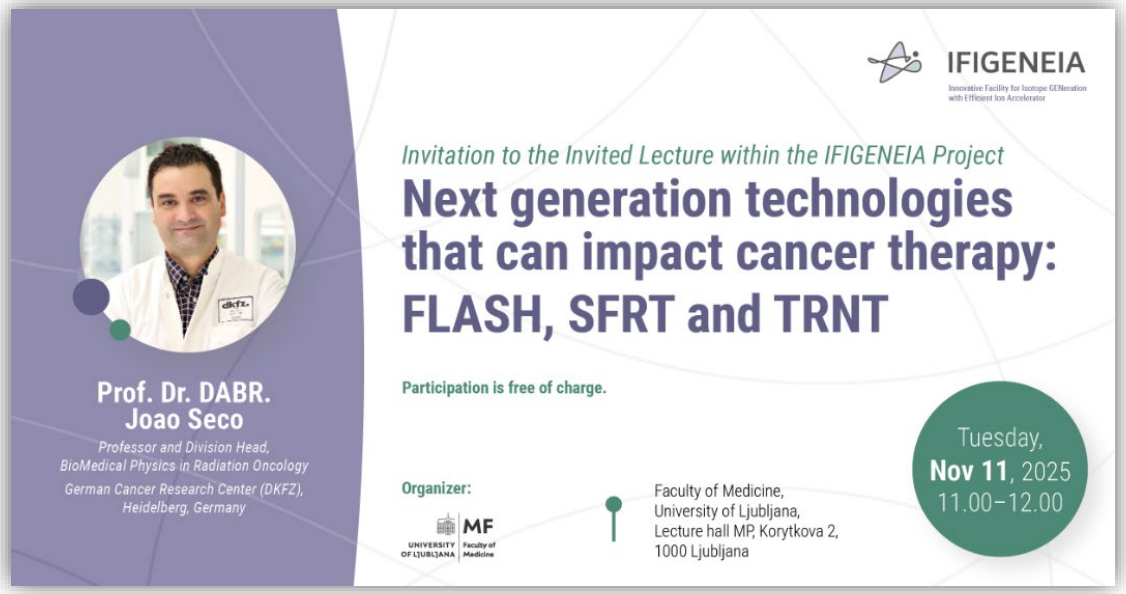


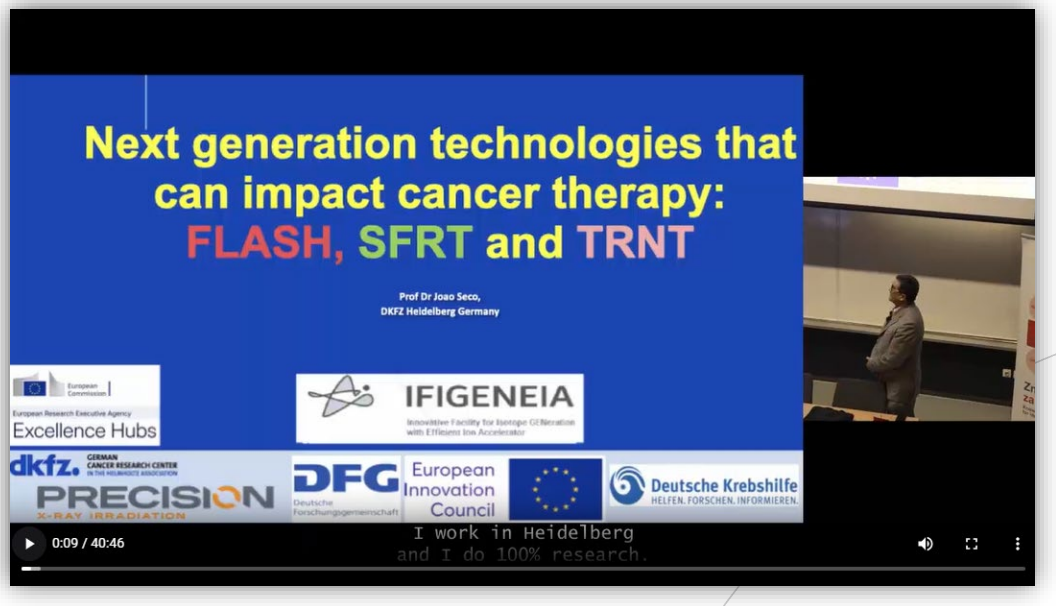
Education, Outreach and Inclusion

Visual and Promotional Materials

- **Videos**: Invited lectures, Masterclasses, etc.

Next generation technologies that can impact cancer therapy: FLASH, SFRT and TRNT.





The IFIGENEIA Team members

Follow our journey and connect with us

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Thank you for your attention!

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www.ifigenia.eu