



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
the European Union

Funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or European Research Executive Agency. Neither the European Union nor the granting authority can be held responsible for them. Grant Agreement No: 101186921.





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



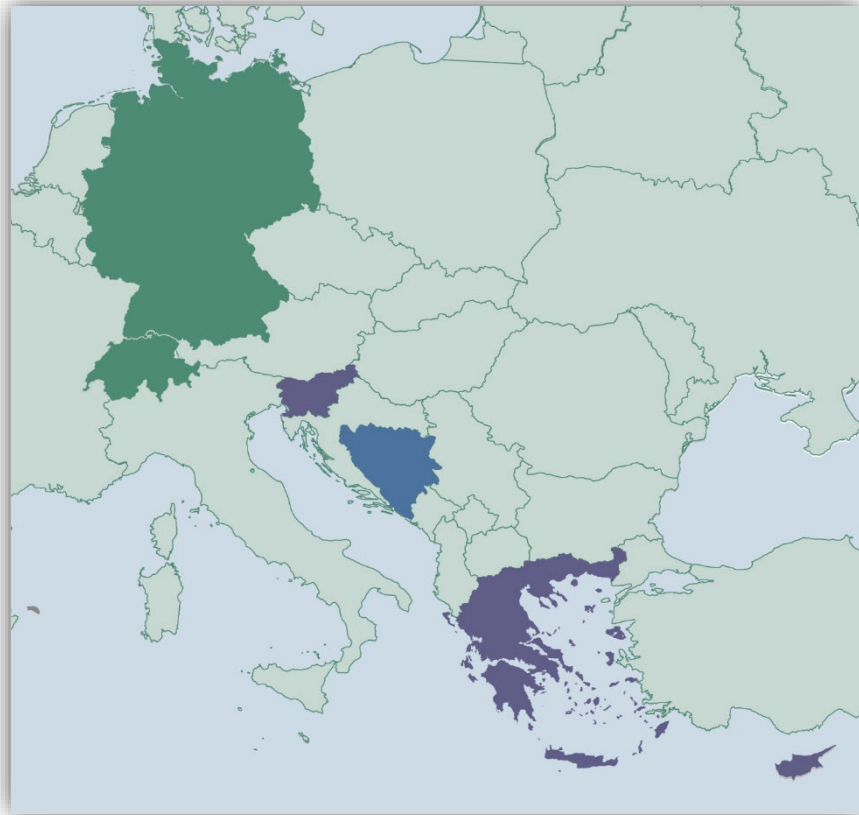
Project overview

- 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.

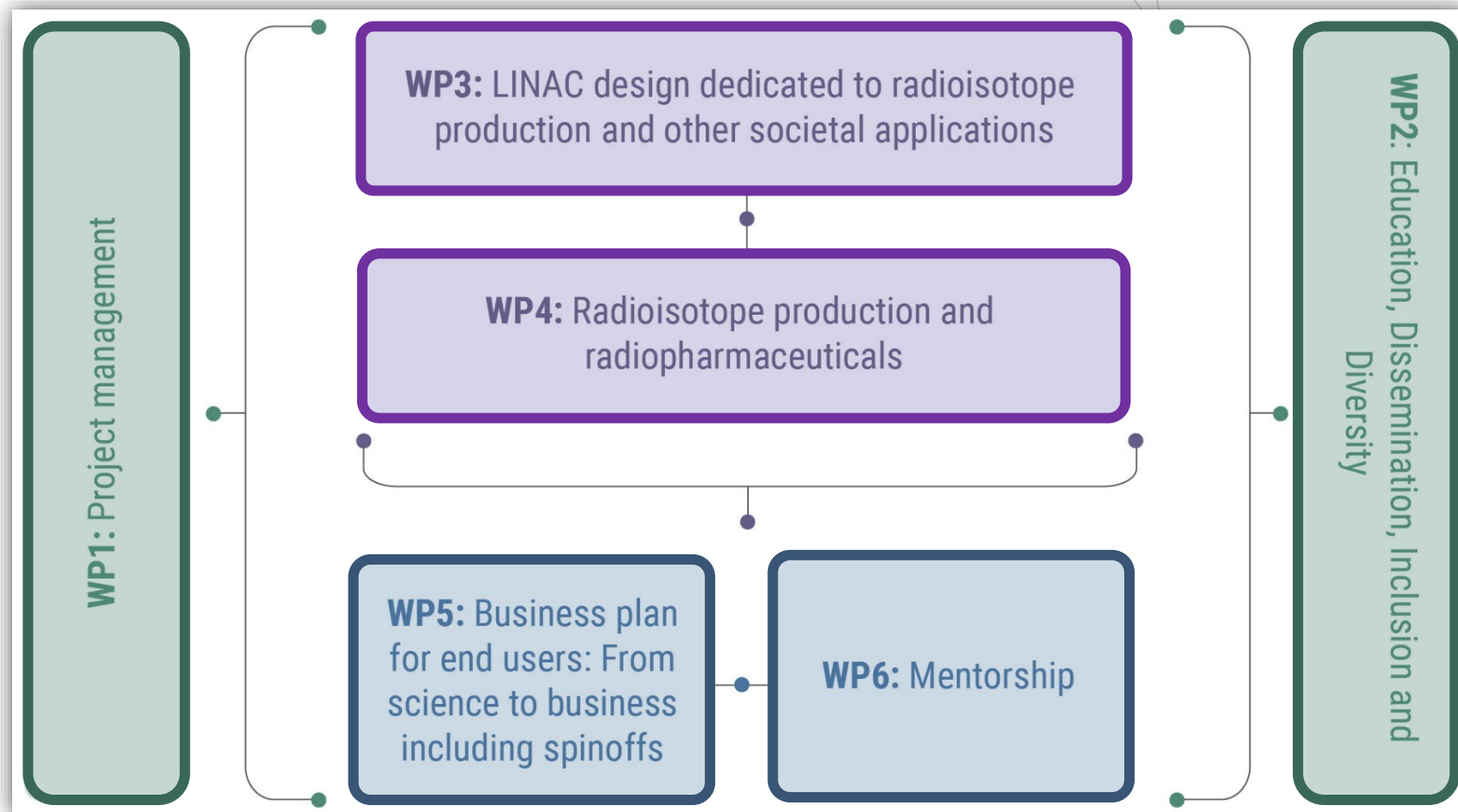
Key Activities

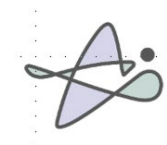
- Technical design and safety studies for a unique LINAC facility targeting to societal and medical applications in Europe.
- Design and develop laboratory infrastructure fully compatible with current Good Manufacturing Practices (cGMP) for production of a wide range of mainstream and emerging radiopharmaceuticals.
- 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/>

The screenshot shows the IFIGENEIA website homepage. At the top, there is a navigation bar with the IFIGENEIA logo and menu items: About, News and Events, Communication, FAQ, and Intranet. The main content area features a large image of a particle accelerator with the text "Particle Therapy Masterclass 2026" and a sub-headline: "Explore cutting-edge particle and hadron therapy techniques with world-leading experts in radiation oncology, medical physics, and accelerator design!". Below this is a "More information" button. At the bottom, there are four statistics: 48 months, 20+ partners, 6 countries, and 6 mio. €.

- Social Media Platforms - LinkedIn

The screenshot shows the IFIGENEIA LinkedIn profile and a post. The profile header includes the IFIGENEIA logo, the tagline "Scientific Knowledge for the Health of Tomorrow", and the company name "IFIGENEIA, Innovative Facility for Isotope GENERation with Efficient Ion Accelerator". Below the header, it shows "Research Services · 291 followers · 1K-5K employees" and "Robert & 47 other connections follow this page". The navigation bar includes "Home", "About", "Posts", "Jobs", and "People". A post is visible, titled "IFIGENEIA, Innovative Facility for Isotope GENERation with Efficient Ion Accelerator", with 291 followers. The post content includes a photo of a group of people at a meeting and the text: "The 2nd IFIGENEIA Annual Meeting was held in Ljubljana, Slovenia, on 7-8 May 2026. ...more". The post also has 2 comments and 13 reposts.

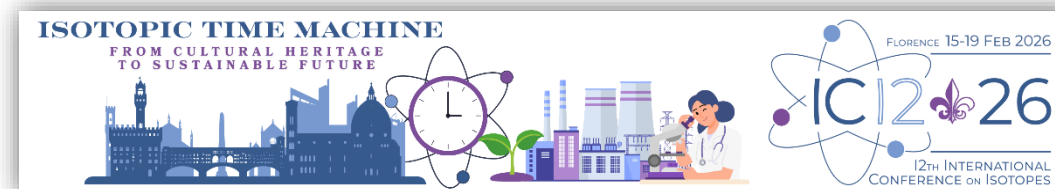
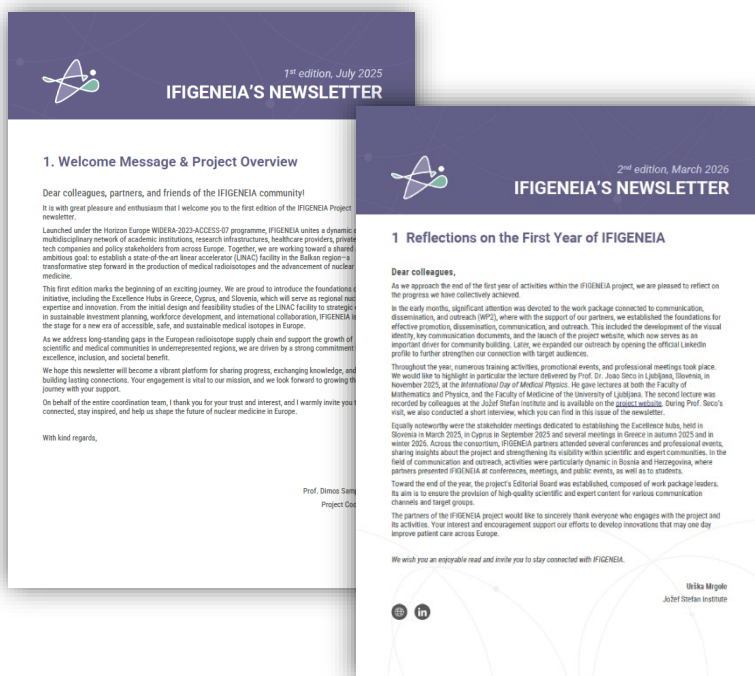


Education, Outreach and Inclusion

- IFIGENEIA Newsletter

- Events

Conferences, meetings, invited lectures



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



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.

IFIGENEIA
Innovative Facility for Isotope Generation
with Efficient Ion Accelerator

Invitation to the Invited Lecture within the IFIGENEIA Project

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

Participation is free of charge.

**Prof. Dr. DABR.
Joao Seco**
*Professor and Division Head,
BioMedical Physics in Radiation Oncology
German Cancer Research Center (DKFZ),
Heidelberg, Germany*

Organizer: MF
UNIVERSITY OF LJUBLJANA Faculty of Medicine

Faculty of Medicine,
University of Ljubljana,
Lecture hall MP, Korytkova 2,
1000 Ljubljana

Tuesday,
Nov 11, 2025
11.00–12.00

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

Prof Dr Joao Seco,
DKFZ Heidelberg Germany

European Commission
European Research Executive Agency
Excellence Hubs

IFIGENEIA
Innovative Facility for Isotope Generation
with Efficient Ion Accelerator

GERMAN
CANCER RESEARCH CENTER
at the Helmholtz Association

PRECISION
X-RAY IRRADIATION

DFG
Deutsche
Forschungsgemeinschaft

European
Innovation
Council

Deutsche Krebshilfe
HELLEN. FORSCHEN. INFORMIEREN.

0:09 / 40:46

I work in Heidelberg
and I do 100% research.

The IFIGENEIA Team members





Follow our journey and connect with us

Coordinator: Aristotle University of Thessaloniki (AUTH), Greece

 sampson@physics.auth.gr

 <https://ifigeneia.eu/>

 <https://www.linkedin.com/company/ifigeneia/>

Thank you for your attention!



The poster features a green and purple color scheme with a background image of particle tracks. The IFIGENEIA logo is in the top right. The main title 'Particle Therapy Masterclass 2026' is in large white font. Below it, the location 'Main Lecture Hall, Jožef Stefan Institute, Jamova cesta 39, 1000 Ljubljana, Slovenia' is listed with a location pin icon. A QR code is provided for registration. The date and time 'Monday, 1 June, 2026, 9:00 AM - 2:45 PM' are in a purple circle. The bottom of the poster contains logos for IRP, Jožef Stefan Institute, FMF, GSI, FAIR, EMNI, dkfz, and CERN.

IFIGENEIA

Particle Therapy Masterclass 2026

Monday, 1 June, 2026
9:00 AM - 2:45 PM

Main Lecture Hall, Jožef Stefan Institute
Jamova cesta 39, 1000 Ljubljana, Slovenia

Registration and more information:

IRP International Particle Physics Outreach Group | Jožef Stefan Institute Ljubljana, Slovenia | FMF Faculty of Mathematics and Physics UNIVERSITY OF LJUBLJANA | GSI | FAIR | EMNI | dkfz | MASTERCLASSES | CERN



Funded by
the European Union

Funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or European Research Executive Agency. Neither the European Union nor the granting authority can be held responsible for them.
Grant Agreement No: 101186921.

www.ifigenia.eu