



Wallonia, a powerful ecosystem
to boost **radiation applications**
in healthcare

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BiOWin

THE HEALTH CLUSTER OF WALLONIA

RADIATION APPLICATIONS IN HEALTHCARE IN WALLONIA

An integrated value chain and a world-renowned ecosystem

- Production of **radionuclides** used worldwide as well as activities in the development of new radionuclides, radiation protection and radioactive waste handling.
- Manufacturing of **radiopharmaceutical products** with the development of generators, cold kits or injection solutions, and turnkey solutions for radiopharmacies.
- **Cyclotron manufacturing and proton therapy solutions.**
- Multiple **R&D programs** within the universities in coordination with public and private R&D centres and hospitals.
- R&D activities with **imaging** and services developed to conduct **preclinical and clinical research up to phase III.**
- Strong network of expertise to complete the whole value chain in **software solutions, regulatory framework, intellectual property and market studies.**
- **Training programs** covering the entire value chain (GMP concepts, nuclear safety, clinical trials, transport, regulatory, etc.).

WALLONIA, A DYNAMIC AND MATURE ECOSYSTEM TO HELP YOU IN DEVELOPPING YOUR PRODUCTS & SERVICES

- **Strong financial support** to innovation from the Walloon Government.
- **Favourable tax environment** and R&D incentives.
- **Public and private investments funds** to support innovation in health.
- **Excellence in academic research and clinical development** with fastest approval process in Europe for Phase I clinical trials (2 weeks).
- **Solid ecosystem** with a large range of support services companies and 5 science parks.
- **Relevant education and training programs.**
- Connection with **national and international networks** dedicated to nuclear applications in healthcare.

BIOWIN, THE HEALTH COMPETITIVENESS CLUSTER OF WALLONIA, A KEY PARTNER IN THE RADIATION APPLICATIONS IN HEALTHCARE COMMUNITY






The cluster is at the heart of a strong and fully integrated ecosystem **from bench to market**. Its role is to build the **bridges** between actors both at the local and the international levels **to foster innovation**. Several collaborative projects of our portfolio are dedicated to radiation applications in healthcare.

Prother-Wal (PROton THERapy Research in WALLonia) : gathering universities, hospitals and the companies IBA and ProtonW.be will be the future **Walloon Proton Therapy Centre** dedicated to research (technology, biology and medical) and treatment of patients.





COMPANIES IN RADIATION APPLICATIONS IN HEALTHCARE

	<p>Development of innovative solutions for the synthesis of theranostic radiopharmaceuticals and to ease their daily production in hospitals.</p>
	<p>Design, manufacturing, and installation of solutions for radiation protection and quality control in radio-pharmacy and nuclear medicine.</p>
	<p>Development, manufacturing and distribution of GMP grade radionuclides for radiopharmaceutical production.</p>
	<p>High-technology medical company which concentrates its activities on proton therapy, dosimetry solutions for radio-pharmacies and particle accelerators for the industry.</p>
	<p>Production of radioisotopes & radiopharmaceuticals for diagnosis and therapy in nuclear medicine. World's leader in Molybdenum-99 production, the 'parent' isotope of Technetium-99, the most used isotope in nuclear medicine for many examinations.</p>
	<p>GMP company focusing on manufacturing of PET tracers under Marketing Authorization and for clinical trials.</p>
	<p>Design, development and manufacturing of multi-purpose radiochemistry synthesizers based on an open platform for the production of radiopharmaceuticals.</p>
	<p>Clinical-stage biotechnology company dedicated to the development and commercialisation of molecular-targeted radiation therapy for the management of prostate, renal and brain cancer.</p>
	<p>Design, development and production of a wide range of radiopharma instruments : synthesizers, dose dispensing and administration equipment, consumables and shielding solutions.</p>


RESEARCH LABORATORIES IN RADIATION APPLICATIONS IN HEALTHCARE

 UCLouvain MIRO	Preclinical and clinical research in oncology, cardiology and neurology. Molecular imaging and radiotherapy. PET and SPECT/CT systems.
 ULB Department of Nuclear Medicine	Research and clinical imaging, mainly for neurosciences, secondarily for all clinical domains including oncology and immunology. Production of most radiotracers routinely used in clinical PET.
 LIÈGE université GIGA - CRC In vivo Imaging	Synthesis of radiopharmaceuticals. Preclinical and clinical research with PET and MRI in neuroscience, oncology and cardiology.
 UNIVERSITÉ DE NAMUR LARN	Accelerator technology and targetry, radiosotope production by accelerator, nuclear reaction analysis, Monte-Carlo Simulation of particle and photon interaction with living or non living matter, radioprotection, hadron and photon radiobiology, life science application of nanoparticle.
 INSTITUT JULES BORDET INSTITUUT	Molecular imaging in clinical and translational research in oncology. Development and clinical implementation of new targeted radionuclide treatments and new radiation approaches for patients.

IMAGING AND RELATED ACTIVITIES

 cmmi Center for Medical Imaging	Integrated preclinical imaging facility which provides services and training for academic and industrial partners.
 NCO RADIOMICS	Provider of Radiomics based solutions used as a novel sensitive endpoint and/or patient stratification tool in oncological clinical trials. Creation of certified and validated decision support algorithms for clinicians.
 OSIMIS IMAGING - SO - WISE	Provider of innovative medical imaging software solutions and related services to enable interoperability of stakeholders in medical research and clinical activities.
 Telemis	Provider of medical image management system to hospitals and clinics - from radiology or endoscopy to pathology and radiotherapy department (PACS and MACS).

NETWORKS

 MEDTECH WALLONIA	Entry point for medical device and digital health in Wallonia.
 Rad4Med.be THE BELGIAN NETWORK FOR RADIATION APPLICATIONS IN HEALTHCARE	Belgian Network for Radiation Applications in Healthcare aimed at creating awareness about the use of radioactivity in healthcare, improving its visibility and promoting Belgian expertise.

Disclaimer: not exhaustive

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