



Implementing verifiable oncological imaging by quality assurance and optimisation

WP3 lead: Shane Foley

UCD, April 26

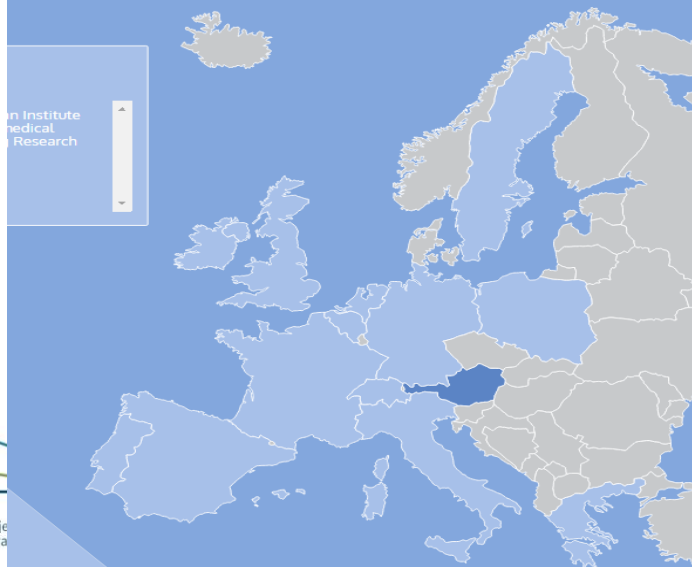




» PARTNERS

Our multidisciplinary consortium combines the expertise of 34 partners from 14 European countries. It includes major universities and research institutes as well as clinical partners.

To find out more about our consortium and its scientists, click on the country on the map below and the individual partner logos.



» MEDIRAD

RECOMMENDATIONS ON IMPLICATIONS OF MEDICAL LOW DOSE RADIATION EXPOSURE

MEDIRAD was designed to have direct implications for the radiological safety of European patients undergoing medical imaging and therapy procedures involving ionising radiation, and of exposed medical professionals. For this purpose, MEDIRAD established evidence-based consensus policy recommendations for enhancing the effective protection of patients and medical professionals, as well as for identifying further research priorities.

[READ MORE](#)

'FOR A BETTER
UNDERSTANDING
OF LOW DOSE
RADIATION RISKS'



Ongoing and recently concluded projects

- **MEDIRAD**

- CTRAD - sophisticated dose evaluation tool (UoC)
- CT-IQURAD – image quality assessment tool (OvGU)

 MEDIRAD

- **SINFONIA**

- Risk evaluation for optimisation aspects for oncological procedure

 SINFONIA

- **EURAMED rocc'n'roll**

- Major focus evaluation, suggestions on AI-based optimisation

 EURAMED
ROCC-N-ROLL
European Medical Application and
Radiation Protection Concept

- **EUCLID**

- Methodology to establish procedures (DRL establishment)

 EUCLID | European Study
on Clinical DRLs





University College Dublin
Ireland's Global University

UCD

univerzitetni
klinični center ljubljana
University Medical Centre Ljubljana

UMCL

KLINIČKA
BOLNICA
DUBRAVA

KBDZ



Escola Superior
de Tecnologia
da Saúde

Politécnico de Coimbra

IPC



UNIVERSITY
OF CRETE

UoC



OvGU



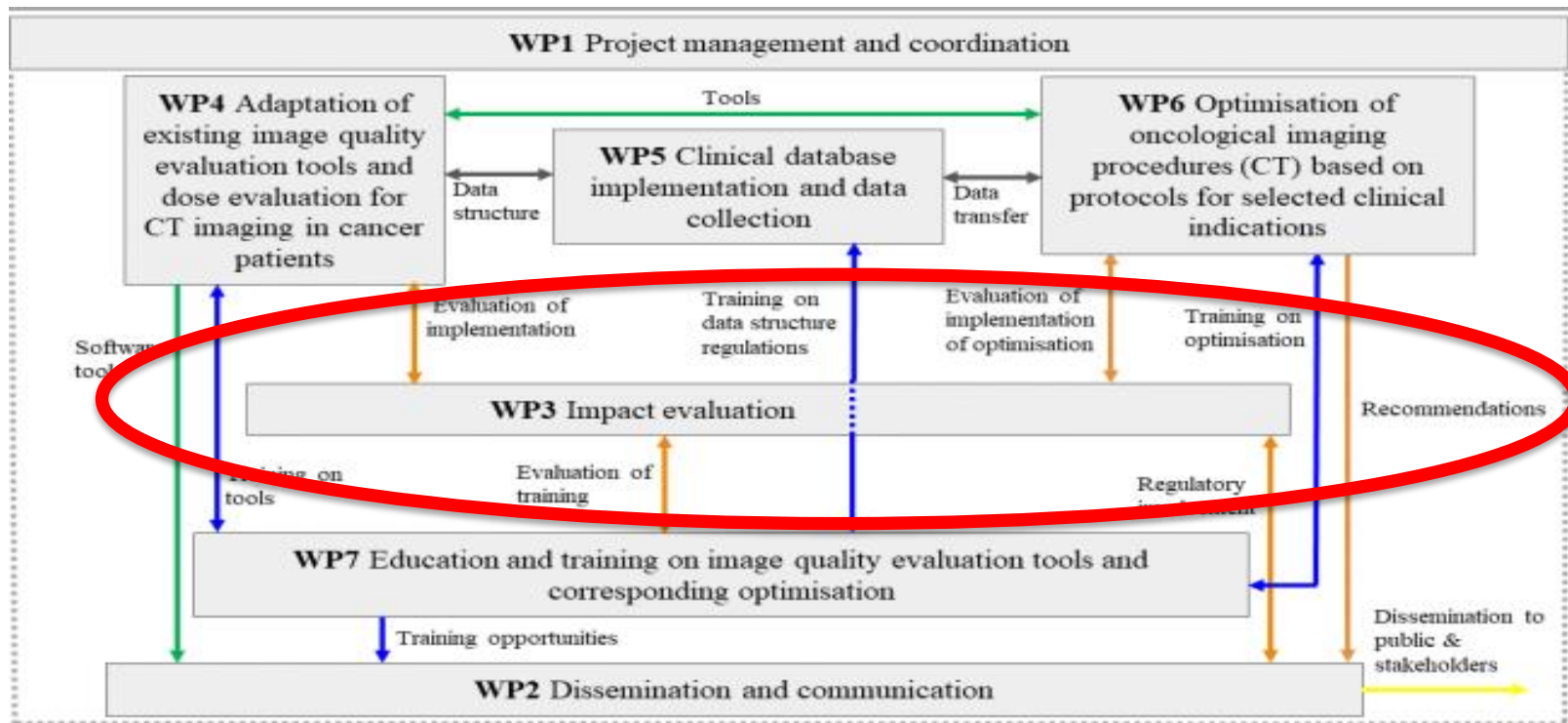
KUL



STUK

Objectives

1. To **implement a standardised way of optimisation in oncological imaging** approaches in **clinical practice** by adapting and deploying **tools for quantifiable image quality assessment** as well as by validating **commercially available software solutions for patient dose determination** in imaging procedures, using the output of the **MEDIRAD** and other EC-funded projects.
2. To **implement such tools** and the proposed optimised procedures in (university) **hospitals throughout Europe** that are members of the i-Violin consortium,
3. To **disseminate these tools and optimised procedures** to interested hospitals and healthcare providers in Europe to contribute towards a harmonised and standardised oncological imaging approach.
4. To provide a **suitable education and training programme for radiologists, radiographers and medical physicists** to be able to use the harmonisation tools.
5. To **disseminate the results to policymakers, the medical societies** and other relevant stakeholders to foster uptake and implementation.



WP no.	WP name	Lead	Start month	End month	Deliverables & Milestones
1	Project management and coordination	EIBIR	1	24	D1.3, D1.1, D1.2, D1.4 MS1, MS2
2	Dissemination and communication	OvGU	1	24	D2.2, D2.4, D2.3, D2.5, D2.1 MS3
3	Impact evaluation	UCD	6	24	D3.1, D3.2, D3.3 MS4, MS5
4	Adaptation of existing image quality evaluation tools and dose evaluation for CT imaging in cancer patients	OvGU	1	24	D4.1, D4.2 MS6, MS7
5	Clinical database implementation and data collection	UMC-Mainz	1	24	D5.1 MS8, MS9
6	Optimisation of oncological imaging procedures (CT) based on protocols for selected clinical indications	KUL	1	24	D6.1, D6.2 MS10, MS11
7	Education and training on image quality evaluation tools and corresponding optimisation	IPC	1	24	D7.1, D7.2 MS12

Key facts

❑ Starting date: **1 September 2022**

❑ End date: **31 August 2024**

❑ Budget:

Total eligible costs	Funding rate (%)	Maximum grant amount
1 172 487.81	80	937 990.23

❑ 10 partners:

No.	Partner	Acronym
1	EIBIR Gemeinnützige GmbH zur Förderung der Erforschung der Biomedizinischen Bildgebung	EIBIR
2	Otto-Von-Guericke-Universitaet Magdeburg	OVGU
3	Universitaetsmedizin der Johannes Gutenberg-Universitaet Mainz	UMC-Mainz
4	Instituto Politecnico de Coimbra	IPC
5	Panepistimio Kritis	UoC
6	Klinicka Bolnica Dubrava Zagreb	UCHD
7	Univerzitetni Klinicni Center Ljubljana	UMCL
8	Katholieke Universiteit Leuven	KUL
9	University College Dublin, National University of Ireland, Dublin	UCD
10	Sateilyturvakeskus	STUK

BUDGET

WORK PACKAGE 2	WP3
	A.1 Employees (or equivalent)
Junior experts/advisors/researchers	monthly 4,132.67 16.00 66,122.72 Yes WP2, WP6, WP7
Senior experts/advisors/researchers	monthly 10,047.00 2.20 22,103.40 Yes WP2, WP6, WP7
	Other

Speakers

Travel costs	3,600.00	0.00	0.00	0.00
Accommodation costs	2,400.00	0.00	0.00	0.00
Subsistence costs	2,400.00	0.00	0.00	0.00

Yes WP2, WP6, WP7	Travel by UCD team members (2) to clinical sites (3) and for training events (3). 2 team members x 6 travels. 300 budgeted for return flights.
Yes WP2, WP6, WP7	Travel by UCD team members (2) to clinical sites (3) and for training events (3). 2 team members x 6 travels. 200 budget for accommodation for 2 nights.
Yes WP2, WP6, WP7	Travel by UCD team members (2) to clinical sites (3) and for training events (3). 2 team members x 6 travels. 200 budgeted for 48 hours subsistence.

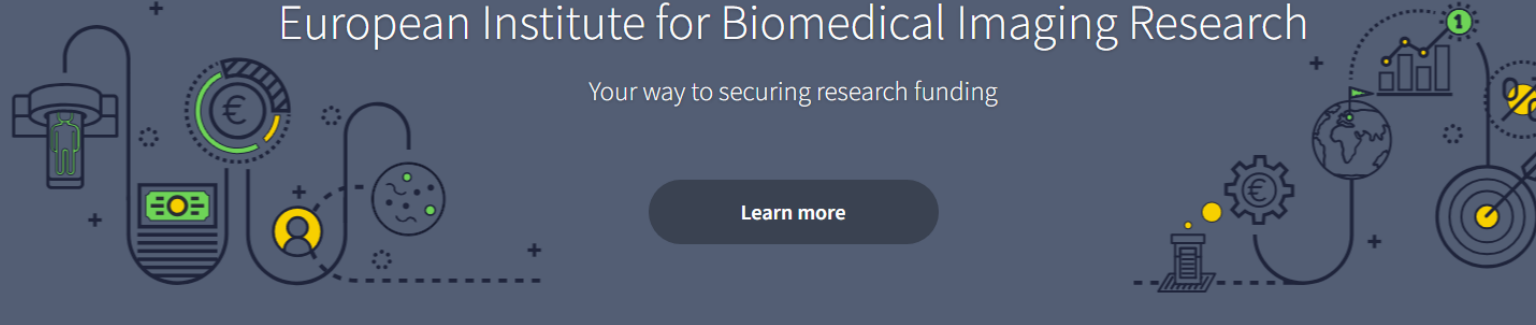
Personnel

WORK PACKAGE 2	WP3
	Costs (actual costs)
Consumables	1,000.00
Conferences, seminars, workshops, trainings & events	0.00
Information & publications	3,000.00
Other expenses	

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Project management



Proposal writing



Dissemination and communication



Evaluation Summary Report

Evaluation Result

Total score: 83.00 (Threshold: 70)

Criterion 1 - Relevance

Score: **26.00** (Threshold: 21/30.00 , Weight: -)

The detailed criteria are set out in the call conditions (see Call document).

The i-Violin action proposal clearly contributes to Europe's Beating Cancer Plan.

The proposal sets an ambitious goal of adaptation of the image quality assessment tool for imaging procedures in the abdominal and pelvic areas of the human body. It touches a very important issue of radiation safety and optimization of exposure. The problem addressed in the proposal has a universal character and is valid in all countries using oncological imaging. This universal character is a strong point of the proposal.

Criterion 2.1 Quality — Project design and implementation

Score: **25.00** (Threshold: 21/30.00 , Weight: -)

The detailed criteria are set out in the call conditions (see Call document).

The proposal has a clear structure, presenting the concept in an easy to understand manner. The work packages have been described generally in a pertinent way, presenting appropriate division of responsibilities between proposal partner institutions.

However, in some part of the application the details are too scarce, e.g. in the description of WP3 Impact evaluation, the proposal does not sufficiently describe the planned survey. Similarly, in the description of WP6, task T6.1, interviews among hospital staff is mentioned, but it does not sufficiently provide estimated count of those interviews to be performed. Similarly, details on the various procedures to be developed for image quality assessment and dose evaluation are not fully reported and described tasks are more in terms of available platforms for the work to be carried out.

Criterion 3 - Impact

Score: **7.00** (Threshold: 7/10.00 , Weight: -)

The detailed criteria are set out in the call conditions (see Call document).

Ambition of the proposal is adequate to the objectives of the call and main activity will cover an extension of the image quality tool for chest CT, previously developed in another EC funded proposal (MEDIRAD), to other body regions (abdomen, pelvis). Short- and mid-term impacts are very clear and consistent with the need to test the developed tools in the clinical context and then involve more hospitals for harmonisation purposes across Europe.

For the long-term perspective, there is concern on the actual implementation of the developed CT procedures within commercial units since pertinent healthcare companies have not been directly involved among the target groups and only a generic co-operation with industry is mentioned.

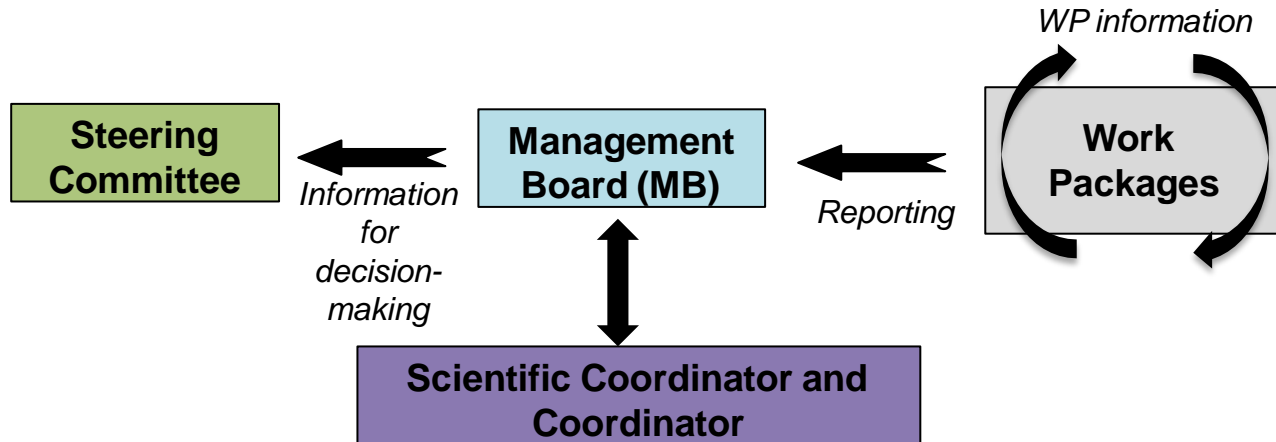
W P 1 : Project management and coordination

Communication

Efficient collaboration and communication is key for the best possible outcome of the project. Keep all partners transparently informed about project status, work planning, etc.

Communication tools

- Email lists
- Online meeting tool
- Online collaboration platform



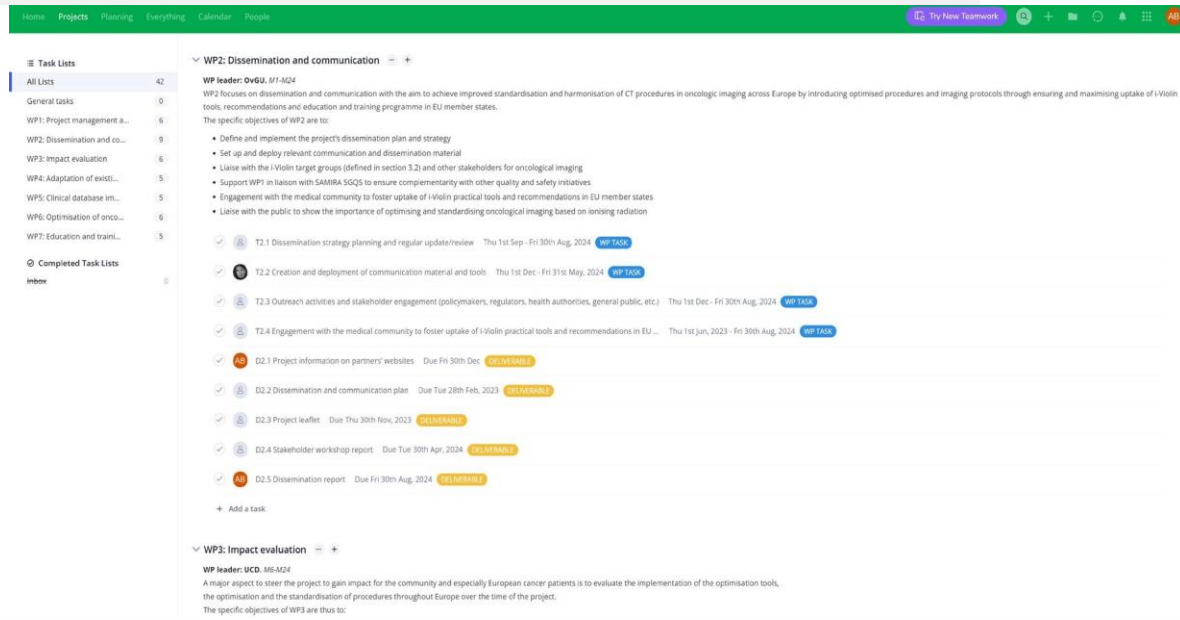
W P 1 : Project management and coordination

Teamwork

EIBIR Teamwork platform

- Allows secure consortium internal communication, secure file exchange, and efficient monitoring and quality assurance

All tasks and milestones will be tracked using this platform. General information (meeting agendas, reporting information, templates) will be distributed and shared centrally.



The screenshot displays the EIBIR Teamwork platform interface. The top navigation bar includes links for Home, Projects, Planning, Everything, Calendar, and People. A sidebar on the left shows a 'Task Lists' section with a list of tasks and their counts. The main content area displays details for 'WP2: Dissemination and communication'. It includes a description of the work package, its objectives, and a list of tasks with their due dates and status (e.g., 'WP TASK', 'COMPLETABLE').

Task Lists

- All Lists: 42
- General tasks: 0
- WP1: Project management a...: 6
- WP2: Dissemination and co...: 9
- WP3: Impact evaluation: 6
- WP4: Adaptation of existi...: 5
- WP5: Clinical database im...: 5
- WP6: Optimisation of onco...: 6
- WP7: Education and traini...: 3
- Completed Task Lists: 0

WP2: Dissemination and communication

WP leader: OvdG, IFT-AG24

WP2 focuses on dissemination and communication with the aim to achieve improved standardisation and harmonisation of CT procedures in oncologic imaging across Europe by introducing optimised procedures and imaging protocols through ensuring and maximising uptake of i-Violin tools, recommendations and education and training programme in EU member states.

The specific objectives of WP2 are to:

- Define and implement the project's dissemination plan and strategy
- Set up and deploy relevant communication and dissemination material
- Liaise with the i-Violin target groups (defined in section 3.2) and other stakeholders for oncological imaging
- Support WP1 in liaison with SAMIRA SQ25 to ensure complementarity with other quality and safety initiatives
- Engagement with the medical community to foster uptake of i-Violin practical tools and recommendations in EU member states
- Liaise with the public to show the importance of optimising and standardising oncological imaging based on ionising radiation

Tasks:

- T2.1 Dissemination strategy planning and regular updates/review: Thu 1st Sep - Fri 30th Aug, 2024 (WP TASK)
- T2.2 Creation and deployment of communication material and tools: Thu 1st Dec - Fri 31st May, 2024 (WP TASK)
- T2.3 Outreach activities and stakeholder engagement (policymakers, regulators, health authorities, general public, etc.): Thu 1st Dec - Fri 30th Aug, 2024 (WP TASK)
- T2.4 Engagement with the medical community to foster uptake of i-Violin practical tools and recommendations in EU...: Thu 1st Jun, 2023 - Fri 30th Aug, 2024 (WP TASK)
- D2.1 Project information on partners' websites: Due Fri 30th Dec (COMPLETABLE)
- D2.2 Dissemination and communication plan: Due Tue 28th Feb, 2023 (COMPLETABLE)
- D2.3 Project leaflet: Due Thu 30th Nov, 2023 (COMPLETABLE)
- D2.4 Stakeholder workshop report: Due Tue 30th Apr, 2024 (COMPLETABLE)
- D2.5 Dissemination report: Due Fri 30th Aug, 2024 (COMPLETABLE)

WP3: Impact evaluation

WP leader: UCD, MS-AG24

A major aspect to steer the project to gain impact for the community and especially European cancer patients is to evaluate the implementation of the optimisation tools, the optimisation and the standardisation of procedures throughout Europe over the time of the project.

The specific objectives of WP3 are thus to:

LESSONS LEARNED

Start early

- Detail, detail, detail

Get UCD legal on board early...

Start recruitment early...

Expect issues with recruitment...

Timeline

18.8. 1st draft general concept - scientific outline

23.8. WP descriptions 1st draft

25.8. 1st draft dissemination

27.8. 1st draft impact, 1st draft budgets

3.9. graphs/charts; first draft to partners

LOOKING FORWARD TO QUESTIONS

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