

# Aktuelle Beteiligung an EU-Projekten

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# Überblick

## Laufende Projekte:

- ▶ Regionale Zusammenarbeit für Ionentherapie – *ReglonCo*
- ▶ Particle Training Network for European Radiotherapy – *PARTNER*

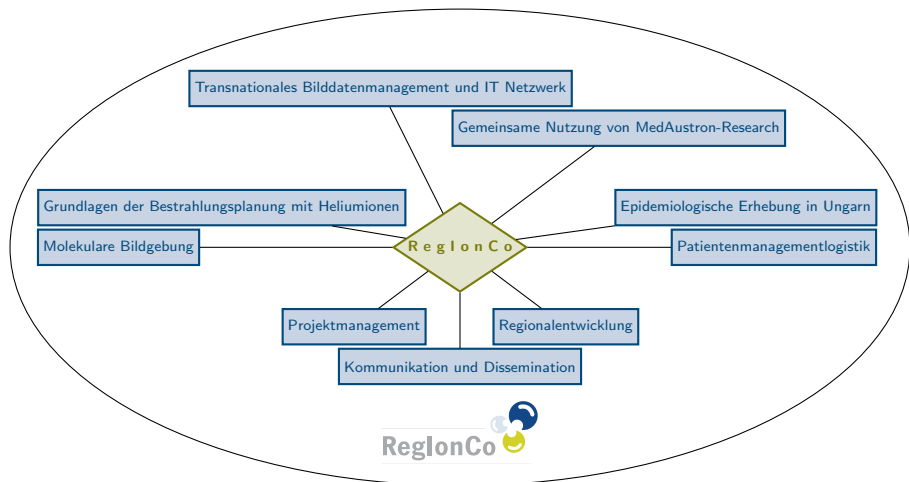
## Genehmigte Projekte:

- ▶ Union of Light Ions Centres in Europe – *ULICE*
- ▶ European Novel Imaging Systems for Ion Therapy – *ENVISION*

## Eingereichte Projekte:

- ▶ Central European Network on Hadrontherapy Technology – *HadroNet*

# Regionale Zusammenarbeit für Ionentherapie



# Particle Training Network for European RT

Training of 25 researchers (early stage and experienced researches) in three main categories: **clinical**, **biological**, and **instrumentation**.

1. Clinical Studies
2. Epidemiology and Patient Selection
3. Radiobiology
4. *Treatment Planning*
5. Simulation and Dosimetry
6. Image-Guided Hadron Therapy
7. PET prototype for in-situ monitoring
8. Novel gantry design
9. ICT and GRID prototype
10. Novel accelerator concepts for hadron therapy

# Union of Light Ions Centres in Europe

## Joint Research Activities – JRA

- WP 2: Clinical research infrastructure
- WP 3: Biologically based expert system for individualized patient allocation
- WP 4: Ion therapy for intra-fractional moving targets
- WP 5: Adaptive treatment planning for ion radiotherapy
- WP 6: Carbon ion gantry
- WP 7: Common database and grid infrastructures for improving and catalysing access to RI for the broad European community

## Transnational Access – TA

- WP 11: Implementation of TA
- WP 12: TA at UKL-HD
- WP 13: TA at CNAO

## Networking Activities – NA

- WP 8: Communication and dissemination for promoting hadron-therapy research facilities to end-users
- WP 9: Recommendations for further improvement and investments of the current and future hadron RI
- WP 10: Development and spreading of Europe wide common protocols standardizing operational procedures to facilitate access to hadron-therapy facility and intercomparison of results

# European Novel Imaging Systems for Ion Therapy



Project Management

Time-of-Flight in-beam PET

In-beam single particle tomography

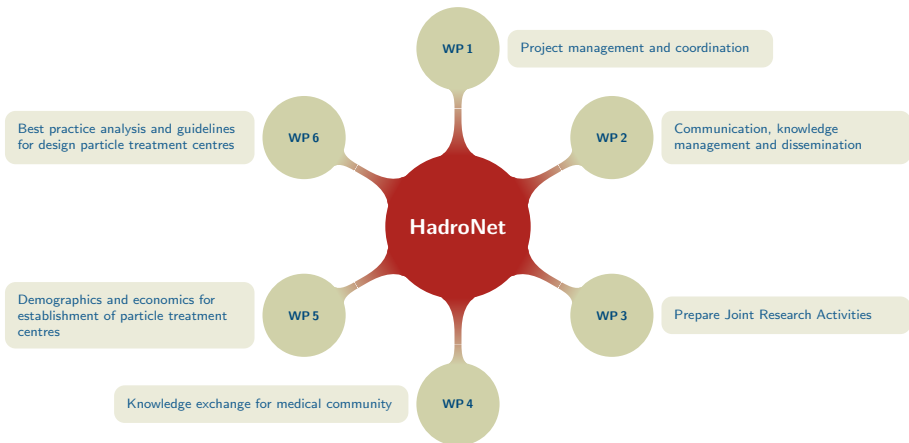
Particle therapy in-vivo dosimetry and moving target volumes

The combination of in-vivo dosimetry, treatment planning, and clinical relevance

Monte Carlo simulation of in-vivo dosimetry

Dissemination, Communication and Outreach

# European Network on Hadrontherapy Technology



# Zusammenfassung

	ReglonCo	PARTNER	ULICE	ENVISION	HadroNet
Programm	ETZ	FP 7	FP 7	FP 7	ETZ
Start	Juli 2008	Okt. 2008	? 2009	? 2009	? 2010
Dauer	3 Jahre	4 Jahre	4 Jahre	4 Jahre	3 Jahre
Partner	10	10	20	15	13
Arbeitspakete	9	10	13	7	6