



HadroNET

Central European Network on Hadrontherapy Technology

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**CENTRAL
EUROPE**
COOPERATING FOR SUCCESS.



EUROPEAN UNION
EUROPEAN REGIONAL
DEVELOPMENT FUND



Call for proposals for the **CENTRAL EUROPE 7.01-18.03.2009**

<http://www.central2013.eu>

CENTRAL EUROPE is a EU programme that encourages cooperation among the countries of CE to:

- improve innovation, accessibility and the environment
- enhance the competitiveness and attractiveness of their cities and regions.

CENTRAL EUROPE invests €231 million in 2007-2013 to transnational cooperation projects involving organisations from Austria, the Czech Republic, Germany, Hungary, Italy, Poland, the Slovak Republic and Slovenia.





Preparation of the proposal

**Initiative and active support
during the preparation of the
project:**

- Majnit Dosanjh
- Hans R. Hofmann
- Pavel Kundrat



Preparation of the text

PNO Consultants : Paolo
Salvatore, Ron Weerdmeester,
Maria Bianco



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Inspire Improve Impact



IFJ Krakow as the coordinator

-the biggest Institute of Polish Academy of Sciences, 520 personal and Ph.D. students

- 1978- 1993 550 patients for fast neutron radiotherapy (U-120 cyclotron)

- project of protontherapy of eye melanoma using AIC-144 cyclotron—first patient at the end of 2009

- new 230-250 MeV cyclotron project approved, in operation 2013

-IFJ coordinates the National Consortium of Hadron Radiotherapy in Poland





HadronET partners

1	Institute of Nuclear Physics Polish Academy of Sciences (IFJ PAN)	Pawel	Olko	
2	CERN European Organization for Nuclear Research	Manjit	Dosanjh	
3	Ion Beam Applications - IBA	Damien	Bertrand	
4	EBG MedAustron GmbH	Thomas	Schreiner	
5	Medical University Vienna	Dietmar	Georg	
6	Medical University of Warsaw (WMU)	Leszek	Królicki	
7	The Soltan Institute for Nuclear Studies (IPJ)	Anna	Wysocka - Rabin	
8	Warsaw University of Technology (WUT)	Natalia	Golnik	
9	University of Warsaw (UW)	Zygmunt	Szefliński	
10	Institute of Physics of the AS CR, v. v. i. (FZU)	Pavel	Kundrat	
11	University Hospital Na Bulovce	Vladimír	Vondráček	
12	Slovak Medical University (SZU)	Marko	Fulop	
13	National Centre of Hadrontherapy - CNAO Foundation	Alfredo	Mirandola	

HadronNET Partners





The aims of the HadroNET project

- **preparing the ground for future large scale investments** in and deployment of hadrontherapy research and treatment centres in Central Europe,
- **providing durable mechanisms** that enable access of these countries to the latest scientific knowledge to foster research, development and innovation towards better cancer treatment all over Europe.



Specific objectives of HadroNET

- 1. Promote the hadrontherapy facilities** to the researchers and to the medical community in Central European Countries;
- 2. Increase the awareness** of policy makers, researchers and medical communities of Central European Countries on the new possibilities offered to cancer patients by using hadron-therapy for treatment;
- 3. Improve the access for patients and specialists** to hadron radiation therapy
- 4. Provide specific guidelines and economic evaluation** criteria to pave the way for future investments in hadrontherapy facilities within Central European countries;
- 5. Create a platform for exchanging knowledge** among the research and medical community in Central European countries related to hadrontherapy;
- 6. Support of preparation of particular hadrontherapy projects in Central Europe,**
- 7. Support the collection of technical information required for proposals** on one or more pilot particle therapy centres in participating Central European countries.



Work packages

- WP1 Project management and coordination (IFJ PAN)
- WP2 Communication, knowledge management and dissemination (WUT)
- WP3 Prepare joint Research Activities (CERN)
- WP4 Knowledge Exchange & Training (Med AUSTRON)
- WP5 Demographics and economics for establishment of particle treatment centres (CNAO)
- WP6 Best practice knowledge exchange of technical design of particle treatment centres (IPJ)



WP3 Prepare joint Research Activities

- Identify research topics which have synergy with existing projects
- Knowledge exchange targeted to physicians
- Development of cross-border research programme on hadron technology in central European countries (innovations should come from CE partners)
- Cooperation with PARTNER programme (including Requirements for a medical information and communication technologies infrastructure in Central European countries)



WP4 Knowledge Exchange & Training

- Defining training needs of technical/medical staff for pilot hospitals
- Level of training (program of training – operators, nurses, oncologist)
- Mechanism for delivery of training (how are you going to deliver training – exchange, secondments, convincing oncologists)
- European protocols for intercomparison of results
- Short visits for knowledge exchange of medical doctors to existing centres in western Europe
- Cooperation with PARTNER programme.



WP5 Demographics and Economics for establishment of particle treatment centres

- Collecting the statistics of cancer cases in Central European countries, well-suited for hadrontherapy prospective patient numbers & (cross-border) demographic spread of patients
- Decision on the location of centres (cooperation with ULICE)
- Projected cost of staff training & Investment planning & operating costs
- Model and procedures for calculating treatment costs, the so obtained information will have to be transmitted to the relevant policymakers (as a feasibility study) which may decide to finance the centres building



WP6 Best practice knowledge exchange of technical design of particle treatment centres

6.1) Best practice knowledge exchange of technical design of particle treatment centres, which in turn includes:

- Best practices analysis for CEE purposes
- Development of technical specifications
- Functional design specifications

6.2) Expert-group for advising on building of new Hadrontherapy facilities in CE - synchrotrons and cyclotrons



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Budget break down

Microsoft Excel - 02_Central Europe_2nd call_Application Form HadroNet

Plik Edycja Widok Wstaw Format Narzędzia Dane Okno Pomog

Wpisz pytanie do Por

Trebuchet MS 7 B I U % 000

G6 fx 0

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Section 5: Project budget

Table 4: Budget break down #1

		WP 0	WP 1	WP 2	WP 3	WP 4	WP 5	WP 6	Total eligible	%
6	Staff costs	0.00 €	90.000.00 €	74.650.00 €	325.900.00 €	156.200.00 €	153.950.00 €	305.000.00 €	1.105.700.00 €	51.79%
7	Administration cost	0.00 €	10.000.00 €	25.000.00 €	30.800.00 €	24.400.00 €	19.000.00 €	43.500.00 €	152.700.00 €	7.15%
8	External expertise	20.000.00 €	0.00 €	18.200.00 €	2.100.00 €	64.000.00 €	50.300.00 €	68.000.00 €	222.600.00 €	10.43%
9	Travel/accommodation	0.00 €	10.000.00 €	64.000.00 €	87.300.00 €	147.300.00 €	32.750.00 €	75.100.00 €	416.450.00 €	19.51%
10	Meetings and events	0.00 €	20.000.00 €	49.500.00 €	50.500.00 €	27.200.00 €	3.500.00 €	4.500.00 €	155.200.00 €	7.27%
11	Promotion costs	X	0.00 €	24.650.00 €	2.300.00 €	2.900.00 €	2.500.00 €	4.500.00 €	36.850.00 €	1.73%
12	Equipment	X	10.000.00 €	4.000.00 €	9.100.00 €	5.000.00 €	8.000.00 €	9.400.00 €	45.500.00 €	2.13%
13	Investments	X	X	X	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00%
14	Other	X	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00 €	0.00%
15	Total	20.000.00 €	140.000.00 €	260.000.00 €	508.000.00 €	427.000.00 €	270.000.00 €	510.000.00 €	2.135.000.00 €	
16	WP Reference Total	20.000.00 €	140.000.00 €	260.000.00 €	508.000.00 €	427.000.00 €	270.000.00 €	510.000.00 €	2.135.000.00 €	
17	%	0.94%	6.56%	12.18%	23.79%	20.00%	12.65%	23.89%		

Cover Sheet / Basic information / Project outline / Investment / Work plan / Partnership and Budget / Project budget / Timeline

Gotowy Suma=100.000.00 €



Waiting for the project evaluation...

- **CENTRAL EUROPE Programme received 179 projects**
- **almost 340 Million Euro ERDF requested**
- **total CE budget for 2007-2013 is 231 Million Euro**



Acknowledgements

....to all colleagues who very actively collaborated in the preparation of the HadroNET project proposal