

ENLIGHT:

Education & Training

Manjit Dosanjh
CERN&ENLIGHT

www.cern.ch/enlight

ENLIGHT was launched 15 years ago

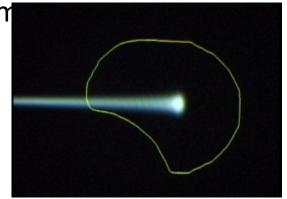
- ENLIGHT was launched in February 2002 at CERN
- Idea germinated in 2001 in MedAustron meeting where PIMMS was presented



Organisers: Manjit Dosanjh & Hans Hoffmann

ENLIGHT was established to collaborate

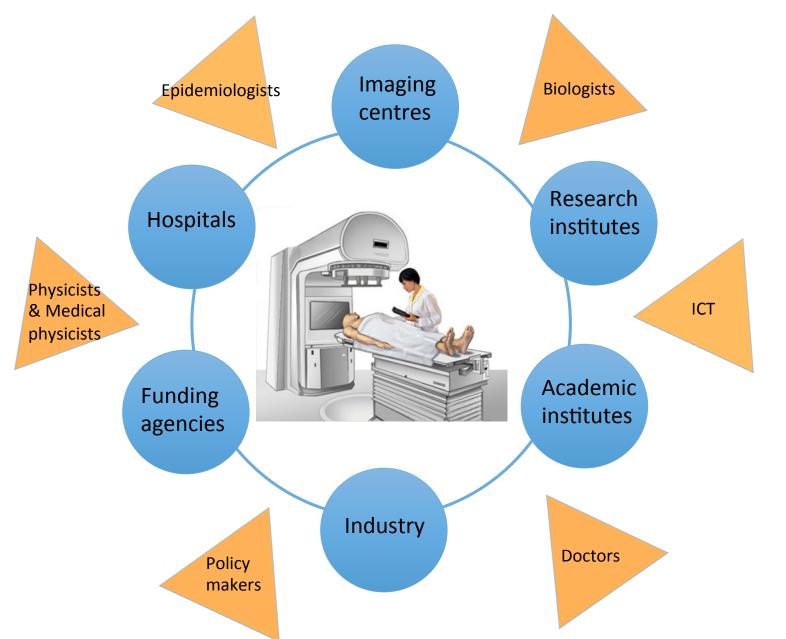
- Create common multidisciplinary platform
- Cancer treatment
- Identify challenges
- Share knowledge
- Share best practices
- Harmonise data
- Provide training, education
- Innovate to improve
- Lobbying for funding
- Raising awareness





Leveraging Physics collaboration philosophy into a multidisciplinary medical environment

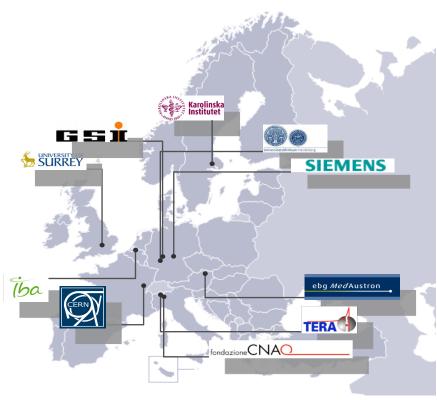
ENLIGHT is an open collaborative network



PARTNER – a success story

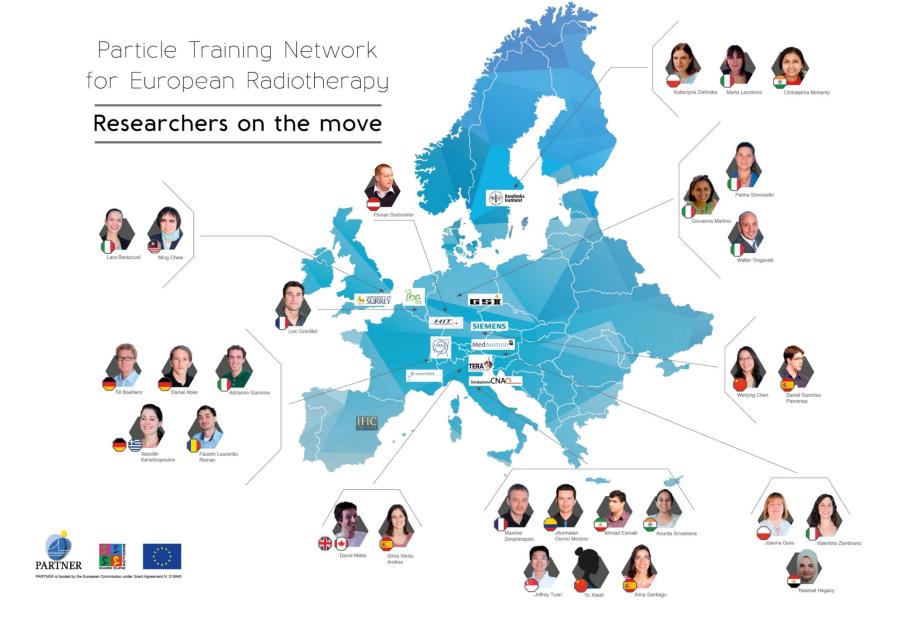
- Particle Training Network for European Hadrontherapy
- 10 academic institutes, research centres, 2 leading companies
- 29 young researchers

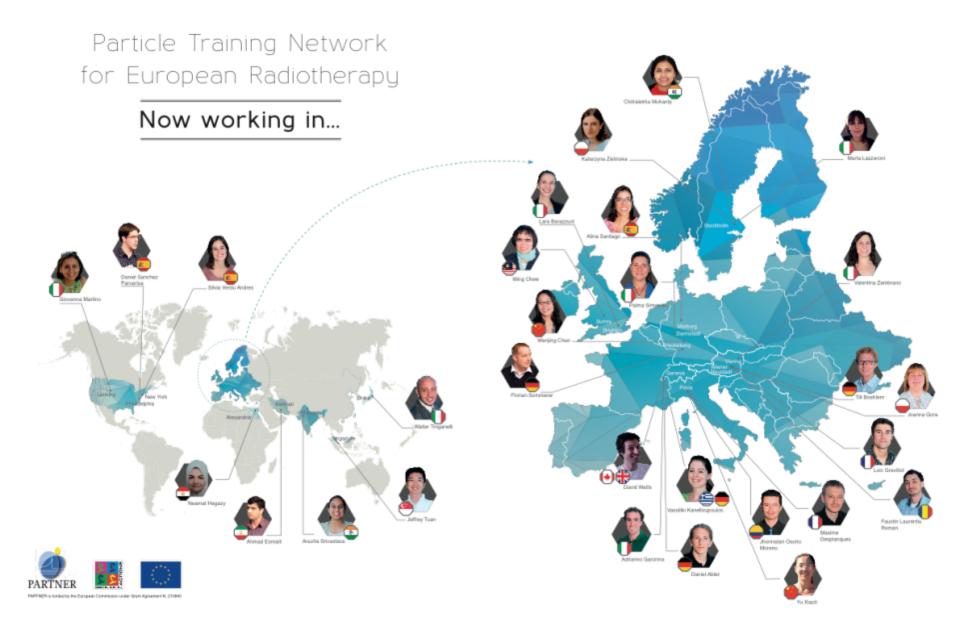




Outcome:

- Now working around the World
- Open access PARTNER-JRR

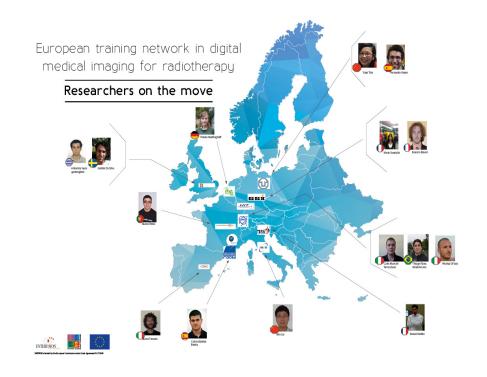




ENTERVISION

- Training Network for medical imaging
- 10 academic institutes, research centres, IBA leader PT
- 12 Early Stage Researchers
- 3 Experienced Researchers





Outcome:

- 11 PhDs
- Over 30 posters, 50 oral presentations and 35 publications
- Patent for prompt gamma camera
- Frontiers in Oncology: Special Issue with 11 articles written by Entervision researchers in an openaccess journal

http://journal.frontiersin.org/researchtopic/3520/ charged-particles-in-oncology

15 THINGS in 15 YEARS!

700 members from all continents

25+ countries

15 annual meetings

5 EU projects

45 Marie Curinary ders

2 dedicated issues in open-curinals

200+ journal publications

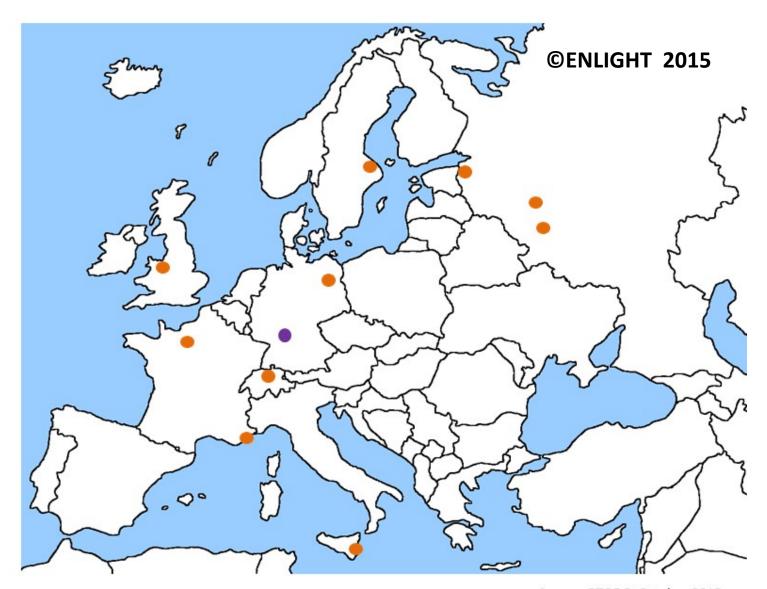
500+ posters are intidiscillances
4 Physic
10+ vir' global animations
2 Opean Productions

4 Physics for Health conferences

8 ENLIGHT Highlights

50 outreach articles/news

Particle therapy centres in Europe - 2002



C-ion centres

P centres

Source: PTCOG, October 2015

Particle Therapy Centres in Europe

2016

In operation:

Proton

Dual Ion

Under construction:

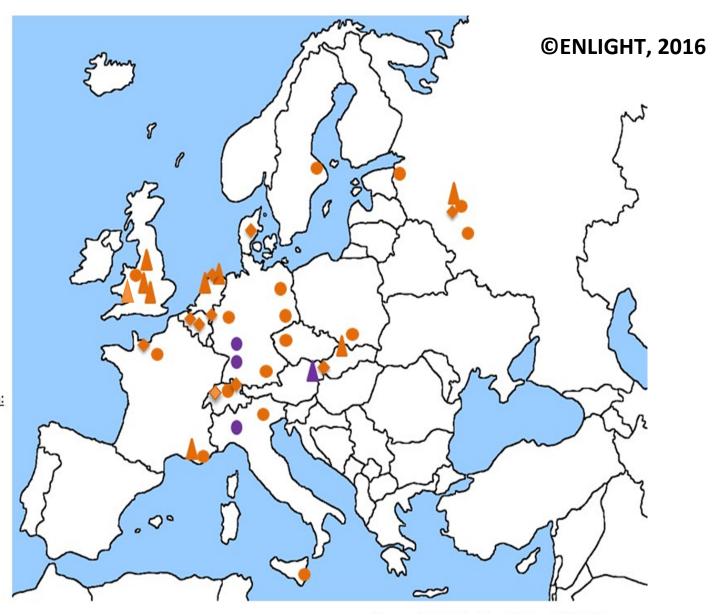
Proton

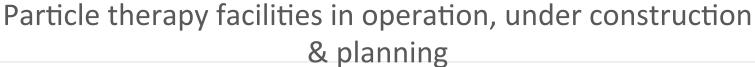
Dual Ion

Being planned:

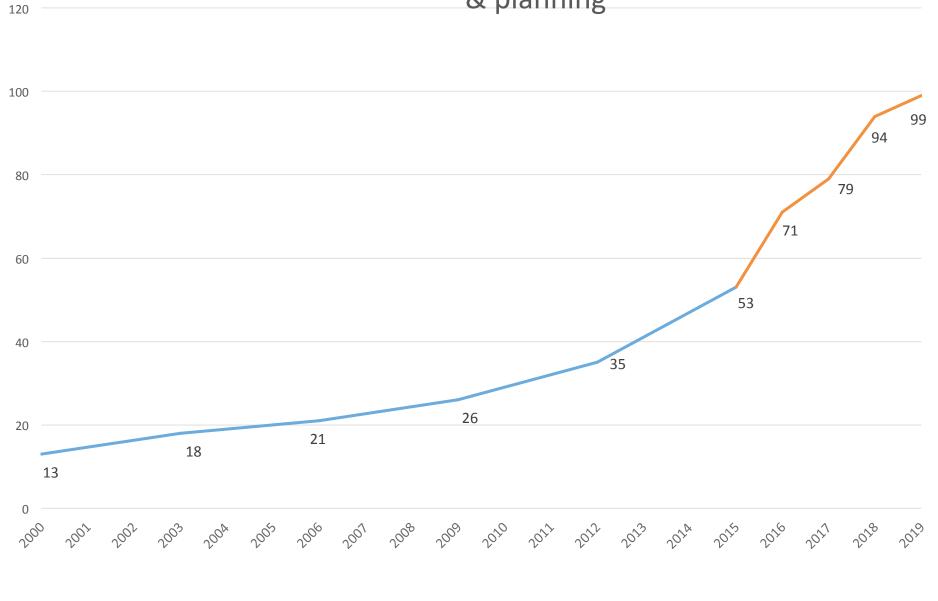
Proton

Dual Ion



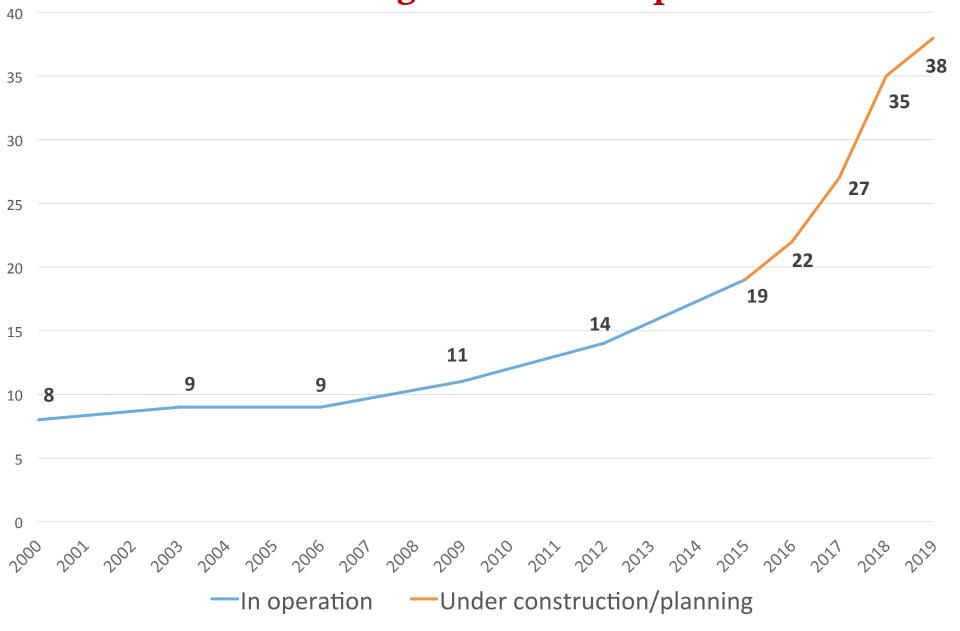


-Under Construction/Planning



in Operation

Particle Therapy Facilities in Operation & Construction/ Planning Phase in Europe



ENLIGHT: meet urgent need for education & training

ENLIGHT Project submitted to CERN & Society Foundation for training and education in 2016 and just approved:

Project comprises of three types of training:

- 1. Introductory Multidisciplinary Training
- 2. Advanced Training including hands-on
- 3. Individual longer-term internship







ENLIGHT 2017: training at Aarhus



Participants in the training



ENLIGHT 2018 will be held in London 25-27 June

Looking forward to seeing you there www.cern.ch/enlight