MEDICIS-PROMED : an ITN Marie-Curie network on nuclear medicine and ^{11}C-based hadron therapy

Johanna Pitters on behalf of the MEDICIS-Promed network

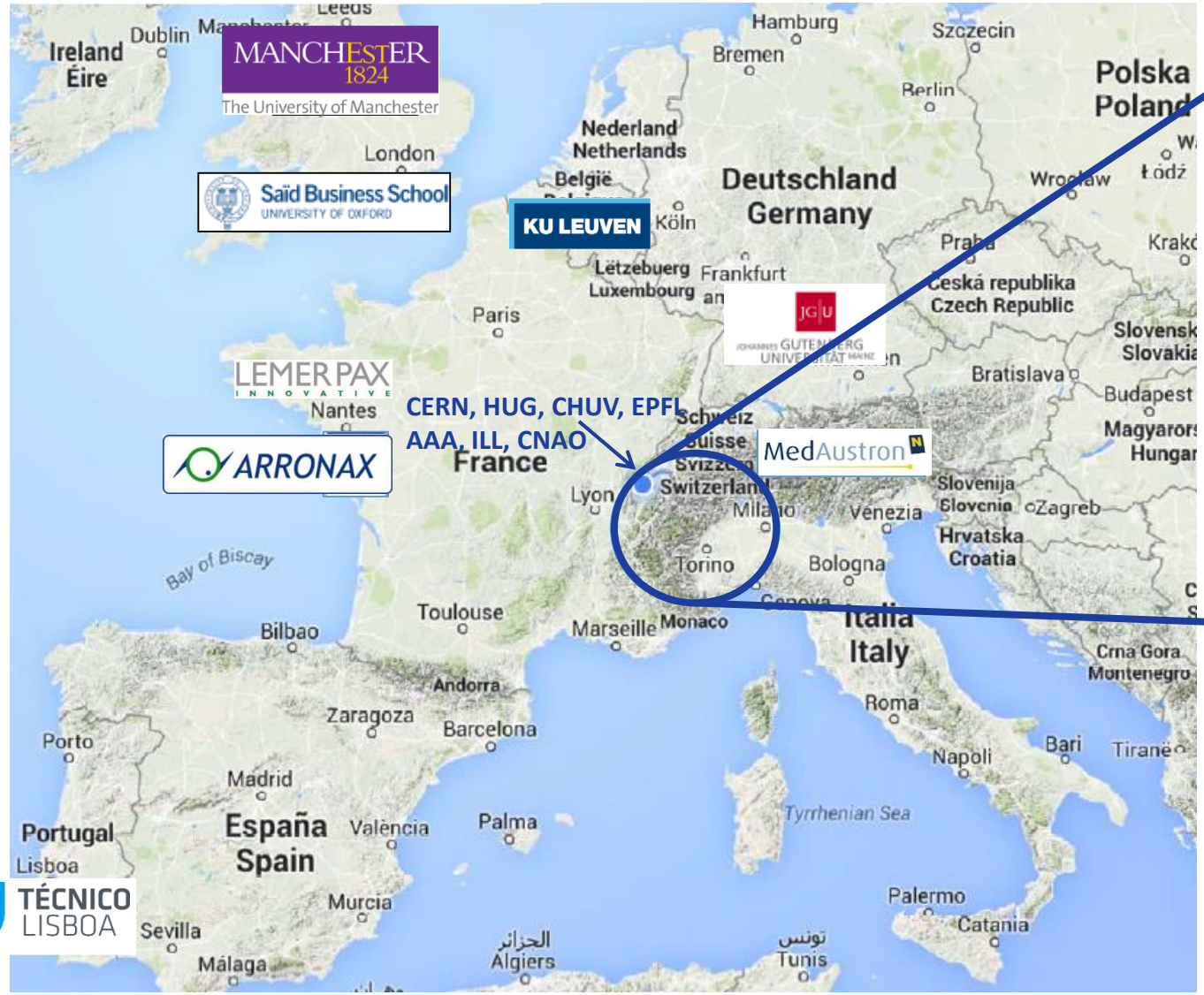
ICTR-PHE 2016

Geneva, 19.02.2016

MEDICIS-Promed Training Network

- A **Marie-Curie Innovative Training Network** (ITN) for which CERN acts as a coordinator in Horizon 2020
- Innovative training for **early stage researchers** (ESR)
- Network of leading experts in **physics, engineering, radiochemistry and medicine**

Partners

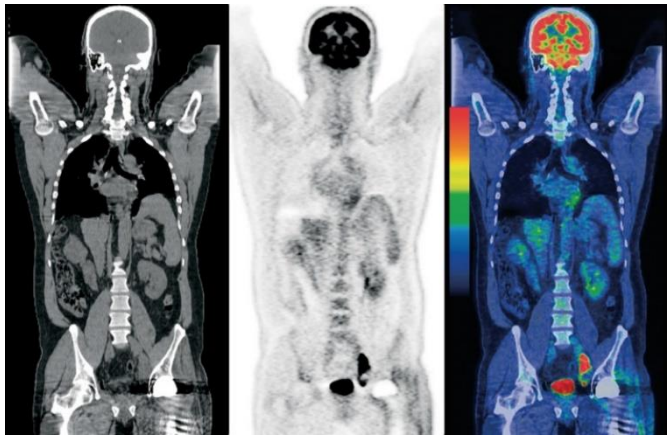


TÉCNICO LISBOA

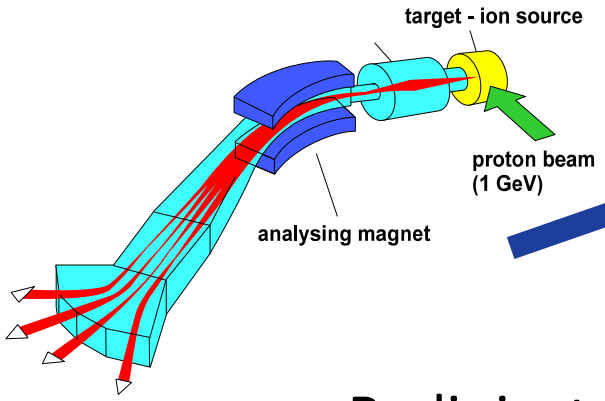
Medicis Promed

Objectives

Functional Imaging
Personalized Treatment



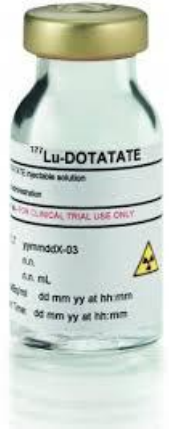
^{11}C-based hadron therapy



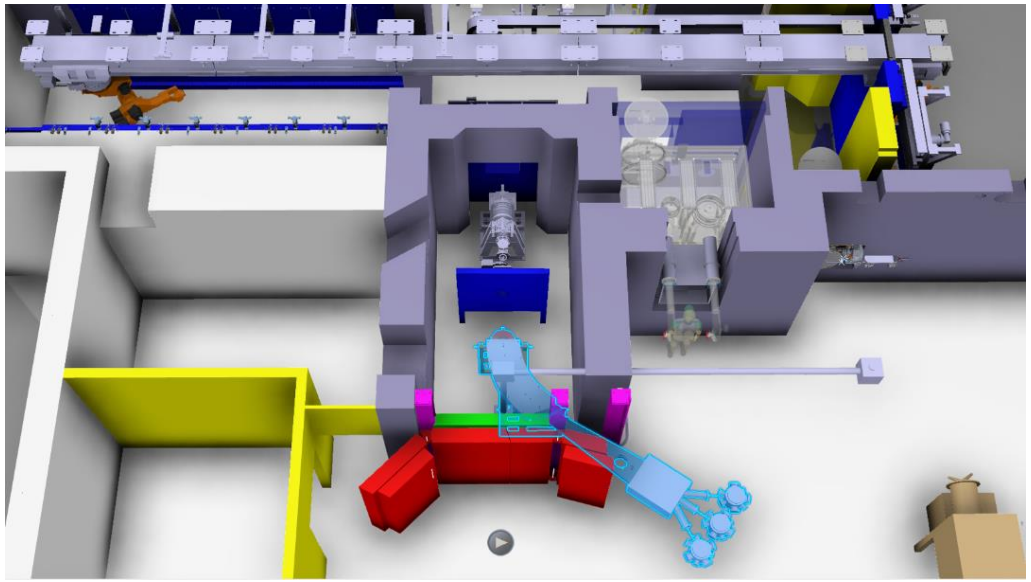
Radioisotope
Production

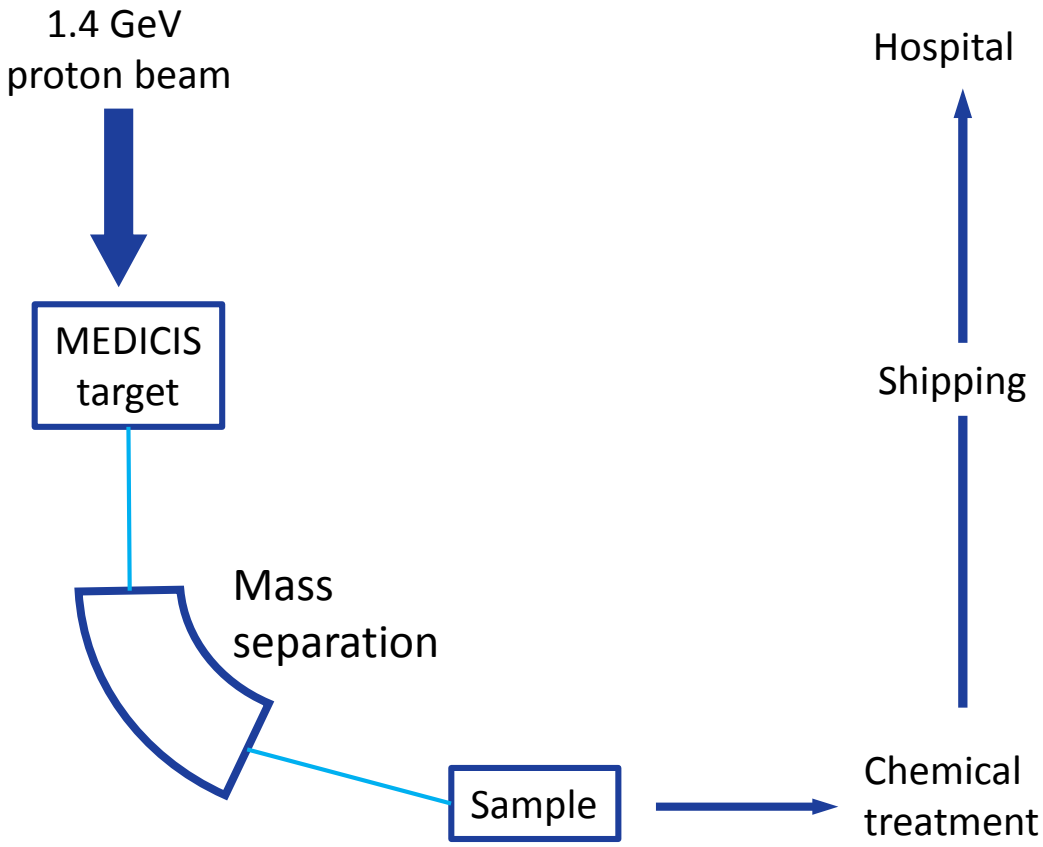
Transport

Radiopharmaceuticals



Radioisotope production





MEDICIS
MEDical Isotopes Collected from Isolde
facility currently being commissioned
at CERN

Radiopharmaceuticals for diagnostics and treatment

Hospital

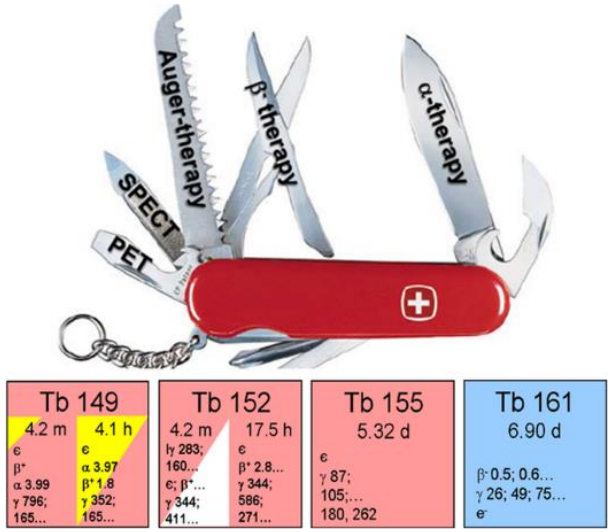
CERN-MEDICIS

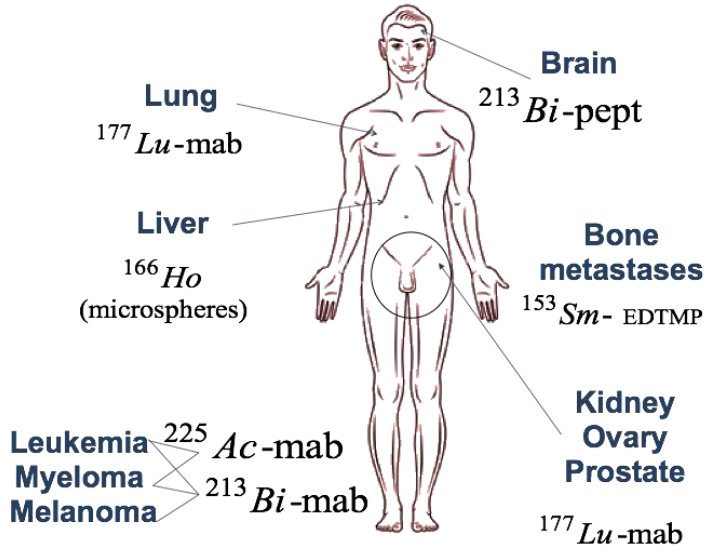
Synthesis of radiopharmaceuticals

Target

Radioisotope + Linker + Carrier

Personalized treatment



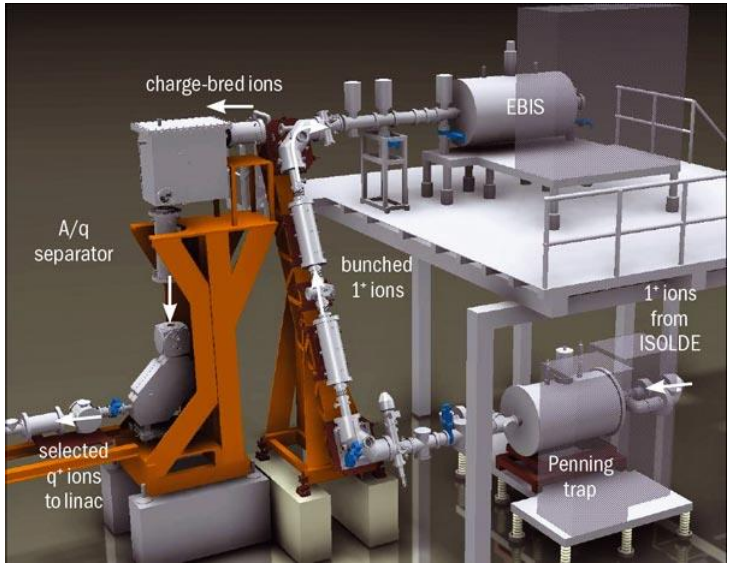


^{11}C aided hadron therapy

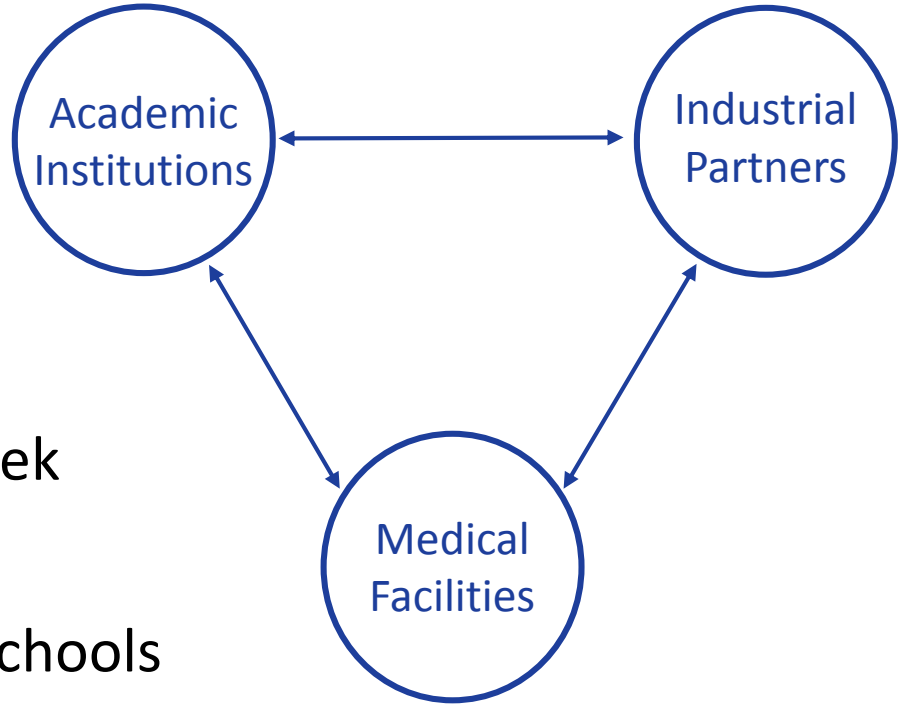
^{11}C production schemes

Beam preparation

Treatment planning



Training



- Kick-off week
- Workshops
- Summers schools
- Lectures
- Exchange programs

Acknowledgements

Thank you!

http://medicis-promed.web.cern.ch/medicis-promed

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Acknowledgements

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