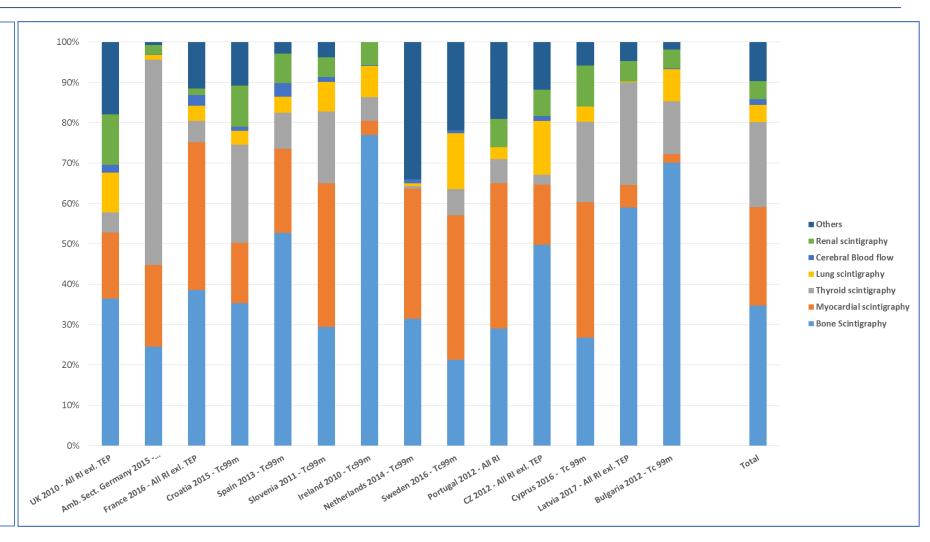
Session 1 – Health:
Ensuring security of supply
of medical radioisotopes in the EU

Introductory remarks

March, 20th, 2018 Brussels

Medical Radioisotopes today

- IMAGING: About 7 million Nuclear Medicine procedures performed in EU-28
- Clinical indications are MSdependent
- ⁹⁹Mo/^{99m}Tc : imaging radioisotopes workhorse
- SPECT use seems rather stable over the 5 past years: no evidence of decrease in the next future, besides PET increase
- THERAPY: 131 I, 125 I, 90 Y, 223 Ra, ... largely used; 177 Lu and other isotopes promising (investments ongoing)



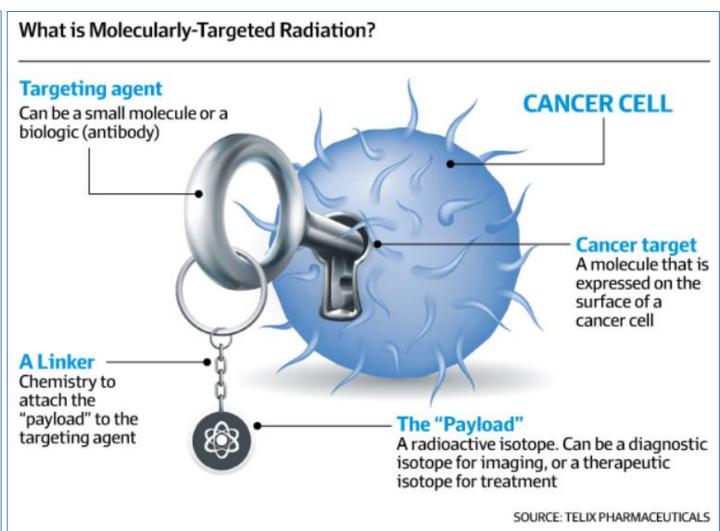


Medical Radioisotopes perspectives : a sustained growth?

- Radiotherapeutics open large perspectives (Personalized Medicine, NM theranostics,...)
- If key conditions for development fulfilled...
 - enlarged clinical indications with more imaging compounds (in-house labelling, research centers...)

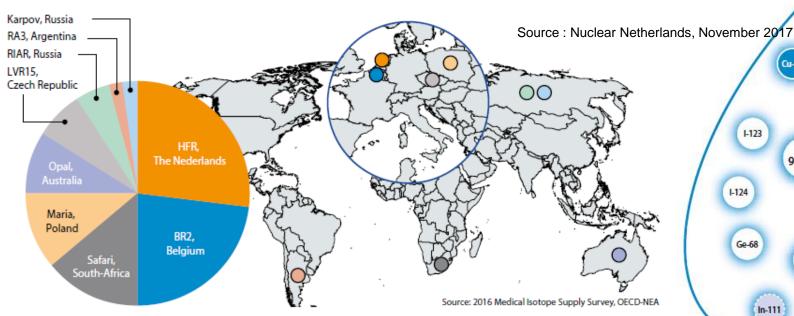
	Compound	Preclinical	Phase I	Phase II	Phase III	Filing	Approved	Marketed
Neuroendocrine tumors	imaging							
	therapy							
Apoptosis and necrosis	imaging							
	therapy							
Prostate cancer	imaging							
	therapy							
Breast cancer	imaging							
	therapy							
For each indication	imaging							
	therapy							

- availability of a global (worldwide), massproducing & reliable, affordable, GMP supply chain for all necessary radiopharmaceuticals
- ... Radioisotopes demand (industry, market, jobs) should grow significantly

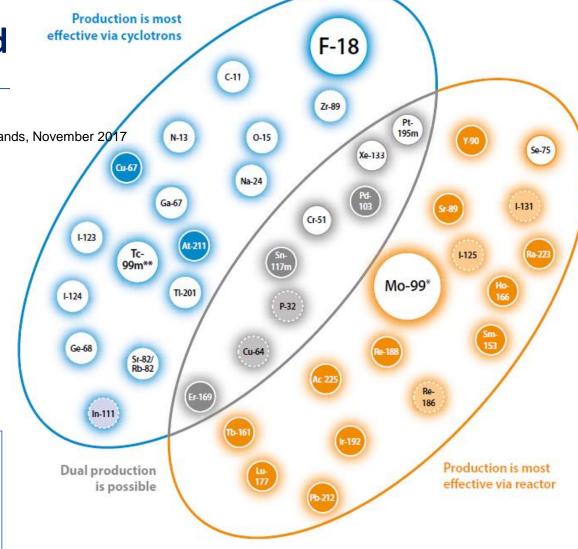




Supply chain: new capacity and FCR needed



- Notwithstanding PET imaging increase, a majority of radioisotopes used in imaging and therapy are best reactor-produced
- European reactors ensure today 60% of the world demand but are ageing
- If medical radioisotopes supplies deemed strategic for Europe, impediments to investment in new capacity must be addressed;
 « Project financing » can be envisaged; it would be eased if FCR principle is implemented



- Various production routes for Mo-99 are being examined.
- ** The direct production of Tc-99m via accelerators is being examined.

