

## Assessing the Cost and Value of Radiotherapy: Globally, Regionally and in Member States.

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Ghent University Hospital & Ghent University





SCIENTIFIC F. RUM

### health outcomes

that matter to *patients* 

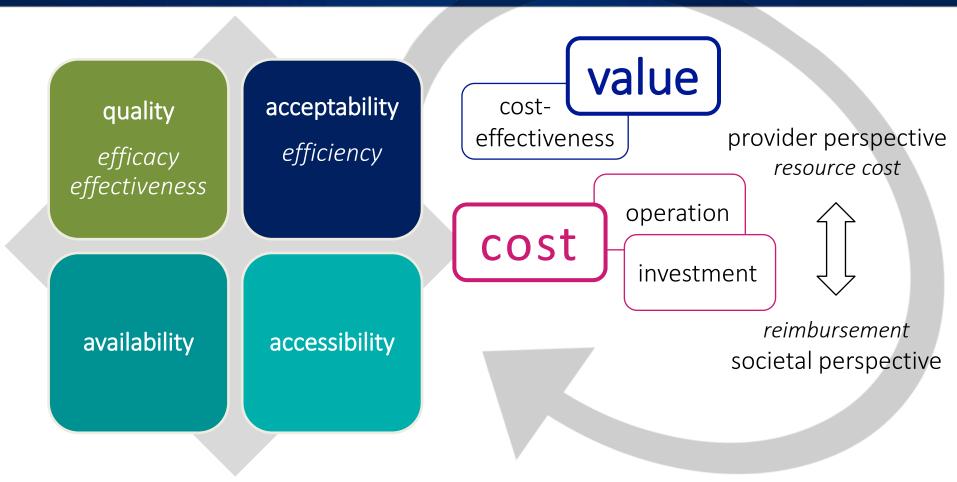
### value =

### costs

of delivering these outcomes

### "The ríght to the híghest attaínable standard of health íncludes avaílabílíty, accessíbílíty, acceptabílíty & qualíty."

Porter M. N Engl J Med 2010 UN Committee on Economic, Social, and Cultural Right. General comment 14, 2000



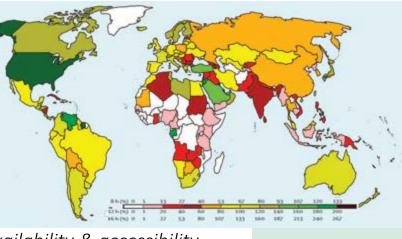
## SCIENTIFIC F.RUM

cost

Time-Driven Activity-Based Costing



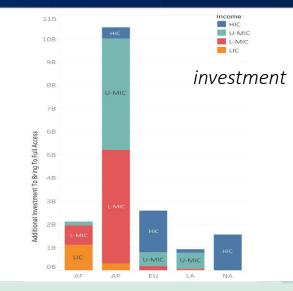
### provider resource costs: globally and regionally



#### availability & accessibility

International Atomic Energy Agency



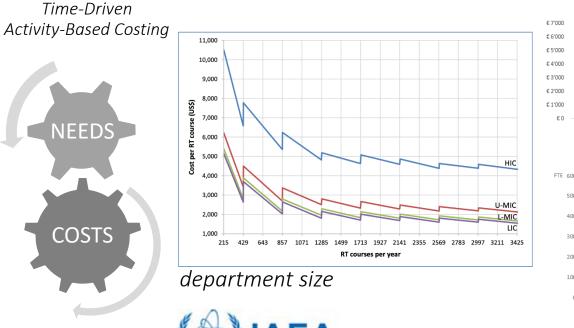


00 01 107 120 120 100 107 120 120 100 107 121 340 340 0peration	High- income countries	Upper- middle- income countries	Lower- middle- income countries	Low- income countries	
Operating cost per fraction	235	86	65	60	
Upfront cost per fraction investment	803	357	349	352	
mestment		F	Atun et al, Lancet Oncology 2015		

Zubizaretta et al, Clin Oncol 2016

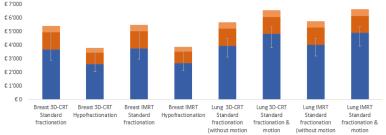
cost

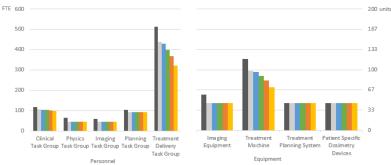
### provider resource costs: at national and department level



International Atomic Energy Agency

fractionation & complexity





ESTRO HERO

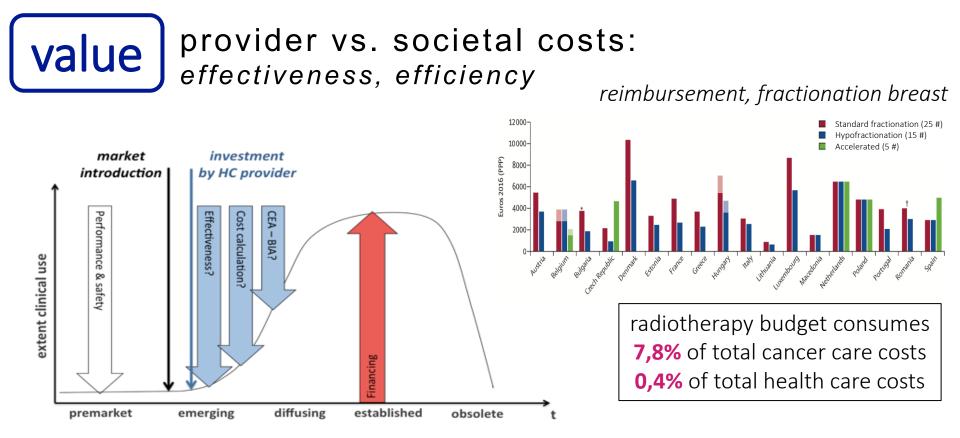
management)

management

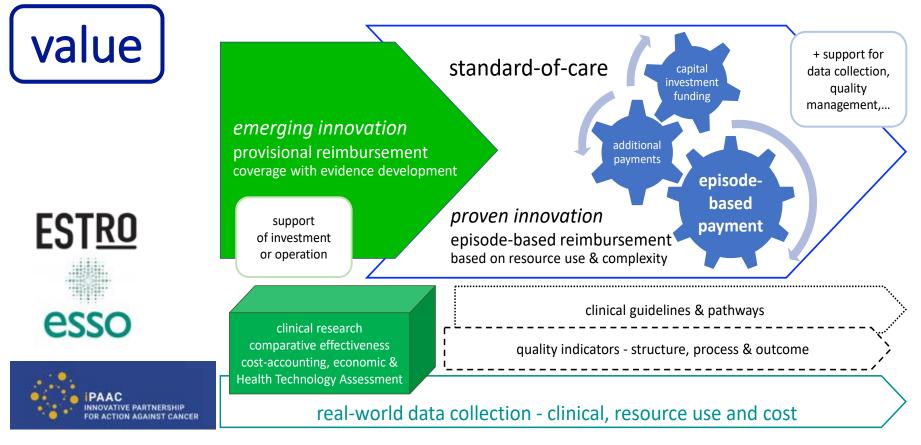
management)

management

#### Van Dyk et al, Radiother Oncol 2017 Defourny et al, Radiother Oncol 2019

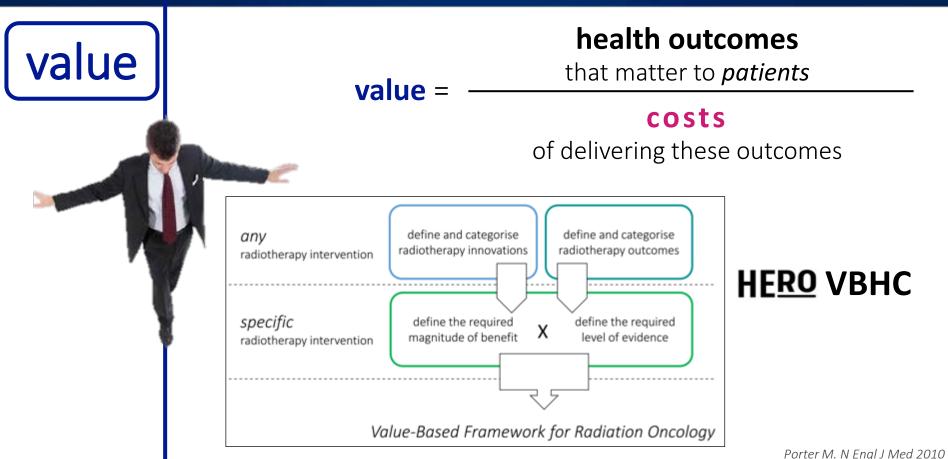


*Lievens et al, Acta Oncol 2015 Lievens et al, Lancet Oncol 2020* 



Borras et al, R&O and EJSO 2021

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Lievens et al, Radiother Oncol 2021

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# thank you for your attention!

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