



THE IMPORTANCE OF COLLECTING DATA FROM THE COMMUNITY IN THE SEE REGION

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SEIIST / TERA / CERN / UKIM

What we know about **SEE** from the **SEEIIST**?



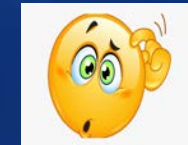
Geographical map of the region



Map of equipment for cancer diagnosis and treatment



Map of human resources and research in particle physics



SEE

Diagnostic and Radiotherapy capacity - Available data sources

Facilities with radioactive sources/unsealed radioactive material/radiation generators	Available in the country	Number of facilities in the country	Optional information	
			Number of radiation generators (X-ray, electron, neutron, proton)	Number of radioactive sources
1. Medical facilities				
1.1. Radiotherapy	<input checked="" type="radio"/> Yes <input type="radio"/> No			
1.1.1. Brachytherapy	<input checked="" type="radio"/> Yes <input type="radio"/> No	1		
1.1.2. Calibration sources for radiotherapy	<input type="radio"/> Yes <input checked="" type="radio"/> No			
1.1.3. Cobalt 60 teletherapy - single beam	<input type="radio"/> Yes <input checked="" type="radio"/> No			
1.1.4. Cobalt 60 teletherapy - multiple beam (gamma knife)	<input type="radio"/> Yes <input checked="" type="radio"/> No			

- Updating - periodically (~ 5 years);
- Number of facilities only;
- Only the IAEA authorities can see data for every county - NO regional data;

Healthcare resource statistics - technical resources and medical technology

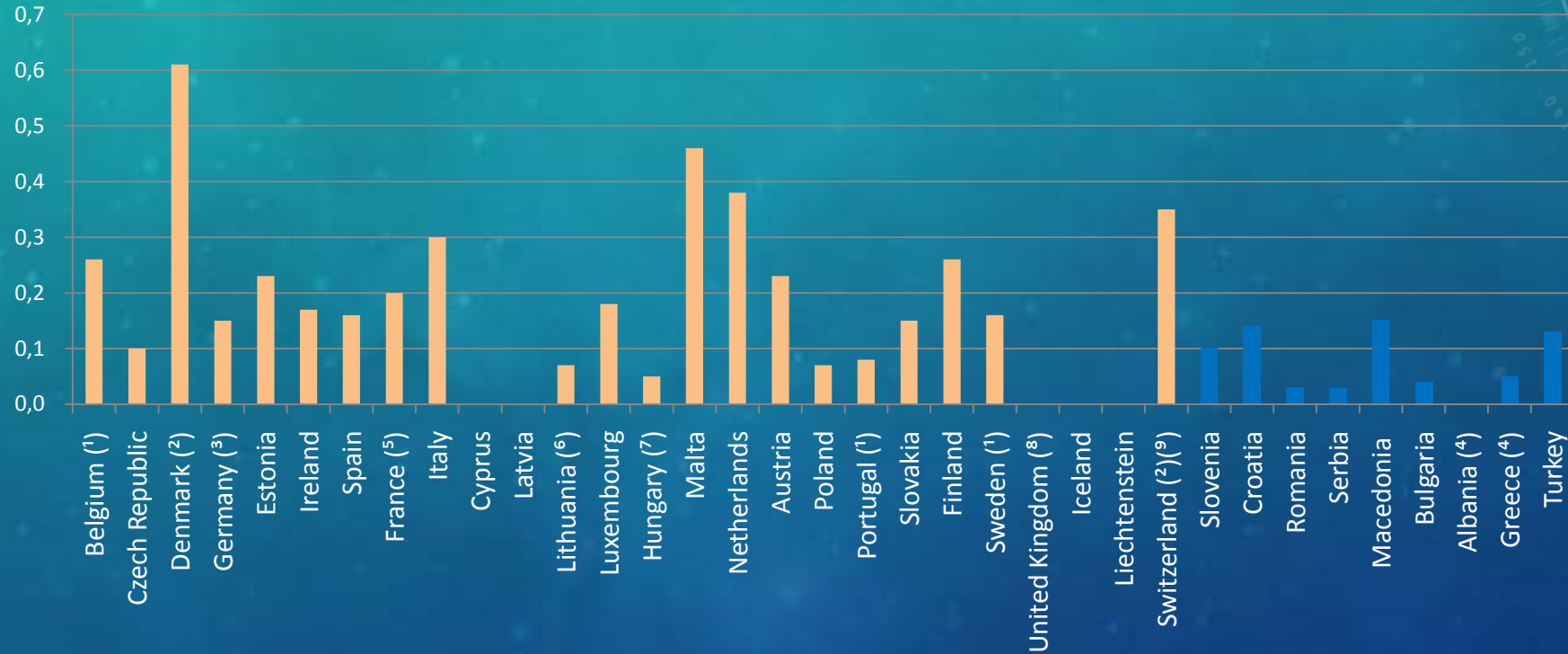
Data extracted in November 2019.
Planned article update: November 2020.

- Number of facilities;
- Number of examinations & treatments;
- Number of physicians, etc.
- Comprehensive database.

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Diagnostic and Radiotherapy capacity (1/2)

PET scanners (per 100 000 inhabitants) in 2015



55 % less

SEE

The most 0.2 (N. Macedonia*2018)

The least (Albania)

Average 0.08

EU

The most 0.6 (Denmark)

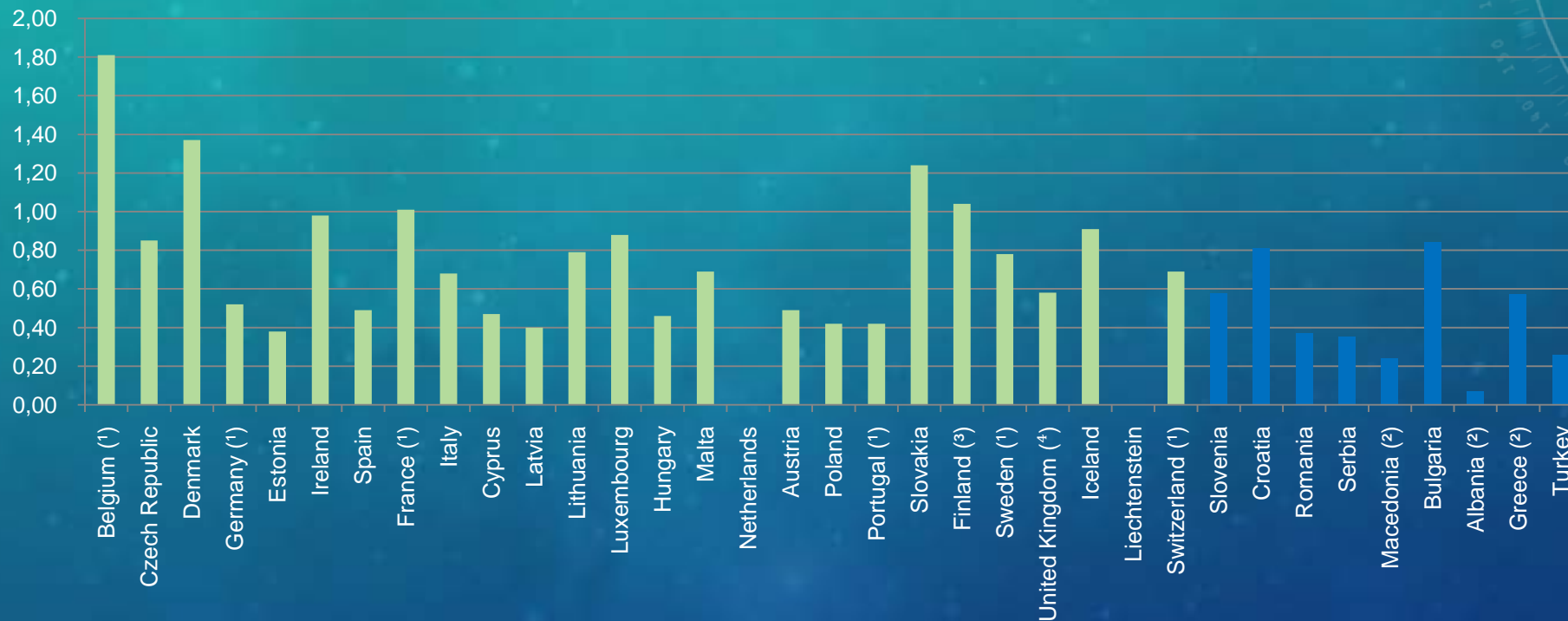
The least (Latvia, Cyprus,...)

Average 0.18

SEE

Diagnostic and Radiotherapy capacity (2/2)

Radiation therapy equipment (per 100 000 inhabitants) in 2015



38 % less

SEE

The most 0.84 (Bulgaria)

The least 0.07 (Albania)

Average 0.45

EU

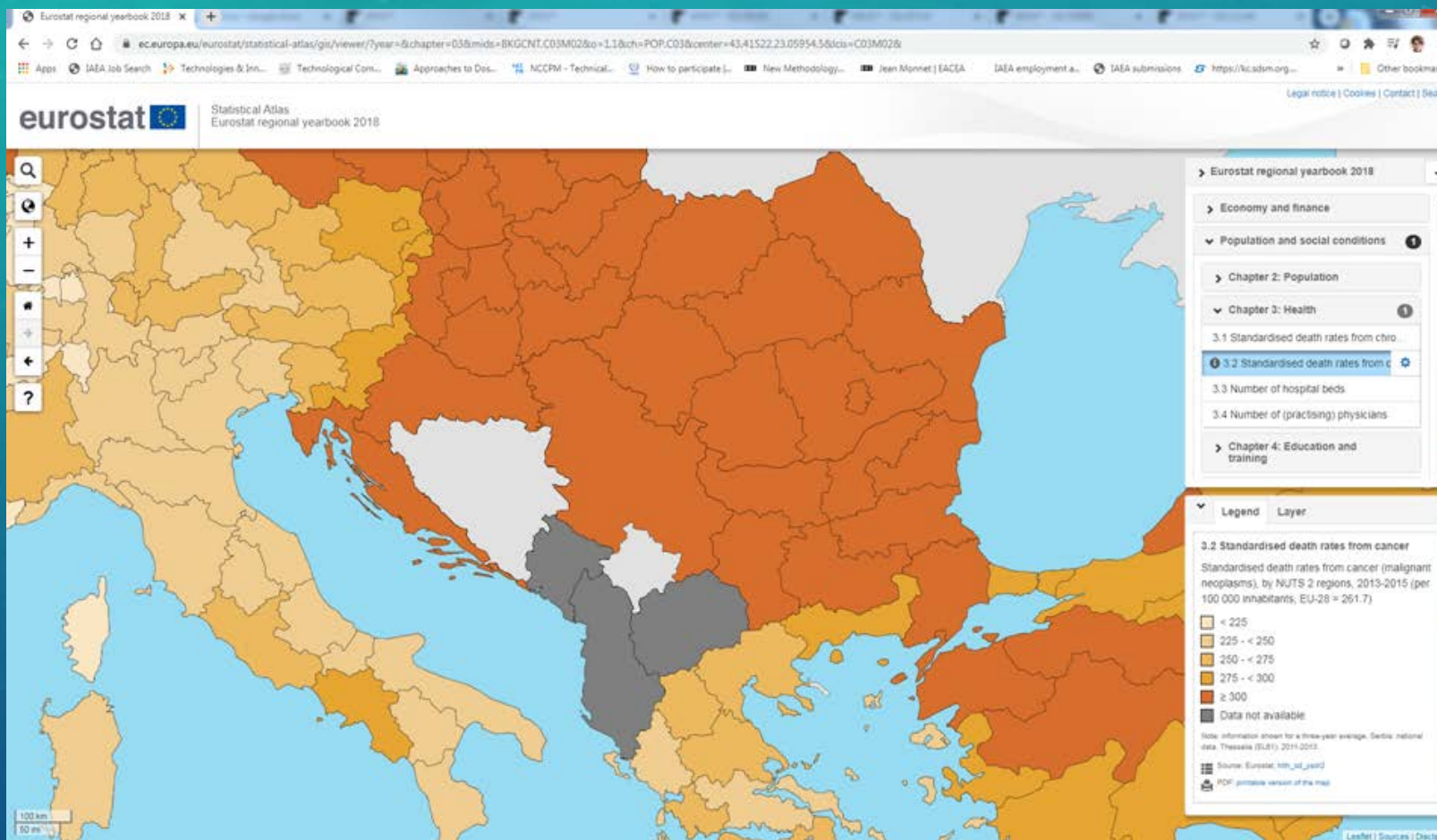
The most 1.81 (Belgium)

The least 0.38 (Estonia, Liechtenstein 0.00)

Average 0.73

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Cancer statistics – Some available data sources



Data not available about standardized death rates from cancer for six SEE countries

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Cancer statistics - Scientific publications

- Publications provide valuable information;
- But, they can not substitute the need of having a regional database;

Journal List > Croat Med J > v.52(4); 2011 Aug > PMC3160694

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CROATIAN
MEDICAL
JOURNAL

Croat Med J. 2011 Aug; 52(4): 478–487.

doi: [10.3325/cmj.2011.52.478](https://doi.org/10.3325/cmj.2011.52.478)

Cancer epidemiology in Central and S

Eduard Vrdoljak,¹ Marek Z Wojtukiewicz,² Tadeusz Pienk
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PMCID: PMC3160694



European Journal of Cancer

Volume 49, Issue 7, May 2013, Pages 1683-1691



Cancer incidence and mortality patterns in South Eastern Europe in the last decade: Gaps persist compared with tl

<https://doi.org/10.3332/ecancer.2016.641>

[Abstract](#) | [Full Article](#) | [PDF](#)

Ariana Znaor^a, Corina van den Hi
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Review

Cancer registries in Europe—going forward is the only option

Ana-Maria Forsea

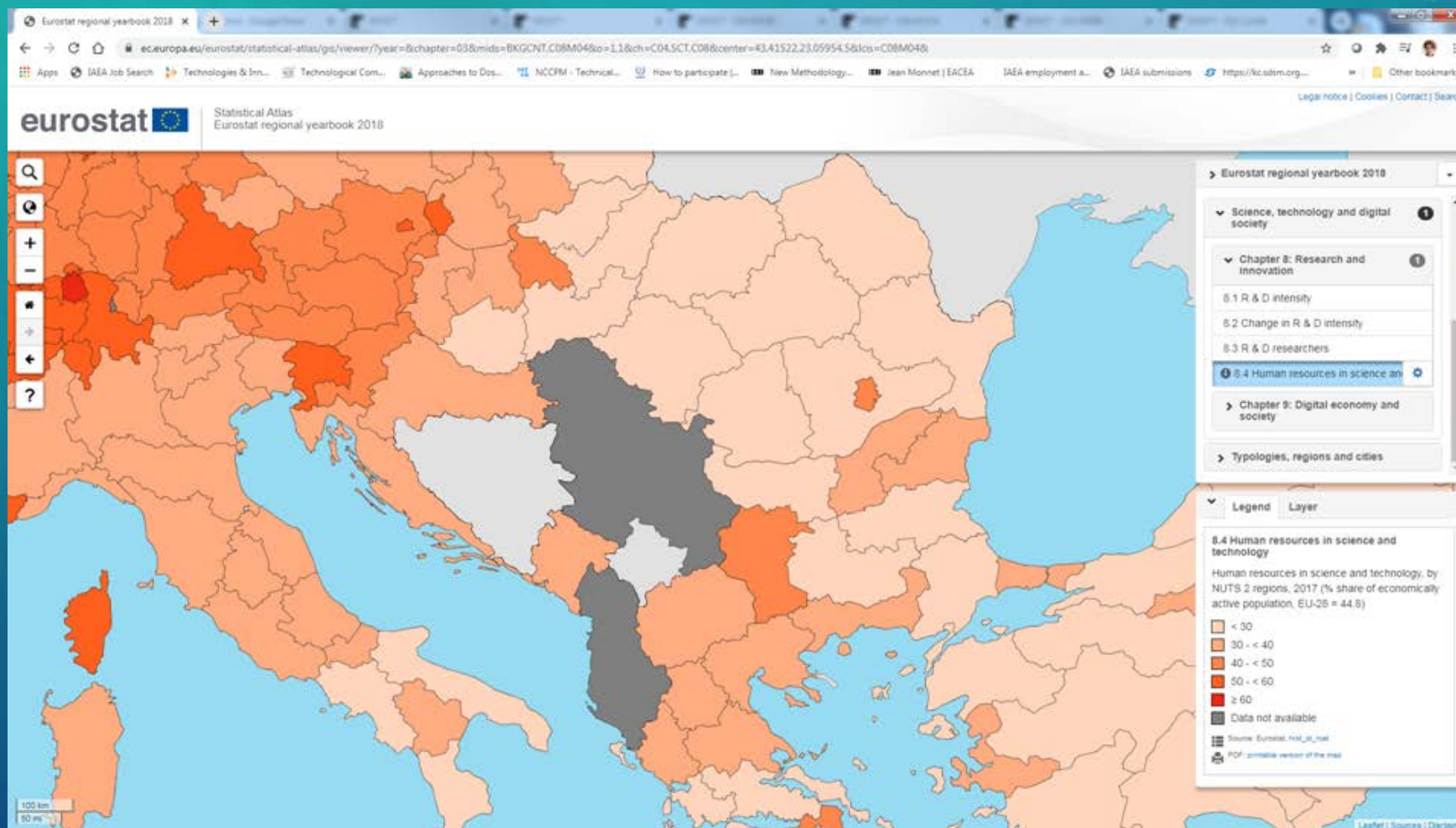
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Abstract

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Human resources - Available data sources



Data not available about human resources in sciences and technology (in general) in 2+2 SEE countries

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Research in particle physics - Available data

European Commission

English EN Search Search

Home > Research and Innovation > Projects > Success Stories >

Particle physics tools to push the boundaries of knowledge

Detectors at the accelerators of the European Organisation for Nuclear Research (CERN) help answer big questions about the Universe and support advances in fields such as medical technology. An EU-funded project is fostering collaboration on detector development to boost such scientific progress.

Published: 13 December 2018

Related theme(s) and subtheme(s)
Energy
Health & life sciences
Industrial research
Innovation
Pure sciences
Research infrastructures
Research policy : Horizon 2020
Science in society

Countries involved in the project described in the article
Austria | Belgium | **Croatia** | France | Germany | Hungary | Israel | Italy | Lithuania | Norway | Poland | Portugal | **Slovenia** | Spain | Sweden | Switzerland | United Kingdom

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> ERA-NET

It was very challenging to find data about research in particle physics in SEE countries.
Data about EDUCATION?

SEE

The SEEIIST begins with **SEE ...**

- The SEEIIST project needs reliable and up to date information from the SEE countries about:
- Diagnostic and radiotherapy capacity;
 - Cancer statistics;
 - Human capacity, education and potential in research related areas;



A regional
project

Needs a regional
database