

DIGITAL SKILLS ROLE IN RADIATION THERAPIST'S PROFILE

Gonçalves D.¹, Barbosa B.², Oliveira C.², and Bravo I.²

¹ Escola Superior de Saúde, Politécnico do Porto

² Instituto Português de Oncologia Francisco Gentil do Porto



ESCOLA
SUPERIOR
DE SAÚDE



SAFE EUROPE

SAFE AND FREE EXCHANGE OF EU RADIOGRAPHY PROFESSIONALS ACROSS EUROPE



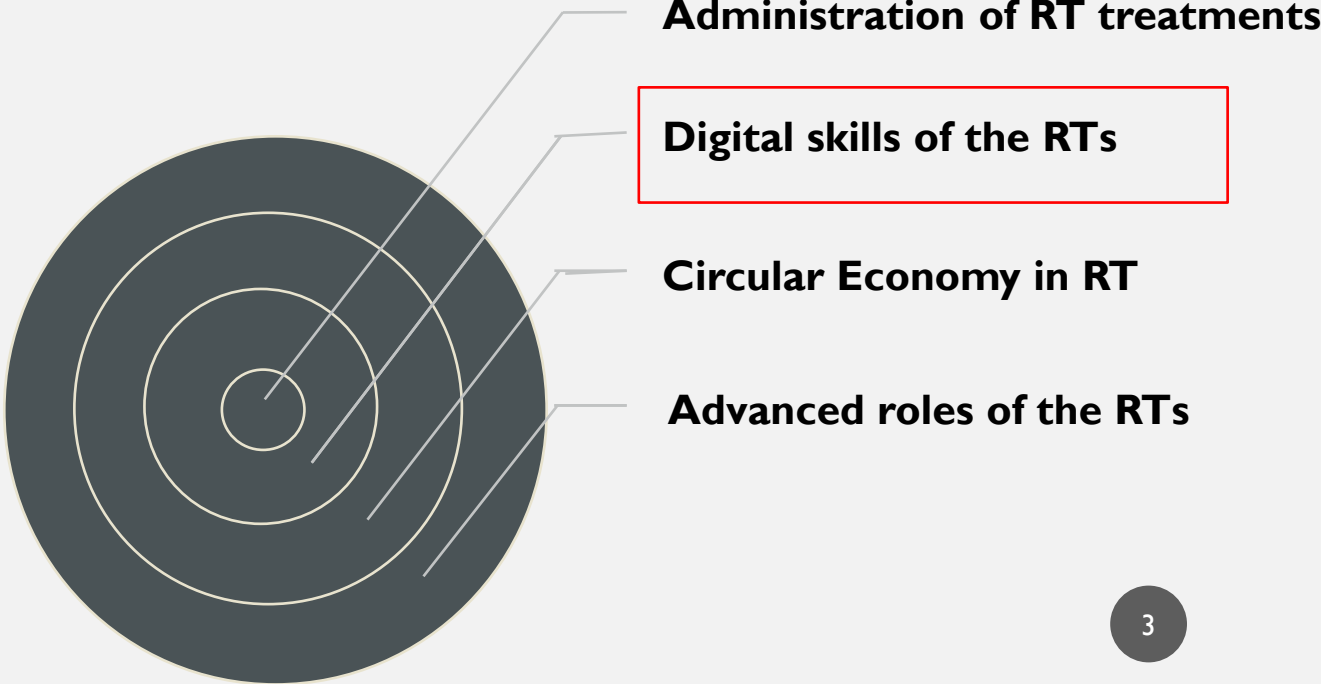
The European Commission's support for the production of this publication does not constitute an endorsement of the contents, which reflect the views only of the authors, and the Commission cannot be held responsible for any use which may be made of the information contained therein.

SAFE EUROPE

SAFE AND FREE EXCHANGE OF EU RADIOGRAPHY PROFESSIONALS ACROSS EUROPE



- Assess the market needs
- ◐ Identify the educational gaps
- Implement educational actions to close the founded gaps



DIGITAL SKILLS ROLE IN RADIATION THERAPIST'S PROFILE -MASTER THESIS-

- **Aim:**
 - Review digital skills and possible gaps in the profile of Radiation Therapists
- **Methodology**
 - Bibliographic research PubMed/Medline, Science Direct
 - Perceptual analysis of a survey applied to radiation therapists
 - Radiation Therapy Market analysis – Identification of Future Trends

DIGITIZATION OF THE ECONOMY -FOURTH INDUSTRIAL REVOLUTION-



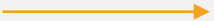
Market
Globalization



Demographic
change



Digitization of
the economy



Labor Market

Digital Economy
economy that is extensively based
on digital computing technologies

Consequences?

Biotechnology

Development in
genetics

Artificial
intelligence

3D printing

Robotics

Nanotechnology

DIGITIZATION OF THE ECONOMY -FOURTH INDUSTRIAL REVOLUTION-

Consequences

Polarization of the labor market



High-skilled individuals (cognitive skills and technical knowledge)



Medium-skilled and low-skilled or non-skilled workers

Job Losses

40% to 60% EU jobs at risk due to digitization-induced automation

Emergence of new occupations and creating new jobs

213,578 jobs in Western Europe World Economic Forum (2013)

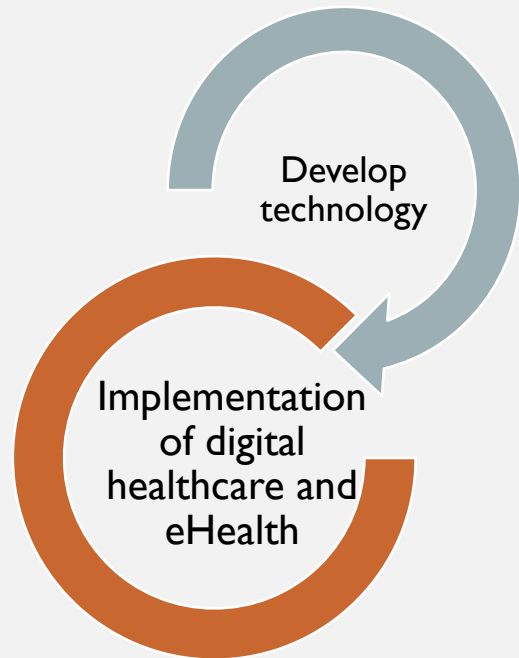
Transformations in existing jobs

Increased demand of digital skills

Working conditions

DIGITIZATION OF THE HEALTHCARE -DIGITAL SKILLS IN HEALTHCARE PROFESSIONALS-

EU Commission



European Connected
Health Alliance

eHealth Action Plan
2012-2020 (eHAP)

CAMEI-project

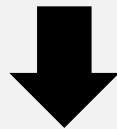
Joint Action Health
Workforce Planning
and Forecasting

DIGITIZATION IN RADIATION ONCOLOGY -DIGITAL SKILLS AND RADIATION THERAPISTS-

Modern Radiation Therapy

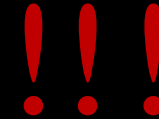
Continuous development of

- New skills (namely digital skills)
- New competencies



Constant progression and complexity of
the technology and techniques

No literature exploring digital skills
(role) in the radiation therapist
profile



DIGITIZATION OF THE HEALTHCARE -DIGITAL SKILLS IN HEALTHCARE PROFESSIONALS-

Most current national medical guidelines do not include digital skills.



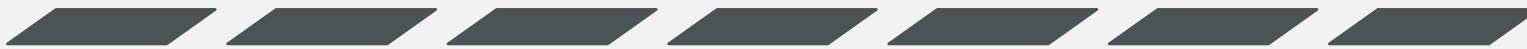
Existing health professional curricula are inadequate.



eHealth solutions do not always reflect the existing healthcare pathways, nor the needs of patients and health professionals.



Patients and health professionals are not involved in the development of these solutions.

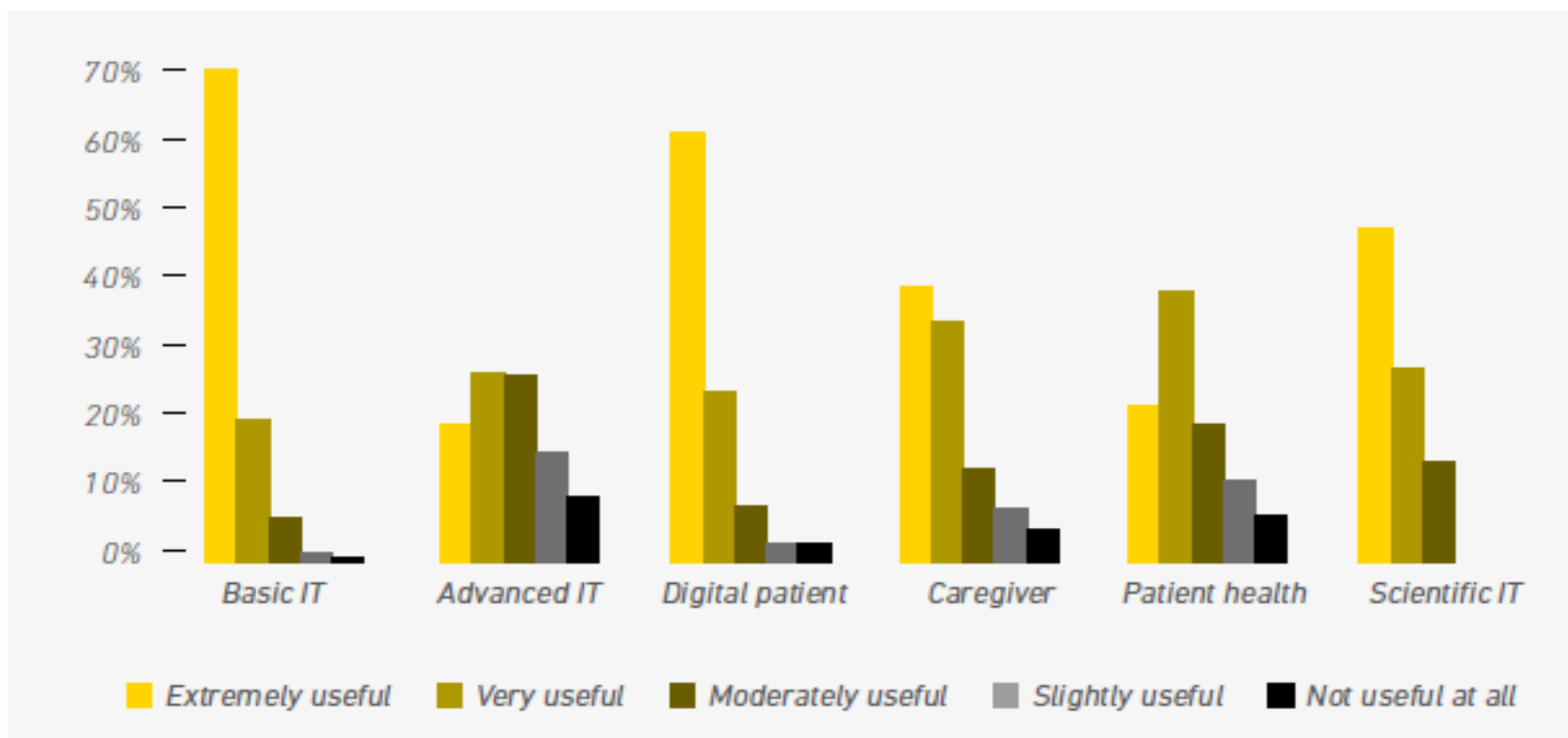


Member States differ in their readiness to implement eHealth solutions in their health systems, as well as in the structure of their training curricula for health professionals.



DIGITIZATION OF THE HEALTHCARE -DIGITAL SKILLS IN HEALTHCARE PROFESSIONALS-

RELEVANCE OF DIGITAL SKILLS FOR CURRENT AND FUTURE PRACTICE




**DIGITAL SKILLS
FOR HEALTH
PROFESSIONALS**
 EUROPEAN HEALTH PARLIAMENT 2016
 COMMITTEE ON DIGITAL SKILLS FOR HEALTH PROFESSIONALS

DIGITIZATION ERA

What about the Future?

Disregard it?

Embrace it?

What are the consequences?

Will the profession as we know it become obsolete?

Will it represent a danger for the patients and healthcare professional involved?

Where is the limit?

How make it happen in a smooth and successful way?

THANK YOU FOR YOUR ATTENTION