

EHMA 2024

Shaping and managing innovative health ecosystems

Mapping competency in public health training Experience of the Europubhealth consortium

Olivier Grimaud¹, Kasia Czabanowska², Mathilde Foucrier³

¹Arènes-UMR 6051, RSMS-U 1309, EHESP, CNRS, Inserm, Rennes, France ²INTHEALTH, CAPHRI, FHML, Maastricht University, Maastricht, Netherlands ³Inter- national Relations department, EHESP, Rennes, France

5 - 7 June 2024 - Bucharest, Romania

Politehnica University of Bucharest, Bucharest, Romania

#EHMA2024

Europubhealth+

European Master in Public Health



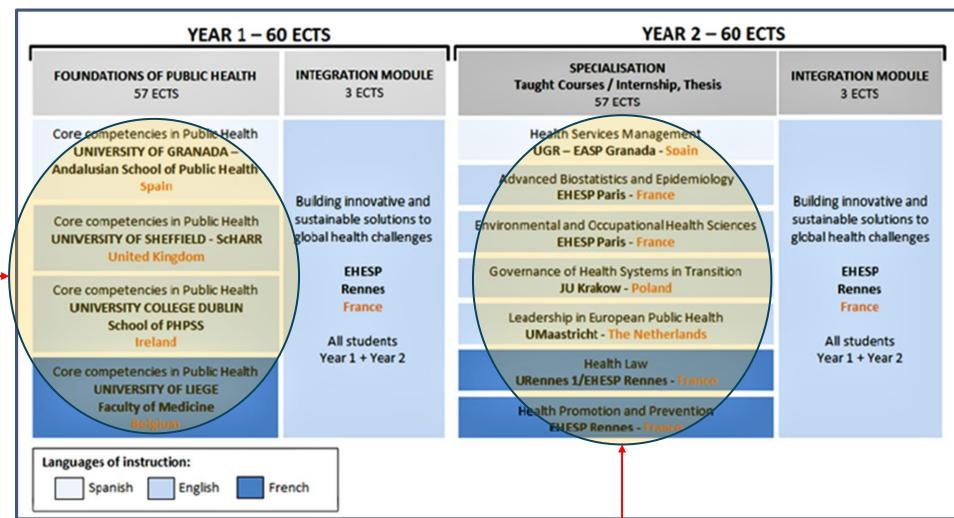






Year 1: four « components »

Year 2 : seven « components »







Competency domain	Nb of items	Example of item					
Science practice 10		Knows how to retrieve, analyse and appraise evidence from all data sources to support decision making					
Promoting Health	8	Fosters citizen empowerment and engagement within the community					
Law Policies and Ethics	6	Knows, understands and applies the relevant international, European and national laws or regulations to maximise opportunities to protect and promote health and wellbeing					
One Health and Health security	12	Understands the local implications of the One Health approach, its global interconnectivity and its impact on health conditions in the population					
Leadership and system thinking	9	Effectively leads interdisciplinary teams to work in a coordinated manner in different areas of public health practice					
Collaborations and partnerships	6	Identifies, connects and manages relationships with stakeholders in interdisciplinary and inter- sectorial projects to improve public health services and achieve public health goals					
Communication culture and advocacy	8	Communicates strategically by defining the target audience, listening and developing audience-appropriate messaging					
Governance and resource management	10	Effectively applies knowledge of organisational systems, theories and behaviours in order to prioritise, align and deploy all relevant resources towards clear strategic goals and objectives					
Professional Development and Ethical reflexive Pratice	7	Acts according to ethical standards and norms with integrity, promotes professional accountability, social responsibility and the public good					
Organisational literacy and adaptability	8	Actively prepares and adapts to changing professional environments and circumstances					

Proficiency levels:

- 1 Novice
- 2 Advanced beginner
- 3 Competent
- 4 Proficient
- 5 Expert



Objective and method (1/2)

Objective

"to map the competencies addressed in the different components of the EPH Master and to estimate the proficiency level targeted"

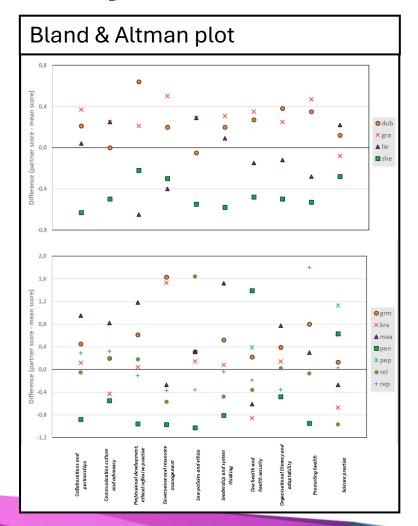
Method

Survey of the 11 components coordinators. Dec./2020 to July/2021

- To which extent does the course enable students to develop this competency?
- Expected proficiency level (excluding level 5 "expert")?



Objective and method (2/2)





	0	riginal scor	e	Transformed score					
	min	mean	max		min	mean	max		
Year 1									
dub	2.2	2.6	3.0		1.9	2.4	2.8		
gra	2.3	2.7	3.0		2.0	2.4	2.7		
lie	1.6	2.3	3.0		1.7	2.4	3.1		
she	1.3	1.9	2.5		1.8	2.4	3.0		
Year 2									
grm	2.6	3.0	4.0		2.1	2.5	3.5		
kra	1.3	2.4	3.9		1.3	2.5	4.0		
maa	1.8	3.0	4.0		1.3	2.5	3.6		
pen	1.3	2.1	3.8		1.7	2.5	4.0		
pep	1.3	2.0	4.0		1.8	2.5	4.0		
rel	1.8	2.5	4.0		1.9	2.5	4.0		
rep	2.0	2.6	4.0		1.9	2.5	3.9		

Truncation @ 4



Results (1/2) Heat map

Year 1:

Mean proficiency score = 2,4 Coef. Var.= 13%

Year 2:

Mean proficiency score = 2,5 Coef. Var. = 26%

	Competency domain (WHO-ASPHER framework)									
Year component	Science practice	Promoting health	Organisational literacy and adaptability	One health and health security	Leadership and system thinking	Law policies and ethics	Governance and ressource management	Prof. development, ethical reflexive	Communication culture and advocacy	Collaborations and partnerships
Year 1										
Dublin	2.7	2.6	2.6	2.3	2.4	2.1	2.0	2.8	2.4	1.9
Granada	2.4	2.7	2.5	2.3	2.5	2.4	2.2	2.3	2.6	2.0
Liège	3.1	2.3	2.5	2.2	2.6	2.7	1.7	1.8	3.0	2.1
Sheffield	3.0	2.5	2.5	2.2	2.3	2.3	2.2	2.6	2.6	1.8
Year 2										
Granada management	2.5	2.5	2.5	2.1	2.5	2.1	3.5	2.9	2.3	2.3
Krakow governance	2.3	1.3	2.8	1.6	2.6	2.6	4.0	2.9	2.3	2.6
Maastricht leardership	2.2	2.1	2.9	1.3	3.6	2.2	1.7	3.4	2.9	2.9
Paris environnement	4.0	1.7	2.6	4.0	2.1	1.8	1.9	2.3	2.6	2.0
Paris epidemiology	4.0	1.8	2.6	3.3	2.2	1.8	1.9	2.4	2.6	2.0
Rennes Law	1.9	2.2	2.7	2.1	2.1	4.0	1.9	3.1	2.9	2.4
Rennes health promotion	2.8	3.9	2.1	2.1	2.3	1.9	1.9	2.6	2.9	2.6

Proficiency level

Low High

Categorisation based on quartiles



Results (2/2): a sample of four training

pathways

Legend

Expected prof. level at the end

- of Year 1 (blue line)
- of Year 2 (orange line)



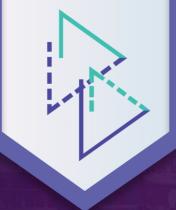


Discussion

- Lessons (beyond expected results...)
 - Competency Frameworks are useful tools for higher education institutions
 - Thanks to "jointness" EPH consortium covers the entire spectrum of public health competencies
 - Heat map & spider graph => good for communicating with/guiding future
- candidates?
 - "The journey is more important than the destination"

Future

- Beware of the variety and of changes in competency frameworks
- Use a similar approach to assess students progresses and achievements



EHMA 2024

Shaping and managing innovative health ecosystems

Thank you

And to members of the EPH Consortium: Sarah Barnes, Ariane Bauernfeind, Timo Clemens, Mary Codd, Anne-Françoise Donneau, Christoph Sowada, Catherine Keller, Aurore Gely-Pernot, Judith Mueller, Marie-Renée Guevel, Florence Bodeau-Livinec, Laurence Théault.

Olivier Grimaud

Olivier.grimaud@ehesp.fr

Published version available @ https://bmcmededuc.biomedcentral.com/articles/10.1186/s12909-023-05010-9