

Online platform Proof-of-Concept Approach

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on behalf of WP.4 team



Public Health
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harmonization, employability,
leadership and outreach


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We are actively working to merge Burning Glass and Emsi products/data. [Reach out](#) with questions.

Keep pace with a changing job market

Data, analytics, and insight leaders need to bridge the skills gap



Education

Data that drives higher
more revenue, and
with the market


Northwest Center

FOR PUBLIC HEALTH PRACTICE

UW SPH / PH LearnLink



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TRAINING SEARCH TOOL 

[Home](#) > [Training](#) > Training Search Tool

Training Search Tool

Search results

Search filters

TITLE

[A CLAS Act: Enhancing Culturally and Linguistically Appropriate Preparedness](#)

[A Culturally Competent Program Reaching Limited English Proficiency Communities](#)

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Workforce and education

Confident and efficient use of health technologies by all workers in the Australian health sector is critical for a skilled, digitally capable workforce.

[Workforce and Education Roadmap](#) [Nursing and Midwifery Digital Health Capability Framework](#) [More ▾](#)



Knowledge Bank

Victoria's Health and Human Services Workforce Information Portal

[Home](#)[Current Workforce](#)[Future Workforce](#)[Funding](#)[Resources](#)[Contact Us](#)

Public Health Workforce

Summary of workforce volume and demographics at Victorian public health services

[VIEW THE DATA →](#)

National Clinical Supervision Competency Resource in Victoria

A national benchmark that describes the core competencies of clinical supervision, across all health disciplines, settings and sectors

[DOWNLOAD THE DOCUMENT](#)

Student Placement Activity

Student placement activity at all Victorian public health services

[VIEW THE DATA →](#)[COVID-19](#)[Request for Proposals](#)[Jobs](#)[HEALTH SERVICES](#)[BEHAVIORAL HEALTH](#)[OUTREACH SERVICES](#)[HEALTH CENTER LOCATIONS](#)[DENTAL | PHARMACY LOCATIONS](#)[OUR TEAM](#)

Employee Portal

[SAGE](#)[EASE](#)

Texas Department of State Health Services

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ABCDEFGHIJKLMNOPQRSTUVWXYZ | All Topics

Office of Practice & Learning

Public Health Workforce Training

DSHS Hosted Training and Conferences

Schools of Public Health, Colleges and Universities

Training Databases and Resources



Connect with a partner near you!

An interactive map of academic institutions in relation to public health offices across Texas.

[Contact Us](#)

Office of Practice & Learning > Public Health Workforce Training > Public Health Workforce Training

Public Health Workforce Training



Platform – purpose and expectations

Online interface to enable

- the collaboration between
 - public health education
 - training institutions
 - workforce stakeholders
- supporting employability and continuing professional development



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Platform – purpose and expectations

Online interface for

- students
- employers
- PH system governance structures

to use for

- practical placement
- employment opportunities
- career guidance
- PHW planning and development



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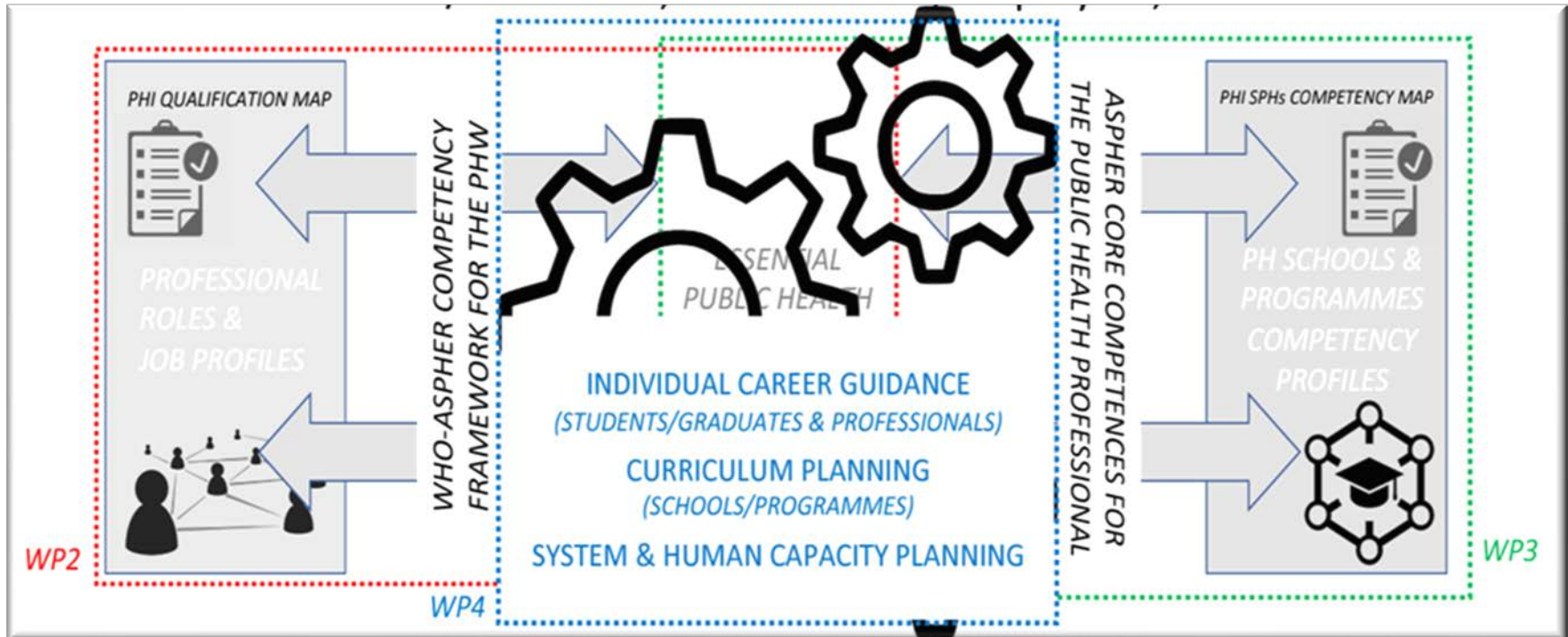


Platform – purpose and expectations

Tool with

- a high level of usability
- with interfaces customized for specific target groups
- an independent web tool

SEEEPHI Interrelationships



User requirements - initial broad approach

Personas

PH STUDENT



Tom is a public health student. He is very interested in biostatistics, so he is looking for courses related to this field.

His teacher told him about the platform. He types in the website address and creates an account as "PH Student". He fills out a short form (name, surname, login, password, etc.).

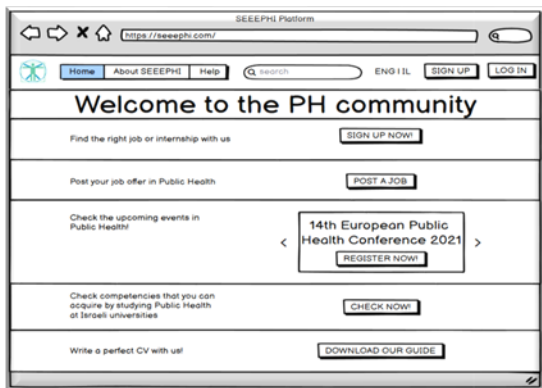
After logging in, Tom switches to the "Edit profile" tab, where he fills in competencies he has already acquired (according to the ECCLPHIP list) as well as his areas of interest (ECCLPHIP). He selects that he wants to improve his competencies in epidemiology and biostatistics. He also checks the "Looking for internship/job" checkbox. Then he clicks the "Save" button.

Later on, he switches to the "Courses" tab. A list of newly added courses is automatically displayed. At the top of the page, there is a filter where he can choose the competencies he wants to acquire. As he did it already on his personal profile, he clicks a button "Insert data from my profile" - the category "Wanted competencies" is automatically filled in. After clicking the "Search" button, courses related to biostatistics are displayed. One of them is organized by the University of Haifa. Tom checks the advertisement - the university published a list of competencies he can obtain after taking the course (according to the ECCLPHIP list). Tom decides to enroll, so he sends his application via email.

Then Tom switches to the "News" tab, where he finds information about the forthcoming conference related to COVID19 and recently published research papers written by public health specialists.

A week later, Tom receives a notification that a course in biostatistics organized by a well-known training company will be held in a month. However, he wants to ensure he will be available that day so he adds this course to the "Follow list".

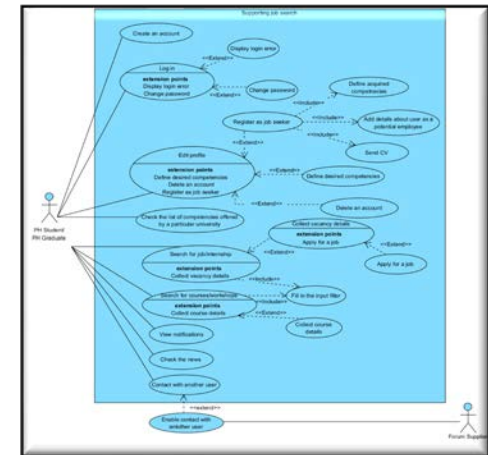
Wireframes



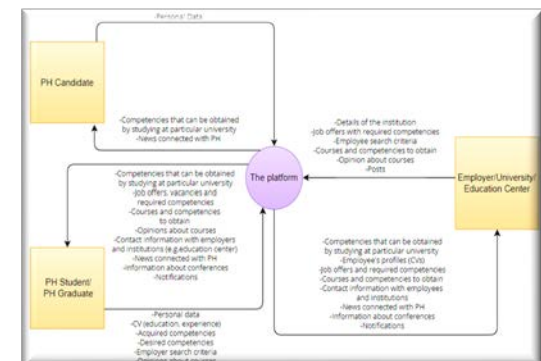
Functionalities

- Functionalities**
- User registration and login
 - Editing user's profile
 - Checking the list of competencies that can be acquired by studying PH at particular university
 - Defining acquired competencies by a job candidate
 - Defining desired competencies by a job candidate
 - Searching for jobs/internships
 - Sending messages to potential employers
 - Searching for courses and workshops
 - Searching for conferences
 - Post information about conferences
 - Adding opinions about courses
 - Adding job offers/research offers
 - Deactivating job offers/research offers
 - Defining required competencies by employers
 - Searching for employees, filtering search results
 - Sending messages to potential employees
 - Adding course/workshop offers
 - Defining competencies that can be obtained by participating in a particular course
 - Deactivating course/workshop offers
 - Defining the curriculum (according to the ECCLPHIP) by universities
 - Checking the latest news connected with PH
 - Adding new posts to the "News" tab
 - Participating in discussions on the forum
 - Deleting an account

Use case models



Context diagram



Continuity with preceding work

EUROPEAN PUBLIC HEALTH
REFERENCE FRAMEWORK

SYSTEM USE
HUMAN CAPACITY PLANNING

INDIVIDUAL USE
CAREER PLANNING

HOME ABOUT EPHRF LOGIN

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2014-2015 // ASPHER, ANDERS FOLDSVANG & ROBERT OTDK | VERSION 1.1.2-2015



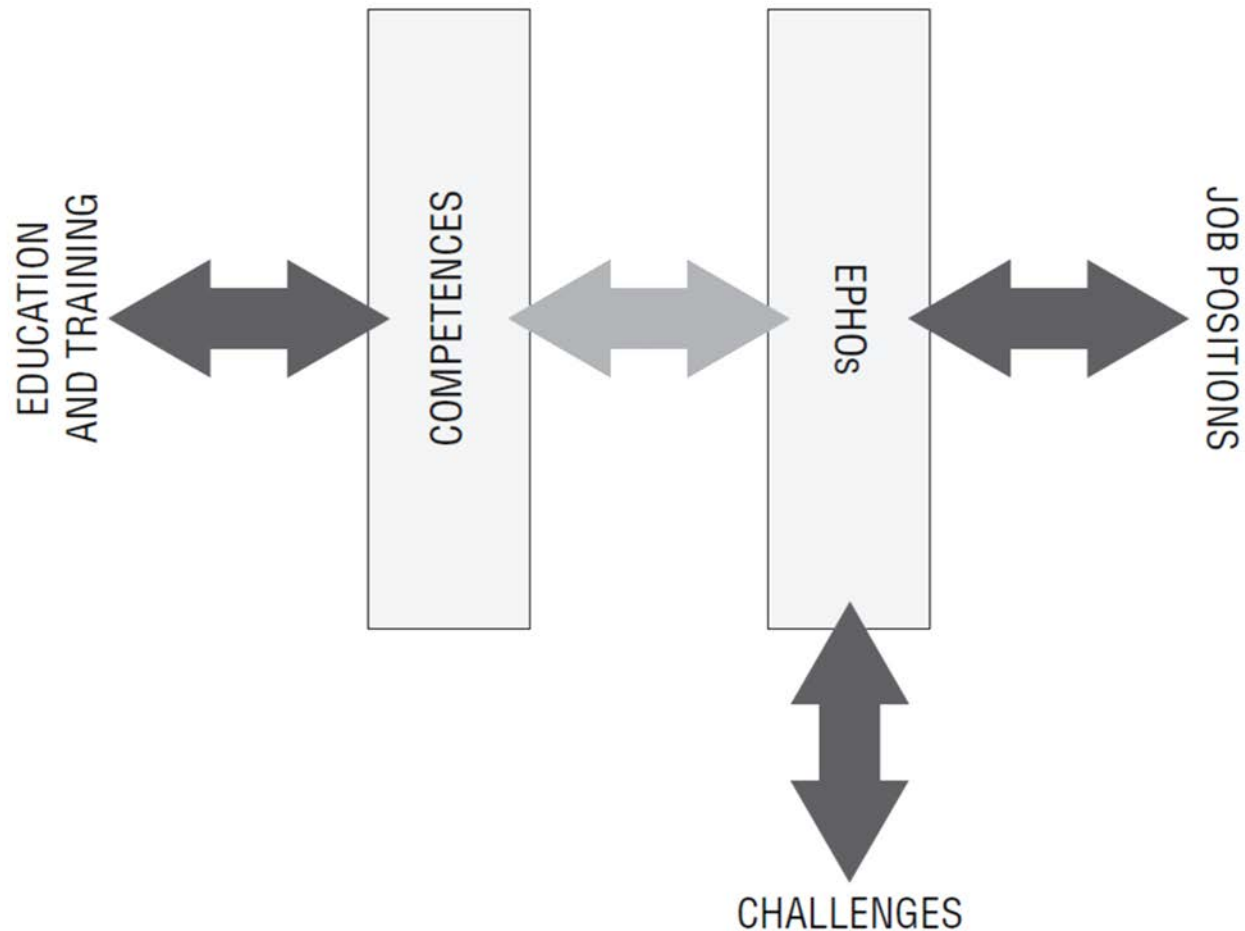
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Continuity with preceding work

Figure 2: ASPHER's EPHRF online tool structure



Categories of Platform users

Student/
graduate



Programme
directors



WP.3

PH Professional/
Employee



Institution



WP.2

Admin/Tool
moderator

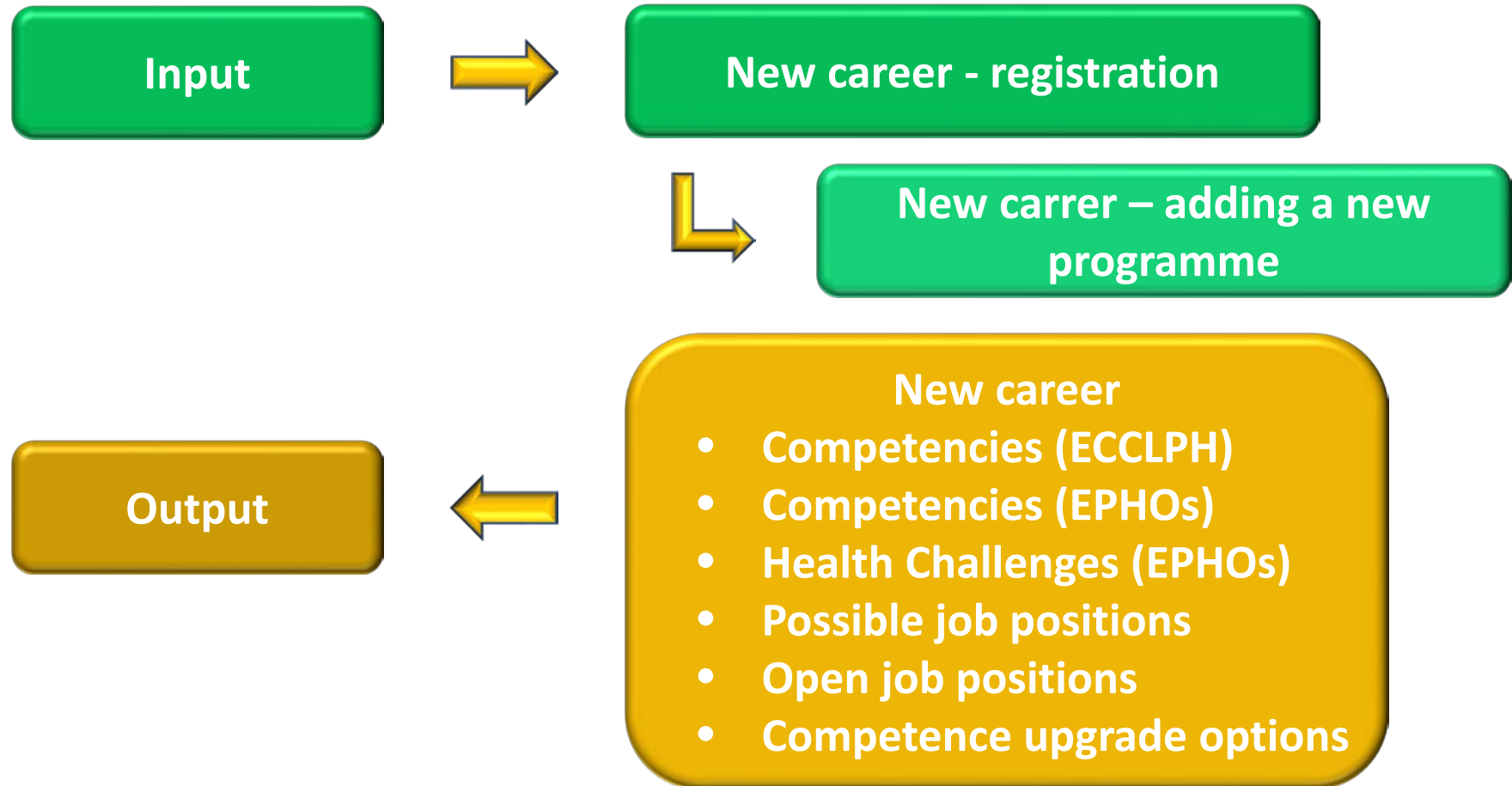


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User: Student/Graduate



User: Student/Graduate

Input



New career - registration

- status (student/graduate)
- school/University
- programme
- country
- year of birth



New carrer – adding a new programme

- name of programme
- name of programme director/
contact person



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User: Student/Graduate



Displayed output



Competencies acc. to the programme of the school/university (as ECCLPH or EPHOs)



Population Health Challenges matching competencies' profile (based on EPHOs)



Possible job positions (as CFPHW)



Open job positions



Competence profile upgrade options



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What data can we get on the Online Platform



New career



Ongoing
career



Job positions/
offers



Programme/
course



Verification/
Analysis



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Challenges ahead

Mapping files

Tender specification and
procedures

(Willing) IT provider

Multilingual version



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Challenges ahead

Mapping files

ECCLPHP → EPHOs

EPHOs → ECCLPHP

EPHOs → CFPHW

CFPHW → EPHOs



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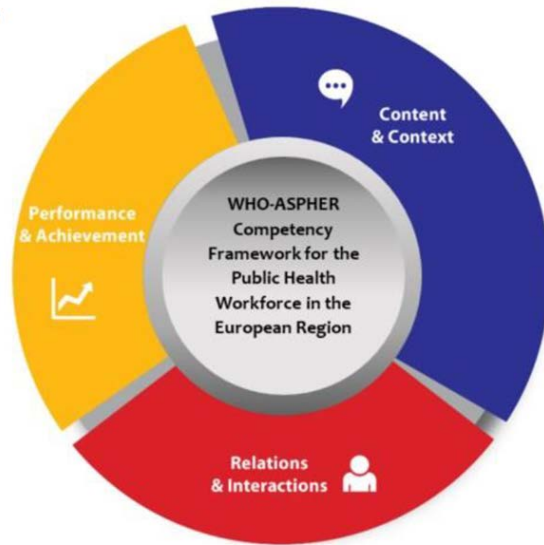
Mapping files (just abstract example)

A		B
Device		IP Address
C3cage1-AS	→	10.4.204.11
C3cage1-MGMT-SW	→	10.4.204.12
C3cage1-RPC1	→	10.4.204.13
C3cage1-RPC2	→	10.4.204.14
C3cage1-RPC3	→	10.4.204.15
C3cage2-AS	→	10.4.204.21
C3cage2-MGMT-SW	→	10.4.204.22
C3cage2-RPC1	→	10.4.204.23
C3cage2-RPC2	→	10.4.204.24
C3cage2-RPC3	→	10.4.204.25
C3cage3-AS	→	10.4.204.31
C3cage3-MGMT-SW	→	10.4.204.32
C3cage3-RPC1	→	10.4.204.33
C3cage3-RPC2	→	10.4.204.34
C3cage3-RPC3	→	10.4.204.35
C3cage4-AS	→	10.4.204.41
C3cage4-MGMT-SW	→	10.4.204.42

one-to-one




B	C
IP Address	Sort Helper
10.4.204.11	→ 10004204011
10.4.204.12	→ 10004204012
10.4.204.13	→ 10004204013
10.4.204.14	→ 10004204014
10.4.204.15	→ 10004204015
10.4.204.21	→ 10004204021
10.4.204.22	→ 10004204022
10.4.204.23	→ 10004204023
10.4.204.24	→ 10004204024
10.4.204.25	→ 10004204025
10.4.204.31	→ 10004204031
10.4.204.32	→ 10004204032
10.4.204.33	→ 10004204033
10.4.204.34	→ 10004204034
10.4.204.35	→ 10004204035
10.4.204.41	→ 10004204041
10.4.204.42	→ 10004204042

Mapping EPHOs → CFPHWs



Essential Public Health Operation (EPHO)	Description of the EPHO	Corresponding Core Competency
 <p>EPHO 1: Surveillance of Population Health and well-being</p>	<p>The purpose of this EPHO is to feed information and intelligence to health needs assessments to health impact</p> <div data-bbox="958 468 1250 708" style="background-color: red; color: white; text-align: center; padding: 10px; font-weight: bold; font-size: 1.2em;">one-to-many</div> <p>reduce opportunities to be healthy. Well-functioning public health laboratories are, therefore, critical to countries' surveillance and response activities.</p>	<p>1.1 Knows the features of demographic structure in a given society/community and understands the process of demographic change and its implications for public health.</p> <p>1.2 Is able to describe the key features of the epidemiology of the significant causes of morbidity and mortality in the population for which they have responsibility.</p> <p>1.3 Uses vital statistics and health indicators effectively to increase knowledge and generate evidence about population health, including within at-risk and vulnerable groups.</p> <p>1.5 Has an awareness of the health needs of the population based on considerations of the burden of disease, indicators, characterisation of risks and demand/access for healthcare.</p> <p>1.6 Contributes to or leads community-based health needs assessments ensuring that these assessments consider biological, social, economic, cultural, political physical determinants of health and broader determinants of health such as deprivation.</p> <p>4.7 Knows and participates in the development and application of multi-sectorial evidence-based guidelines and systems for surveillance, prevention and control of diseases and other acute public health events.</p> <p>4.8 Performs surveillance of risks and threats to the full continuum of factors that influence and determine health to identify intervention needs.</p>

Mapping CFPHWs → EPHOs

EPHO	Competency
<p>EPHO 10</p> 	<p>1.9 Develops and implements standards, protocols and procedures which incorporate national and/or international “best practices” in the health system.</p>
<p>EPHOs 6 & 8</p> 	<p>1.10 Understands the health system structure, its governance, funding mechanisms, and how healthcare services are organised.</p>
<p>EPHOs 1 – 10</p> 	<p>1.11 Knows and has intellectually incorporated the underlying concepts of the Ten Essential Public Health Operations (EPHOs) and understands their implications for their own organization, the partners, the public health system.</p>

many-to-many

Solution for now - output from WP.3

Abridged-WP3-Competence-List		EPHOs	WHO-ASPHER-Competencies-Non-Comprehensive-List
Domain	Competences		
Methods	Definitions of Health & Public Health	1	1.1, 1.2
	Disease Classification Systems	1	1.2, 1.3, 1.6
	Basic Epidemiologic/Demographic Concepts	1, 10	1.1, 1.2, 1.3, 1.7, 4.7, 4.8
	Epidemiologic Study Designs: Observational	1, 10	1.7
	Epidemiologic Study Designs: Experimental	1, 10	1.7
	Qualitative Research Methods	1, 10	1.7
	Questionnaire Design & Scaling	1, 10	1.7
	Statistical Concepts	1, 10	1.3, 1.4
	IT & Data Handling	1, 10	1.4
	Scientific Writing & Reading	1, 10	10.6, 1.4
	Develop a PH Research Protocol	1, 10	1.7
	Conduct a PH Research Project	1, 10	1.7
Basic Population Health Definitions & Concepts	1, 4	1.1, 1.5	
Population Health Indicators	1, 10	1.3, 1.5	

Challenges ahead

Mapping files

**Tender specification and
procedures**

willing IT provider

Hebrew version



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Challenges ahead

Mapping files

Tender specification and
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**Timelines for Platform delivery
by IT provider**

Multilingual version



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What else?



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