



Successes & Challenges of BOHS in Thailand

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*Will be presented at the webinar on basic occupational health services
on 21st March 2024*

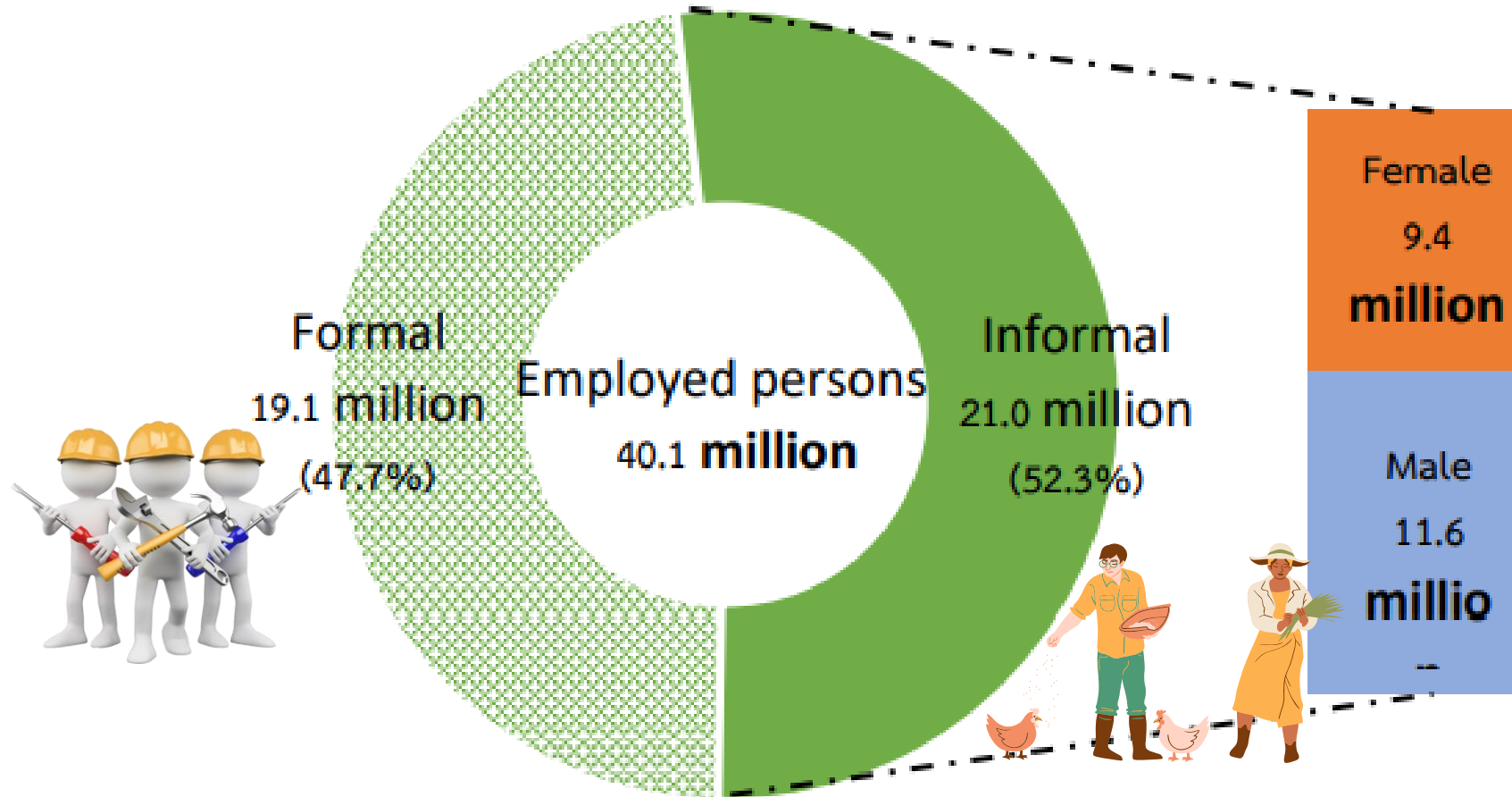
Outline of presentation

- Situation of employed workers in Thailand
- Informal worker and occupational risks
- OH&S National Intervention programme
 - BOHS development system
 - Training course
 - Data system



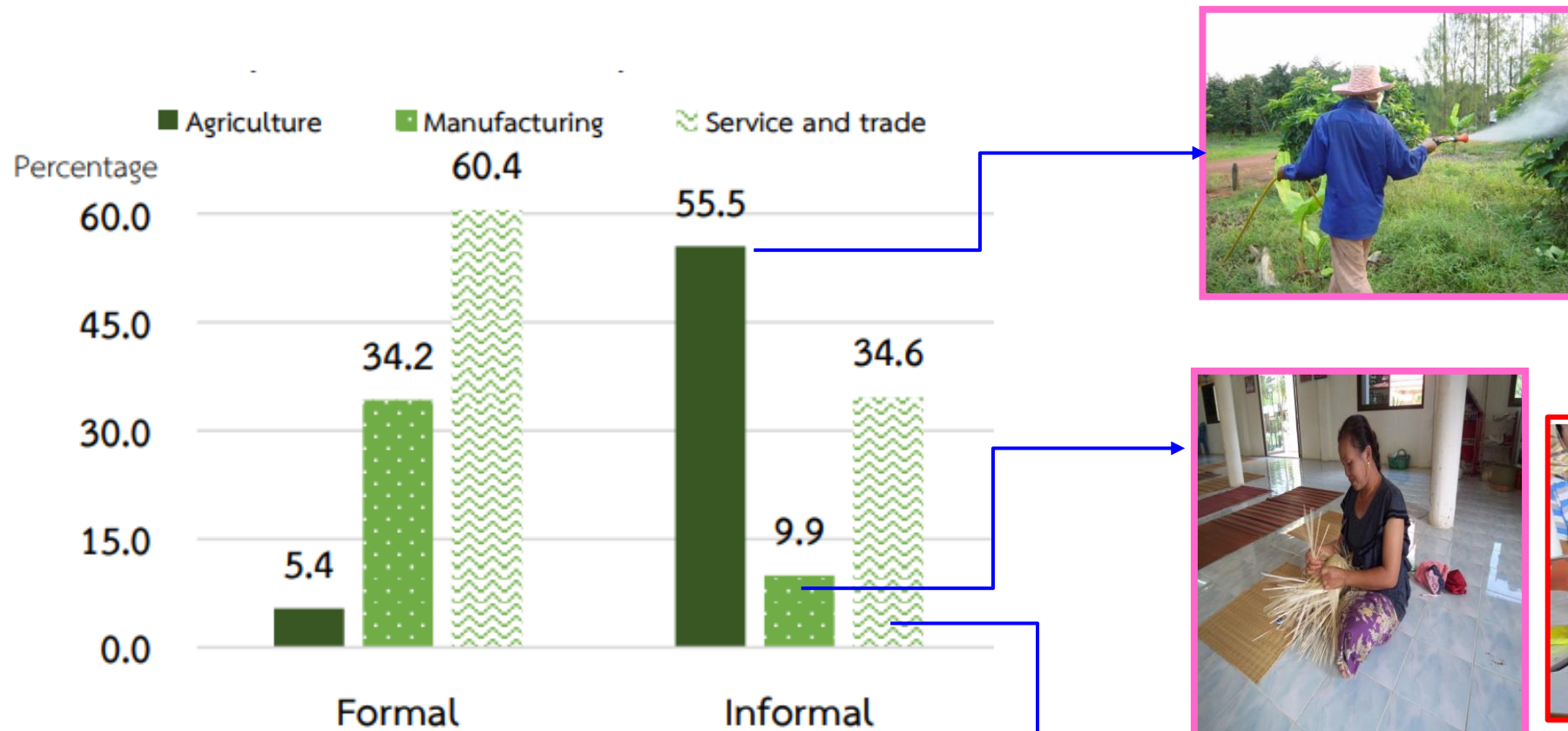
Labor situation in Thailand in 2023

Number of informal employment by sex in 2023



Proportion of informal employment in 2023

Percentage of occupational group



Health hazards among informal workers

2

Working condition 37.8

3

Dust/ smoke/ Smell 32.6

Inadequatr light 9.3

Percentage

1

Chemical 63.0

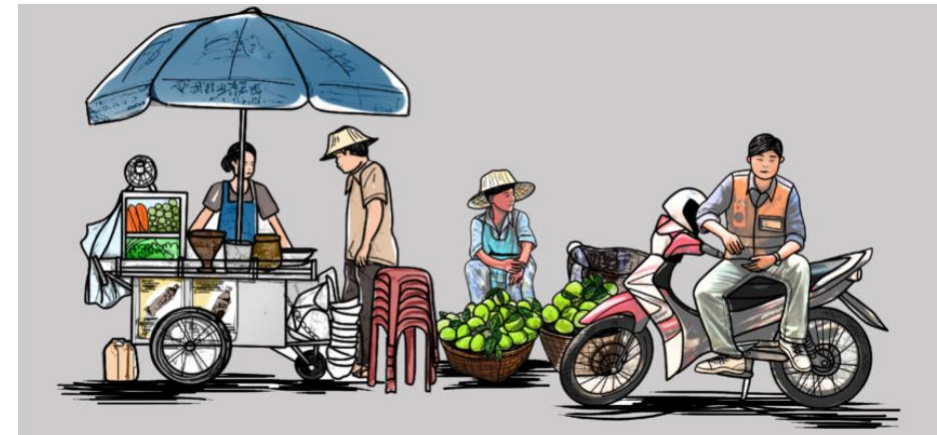
Dangerous equipment 15.9

Ears/ eyes 4.1

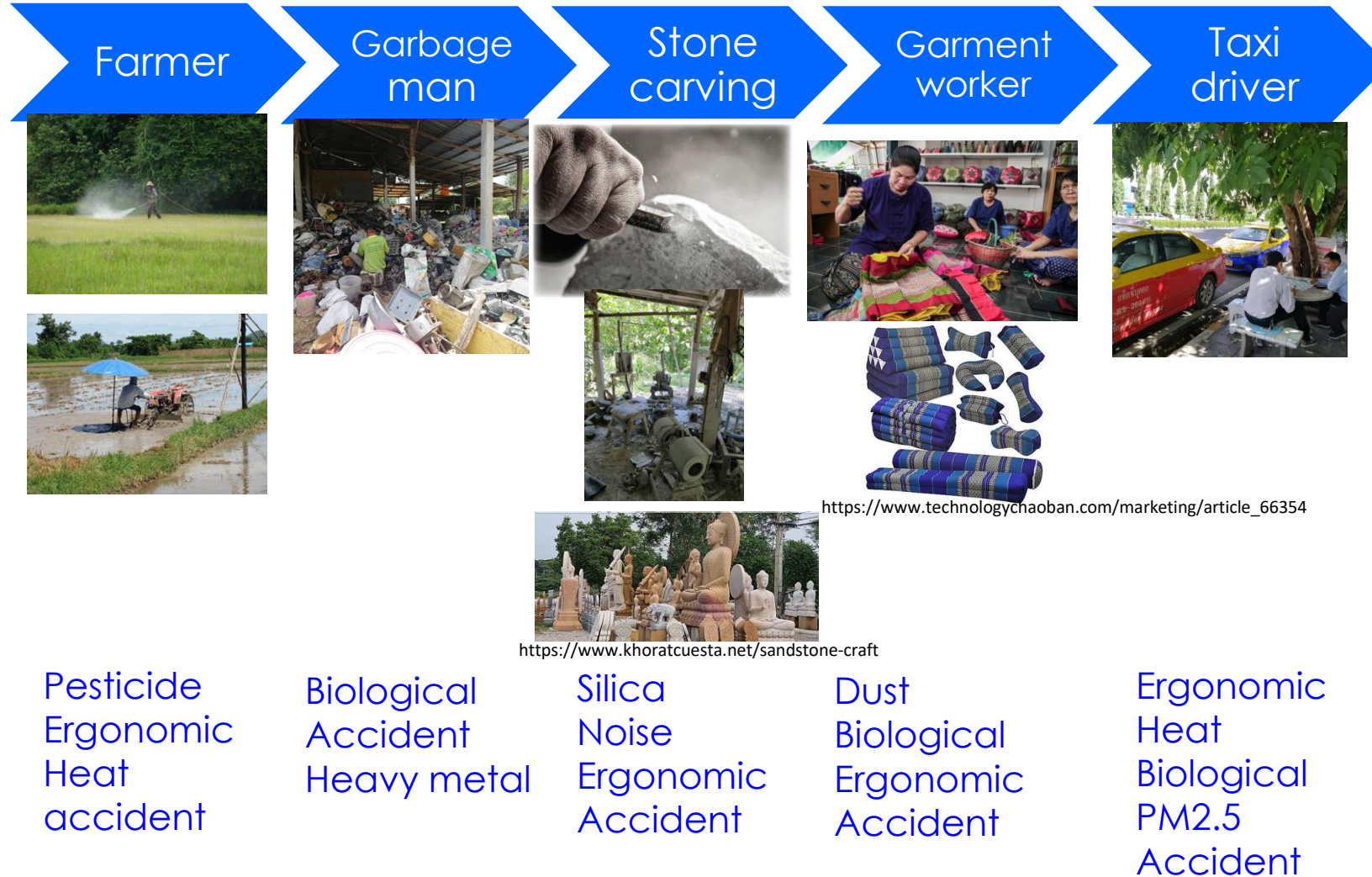
Percentage

1 informal may be face more than 1 problem.

There were 5.9 million of informal workers faced the OH hazards (28.2%) such as chemical, working condition and others .



Major OH hazards among high risk gr. of informal worker



OH&S National Intervention Programme

Health services hierarchy under MoPH

Health Services Hierarchy in Thailand

Provincial Administrative Organization
(local government)

Private hospital = 425

Central

Ministry of Public Health

Province

Provincial Hospital = 127

District

Community Hospital = 755

Sub-district

Primary Care Unit = 6,342

Sub-district

Primary Care Unit = 3,377

OH services quality assurance system development

Aims of OH & ENV services development

- To increase the coverage of OH services
- To develop the quality of OH services delivery
- To address on the OH& safety among health worker

OH & ENV services quality assurance system have been established since 2015.

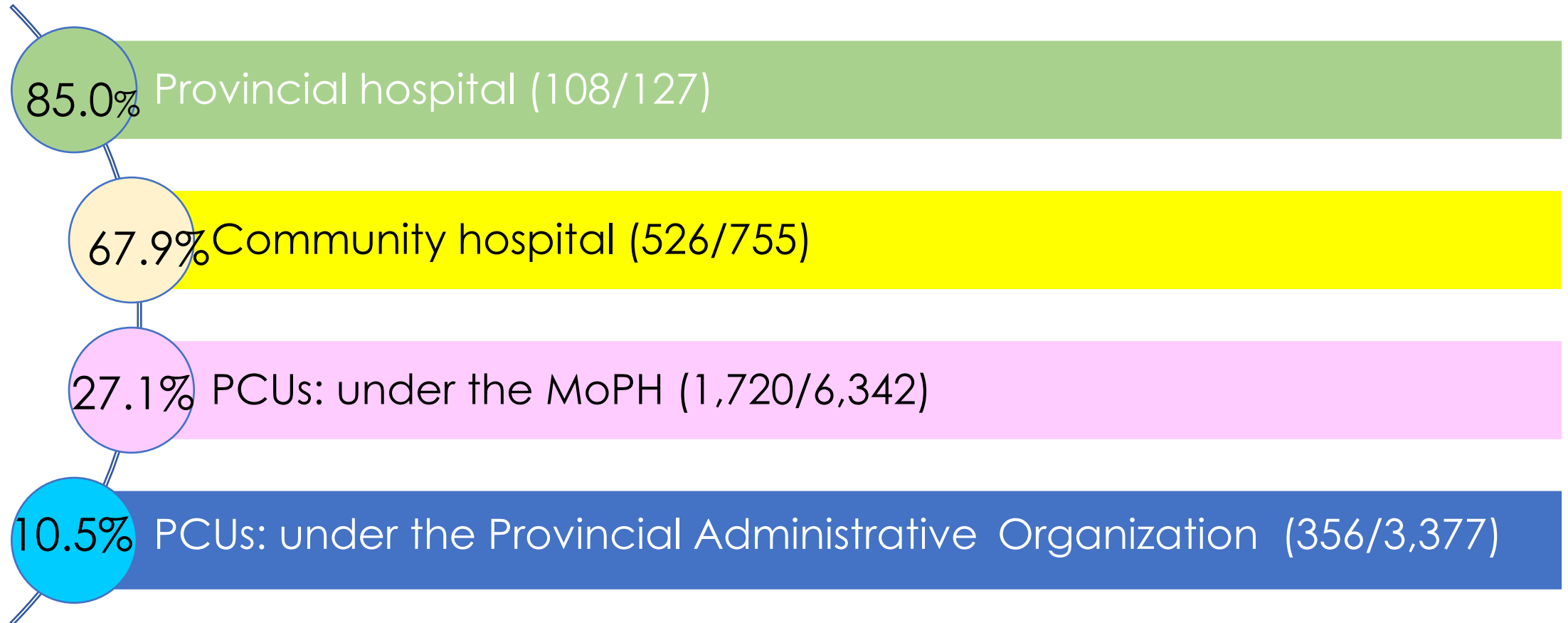
Steps of implement:

- Develop the tool: standard/ guidelines
- Set up the quality assurance system.
- Integrate with the existing system such as hospital accreditation: HA
- Collaborate with related agencies: regional DDC, Provincial Public health Office and others to support health care providers.
- Train the auditors to audit the participated health care providers.

Levels of PCUs

Component of OH services standard	Starting	Good	Very good	Excellent
1. Organization management	50%	50%	50%	60%
2. OH&S for health workers	-	50%	50%	60%
3. Pro-active OH services	50%	50%	50%	60%
4. in-house OH services			50%	60%
5. Pro-active environmental medicine services				50%

No. and percentage of health care providers whom passed the OHS standards in 2023



The training course for OH personnel



OH training course: MoPH

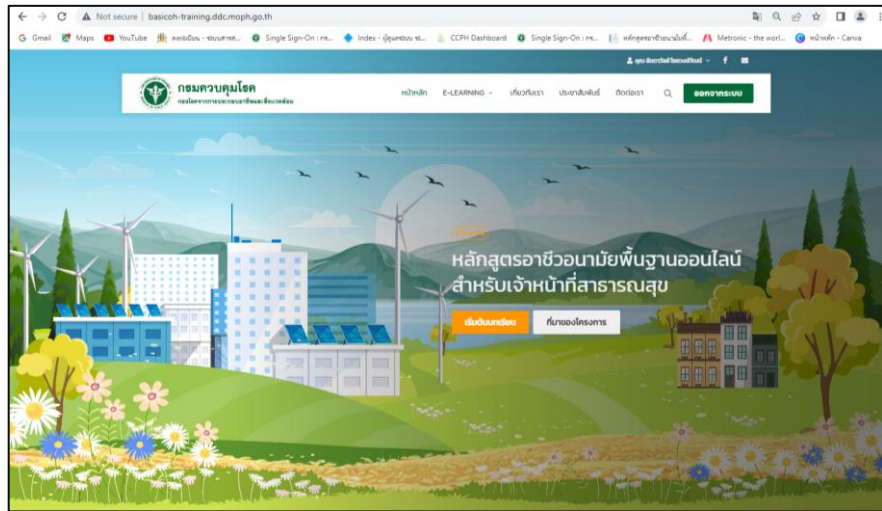
Title	Duration	Target
1. OH for nurses	60 hrs.	Registered nurse
2. Certificate of Nursing Specialty Program in OH Nursing (collaborate with the university)	4 months	Registered nurse
3. Occupational medicine	2 months	Physician
4. Fundamental of OH	5 days	Public health technical officer (PCU)
5. OH measurement (equipment use)	4 days	Nurses, Public health technical officer
6. Passive OH services for community hospital	2 days	Nurses, Public health technical officer
7. Basic OH for H volunteer	1 day	Health volunteer
8. Fundamental of OH for health personnel (virtual platform) course has been open in Feb 2023	12 hrs	Public health technical officer, Nurse (PCU)
9. International BOHS	5 days	Bachelor degrees or higher in public health, nursing, doctor of medicine or relevant degrees from other countries.
10. Environmental and Occupational field Epidemiology	60 hrs.	Occ Med, FETP alumni, general practitioners, or public health officers from Thailand and other ASEAN countries



The online training course for PH personnel in PCUs



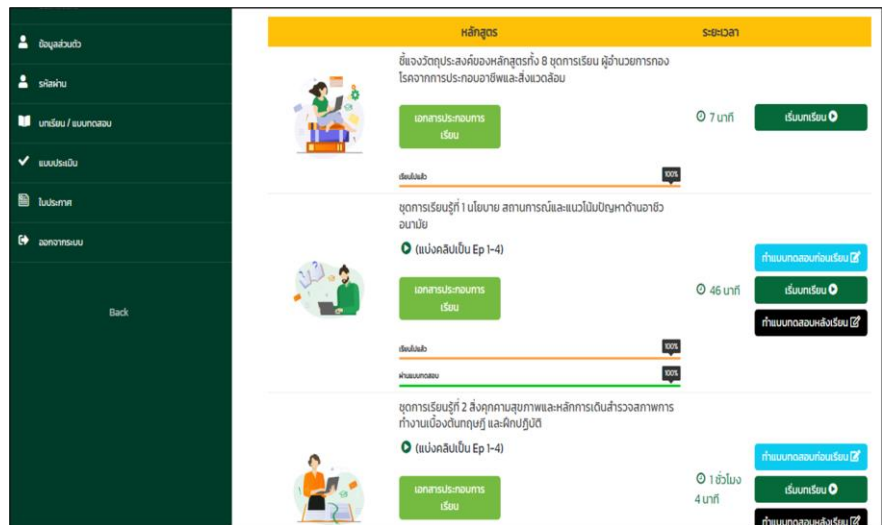
Basic OH for PH personnel



Specific objectives:

After completing the training, PH personnel will be able to;

- Describe OH situations, problems, and plans for the area where their PCUs are located.
- Identify OH hazards
- Conduct risk assessment and management
- Deliver both passive and active OH services



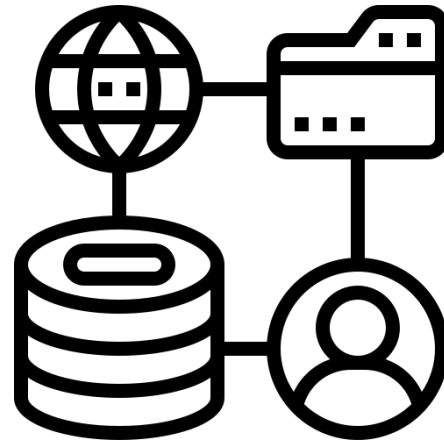
The training curriculum

Subject	Duration (hr)
1. OH situation and OH strategic plan	1
2. Walkthrough survey and case study	2
3. Risk assessment and management and case study	2
4. OH legislation	2
5. Common occupational illnesses in the community	1.5
6. Concept of OH services and case study	1.5
7. ICD-10 record keeping for OD and case study	2
Total	12



The course has begun since Feb 2023, currently 1,545 PH personnel participated in the course. Of them 731 (47.3%) finished and got the certificate.

OD diseases data system : Health Data Center (HDC)



OD and health examination reports under HDC



OD

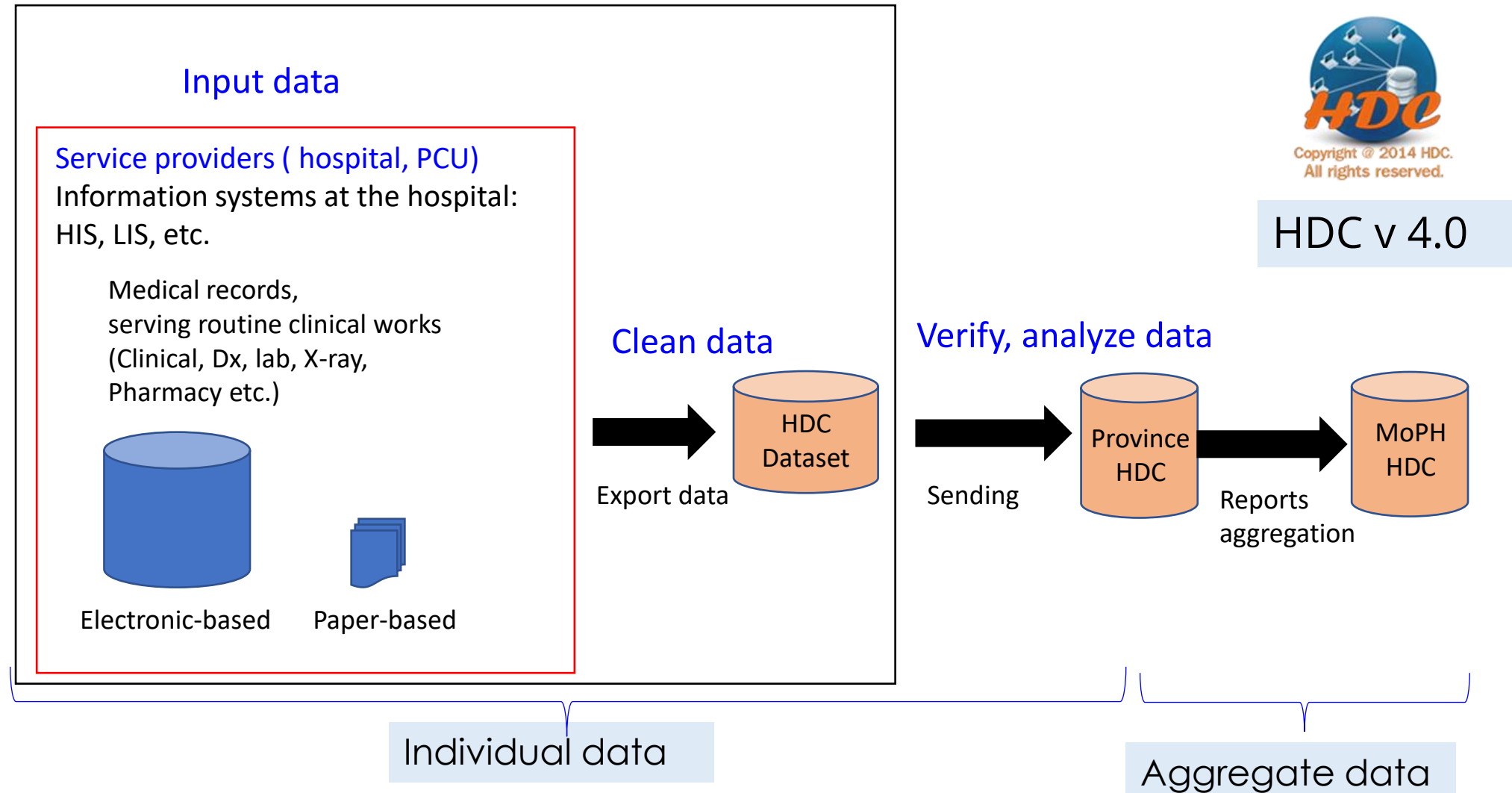
1. Toxic from pesticide poisoning
2. Work-related musculoskeletal
3. Asbestosis
4. Mesothelioma
5. Silicosis
6. Noise-induced hearing loss
7. Occupational VOC poisoning
8. Occupational injury
9. Occupational heavy metal poisoning
10. Occupational lead poisoning
11. Occupational mercury poisoning
12. Occupational heat-related illness
13. Occupational skin diseases
14. Occupational Asthma



OH Screening

- OH vision test
- Spirometry
- Audiometry
- Chest X-Ray
- OP&C exposure screening using Cholinesterase reactive paper

Flow of data from the service providers to HDC



HDC Dashboard

The screenshot shows the HDC Dashboard interface. The top navigation bar includes 'หน้าแรก', 'กลุ่มรายงานมาตรฐาน', 'ตัวชี้วัด', 'ตรวจสอบการส่งข้อมูล', 'EIS', and 'ทีมงาน'. A dropdown menu is open under 'กลุ่มรายงานมาตรฐาน', listing various categories. A red circle highlights the 'โรครจากการประกอบอาชีพและสิ่งแวดล้อม' (Occupational diseases) item. Another red arrow points to the 'Migrants' item in the right-hand menu. The main content area features a large card for 'จำนวนผู้ป่วยนอก (คน)' with a value of 66,622,060.

Occupational diseases

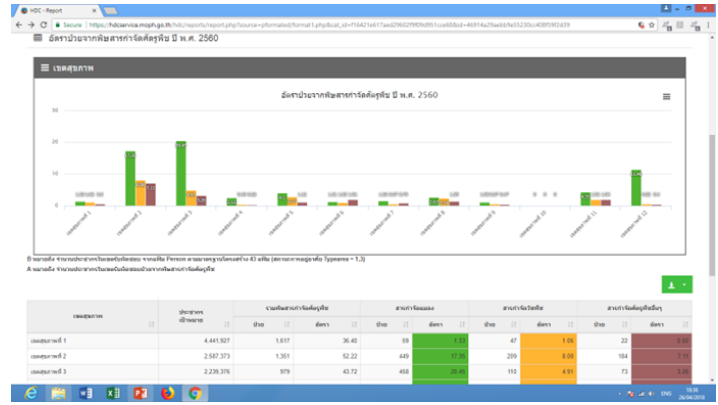
Ex. Morbidity rate of pesticide poisoning

กลุ่มรายงานมาตรฐาน >> โรครจากการประกอบอาชีพและสิ่งแวดล้อม

ข้อมูลระบบรวม:

ชื่อรายงาน	เป้าหมาย	ผลงาน	อัตรา
1. อัตราป่วยจากพิษสารกำจัดศัตรูพืช	47,804,583	4,391	9.22
2. อัตราผู้ป่วยนอกจากพิษสารกำจัดศัตรูพืชที่เสียชีวิตจากพิษสารกำจัดศัตรูพืช	4,391	5,827	132,703.26
3. อัตรา...			
4. จำนวน...			
5. อัตรา...	4,583	0	0.00
6. อัตรา...			
7. อัตรา...			
8. อัตราป่วยจากพิษสารตะกั่ว	47,804,583	0	0.00
9. อัตราป่วยจากพิษสารตะกั่ว รายกลุ่มอายุ			
10. จำนวนผู้ป่วยจากพิษสารตะกั่ว จำนวนรายอาชีพ			
11. อัตราป่วยจากพิษปรอทและสารประกอบ	47,804,583	0	0.00
12. อัตราป่วยจากพิษปรอทและสารประกอบ รายนกลุ่มอายุ			

https://hdcservice.moph.go.th/hdc/main/index_pk.php



Limitations of OH services delivery in PCUs

The OH services were not yet incorporated into all PCUs because of some limitations such as;

- lack of knowledge on occupational risk management among health care personnel, and
 - indefinite policy and specific budget for OH services.
- Due to the health decentralization policy, the voluntary PCUs are being transferred from MoPH to the local government. Currently the facilities, staff, budget and others resources of such PCUs are moved therefore the whole health system is impacted.



Necessary steps towards the future

The future strategies should be addressed in these issues as follow;

- policy advocay to support operational resources and personnel need,
- health examination related to work for informal workers is being proposed to be the benefit package of univeral coverage scheme,
- capacity building for all related personnels following OH services including health promotion leading to OH&safety and wellbeing among community workers,
- improvement data system for recording and reporting OD cases or other OH services activities,
- continuous collaboration among MoPH and the local government organization to sustain and extend the OH works.



THANK YOU

FOR YOUR KIND ATTENTION

