



INNOVATION SHOWCASE

PODD

Participatory One-Health Disease Detection

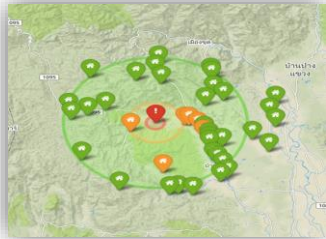
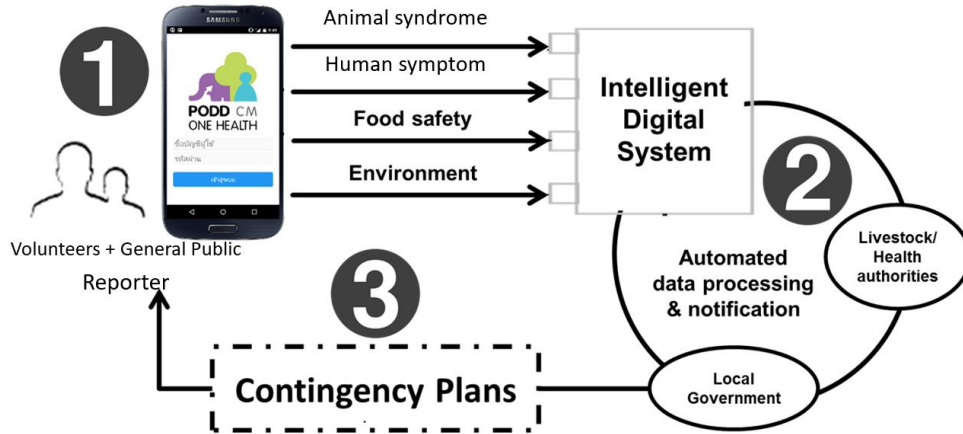
PODD ADDRESSING PROBLEM

Lack of **community participation** in disease outbreaks detection and response

- ❖ Unable to achieve timely pandemic prevention at its source
- ❖ Shortage of global preparedness for the next pandemics



**Reporting App for villagers,
allowing outbreak signal to
be early detected**



**Informatics for alerting &
prompt outbreak control**



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THE SOLUTION

1) The **PODD system approach** enables early detection and rapid response of animal & human disease outbreak. It provides real-time notification and informatics to manage incidents right at the outbreak place.

2) The ready to use open-source **basic PODD software (OHTK)** is accessible for any interested parties.

Part 1: The ongoing PODD surveillance system in Thailand:

- ❖ **Choice of 18 features** covering major community one health issues
- ❖ **Ready to share & support:** Inventing & community co-creation know-how with implementing experience
- ❖ **Initiate a smart safety community network**

Why PODD provides choice and co-creation for communities ?

Outbreaks occur a few times in a year.
No working system would survive just for 2-3 times usage in a year.

To limit the system only on pandemic interest at the community level is therefore not sustainable in the real world situation.

SUCCESS AND CHALLENGE

To consolidate PODD usage in Thailand by realizing the community owned system responsive to local needs

- ❖ To date 407 out of 7,800 Local Government utilized the PODD system for their own interest (300% of the project target, covering 2M people)
- ❖ 50K reports in the last 6 months (preventing spread of 96 potential outbreaks in animal)

Potential Outbreak	Number
COVID-19	10
Dengue	55
Abnormal Animal Sick/Death <ul style="list-style-type: none"> - Chicken 54 (abnormal high mortality) - Dog 19 - Cat 3 - Cattle 4 (LSD) - Bird 2 - Pig 5 (ASF) 	96

The screenshot displays the One Health Toolkit website and its mobile application. The website header includes the URL, navigation links (Home, Software, Learning Series, About, Join), and logos for PODD, One Health Toolkit, and jhpiego. The main banner features a group of diverse people and the text: "Prevent Pandemics with People" and "The One Health Surveillance Toolkit empowers communities to prevent and respond to outbreaks". Below the banner are buttons for "Get The Toolkit" and "Learn more". The bottom section shows a laptop displaying the "Dashboard" with a map and "Reporting Trends" chart, and a smartphone displaying the "Report type" screen with various surveillance categories.

Prevent Pandemics with People

The One Health Surveillance Toolkit empowers communities to prevent and respond to outbreaks

[Get The Toolkit](#) [Learn more](#)

Report type

☒ Zero report ☐ Test

เหตุการณ์ (Events)

- Event Base Surveillance
- Consumer Protection
- Animal bite and Rabies Surveillance
- Food Safety

สุขภาพสัตว์ (Animal Health)

- Animal Disease Surveillance

สิ่งแวดล้อม (Environment)

- Environmental Health
- Natural Disaster
- Disaster



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Part 2: One Health Toolkit (OHTK)

- 1) 8 features of basic one health reporting software, emphasizing animal health surveillance to avert pandemic. *Now available in English and Lao.*
 - 2) One Health learning series for general public to learn and trial about the PODD system.
- ❖ OHTK is accessible from the website

Part 3: Implementation and application in other countries:

- ❖ Piloting PODD system and OHTK in Laos through trainings and PODD digital system implementation
- ❖ Exploring other potential communities to trial the surveillance system and tool



Implementation Area in Laos PDR





ENVIRONMENTAL
HEALTH



ONE
HEALTH



HUMAN
HEALTH



ANIMAL
HEALTH



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FRONTIERS

Expansion within SE Asia

OPPORTUNITIES

Application of the podd feature of **N**on-**C**ommunicable **D**iseases for sentinel surveillance of infectious diseases

Application of the podd PGS for the surveillance of animal disease and antimicrobial resistance



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PODD: ONGOING SUPPORT NEEDS

Funding support for scaling in Laos and expansion in Myanmar.

Partner to work with public health authority in those countries are needed.



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