e-Phyto Thailand Project

e-Phyto Connects Traders & Thailand to the World

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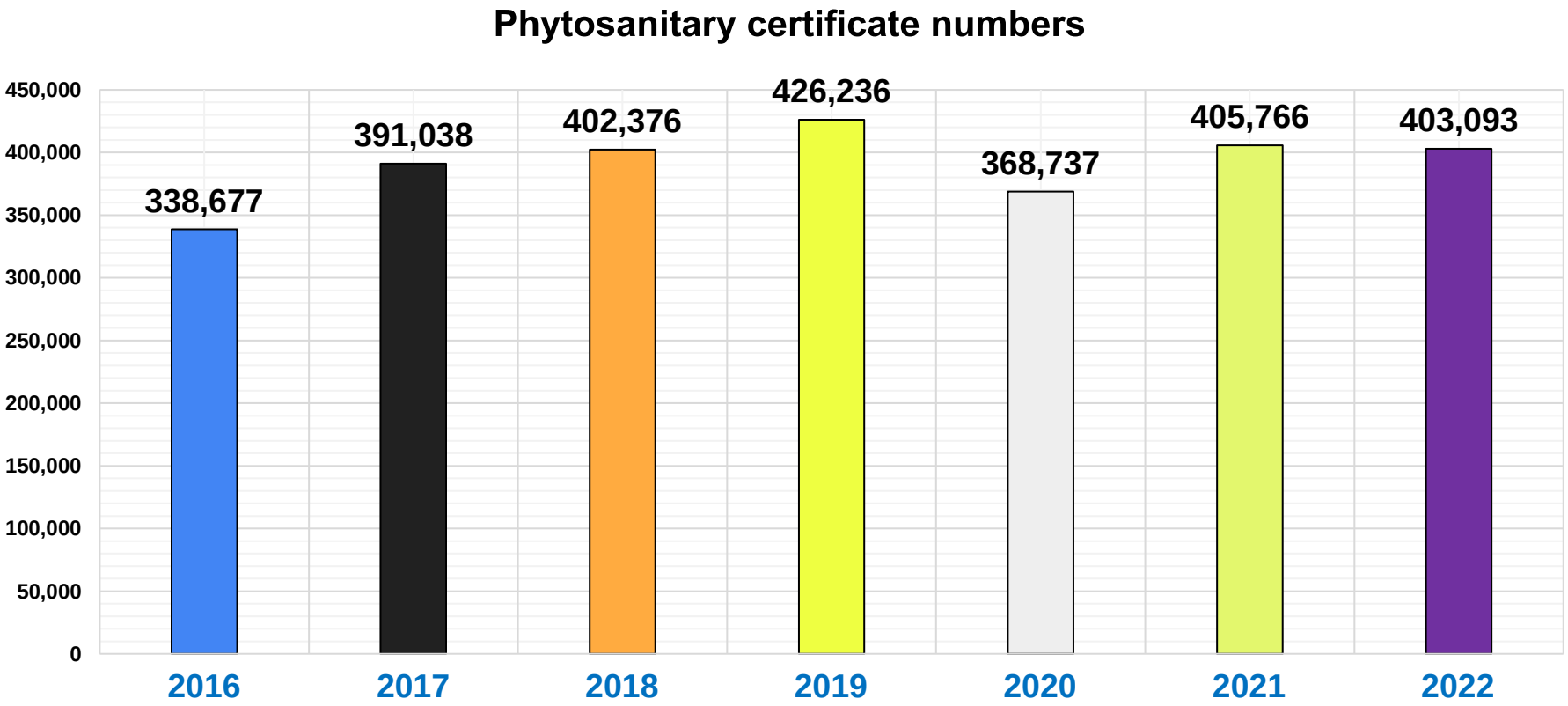
50 ปีกรมวิชาการเกษตร
DOA TOGETHER

“Achievement, Success,

Lessons learnt, Problems and Obstacles”

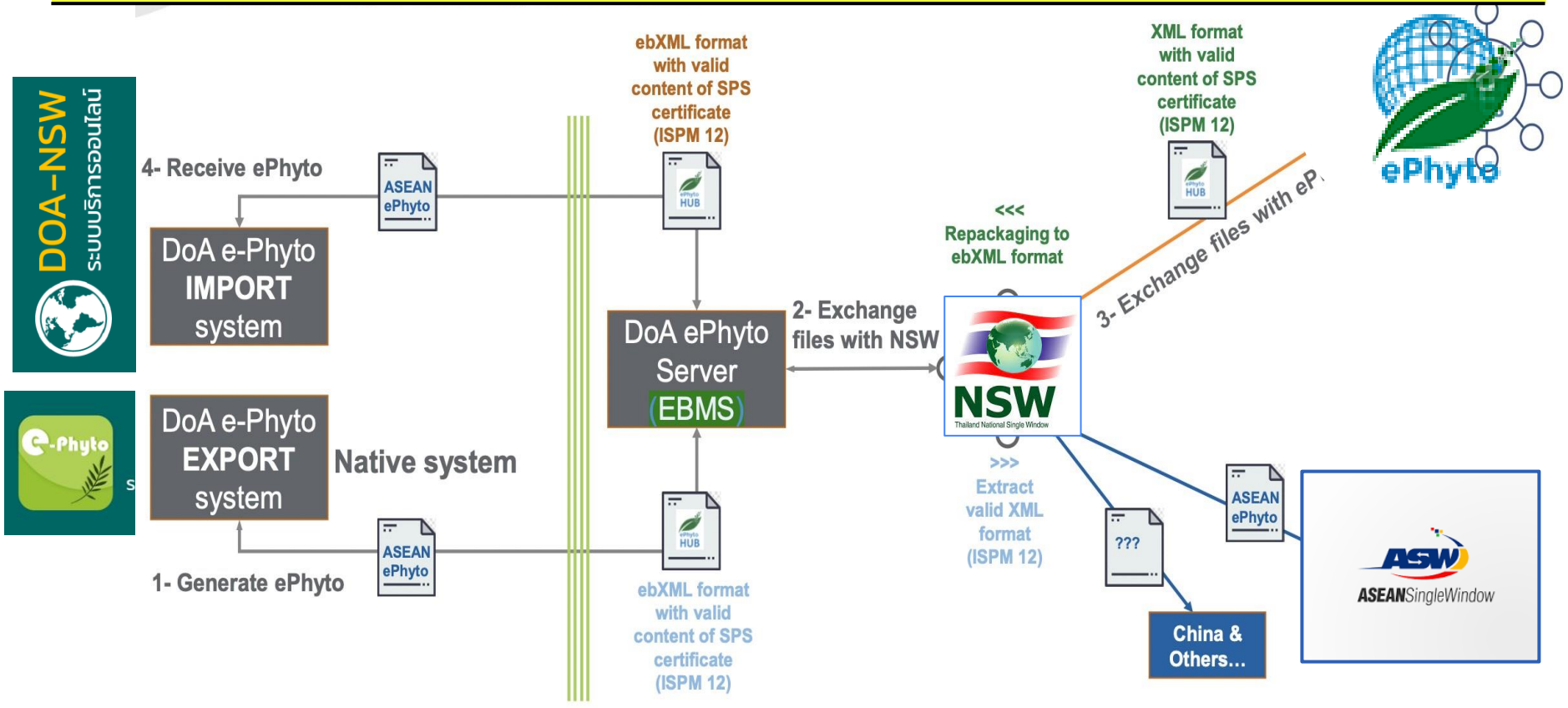
Phytosanitary certification graph of exporting products



Rationale

- **National Single Window or NSW**
- **DOA's Electronic Phytosanitary Certification System (ePhyto System)**
  - February 2022 (Pilot phase with specific products)
  - July 2022
- **ePhyto data exchange channels**
  - Point to Point
  - The IPPC Hub (Non-ASEAN Countries)
  - ASEAN Single window (ASW)

ePhyto exchange diagram



ePhyto data exchange

- **DOA's ePhyto system has been operationalized where PC request can be made via on-line system.**
- **Using the XML format based on ISPM12**
- **Data exchange between DOA and NSW**
- **Data exchange between NSW and ePhyto Hub**
- **Data exchange between ePhyto Hub and trading countries**

  [Testing completed countries] Australia, New Zealand, Arjentina, USA, South Korea, Chile, Fiji, France and Morocco

ePhyto Thailand Project: Overview

Impact	**Trade in plants and plant products in Thailand is facilitated**				
Outcome	**ePhyto solution deployed and connected to the IPPC Hub through NSW to facilitate the exchange of ePhyto certificates with global trading partners**				
Outputs	**Component 1:** IT Adaptation	**Component 2:** Capacity enhancement of stakeholders in applying ePhyto			
	1. ePhyto module operationalized and connected to the IPPC Hub through the Thai NSW	2. Capacities of DOA, Customs, ACFS officers to implement new ePhyto processes enhanced	3. Capacities of private sector stakeholders to use new ePhyto system enhanced	4. Awareness raising on new ePhyto processes	5. Regional and global knowledge exchange on ePhyto

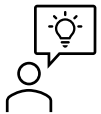
EPhyto Thailand Project: Achievement

Comp1: IT adaptation

Reviewed ePhyto System and NSW	Selected pilot countries (China, Australia, NZ and 5 countries)	Baseline study and explore PC procedure	Validation and preparation for testing	Full loop testing with nine pilot countries: Australia, New Zealand, US, France, Korea, Chile, Fiji, France (EU), Morocco

Comp2: Capacity enhancement of stakeholders

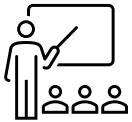
Officers' capacity



Trainings and troubleshooting workshop for DOA

- ✓ Two training-for-trainers Workshop for DOA
- ✓ On-line trainings for PQ officers *86 trained officers*
- ✓ Troubleshooting Management Workshop for DOA offic *52 trained officers*

PS's capacity



Around 1,600 trained persons from PS (89% from SMEs)

- ✓ Ten on-line trainings for private sector (Dec21-Jan22)
- ✓ An On-site training for vegetable & fruit exported to China (15Mar22)
- ✓ Three on-site trainings for Casava/tapioca/ Rice/Rubber, Fruit exporting to EU, Seed/Grain trading private sector (13,14,20Jun22)



Awareness & Exchange

- ✓ Public awareness raising event on ePhyto application *151 joined persons*
- ✓ Two RT Meetings
- ✓ On-line Awareness raising *100 participants*
- ✓ ePhyto Intro. video

Completed activities in Q1/2024

- ✓ New three ePhyto SOP documents
- ✓ Draft Strategic paper on ePhyto application in Thailand
- ✓ ePhyto Project Completion video

ePhyto Thailand Project: Estimated benefit

ESTIMATED TOTAL BENEFITS OF CHANGING FROM A PAPER-BASED TO DIGITAL SYSTEM

SAVINGS OF **3.5 HOURS** PER CERTIFICATE

SAVINGS OF **USD 12.7** PER CERTIFICATE

TOTAL ANNUAL SAVINGS OF USD 4.89 M

Total savings based on **392,532 certificates** exchanged (3-year average to all countries)
Results based on survey data collected from 30 operators
Cost savings consider staff and transport costs to operators

IMPACT OF NEEDING TO RE-ISSUE/AMEND A PHYTOSANITARY CERTIFICATE

2.5 days DELAY AT THE BORDER AT DESTINATION

Reported additional costs
- PENALTIES FOR LATE DELIVERY
- COST OF SHIPPING DOCUMENTS EXPRESS

ePhyto Thailand Project: Estimated benefit

PROJECTED SAVINGS FROM FACILITATING THE CERTIFICATE REQUEST PROCESS

SAVINGS OF **1.6 HOURS** PER CERTIFICATE

SAVINGS OF **USD 5.9** PER CERTIFICATE IN

TOTAL ANNUAL SAVINGS OF USD 2.12 M

PROJECTED SAVINGS FROM FACILITATING THE CERTIFICATE RETRIEVAL PROCESS

SAVINGS OF **1.7 HOURS** PER CERTIFICATE

SAVINGS OF **USD 6.8** PER CERTIFICATE

TOTAL ANNUAL SAVINGS OF USD 2.68 M

Total savings based on **392,532 certificates** exchanged (3-year average to all countries)
Results based on survey data collected from 30 operators
Cost savings consider staff and transport costs to operators

Implemented activities

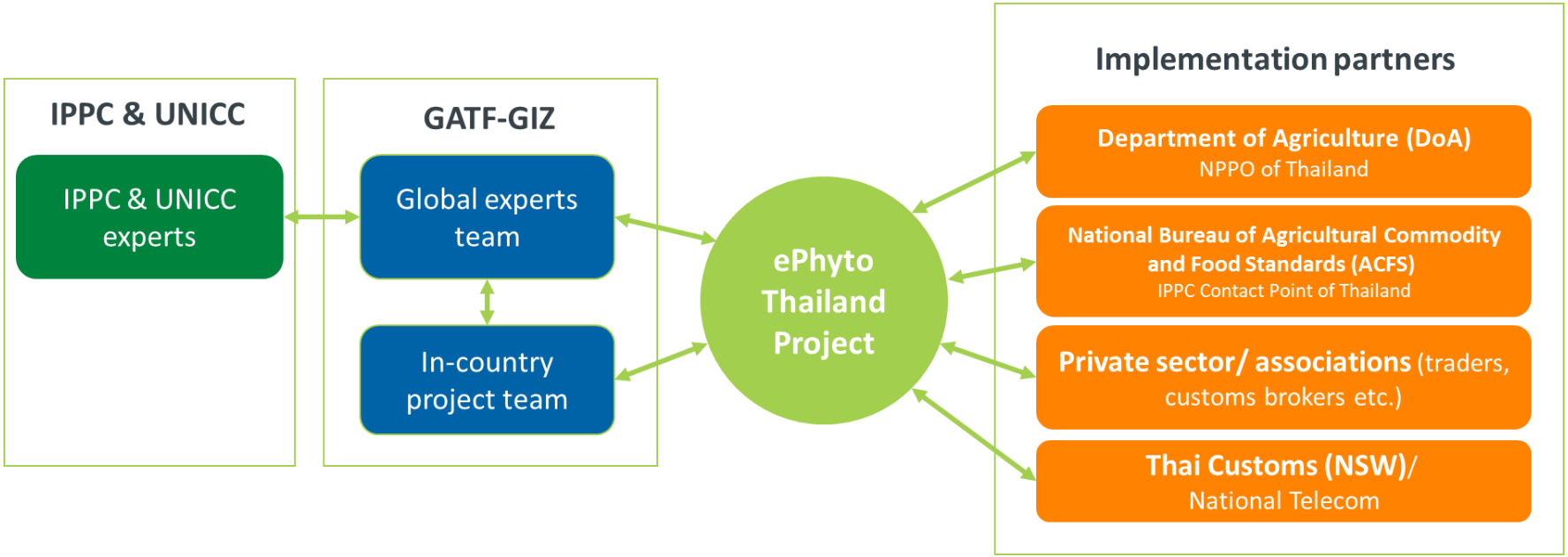
- **Design and development of ePhyto data exchange with trading countries**
  - ✓ Identified of ***pilot countries for exchange*** (testing and
    - ✓ Specified exchange format and set the collaborative workplan with partners for testing and live operation
  - ✓ Adopted ***requirements of import and export*** based on phytosanitary standards
  - ✓ Designed and developed infrastructure for data exchange via ***IT discussion meetings*** with supports from ***international experts and network***

Implemented activities

- **Capacity building improvement of ePhyto users**
  - **Conducted trainings and workshop for DOA officers**
    - ePhyto SOP Workshops for development of the new SOP document relating ePhyto system application
    - Trainings for Central and PQ administrative officers as well as PQ inspectors
  - **Conducted trainings and workshops for private sector (exporters, freight forwarders, shippings and third parties -** Around 1,600 trained people

Success factor

Collaborations among agencies: DOA, ACFS, TCD, NT, GIZ and UNICC



Implemented activities

- **Capacity building improvement of ePhyto users**
  - Arranged awareness raising events on ePhyto Application of Thailand and roundtable meetings to collect feedback from private users
    - Key agencies: International Seed Federation (ISF), Asian Pacific Seed Association (APSA), Thai Seed Trade Association (THASTA), Thai Fruit and Vegetable Producer Association and Thai Airfreight Forwarders Association
    - Recommendations: Request for data exchange via B2G and develop user-freiendly ePhyto system

Challenges and way forwards

“Thailand is ready for ePhyto data exchange (import & export)

- Nine pilot testing countries should be driven for live operation stage
- Need to set the workplan for specific country groups for next testing and live operation phases
  - IT Discussion
  - GAP Analyst
  - IT Expert Development
- Target Phase I: Hybrid exchange format (via gateway and paper format), and
- Phase II: Live exchange (ePhyto Paperless)
- System infrastructure should be designed for further application (various exchange format and trading requirements for example)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