



Integrating  
the Healthcare  
Enterprise

コネクタソン2025 コネクタソンワークショップ

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国際プラグアソン

EHDS & EEHRxF ワークショップのご案内

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# 国際 Plugathon のご案内

# PLUG-A-THON

知識や経験の共有と、データ連携の試作と実践の場



- コネクタソンは IHEプロファイルの検証を「しっかり」行う場です。
  - テストシナリオが用意され、全アクタが揃い、複数のベンダで接続確認します。
  - 審査員が電文内容も「しっかり」確認して、合否の判定を行います。
- 新しいプロファイルや、未来のプロファイルも検証してみたい！
  - TIになったばかりで、コネクタソンの参加が少ない→部分的にテストしてみたい！
  - 今検討中の新プロファイル要件は本当にこれでよい？ →実験して改良しよう！
  - 本当に必要なプロファイルは何？ →世界の情報を共有して、その場で試そう！
- そんなニーズを叶えるのが「プラグアソン」です！
  - 世界のニーズや、プロファイル技術要件を共有し、勉強しよう。
  - 試験シナリオをその場で考えプロト実装して、実際にデータ連携を試してみよう！

## MI-TW 2024 Opening Ceremony

Over 200 participants



### MI-TW Connectathon

#### 台湾醫學資訊聯測松

- Launch since 2020, organized by Medical Image Standard Association Taiwan (MISAT), also called DICOM-Taiwan
- Integrates globally renowned interoperability frameworks based on international standards to develop localized healthcare information interoperability testing efforts.
  - Digital Imaging and Communication in Medicine (DICOM)
  - Fast Healthcare Interoperability Resources (FHIR)
  - Integrating the Healthcare Enterprise (IHE)
- To build Taiwan's Healthcare Information Standardization Ecosystem

Standards - Implementation - Testing - Validation



## ➤ IPS トラック

- IPS + sIPS + SVCM にて国際間での患者サマリ情報を共有します。

## ➤ Secure Transaction トラック

- IUA + MHD にてRESTful通信をセキュアに実施する術を勉強します。

## ➤ AI & RESTful Imaging トラック

- 画像診断領域での AI や RESTful画像共有、造影情報共有をします。

## ➤ 臨床／病理検査 トラック

- LAWやDPIAといった検査部門のデジタル化手順を勉強します。

# IPS は国境を超えた患者サマリ情報の共有を目指す。

**IHE NORTH AMERICA EXPERIENCE DAYS 3-4 FEBRUARY 2025**

## IPS & HAJ Phase One Journey

### Milestones on Phased Rollout for using IPS at Hajj June 2024

- ✓ Establish WHO GDHCN Trust Domain for IPS during pilgrimage
- ✓ Begin implementation of Phase 1 functionality with Indonesia and carry out several testing by MOH e health (informatics division), WHO and one country (Indonesia)
- ✓ Engage Malaysia and Oman with some testing and guide lines
- ✓ Indonesian and Malaysian have completed and tested the IPS with workflow scenario 1 or phase 1
- ✓ Start training and change management development for HAJ-EMR, Hajj event (starts June 14)
- ✓ Evaluate utilization of IPS during Hajj
- ✓ Identify next steps:
  - \* Establish emergency "Break the Glass" consent directive and workflows
  - \* Broader country engagement, implementation and trainings

Partners: World Health Organization, Ministry of Health (Saudi Arabia), Saudi Arabia, Malaysia, United States, United Arab Emirates.

**IHE NORTH AMERICA EXPERIENCE DAYS 3-4 FEBRUARY 2025**

## 2024 Connectathon Highlights

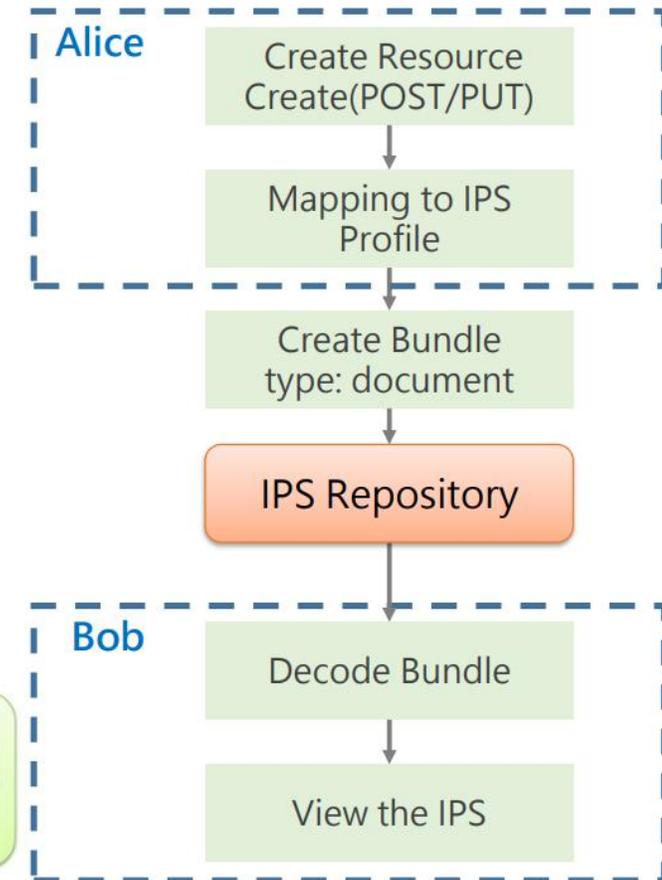
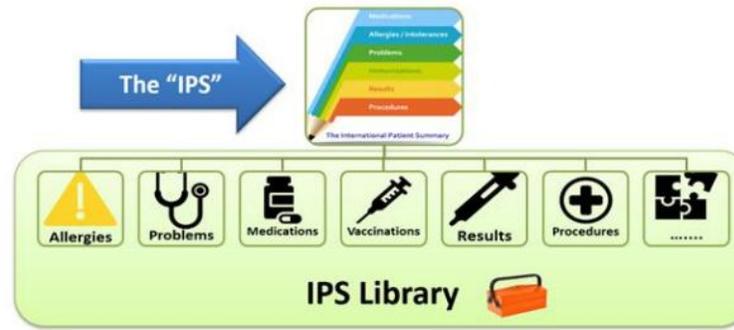
**380 Tests**

- Between both tracks, **380 tests** completed among the **18 participating countries**.
- The **DVC structure** was tested for the first time in the region using the **GDHCN testing environment**.
- 17 FHIR nodes** and terminology servers were deployed in the region for the PoCs.
- Person Mediated Exchange Data** were performing in 17 countries. 17 countries **on board** at the PH4H domain in the GDHCN.

## Track#12 – International Patient Summary

- Cross-border and cross-institutional patient health data exchange through FHIR
- Migrant workers, students studying abroad, and medical tourism

**Corporate with 6 countries in South Asia**  
Philippines, Sri Lanka, Indonesia, Thailand, Nepal, Malaysia





FHIR XX Report-Korea specification

KR IPS Converter

sIPS



FHIR XX Report -Japan specification

JP IPS Converter



TW IPS Converter

FHIR XX Report -TW Core IG

Another IPS Converter

SVCM

Another country-XX Core IG

## IPS as FHIR Document

- The IPS is a Bundle which uses the Composition resource to organize the patient's summary. It's both machine readable and human renderable

Document Information	Required	Recommended	Optional
Patient	Allergies and Intolerances	History of Procedures	Advance Directives
Author	Medication Summary	Immunizations	Functional Status
Attester	Problems	Medical Devices	History of Pregnancy
Custodian	Results	Plan of Care	Social History
			Vital Signs

**Bundle**

- Composition (1)
- Patient (1)
- Practitioner (\*)
- Organization (\*)
- AllergyIntolerance (\*)
- MedicationRequest (\*)
- MedicationStatement (\*)
- Condition (\*)
- Immunization (\*)
- Observation (\*)
- Other Resources (\*)

**Composition**

Elements that describe document (id, language, text)

**Subject of the IPS**

**Author of the IPS**

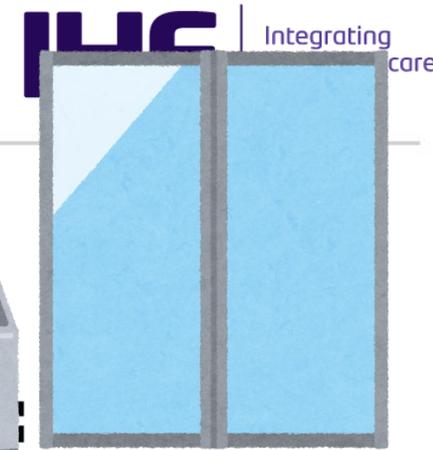
Clinical Services of IPS

**Sections of the IPS**

- Narrative Text
- Resource References



# Secure Transaction トラック



社員 ○○  
××部 △△課 課長  
YYYY/MM/DD HH:MM:SS 出社

Other client actor

Other Transaction

Other server actor



Authorization agent

Resource Server



Get Authorization Token [ITI-71]

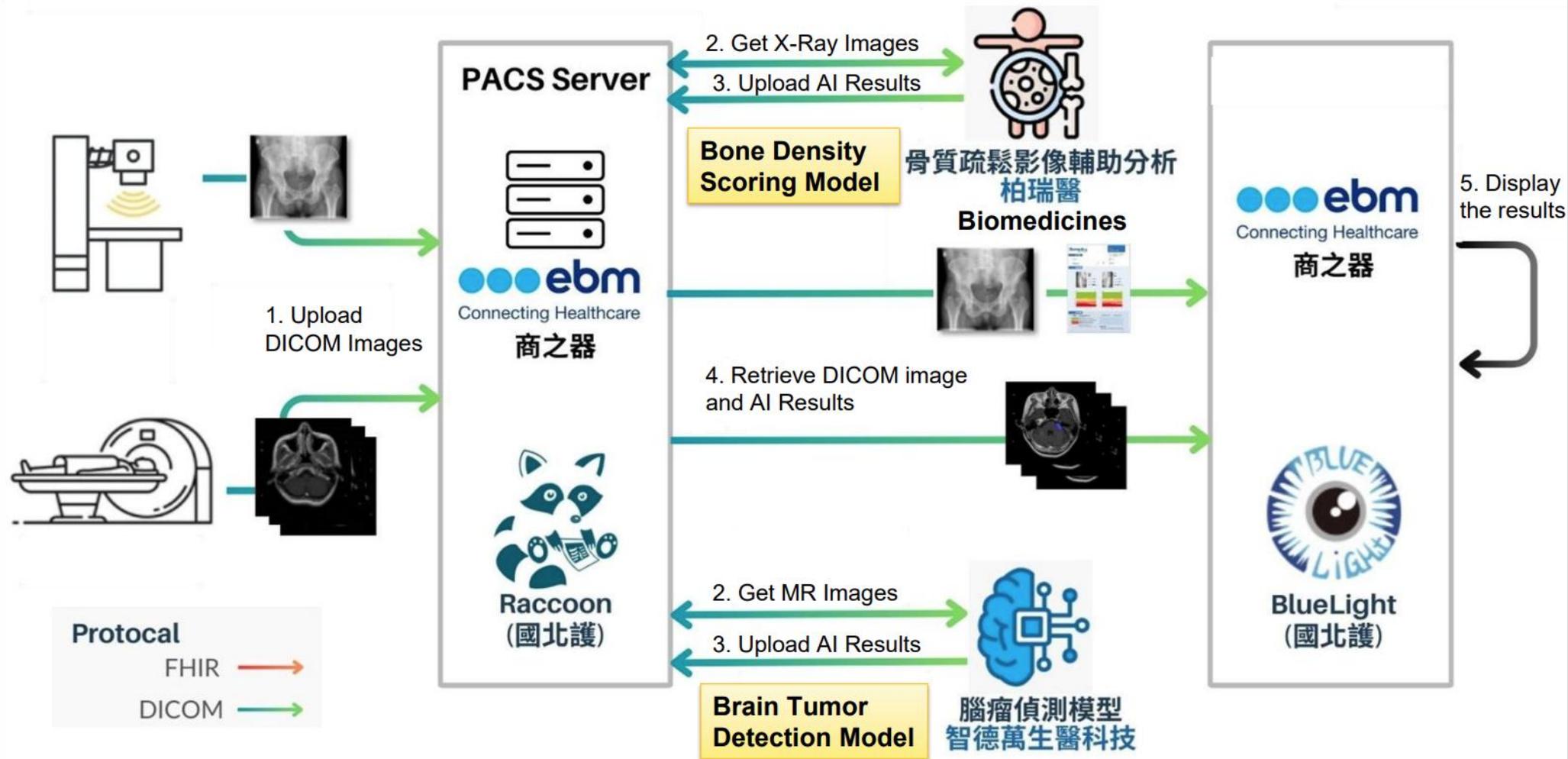
Incorporate Authorization Token [ITI-72]

Author Server

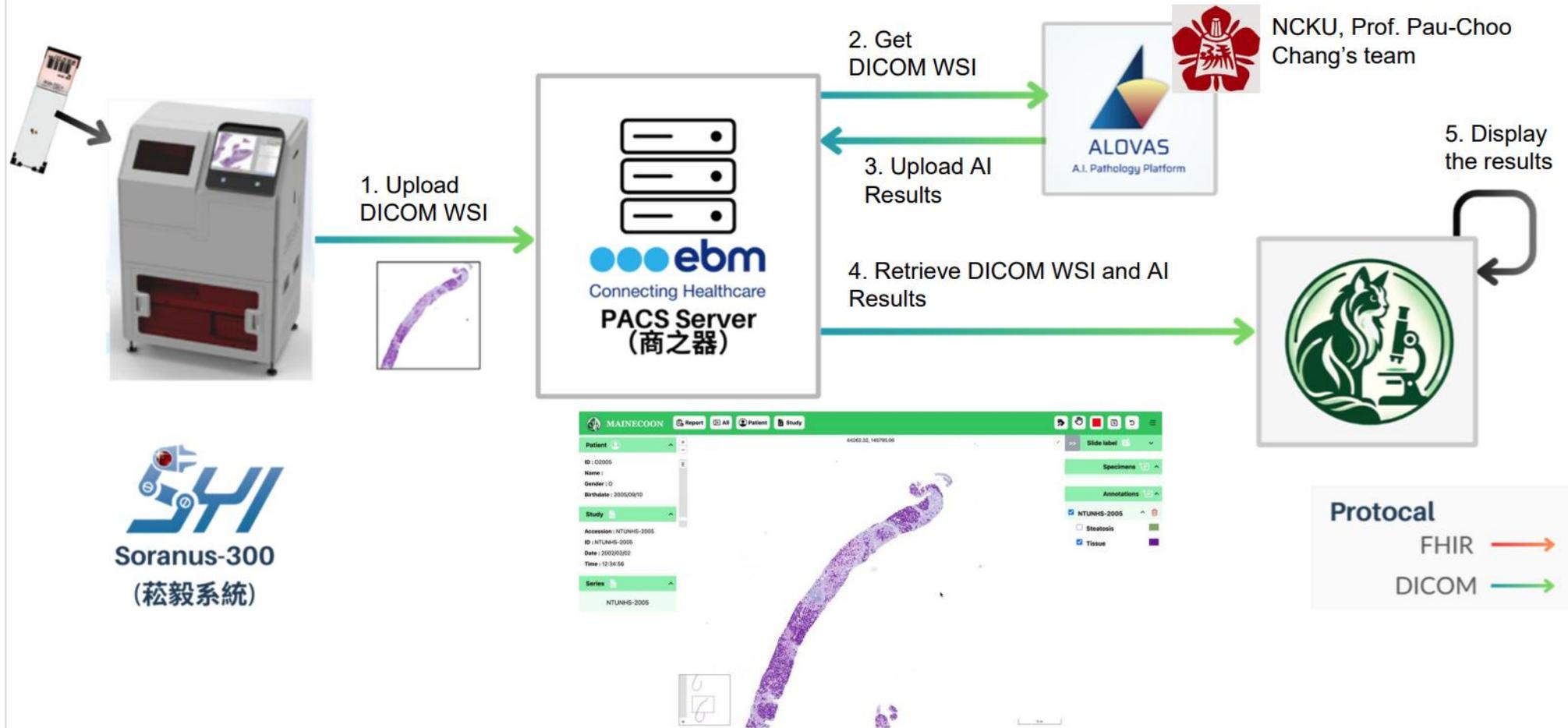


IUA

## Integration of AI Models with Medical Images



## Integration of AI Model and PACS in Digital Pathology



# テストスケジュール

Oct. 19 (Sun)		Oct. 20 (Mon)		Oct. 21 (Tue)		Oct. 22 (Wed)		Oct. 23 (Thu)		Oct. 24 (Fri)	
AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
	CAT Pre Setting	IHE Japan Connectathon									
		Plugathon #1: IPS			Plugathon #2 : Secure Infra						
		Edu	Test	Sum	Edu	Test	Sum				
		Plugathon #3: RESTful Imaging			Plugathon #4: Digital PaLM						
		Edu	Test	Sum	Edu	Test	Sum				
	EHDS & EEHRxF WS				CAT Seminar & Tour						

注意 1 : 参加希望が一定数を満たないトラックは開催を取りやめる場合があります。

注意 2 : 言語は英語が中心になります。

多数のご参加をお待ちしております！

# EHDS & EEHRxF ワークショップのご案内

Session 4

Looking forwards:  
towards an EHDS enabling infrastructure



**Henrique Martins**  
Instituto Universitario  
De Lisboa  
Portugal



**János Vincze**  
IHE Europe  
Hungary



**Norman Sabbah**  
Telemedicine Technologies  
France



**Nienke Schutte**  
Sciensano  
Belgium

2024 Thought Leader  
EHTEL Symposium

彼が説明します。





What is shared?

## • EHDS data priority categories (aka use-cases)

- Patient summaries
- Electronic prescriptions
- Electronic dispensations

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- Medical imaging: studies and reports
- Medical test results: laboratory, other diagnostics, related reports
- Discharge reports

Currently CDA

Will be  
migrated  
to FHIR

Implementation  
Guides in FHIR

RESTful  
WADO  
for images

Not formally FULLY defined yet,  
but work in progress\_eHN  
Guidelines exist – but not full  
specs

□ The European electronic health record exchange format (EEHRxF)



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ご清聴ありがとうございました。

ぜひ、検証してみたい領域があれば、お知らせください。