

IHE[®] | EXPERIENCE
EUROPE DAYS

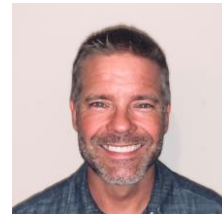
VIENNA 2025
24-25 JUNE 🇦🇹



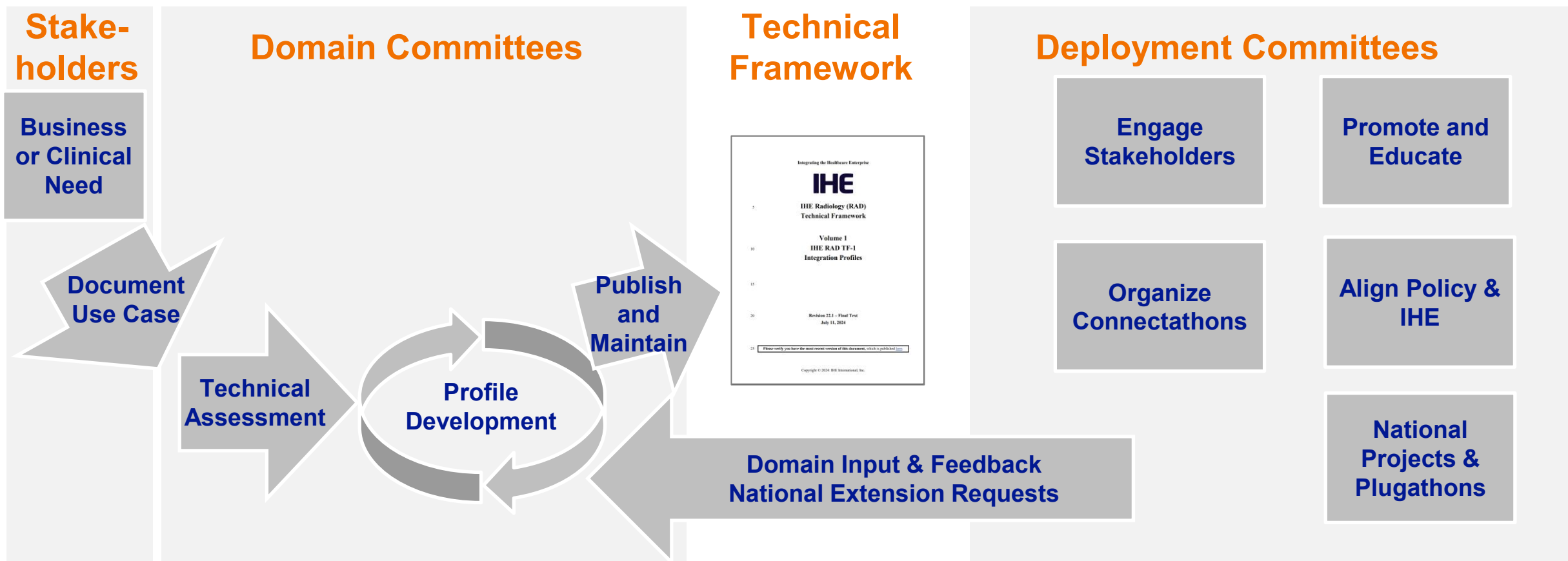
IHE FHIR[®] Based Profile Development to Support EHDS



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What is a “FHIR-based” IHE Profile?

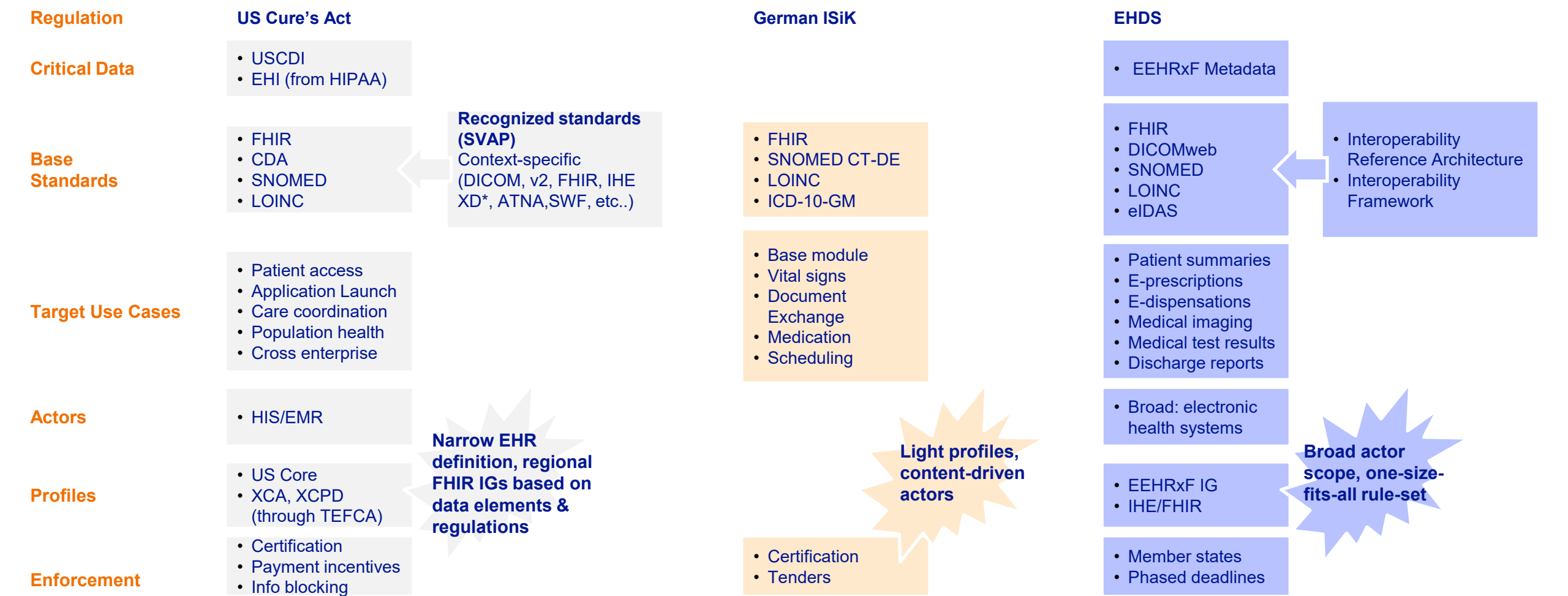
- **IHE Domain profiles HL7 FHIR Resources** using IHE’s consensus methodology
- **Constrains FHIR Resources** as Content Definitions (Vol 3)
- **Sequences FHIR-based transactions** (Vol 1 & Vol 2) for predictable, vendor-neutral exchange
- **Blends in other Standards, Coding Systems, etc** as needed for the Real-World Business Case
- **Published as HL7 FHIR Implementation Guide** formatted with IHE Profile template and TF concepts
- **Test-ready from day one:** IG-driven test plans used at IHE Connectathons, reduces vendor variation
- **Close collaboration (Gemini) with HL7:** JIRA tickets for base Resource changes, CPs for Profile changes
- **Free, global, EHDS-ready:** Global IHE profiles w/National Extensions (Vol 4), many align w/EHDS goals

EHDS / Annex I requirement	IHE Profiles Using FHIR	Status	IHE Domain
Patient summaries	International Patient Summary (IPS)	TI	PCC
	Sharing of IPS (sIPS)	TI	ITI
Electronic prescriptions	Medication Prescription & Dispense (MPD)	PC	PHARM
Electronic dispensations	Medication Prescription & Dispense (MPD)	PC	PHARM
Medical imaging studies and related imaging reports	Web-based Image Access (WIA)	FT	RAD
	Interactive Multimedia Report (IMR)	TI	RAD
	Integrated Reporting Applications (IRA)	TI	RAD
	Imaging Diagnostic Report (IDR)	(TI)	RAD
	Cross-Community Web-Based Access to DICOM Objects (XC-WADO)	(TI)	RAD
Medical test results, including laboratory and other diagnostic results and related reports	Query for Existing Data – mobile (QEDm)	TI	PCC
	Mobile Access to Health Documents (MHD)	TI	ITI
Discharge reports	International Patient Summary (IPS)	TI	PCC
	Sharing of IPS (sIPS)	TI	ITI

EHDS / Annex II requirement	IHE Profile	Status	IHE Domain
API to provide EEHRxF bundles	Mobile Health Document Sharing (MHDS)	TI	ITI
	Mobile Access to Health Documents (MHD)	TI	ITI
API to receive EEHRxF bundles	Mobile Health Document Sharing (MHDS)	TI	ITI
	Mobile Access to Health Documents (MHD)	TI	ITI
Fine-grained/structured resource access	QEDm (Observation, Medication, etc...)	TI	PCC
Identity & authentication of professionals	Internet User Authentication (IUA)	TI	ITI
Cross-enterprise patient identity	Patient Master Identity Registry (PMIR)	TI	ITI
Secure node authentication & encrypted transport, plus FHIR AuditEvent feed/search	Audit Trail & Node Authentication (ATNA)	FT	ITI
	RESTful ATNA supplement	TI	ITI
Comprehensive access logging	Basic Audit Log Pattern (BALP)	TI	ITI
Log review / retention	ATNA	FT	ITI
Consent / privacy rules	Advanced Patient Privacy Consents (APPC)	TI	ITI
	Basic Patient Privacy Consents (BPPC)	FT	ITI
Role / purpose assertion	Cross-enterprise User Assertion (XUA)	FT	ITI

Data Regulations:

Exchange, Interoperability, Patient Empowerment, Secondary Use



Lessons (Learned from IHE RAD POCUS EBIW Extensions):

- Use Case Consensus >1 year
- IHE Profile: 9 months
- Implementable profile: **YES!**



(c/o Rob Ferre, MD)

Development Cycle:

- IHE ITI (continuous): ~2 years
- DICOM (continuous): ~1.7 years
- Initial US Core (annual): ~1 year
- IHE RAD (annual): ~9 months

IHE National Extension Development Cycle:

- Japan Radiology: ~1 year
- US DS4P: ~1 year
- France PAM ~1 year

