EUROPE EXPERIENCE JUNE 2024

Pannel on Multi-Country Working Group (MCWG) for Image Information Sharing An IHE-Europe Taskforce

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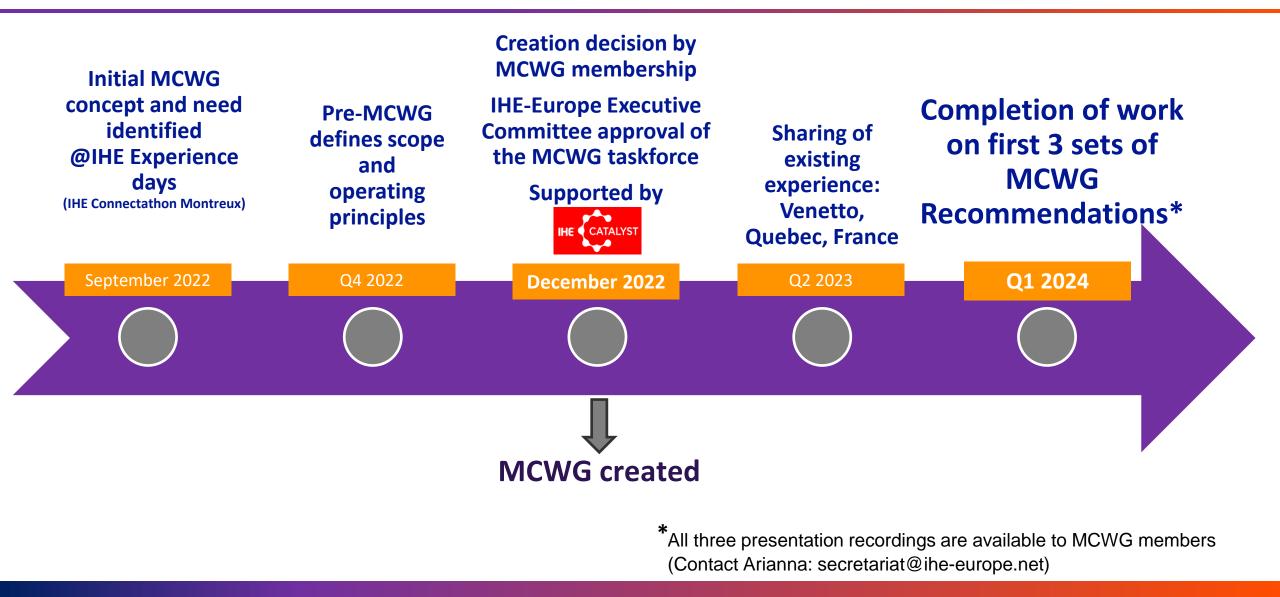
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17/06/2024

IHE-Europe EXPERIENCE DAYS 2024

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2024-06-03

Integrating the Healthcare



MCWG Scope and objectives

Scope: Deployment of interoperability for Imaging Exchange	 National or regional level Complementary to Cross-Border imaging exchange focus of EU Commission (eHN, JA9).
Goal: Deliver design analysis for specific extensions	 Extensions are needed to effectively deploy IHE Profiles, DICOM, FHIR and other standards within countries' ehealth services. Complementary to eHDSI for Cross-Border.
Benefits: Pool expertise and resources	 Direct engagement with active national deployments Perform analysis of specific issues Seek increased consistency between such deployments.
Deliverables: Analysis results as MCWG recommendations.	 Mature and complete with multi-country consensus Offered for adoption and easily included into national interoperability frameworks.

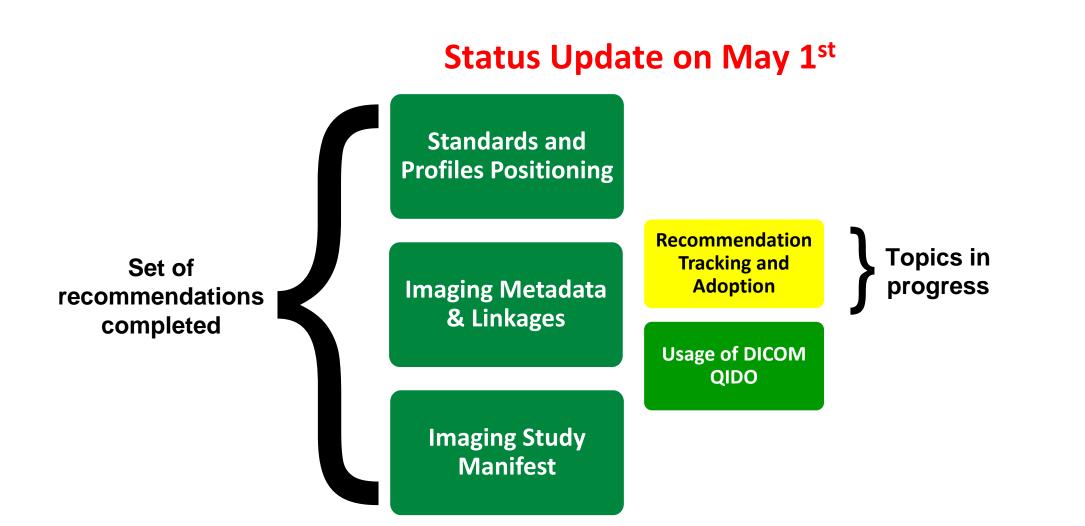


MCWG plenary meetings every two weeks, 1-hour T-con	 All members engage in MCWG governance (within rules of an IHE-Europe Task Force) All members prioritize topics for recommendations. Each topic is addressed by a dedicated Focus Group including 3-4 Members or designees, committed to deliver recommendations on the topic in less than two months All members review and comment on draft recommendations and approve final recommendations
Currently includes representatives from 10 countries	 Austria, Belgium, Canada, Czechia, Denmark, Finland, France, Netherlands, Norway and Spain MCWG is working on expanding that list. Other countries European and non-European are welcome
MCWG produced 3 sets of recommendations in four months	 Each set of recommendations correponds a topic produced by a dedicated Focus Group. Recommendations sufficiently mature, complete (multi country consensus) and stable to be offered for adoption into national interoperability frameworks. The recommendations are initially delivered in a PowerPoint Slide Format. Publicly available documents. MCWG members to ensure rapid feedback as they apply.

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1. Standards and Profiles Positioning

Topic description and scope

Scope



Use Case aligned with the *eHN Guidelines on Medical imaging studies and reports* :

- search and select imaging studies of interest
- access to images
 - links in report to server-side image viewer
 - to native DICOM images by a requester-side image viewer/processor.

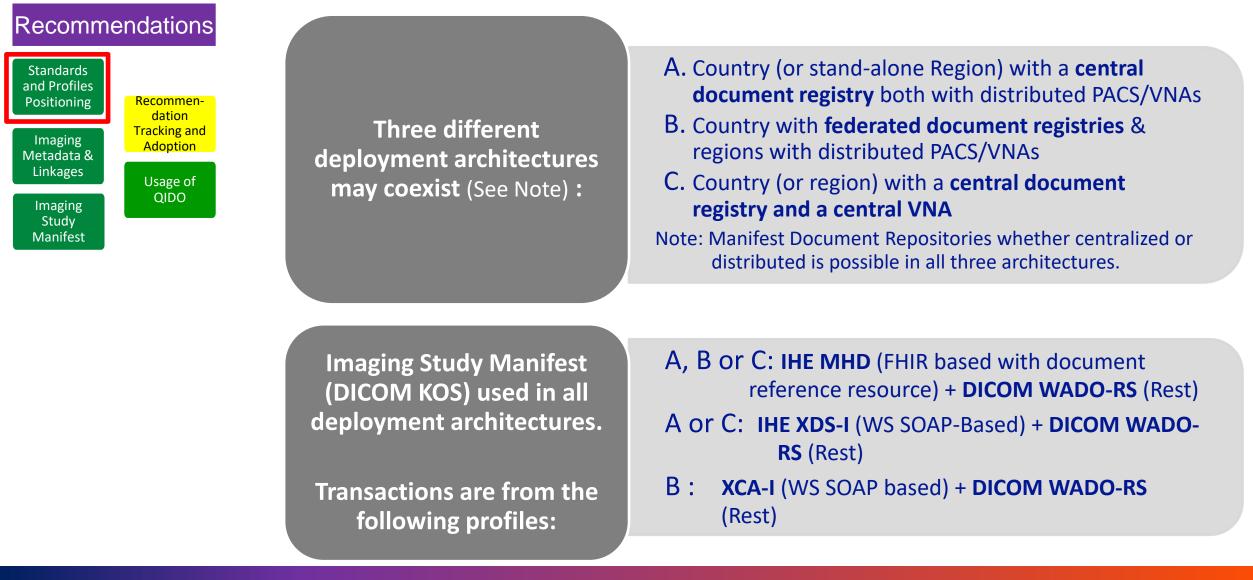
Choice of profiles and standards

- Position the role of HL7 FHIR in the sharing of imaging information architectures
- Select profiles and standards for the use case (FHIR/MHD, IHE/XDS-I, IHE/XCA-I, DICOM WADO-RS)



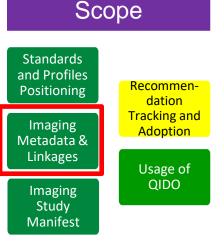
1. Standards and Profiles Positioning

Recommendation Highlights





2. Imaging Metadata & Linkages Topic description and scope



Ensuring effective sharing with linkages • For clinician as well as for imaging production

- Both for imaging reports and imaging studies.
- Linkages with clinical orders and imaging procedure requests

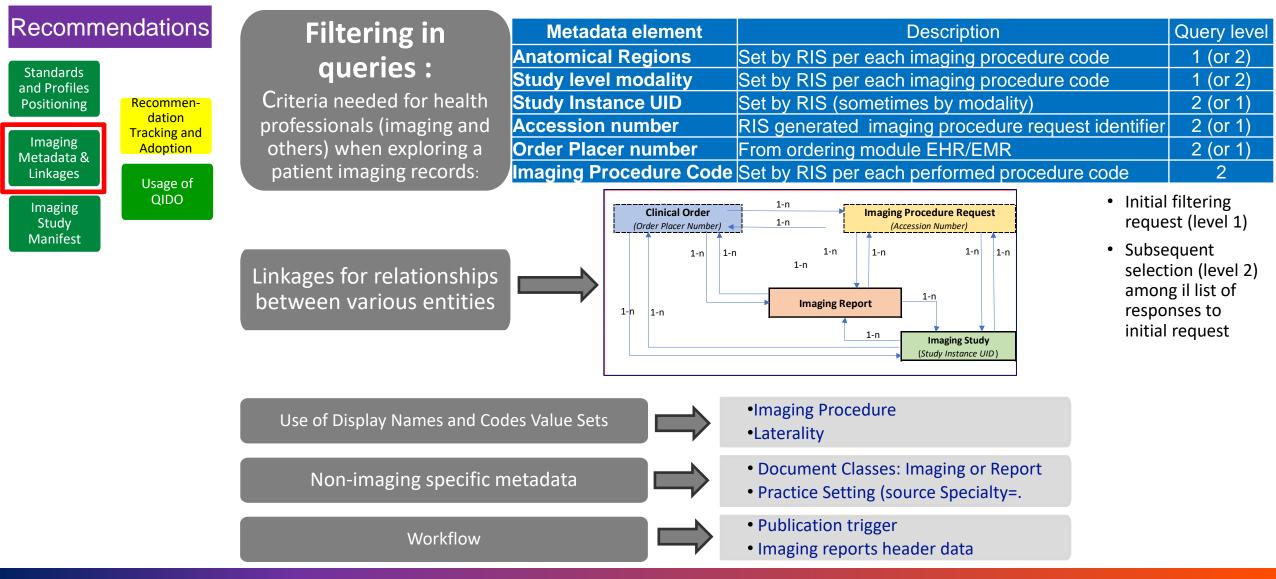
Defining a robust imaging metadata strategy

- For filtering access in queries (key filtering elements) for imaging studies.
- For selecting among filtered imaging studies returned



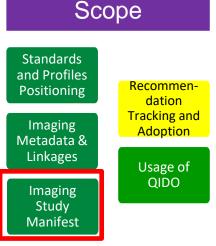
2. Imaging Metadata & Linkages

Recommendation Highlights





3. Imaging Study Manifest Topic description and scope



Definition of <u>Imaging</u> <u>Study Manifest</u>

- Based on <u>eHN Guidelines on Medical imaging studies</u> <u>and reports</u>
- Consistent with DICOM and IHE XDS-I

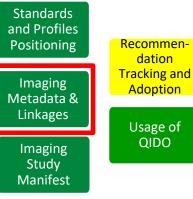
Analysis of the detailed content of the imaging manifest (KOS)

- National and local patient IDs,
- Accession numbers,
- Additional content in study/series/instance descriptions for technical or clinical efficiency.



3. Imaging Study Manifest Recommendation Highlights

Recommendations



• DICOM KOS vs FHIR Document bundle (incl. Imaging Studies Resource). Choice of standard: <u>DICOM KOS</u>

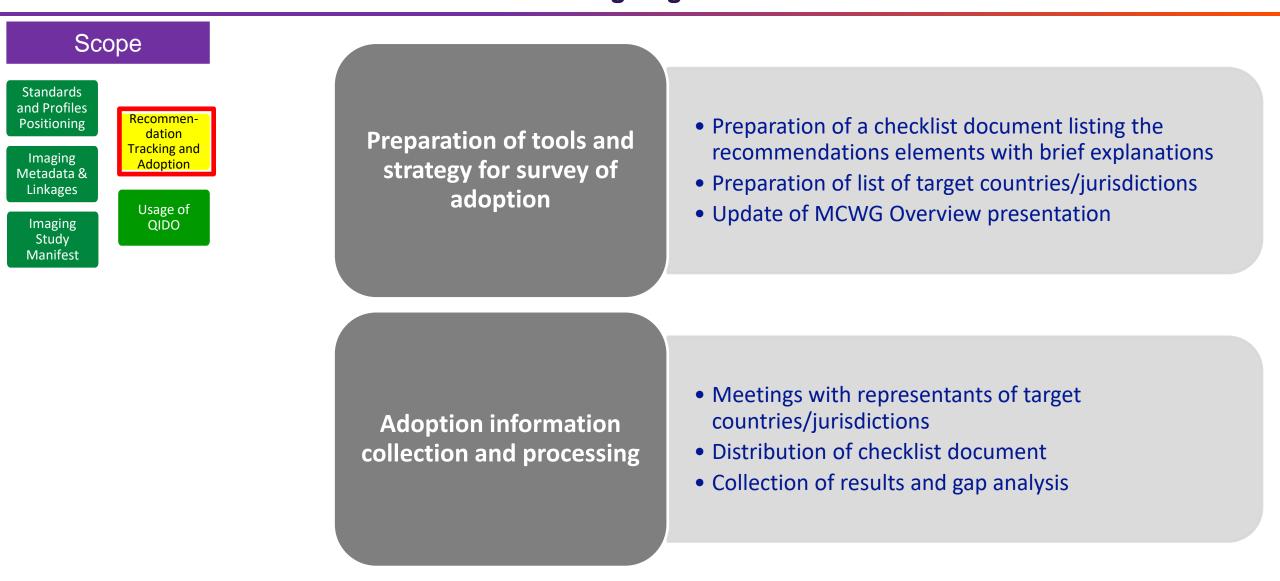
DICOM KOS is a better use case match

- Neutral: Content match 90+% covered Both are missing only a few standard attributes:
- Imaging SW Alignment for consumption with 80% created from Imaging Data
- Much wider Adoption 84 vendors passed Connectathon testing of KOS Manifests (XDS-I). Over 100 sharing environments (Hospital, Regional, national) deployed in Europe
- Transaction to support sharing of manifests and workflows variants

- Key requirements on SOP Classes retrieved by WADO-RS
- Detailed recommendations for manifest content (what needs to be added, why and how)
 - Patient Identification,
 - Study Information,
 - Workflow/identifiers,
 - Series and Instance Information
- \circ Retrieval
 - Locating the Referenced Studies, Series and Instances.
 - Management of retrieve URL and location OIDs
- Selection of Significant Images (IHE KIN)

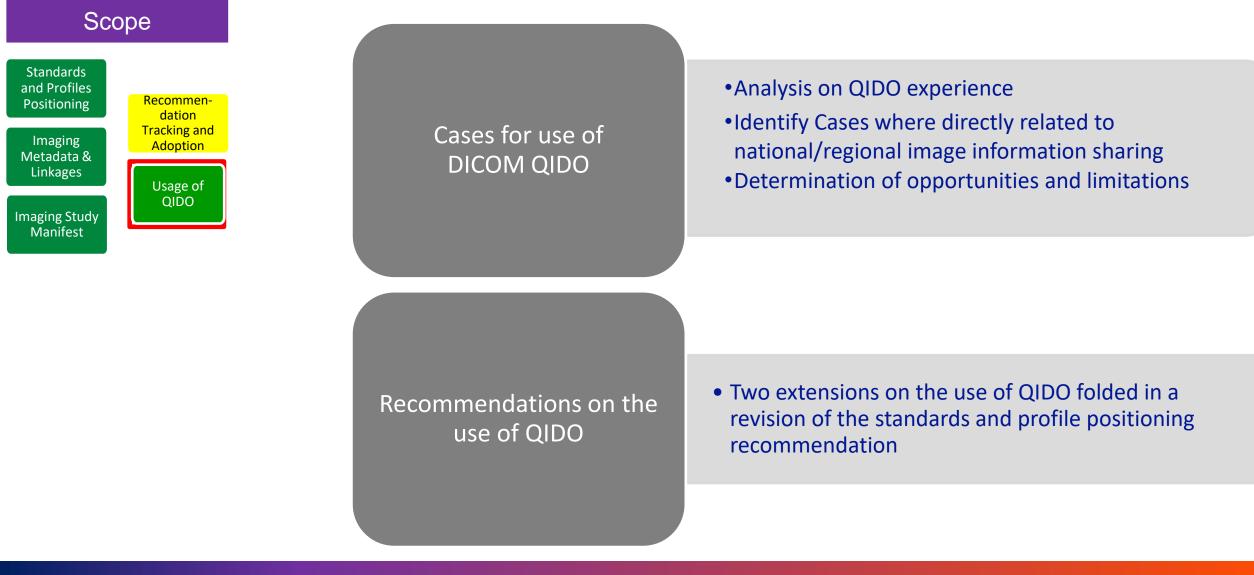


Tracking and Adoption of Recommendations On-going work



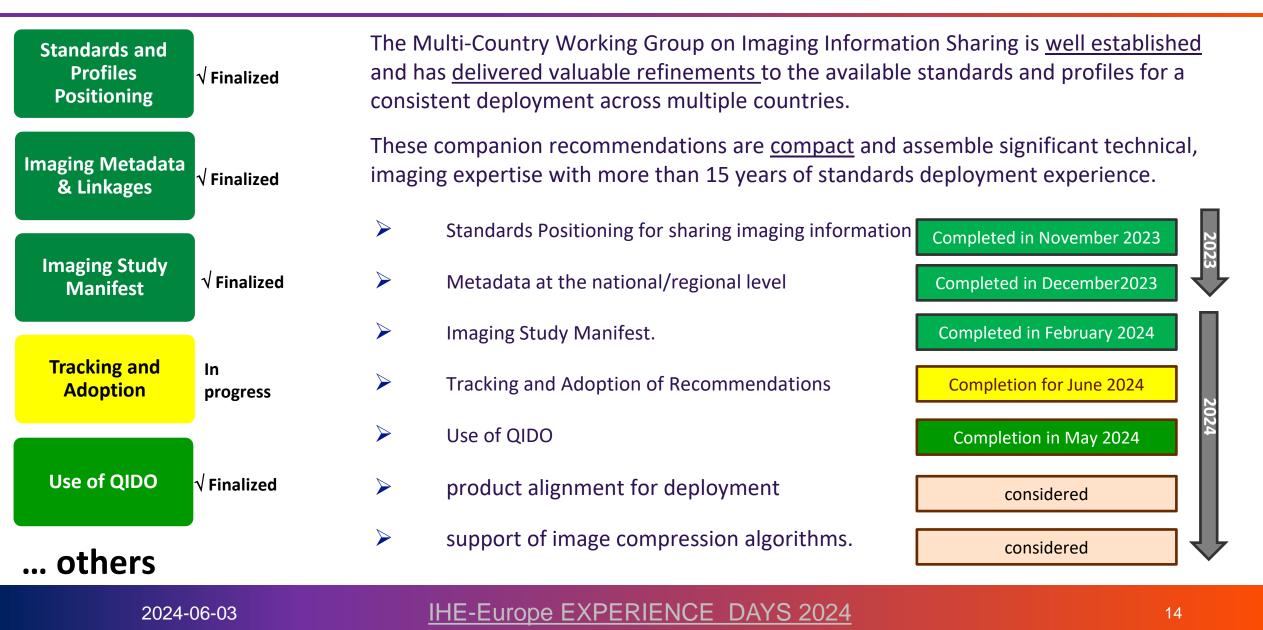


Usage of QIDO On-going work





NEXT STEPS AND TIMELINE







IHE MCWG welcomes additional countries and looks forward to further collaborations with eHN groups and projects

Questions, Comments and Suggestions are welcome and should be sent to the IHE-Europe Secretariat: <u>secretariat@IHE-Europe.net</u>

Interested countries and other organizations are welcome to attend the MCWG workshop: June 6, 2024 10:30am – 1:00pm at the IHE-Europe Connectathon For invitation contact: <u>secretariat@IHE-Europe.net</u>

