- Please keep your microphone **muted**
- **Questions during the session?** Please use the chat box. We will address the questions in the second part of the webinar
- Note that this webinar will be **recorded** and made available on our IHE-Europe YouTube channel
- Slides will be **sent to you by email** early next week

Join us for the November webinar

AI in Radiology & takeaways from Trieste Plugathon and AI Interest Group for Imaging

Marc Kammerer

Friday 8 November
1PM CEST

Kevin O’Donnell

- Senior R&D Manager, Canon Medical Research USA, focused on standards and interoperability in medical imaging (IHE, DICOM, HL7)
- Fellow of the College of SIIM, Member, SIIM Board of Directors.
- Member, IHE Radiology Technical and Planning committees, IHE International Board.
- Chair, DICOM WG-10 (Strategy), Member, DICOM Board, WG-01/12, 02/28, 06, 14, 20, 21, 27
- Member, AdvaMed Medical Imaging Informatics Section, AI Working Group.

Steven Nichols

- Leads GE HealthCare engagement in the IHE, DICOM and HL7 standards development organizations.
- Chair of the Medical AdvaMed Medical Imaging and Informatics Section and member of the COCIR, COCIR Security and Interoperability Workgroup.
- Member of the IHE Radiology and ITI Technical and Planning committees, IHE Europe, and the IHE Europe SHARAZONE Task Force.
- Member of the AAMI Interoperability Workgroup.
- Member of DICOM workgroups: WG-01/12, 02/28, 06 14, 16, 20, 21, 27, 31
- Registered radiologic Technologist: ARRT RT(R)(CT)

IHE® EUROPE | WEBINARS

IHE Domains: how are profiles developed how can you participate?

Focus on IHE Radiology and ITI Domain

IHE Europe Webinar Series
11-Oct-2024

Kevin O'Donnell
Steven Nichols

IHE = Integrating the Healthcare Enterprise
IHE = Tailoring & Testing Standards

Tailoring = writing implementation guides
for how to solve specific integration problems
using existing standards

} **"Profiles"**

Testing = coordinating formal test events
for many implementers
to confirm conformance (to the Profiles)

} **"Connect-athons"**

IHE International

IHE Domains
- Radiology,
- Pathology and Lab,
- IT Infrastructure,
- …

IHE Regions
- France,
- Netherlands,
- Europe,
- …

Develop Profiles

Conduct Connectathons

(… and do other things)

IHE Domain (e.g. IHE Radiology)

Solicit & Select Profile Proposals

Create Profiles

Promote Profiles

IHE Profiling Process Phases

Drafting / Brainstorming:

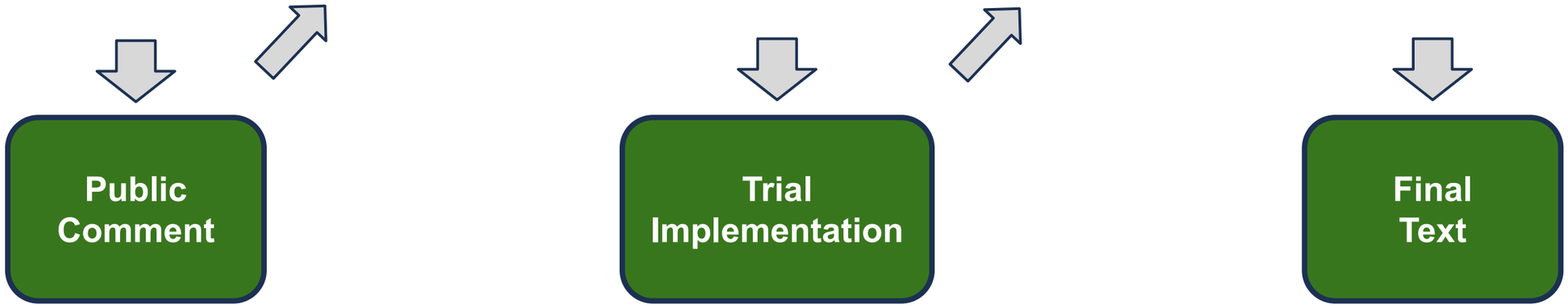
- Document Use Cases
- Identify Transactions, Actors, & Content
- Select Standards
- Write normative text to apply & constrain standards
- Highlight Open Issues

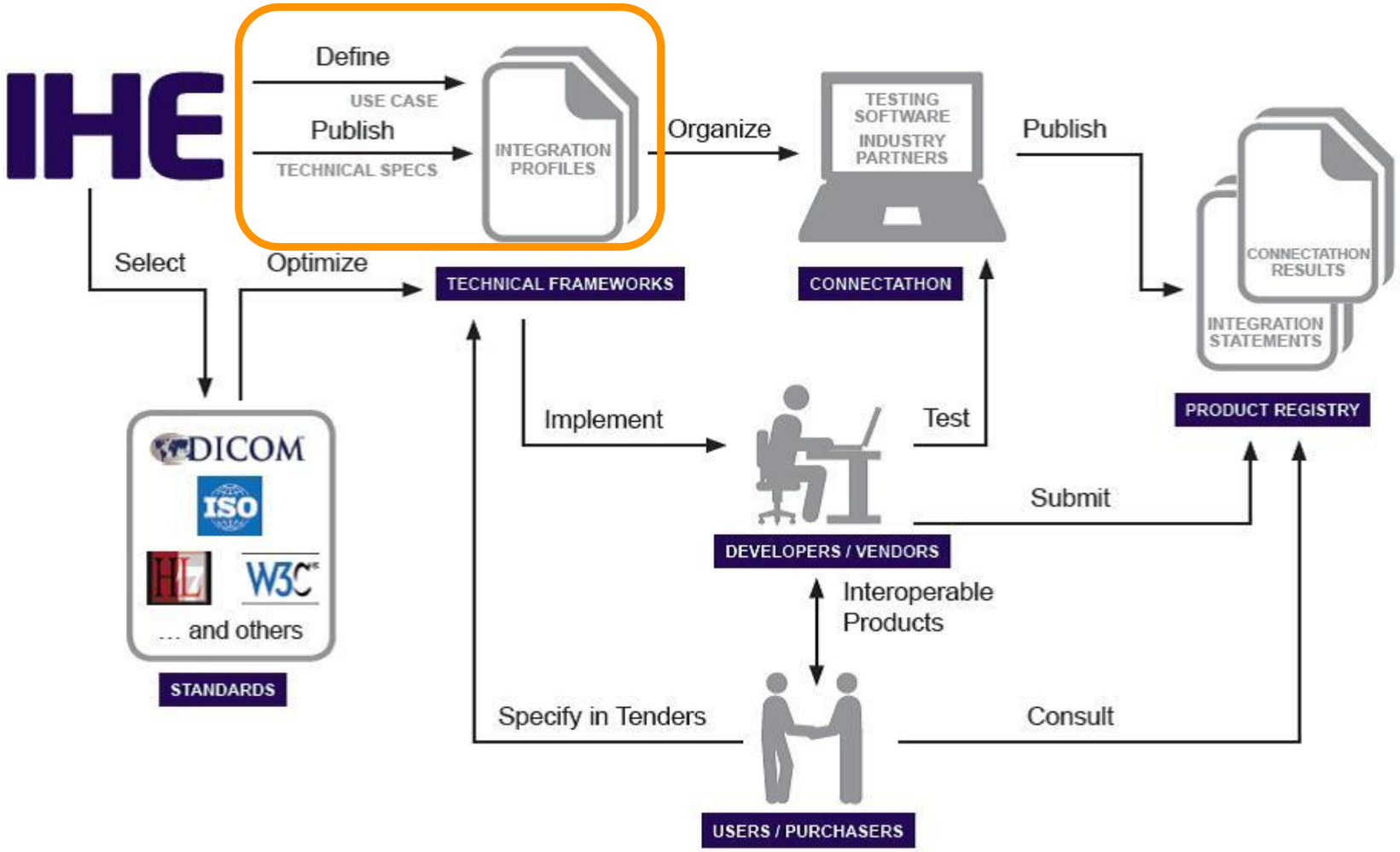
Comment Resolution:

- Review & Resolve Comments
- Revise profile text
- Close Open Issues

Testing (the Spec):

- Recruit implementers
- Review Connectathon feedback
- Confirm implement ability
- Confirm clarity of text (ideally multiple implementations of each actor)
- Revise Profile if needed




IHE
Define
USE CASE
Publish
TECHNICAL SPECS
INTEGRATION PROFILES
Organize
TESTING SOFTWARE
INDUSTRY PARTNERS
Publish
CONNECTATHON RESULTS
INTEGRATION STATEMENTS
PRODUCT REGISTRY
Select
Optimize
TECHNICAL FRAMEWORKS
CONNECTATHON
DICOM
ISO
HL7
W3C
... and others
STANDARDS
Implement
Test
Submit
DEVELOPERS / VENDORS
Interoperable Products
Specify in Tenders
Consult
USERS / PURCHASERS

IHE Radiology Wiki Tour: Kevin O’Donnell

Annual Cycle

Radiology (RAD), Devices (DEV), Pathology and Laboratory Medicine (PaLM), Radiation Oncology (RO)

- Single annual intake and selection of new work items.
- Plan Cmte ranks proposal priorities; Tech Cmte works only on top 2-3 to focus & finish quickly
- Proposals must be scoped down to something useful and completable in one cycle.
- Fixed schedule for brainstorming, public comment and trial implementation.
- TI publication target: 8-months after selection of proposal.
- Unselected proposals can be resubmitted next cycle.
- “Phase 2” proposals can be submitted to work on “scoped out” parts of past large proposals.
- Monthly CP (change proposal) meetings.
- Exceptions needed when synchronizing with HL7 cycles (e.g., Gemini)

IHE IT Infrastructure Wiki Tour: Steve Nichols

Continuous Development Process

https://wiki.ihe.net/index.php/Continuous_Development_Process

Quality, Research, and Public Health (QRPH), Patient Care Coordination (PCC), IT Infrastructure (ITI)

- New work items can start at four points throughout the year.
- More flexibility for project timing and resource availability.
- Faster turnaround for smaller projects and ability to handle larger ones.
- Work items move through phases independently.
- Quarterly face-to-face meetings for planning, technical review, and public comment.
- Supplements published as ready, not tied to an annual release.
- Monthly Planning Committee meetings to assess work items.
- Monthly CP (change proposal) meetings.
- Flexibility to synchronizing with HL7 cycles (e.g., Gemini)
- Longer time to Trial Implementation (2-2.5 years from assessment to TI)

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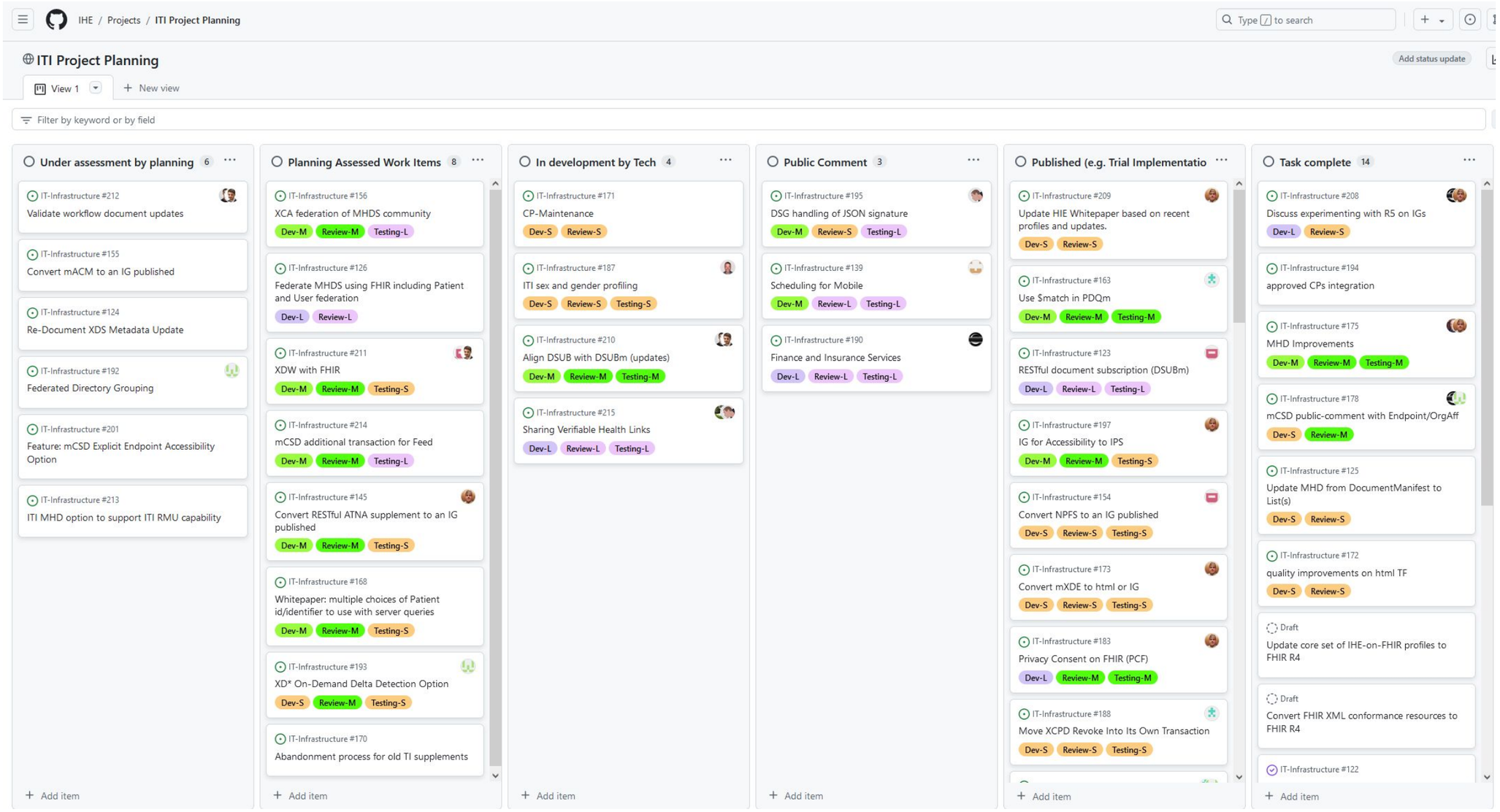
ITI Cycle


IHE / Projects / ITI Project Planning
Type / to search
ITI Project Planning
Add status update
View 1
New view
Filter by keyword or by field
Under assessment by planning 6
IT-Infrastructure #212
Validate workflow document updates
IT-Infrastructure #155
Convert mACM to an IG published
IT-Infrastructure #124
Re-Document XDS Metadata Update
IT-Infrastructure #192
Federated Directory Grouping
IT-Infrastructure #201
Feature: mCSD Explicit Endpoint Accessibility Option
IT-Infrastructure #213
ITI MHD option to support ITI RMU capability
Add item
Planning Assessed Work Items 8
IT-Infrastructure #156
XCA federation of MHDS community
Dev-M Review-M Testing-L
IT-Infrastructure #126
Federate MHDS using FHIR including Patient and User federation
Dev-L Review-L
IT-Infrastructure #211
XDW with FHIR
Dev-M Review-M Testing-S
IT-Infrastructure #214
mCSD additional transaction for Feed
Dev-M Review-M Testing-L
IT-Infrastructure #145
Convert RESTful ATNA supplement to an IG published
Dev-M Review-M Testing-S
IT-Infrastructure #168
Whitepaper: multiple choices of Patient id/identifier to use with server queries
Dev-M Review-M Testing-S
IT-Infrastructure #193
XD* On-Demand Delta Detection Option
Dev-S Review-M Testing-S
IT-Infrastructure #170
Abandonment process for old TI supplements
Add item
In development by Tech 4
IT-Infrastructure #171
CP-Maintenance
Dev-S Review-S
IT-Infrastructure #187
ITI sex and gender profiling
Dev-S Review-S Testing-S
IT-Infrastructure #210
Align DSUB with DSUBm (updates)
Dev-M Review-M Testing-M
IT-Infrastructure #215
Sharing Verifiable Health Links
Dev-L Review-L Testing-L
Add item
Public Comment 3
IT-Infrastructure #195
DSG handling of JSON signature
Dev-M Review-S Testing-L
IT-Infrastructure #139
Scheduling for Mobile
Dev-M Review-L Testing-L
IT-Infrastructure #190
Finance and Insurance Services
Dev-L Review-L Testing-L
Add item
Published (e.g. Trial Implementatio
IT-Infrastructure #209
Update HIE Whitepaper based on recent profiles and updates.
Dev-S Review-S
IT-Infrastructure #163
Use $match in PDQm
Dev-M Review-M Testing-M
IT-Infrastructure #123
RESTful document subscription (DSUBm)
Dev-L Review-L Testing-L
IT-Infrastructure #197
IG for Accessibility to IPS
Dev-M Review-M Testing-S
IT-Infrastructure #154
Convert NPFS to an IG published
Dev-S Review-S Testing-S
IT-Infrastructure #173
Convert mXDE to html or IG
Dev-S Review-S Testing-S
IT-Infrastructure #183
Privacy Consent on FHIR (PCF)
Dev-L Review-M Testing-M
IT-Infrastructure #188
Move XCPD Revoke Into Its Own Transaction
Dev-S Review-S Testing-S
Add item
Task complete 14
IT-Infrastructure #208
Discuss experimenting with R5 on IGs
Dev-L Review-S
IT-Infrastructure #194
approved CPs integration
IT-Infrastructure #175
MHD Improvements
Dev-M Review-M Testing-M
IT-Infrastructure #178
mCSD public-comment with Endpoint/OrgAff
Dev-S Review-M
IT-Infrastructure #125
Update MHD from DocumentManifest to List(s)
Dev-S Review-S
IT-Infrastructure #172
quality improvements on html TF
Dev-S Review-S
Draft
Update core set of IHE-on-FHIR profiles to FHIR R4
Draft
Convert FHIR XML conformance resources to FHIR R4
IT-Infrastructure #122
Add item

Profiles in Development

In Development

- Sharing Verifiable Health Links
- Align DSUB with DSUBm

In Public Comment

- DSG handling of JSON signature
- Scheduling for Mobile
- Finance and Insurance Services

Participating

- **Implement Profiles:** Implement IHE profiles to ensure conformance and interoperability with industry standards.
  - Click on Domain
  - Click on TI Profiles and/or Technical Framework Volumes to view
- **Join IHE:** Your organization can assign someone to any domain committee to attend meetings and contribute either virtually or in person.
- **Participate in Public Comment Periods**: Actively engage by submitting comments during the public review of draft profiles and technical frameworks.
  - Click on Domain Scroll to “Public Comment”
  - Click on draft Profiles to view (note when comments close)
  - Click on “here” to submit comments
- **Submit Change Proposals (CPs)**: Provide CPs to improve existing profiles or address gaps that affect your implementation. Use the IHE Change Proposal process for structured feedback.
- **Participate in Underlying Standards:** Participate in the development of DICOM or HL7.

Participating

- **Join Mailing Lists:** Subscribe to relevant IHE domain mailing lists to receive updates on profile progress, meeting announcements, and change proposals.
  - ITI Technical Google Group
  - ITI Planning Google Group
  - MHD Implementers Google Group
  - IHE XDS Implementors Google Group
  - IHE Radiology Planning Committee
  - IHE Radiology Technical Committee
- **Join Domain Planning Calls:** Attend the IHE domain-specific Planning Committee calls to stay informed on new profile proposals and ongoing developments.
  - ITI Current Meetings
  - Radiology Current Meetings
- **Monitor Profiles in Development:** Regularly review the IHE Technical Frameworks for updates on profiles currently in development and identify areas of interest.

Contact us and follow us

Contact us:

secretariat@ihe-europe.net

https://www.linkedin.com/company/ihe-europe/

https://twitter.com/IHE_Europe

Karlien Erauw
karlien.erauw@agoria.be

Sofia Franconi
sofia.franconi@ihe-europe.net

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Marc Kämmerer

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