Radiology QI ICT System Overview

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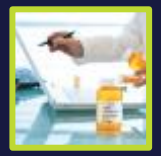
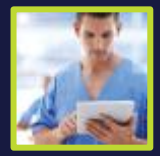
16-Jun-2015

Delivering eHealth Ireland

Seirbhís Sláinte Health Service Executive

Office of the Chief Information Officer

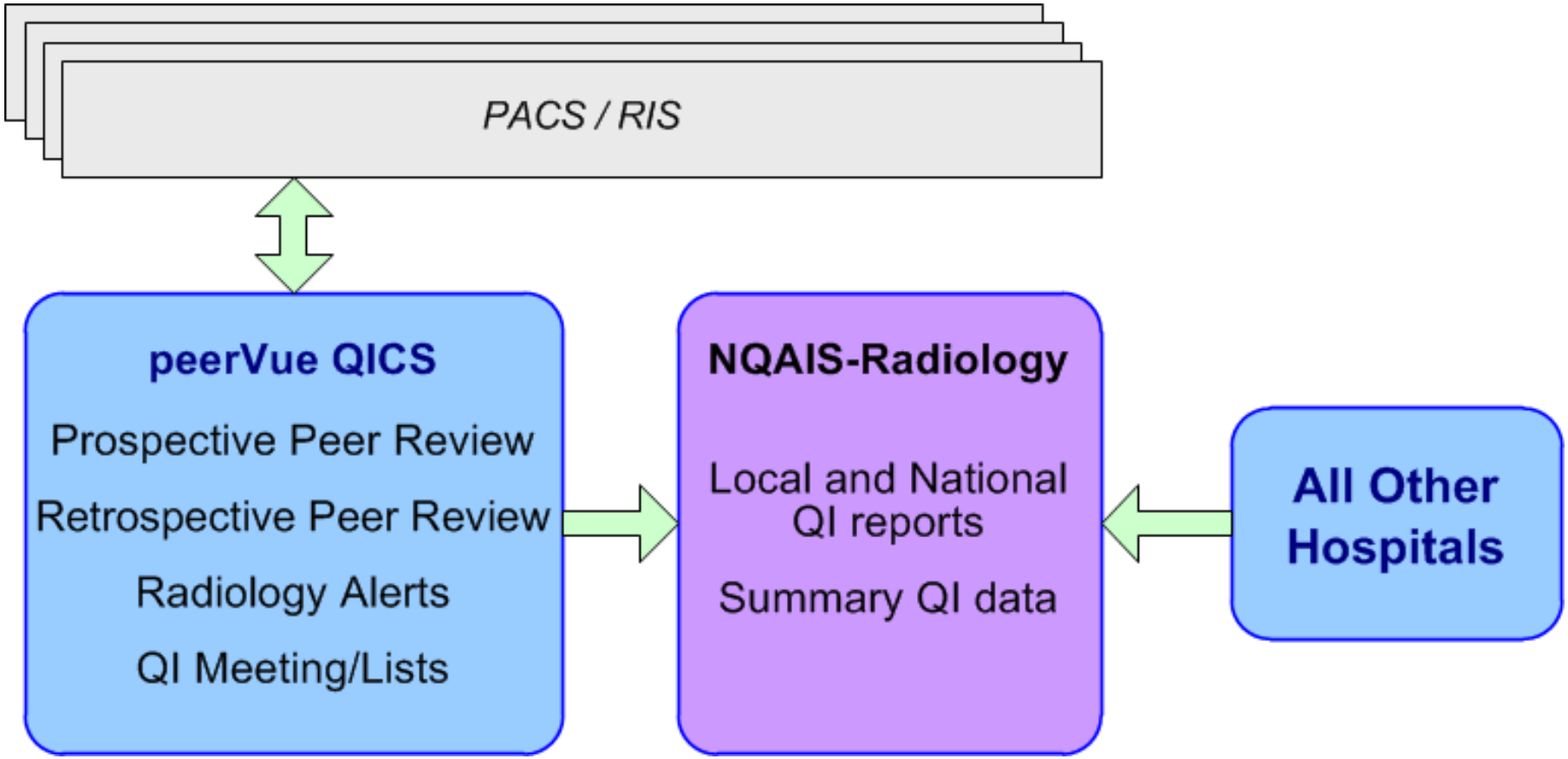




Timeline

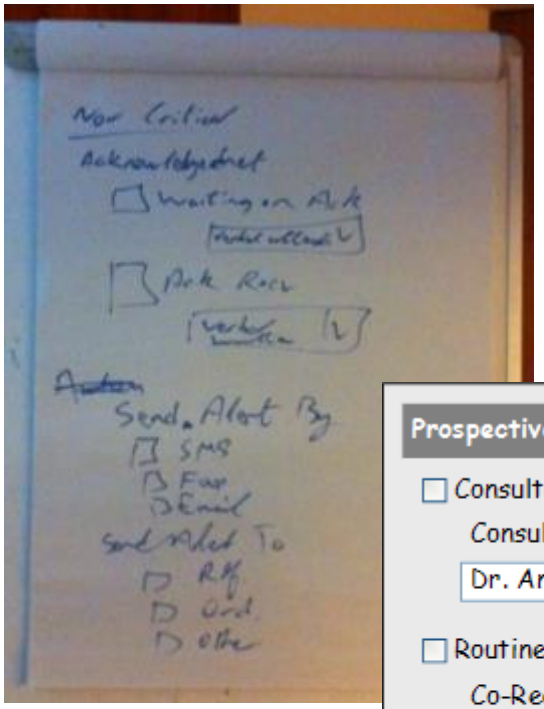
- 2010
  - Faculty of Radiologists established the *National Quality Improvement Programme in Radiology*
- 2011
  - Requirements specification
- 2012
  - Public procurement (EU tender)
- Sep 2013
  - Contract awarded for McKesson/peerVue
- Jun 2014
  - First site live – University Hospital Waterford
- Jun 2015
  - 30 sites live

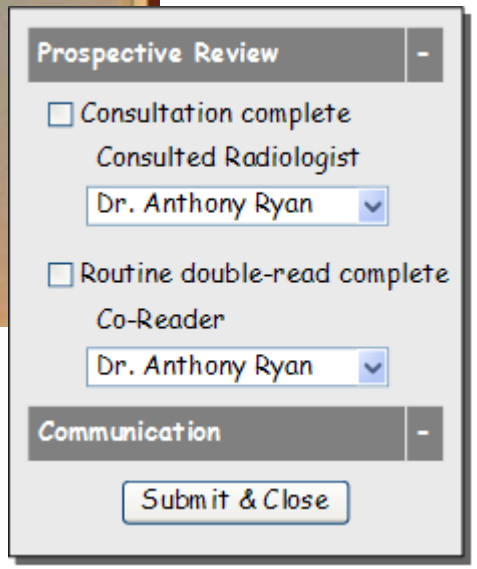
Radiology QI ICT Solution



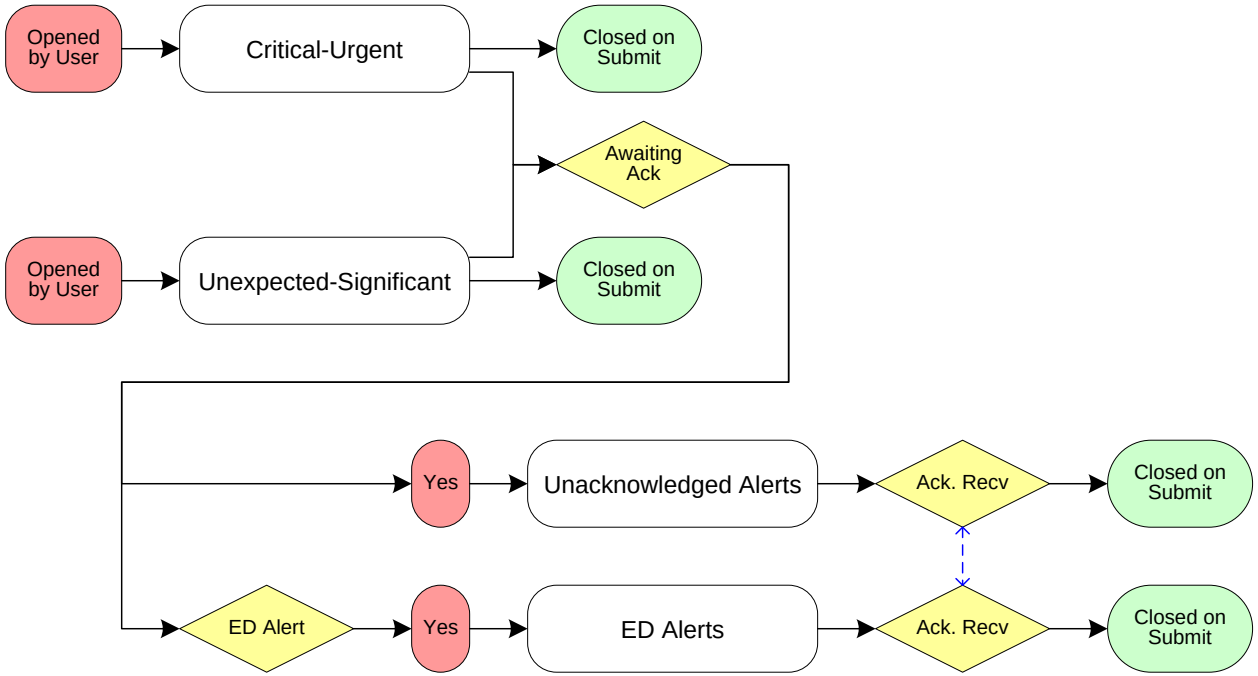
QI Workflows

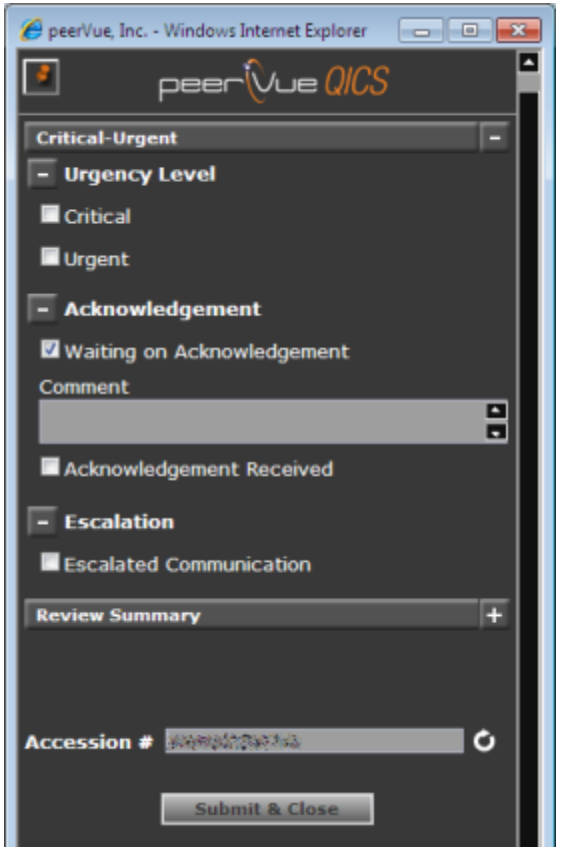
- QI Guidelines / Reqs Spec / Tender
- QI Workflows
  - Process descriptions
  - Mock-ups
  - peerVue QA panels
- Workshops
  - Project team
  - Radiology QI Working Group
  - Regional (4)

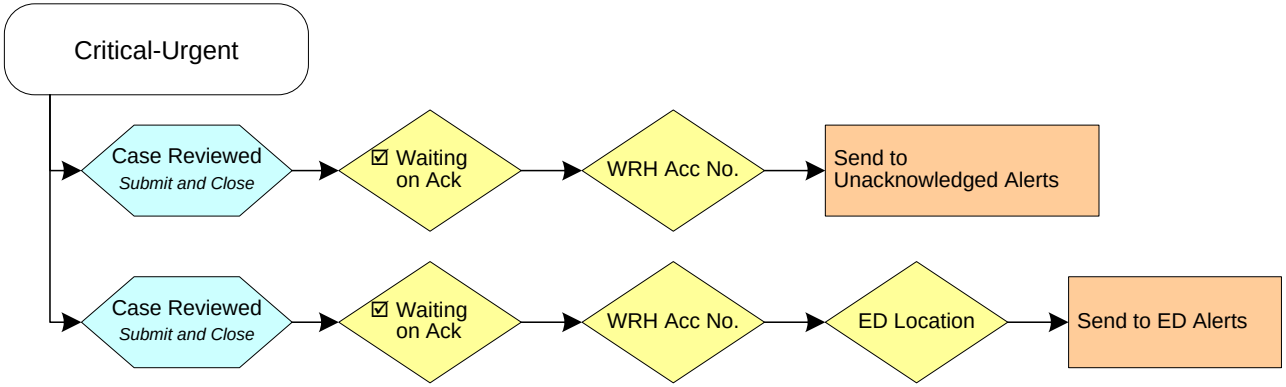




peerVue Space Design

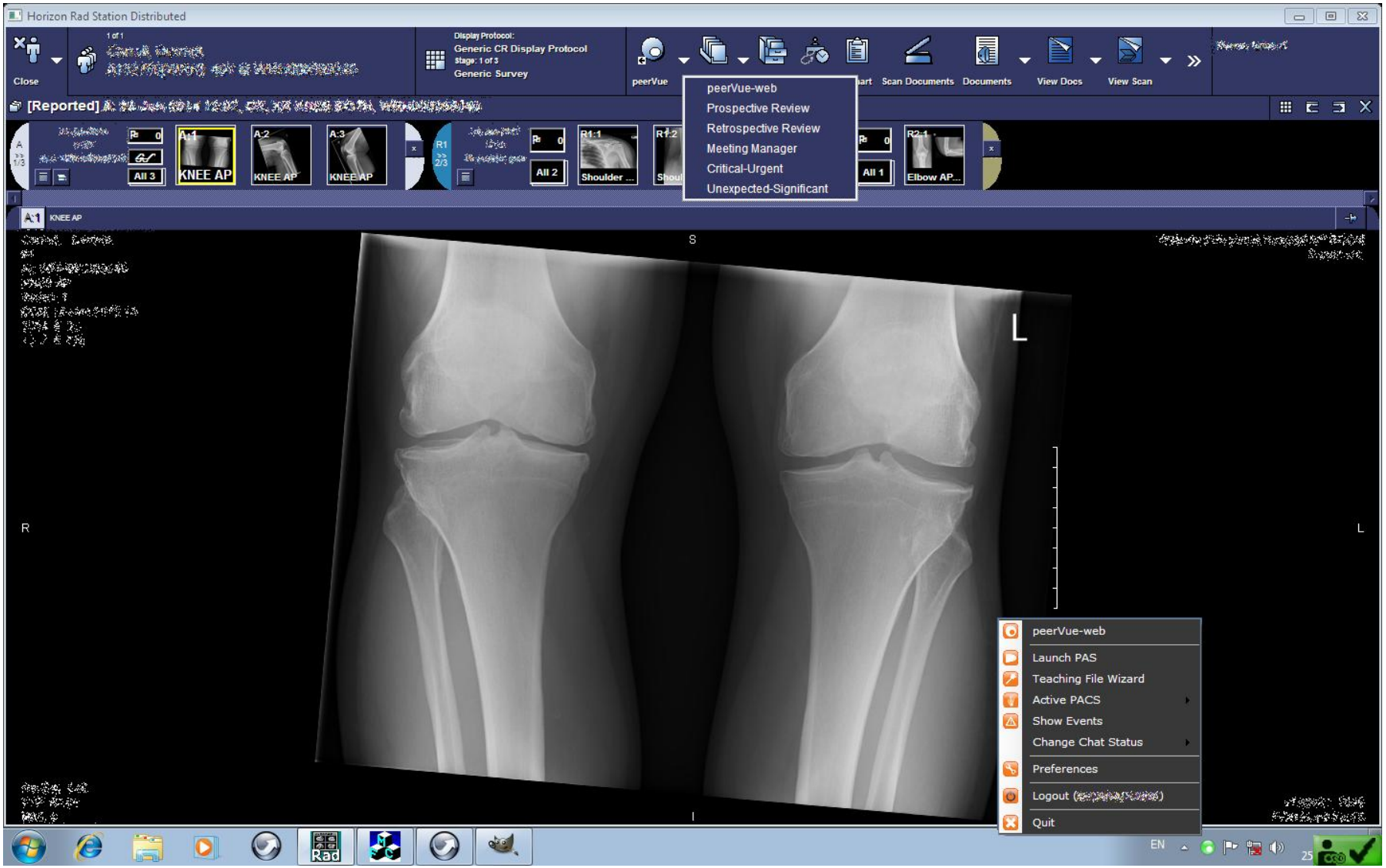




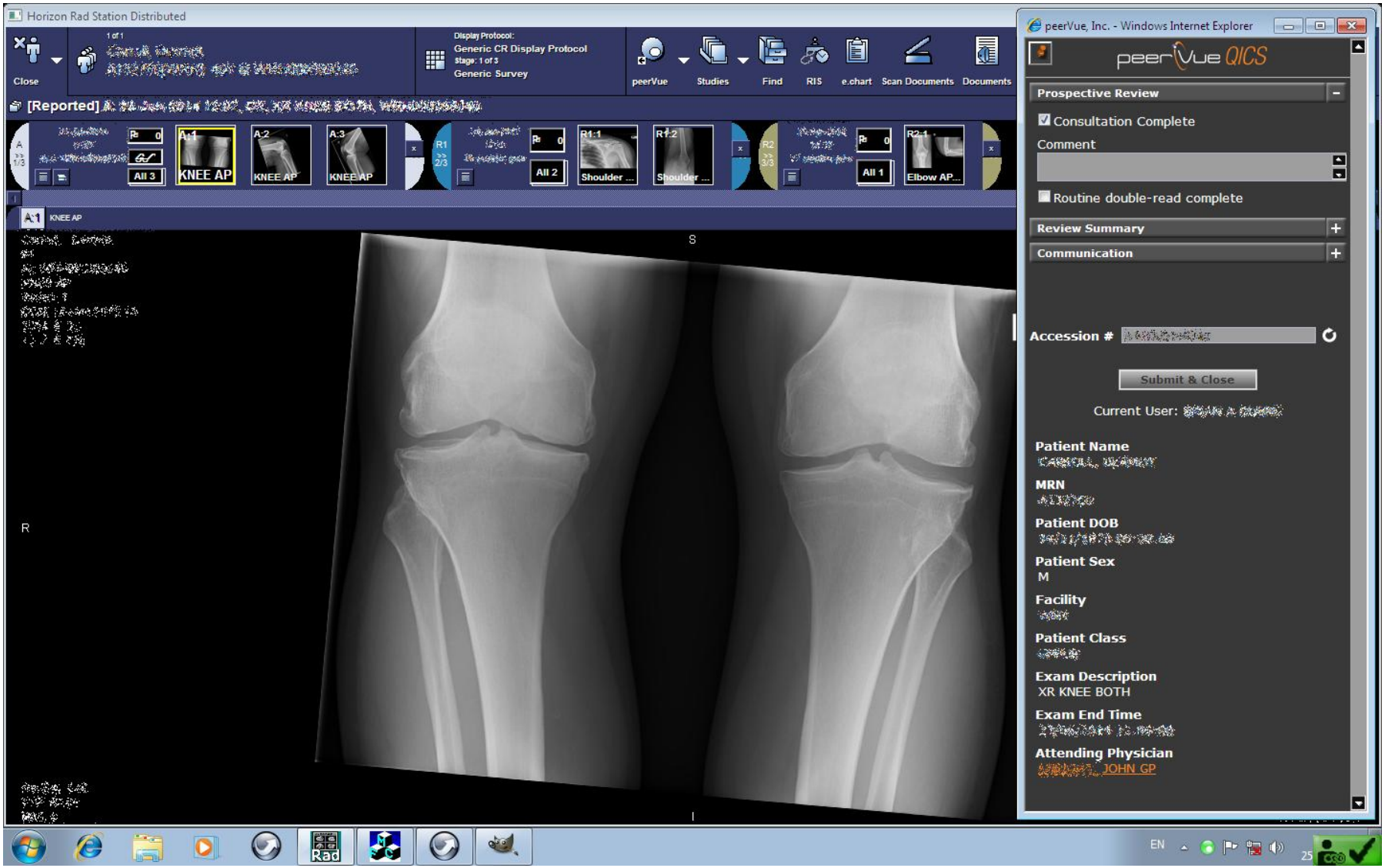


Local or National

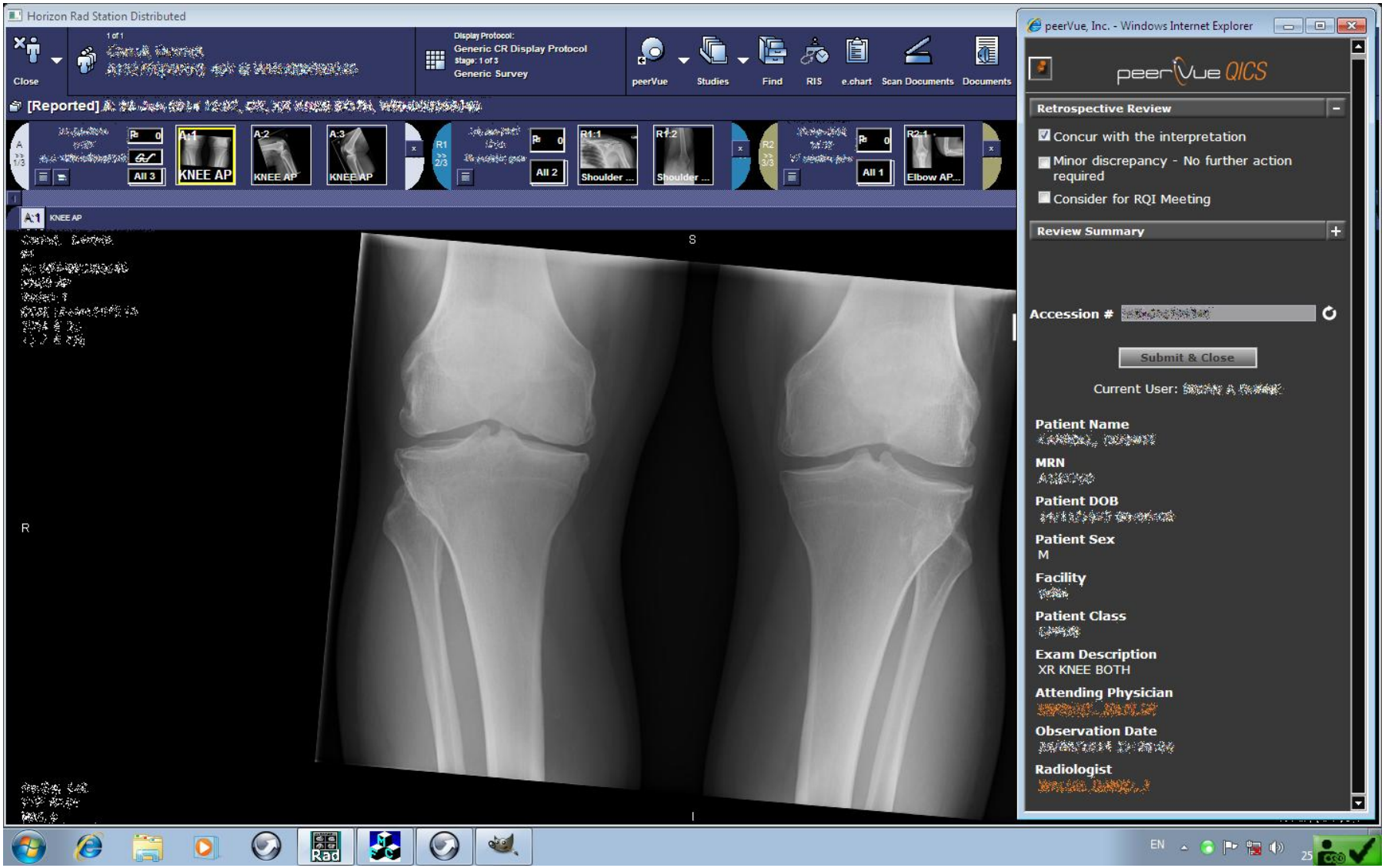
NIMIS and peerVue



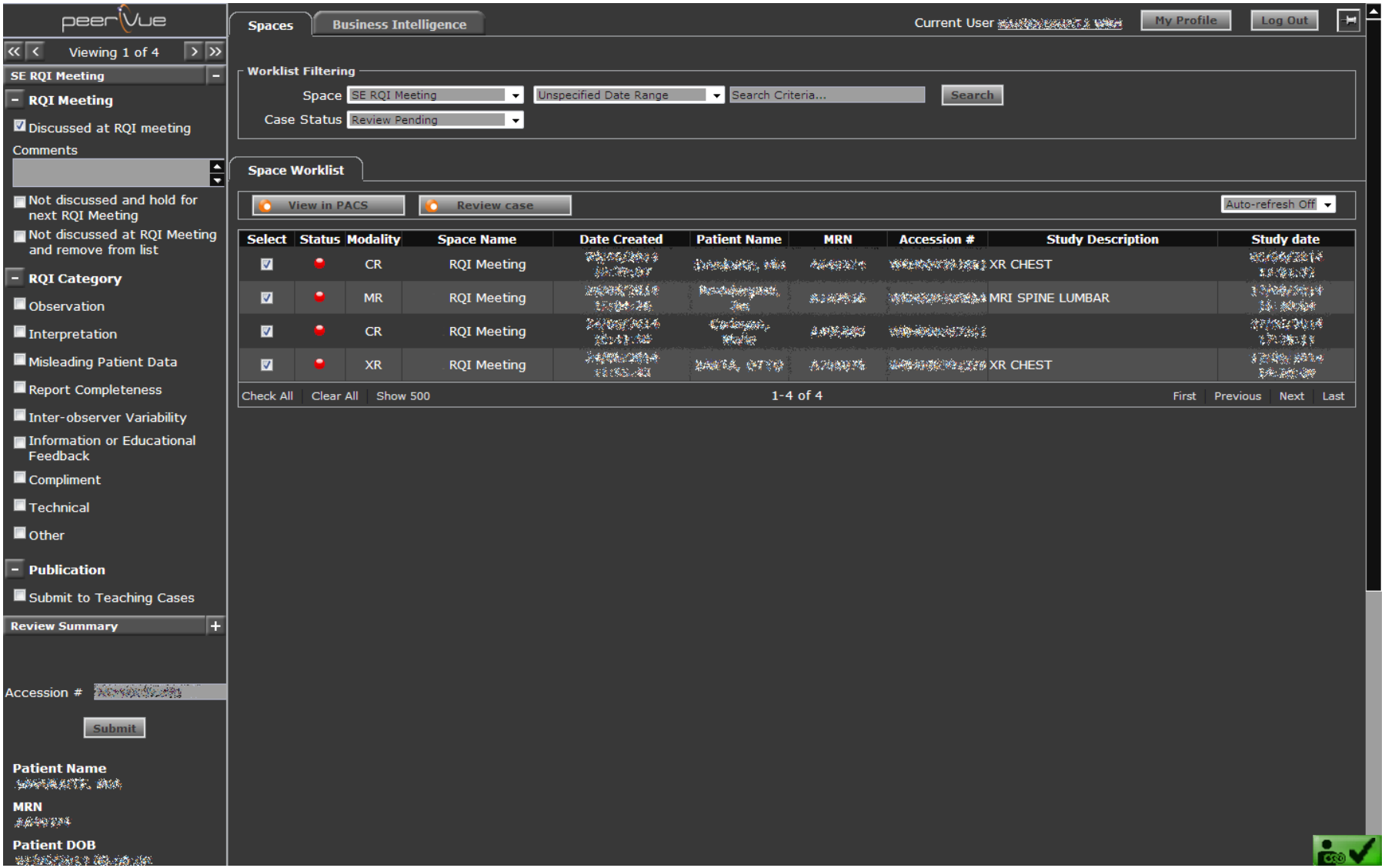
Prospective Review



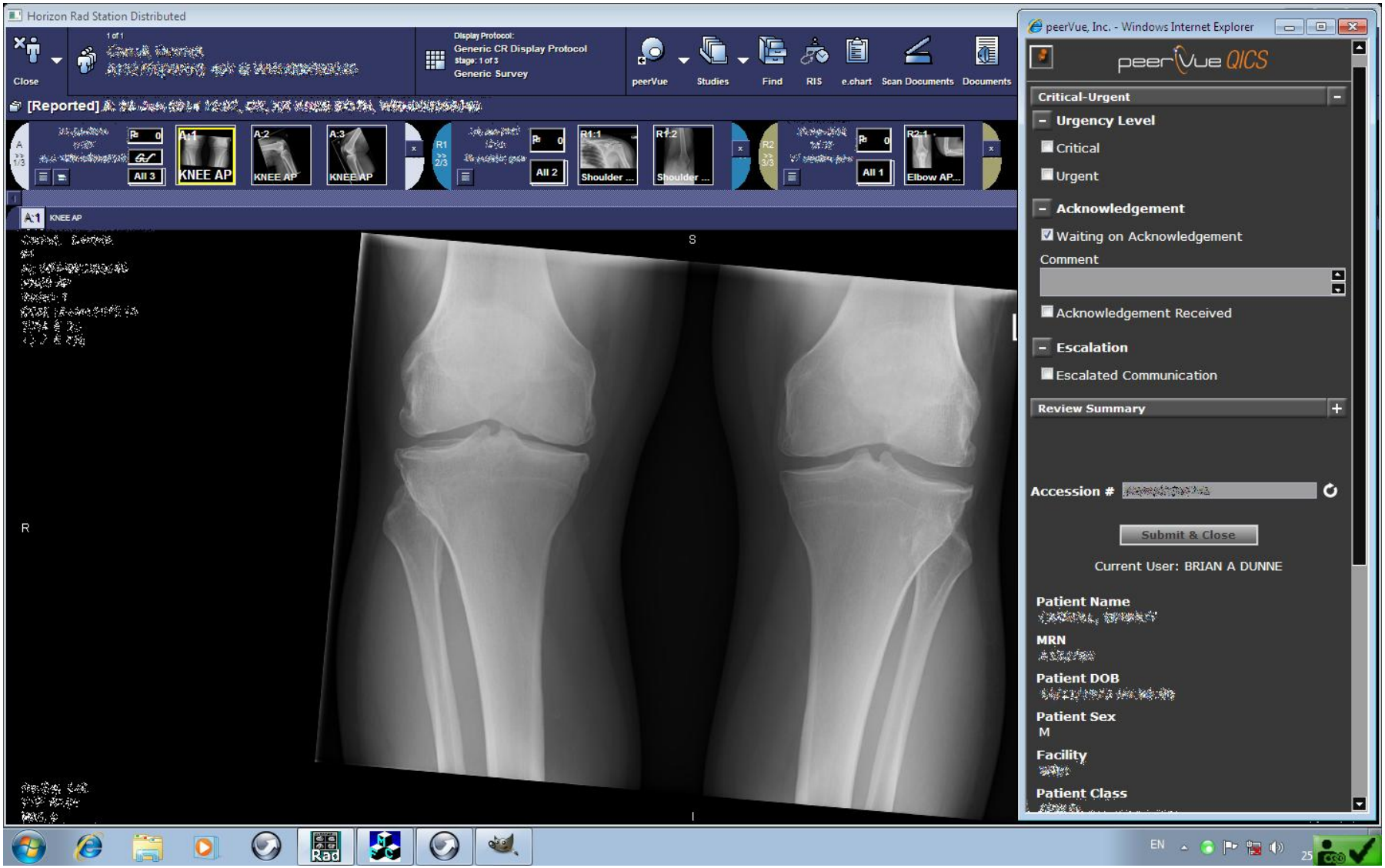
Retrospective Review



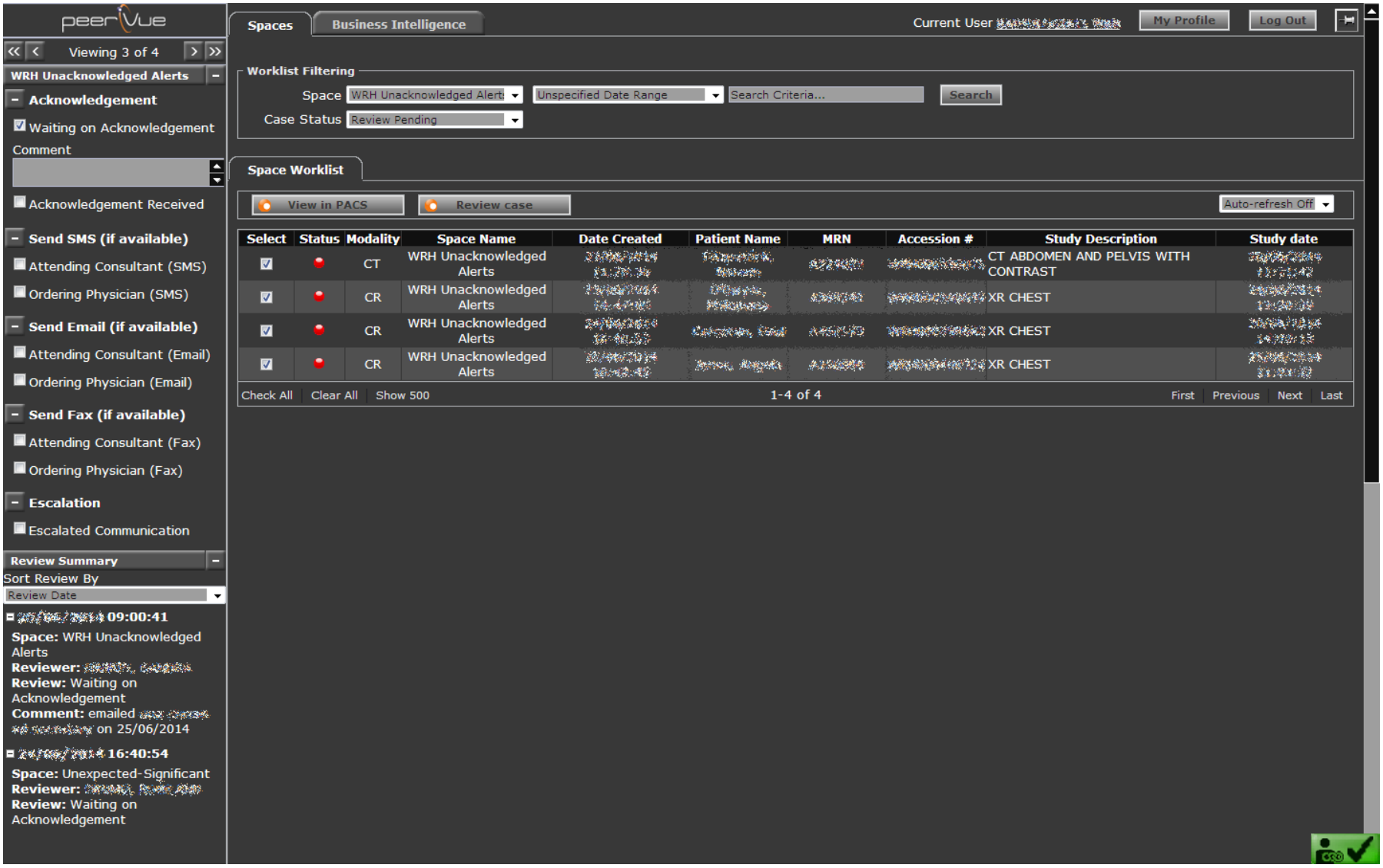
RQI Meeting


peerVue
Viewing 1 of 4
SE RQI Meeting
RQI Meeting
Discussed at RQI meeting
Comments
Not discussed and hold for next RQI Meeting
Not discussed at RQI Meeting and remove from list
RQI Category
Observation
Interpretation
Misleading Patient Data
Report Completeness
Inter-observer Variability
Information or Educational Feedback
Compliment
Technical
Other
Publication
Submit to Teaching Cases
Review Summary
Accession #
Submit
Patient Name
MRN
Patient DOB
Spaces
Business Intelligence
Current User
My Profile
Log Out
Worklist Filtering
Space
SE RQI Meeting
Unspecified Date Range
Search Criteria...
Search
Case Status
Review Pending
Space Worklist
View in PACS
Review case
Auto-refresh Off
Select
Status
Modality
Space Name
Date Created
Patient Name
MRN
Accession #
Study Description
Study date
CR
RQI Meeting
XR CHEST
MR
RQI Meeting
MRI SPINE LUMBAR
CR
RQI Meeting
XR
RQI Meeting
XR CHEST
Check All
Clear All
Show 500
1-4 of 4
First
Previous
Next
Last

Radiology Alert 1



Radiology Alerts 2



First Site Implementation

- University Hospital Waterford
- Integration with McKesson RIS & PACS
- Comprehensive testing
- Final configuration of peerVue
- Supplementary spaces
- Security configuration
- Go Live – June 2014

Implementation of Sites 2-16

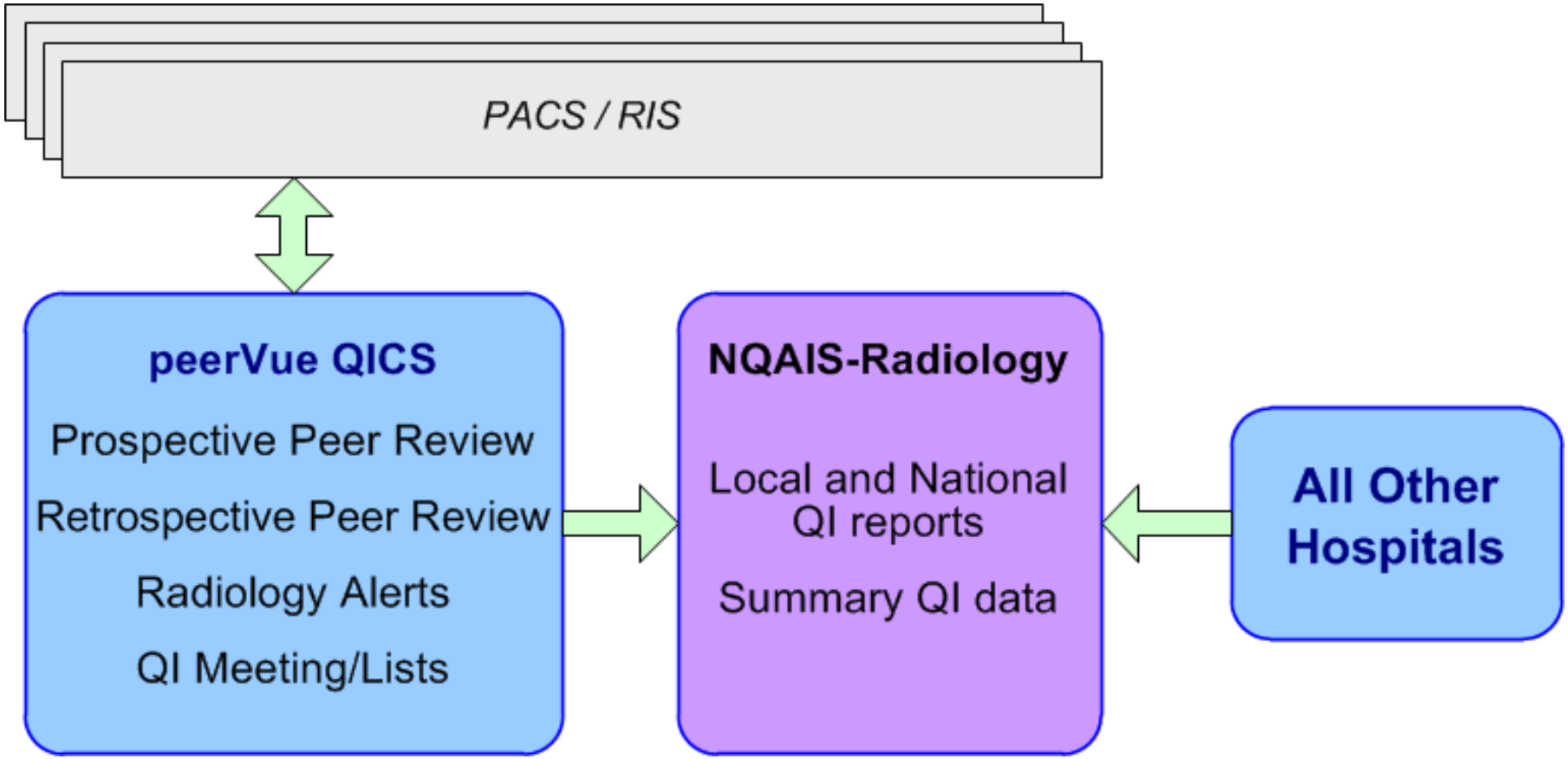
- 16 sites live by end of 2014
- Evolved
  - Implementation approach
  - Documentation and training
  - Acceptance tests
  - Technical questionnaires
  - Communication materials

Project Plan – Public Hospitals

2014			2015				2016	
Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
1	2	13	4	13	8	1	2	6

- Private Hospitals
  - Implement ICT solutions to support QI processes
  - Transfer QI information to NQAIS-Radiology

Radiology QI ICT Solution



Implementation 1

- 12 week project
- Personnel
  - Lead QI Radiologist
  - RQI Technical Lead (typically PACS Manager)
  - Support staff lead
- Key tasks
  - Policies and procedures
  - User and clinician lists, including contact details
  - Testing

Implementation 2

- Project web site
  - https://docs.healthatlasireland.ie/nqais-radiology
  - User Guides, Quick Reference Guides, Install Guides
  - Sample policies and procedures
  - Questionnaires
  - Communication material
- Training
  - Hospital's team (0.5 day on site)
  - Online training video
  - Face-to-face during go-live
  - Advanced peerVue (2 days, post go-live)
- Radiology QI Tech Leads Forum

What's Next?

- Implementation
  - peerVue on 50 sites
  - Private hospitals
  - NQAIS-Radiology
- Data quality analysis & improvement
- Quality Indicators – review, target setting
- peerVue upgrade

peerVue Configuration

30 hospitals

1203 workflow actions

34 assignment timers

709 panel attributes

1533109 studies

270 security roles

41316 QI records

125 spaces

1888 workflow conditions

8 national spaces

8278 users

1202 workflow triggers

1329 access rules

94 assignment conditions

1256 study fields

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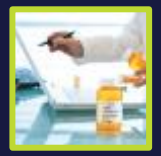
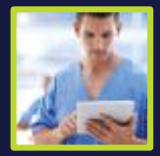
Delivering eHealth Ireland

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