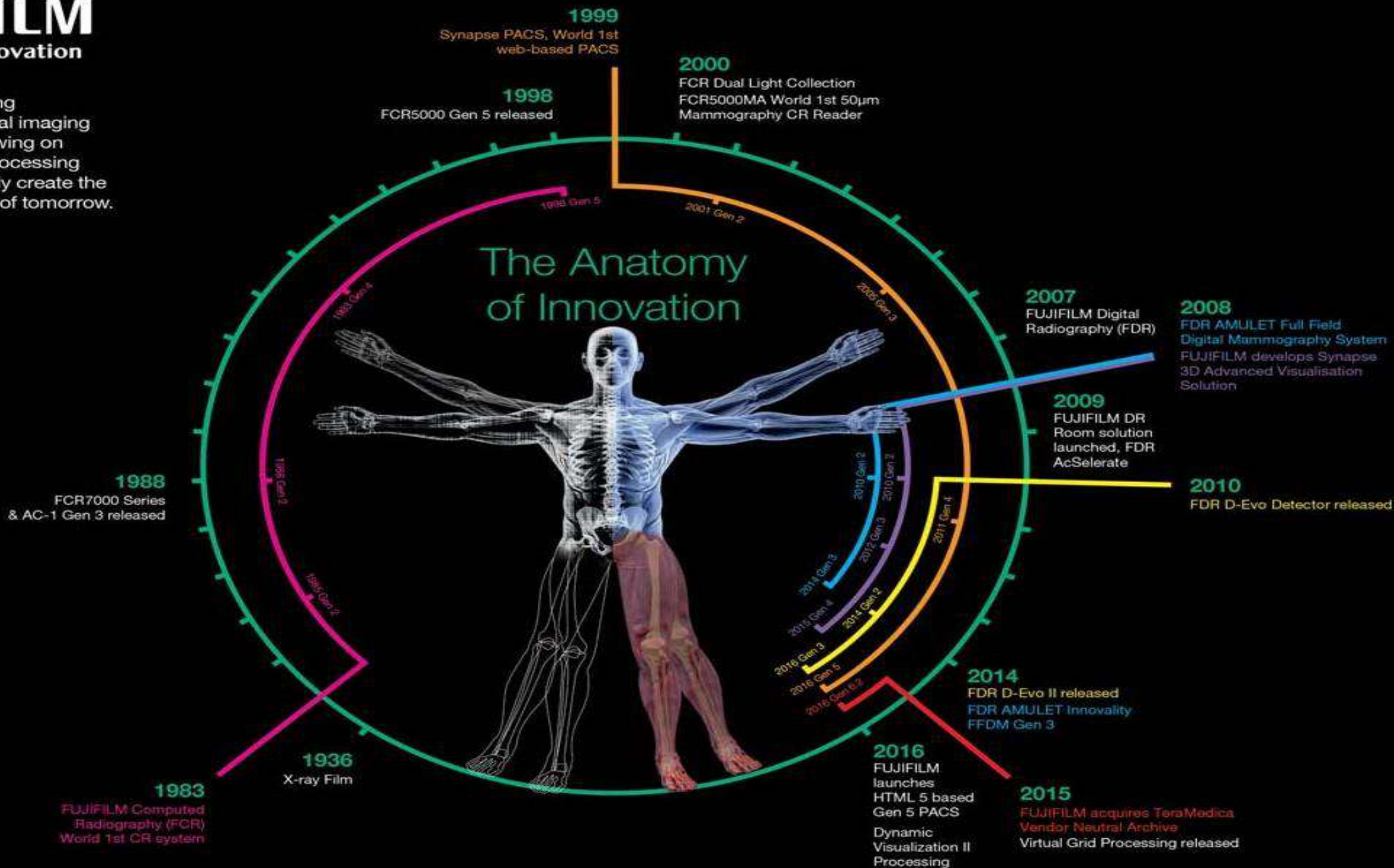




Enterprise Imaging Direction with AI

SYNAPSE 

Rajeev K. Jha
National Service Manager – HCIT
Fujifilm India Pvt. Ltd.



POWERFUL REASONS WHY HEALTHCARE FACILITIES PREFER FUJIFILM IT SOLUTION – WORLDWIDE

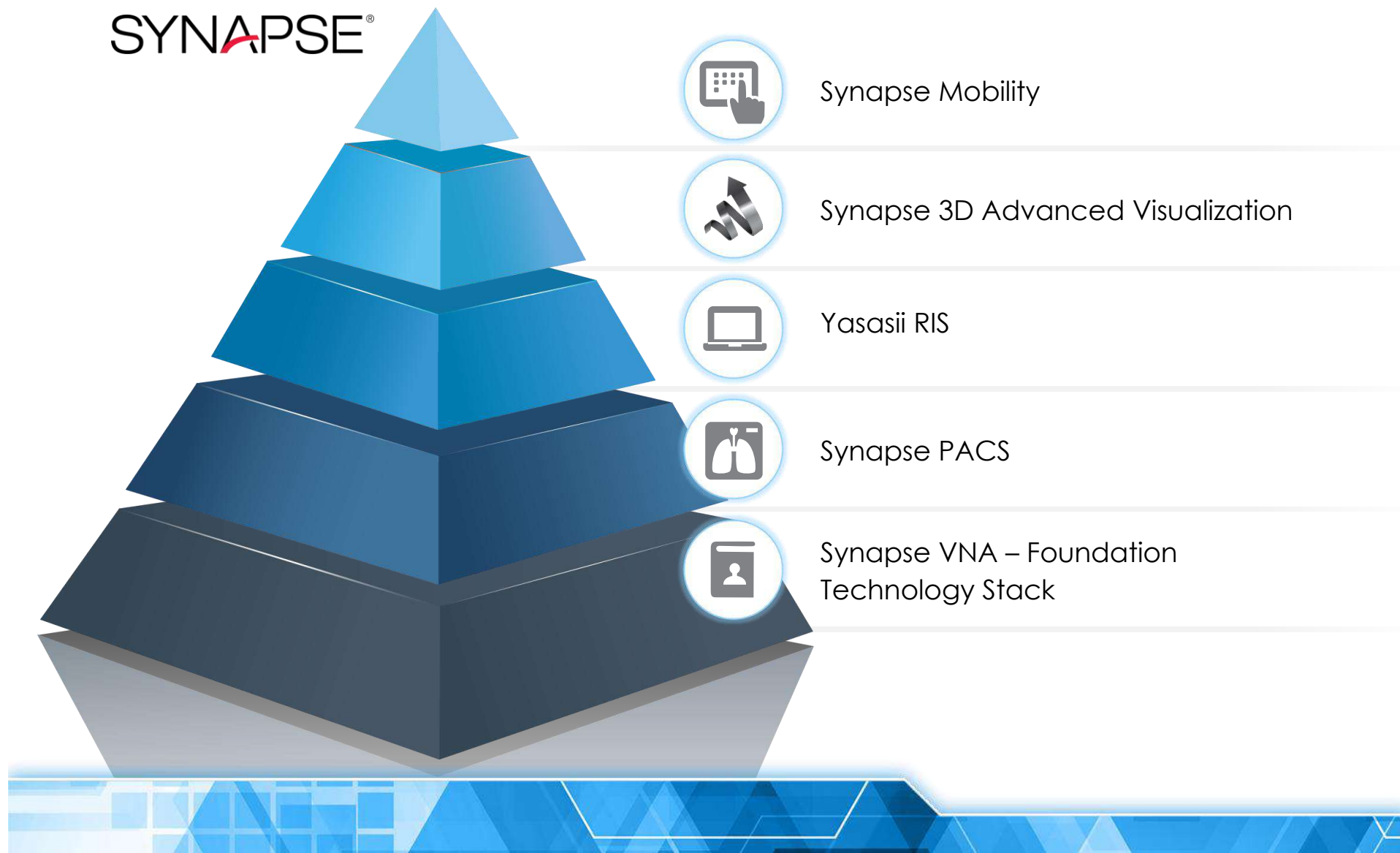
- KLAS RATINGS – 4th Globally (KLAS 2020) and 1st in India
- No software Obsolescence – One Time Investment
- Native Multi Site – Multi Data Source
- Flexible De Centralized/ Centralized Architecture
- First Server Side rendering technology PACS in the Industry
- Built in Scalability
- Same product - Incremental Builds (Last 20 years)
- Uniform , Powerful GUI for Every User
- Dedicated Healthcare IT Team – Sales, Clinical , Service
- Best of the breed Enterprise Imaging offering (RIS / PACS/3D/VNA/Mobility) – Single Vendor Advantage

Certificates

1. FDA approved PACS
2. FDA approved Mobility Zero Footprint viewer
3. CE certification
4. DIACAP certified from Department of Defense, US
5. IHE compliant with participation in Connectathon events in US and Europe for Interoperability testing
6. HIPPA compliant

FUJIFILM'S CONTINUED COMMITMENT TO A **MEDICAL
INFORMATICS IMAGING PLATFORM**

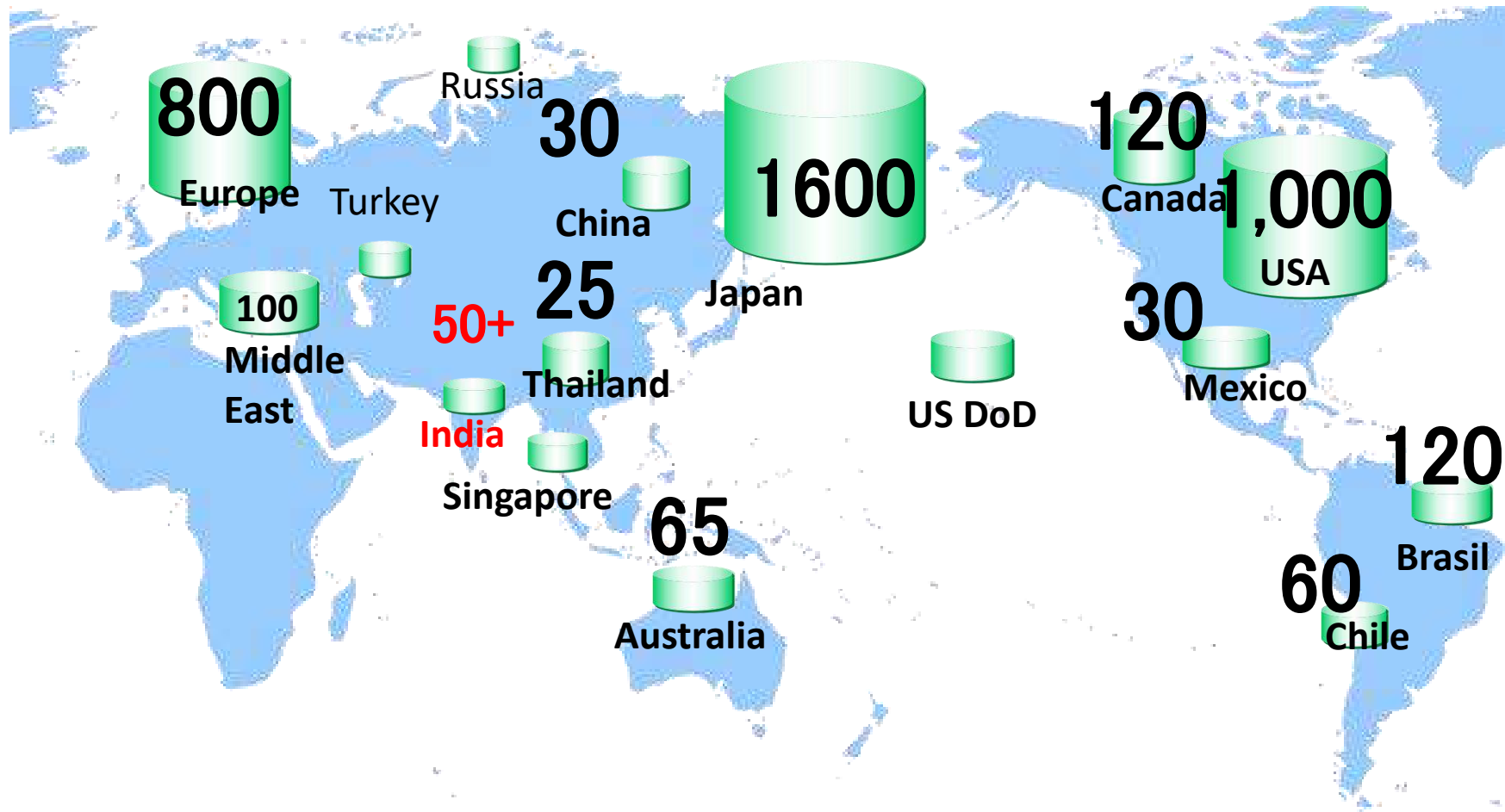
SYNAPSE®



SYNAPSE Solution - Worldwide

#No 1 In Global Market Share

5200+ sites



7x - Enterprise Imaging Convergence

Radiology + AI + Enterprise Imaging

- Complete diagnostic tools for radiology
- Advanced technology/server-side rendering
- AI Imaging & workflows
- Enterprise PACS/Archive federation (MDS)
- Non-DICOM visualization
- Radiology, 3D, AI

5.7.210 PACS (Server Side)



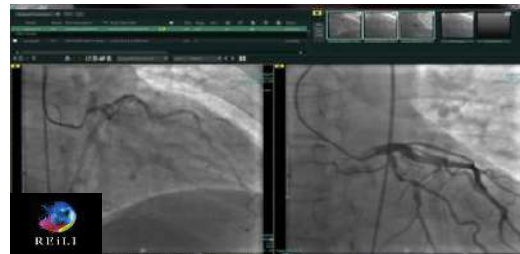
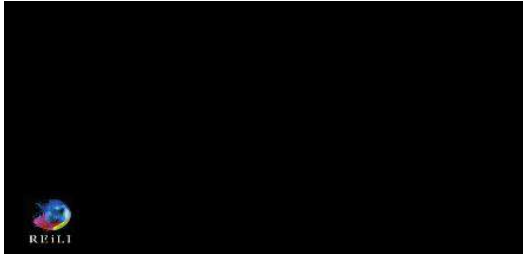
SYNAPSE 7X

Diagnostic
Radiology

Diagnostic
Mammography

Diagnostic
Cardiology / Reporting

Enterprise Viewer
Patient / All EI Centric



Standardized Server Side Viewer Platform

REiLI AI Platform & AI Enabled Applications

Enterprise IS (EIS) Analytics and Workflow Solutions

Enterprise Imaging Centralized Content Manager

VNA

Server Side PACS

AI Enabled To Use REiLI AIPF

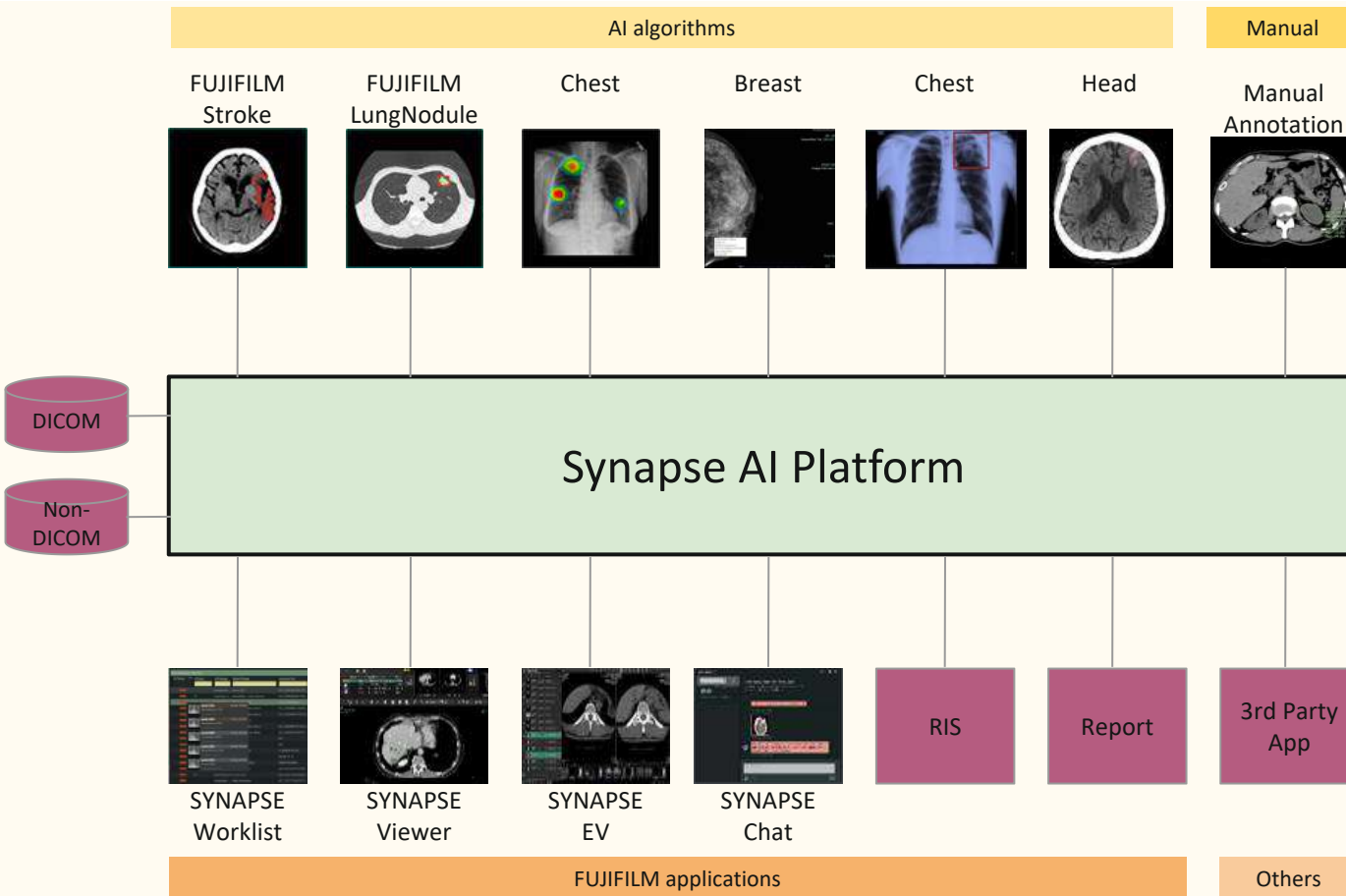
Interface showing a chest X-ray (Chest, Portable X-Wise - 1001) with AI analysis results. The patient is Kevin Jeffers, 63 years old, male, born 5/29/1956. The X-ray is labeled "SITTING Portable".

AI Analysis Results:

Findings	Percentage	Accept	Reject
Pneumothorax	46%	Accept	Reject
Pneumothorax	63%	Accept	Reject
Pleural effusion	36%	Accept	Reject
Consolidation	34%	Accept	Reject
Pleural effusion	30%	Accept	Reject
Consolidation	30%	Accept	Reject
Pneumothorax	62%	Accept	Reject
Consolidation	20%	Accept	Reject
Pleural effusion	18%	Accept	Reject
Nodule	18%	Accept	Reject
Consolidation	17%	Accept	Reject

Page: 1 of 1

Value Proposition



Seamless integration of AI features into daily workflow

Consistent behavior on applications with various AI algorithms

One-time integration for all partners

Synapse AI Clinical Benefits

Efficient and Easy to Use

- Maximum Efficiency
 - Integrated into exiting workflow & viewer
 - Eliminates multiple widgets & desktop distractions
 - Familiar tools makes using easy to learn
- Supports pre-read notifications (triage) & identifies areas of interest
- Supports post-read overview – increase incidental findings and precision of diagnoses
- Overlay technology allows radiologist to easily toggle findings on / off
- Cast a wider net - multiple algorithms can be used on single procedure
- Customizable workflows to support how radiologists prefer to use AI



Patient ID	AI Status	AI Findings	AI Score	Proc.	Patient Name	Modality
AT923188C3915...	On	Central Infarction	0.85		QJ_Removal_140000	CT
CT901049000000...	On	Pericardial Infarction	0.85		QJ_Removal_140000	CT
27E8E3F0000000...	On	Pericardial Infarction	0.85		QJ_Removal_140000	CT
00000000000000...	On	Pericardial Infarction	0.85		QJ_Removal_140000	CT
00000000000000...	On	Pericardial Infarction	0.85		QJ_Removal_140000	CT



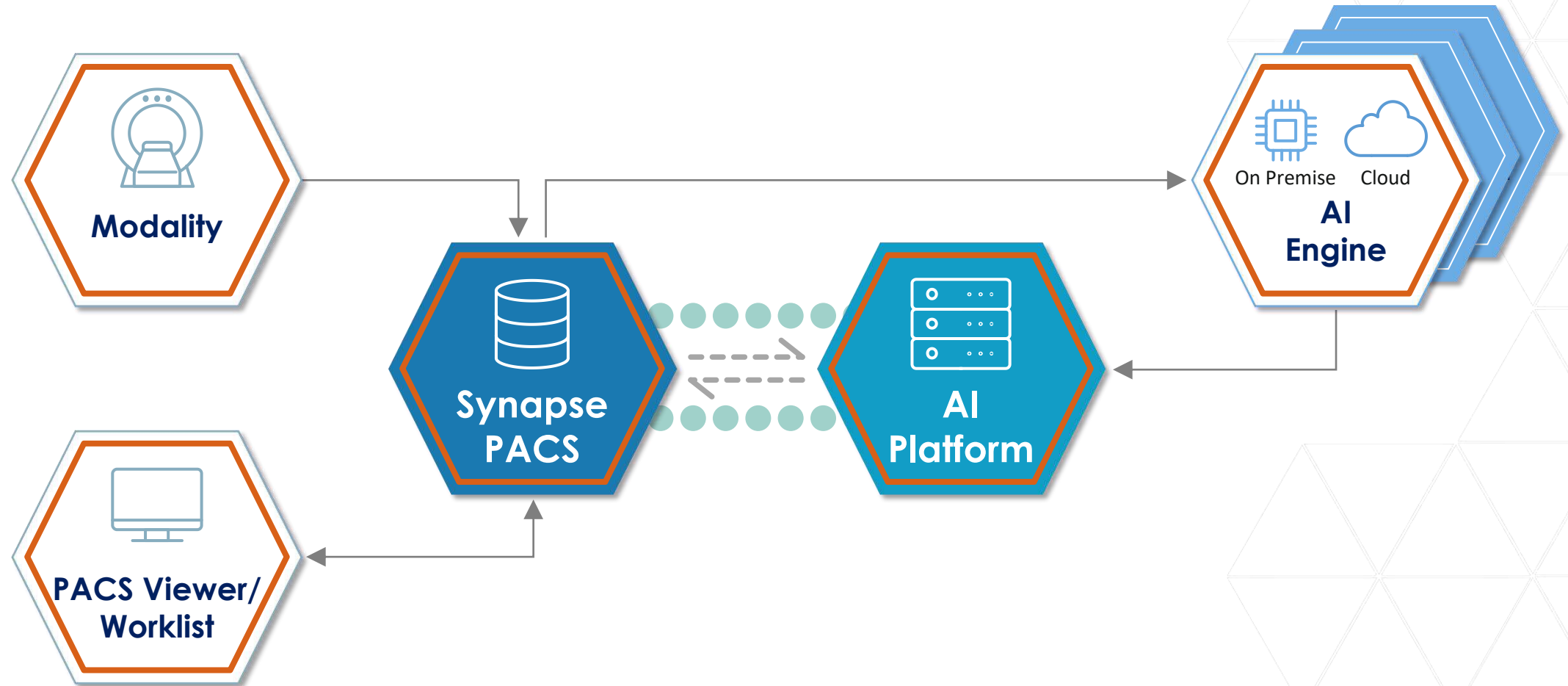
Synapse AI IT Benefits

Easy to Deploy and Maintain

- Open platform
 - Supports Fuji & 3rd Party algorithms
 - Supports multiple technologies (old & new)
 - ↳ DICOM SC
 - ↳ DICOM GSPS
 - ↳ DICOM SEG
 - Web Service API or HL7
- Easy to support multiple AI vendors with single platform
- Standardizes deployments
 - Single location to configure data routing
 - No additional desktop deployments
 - All AI integrated directly into Synapse

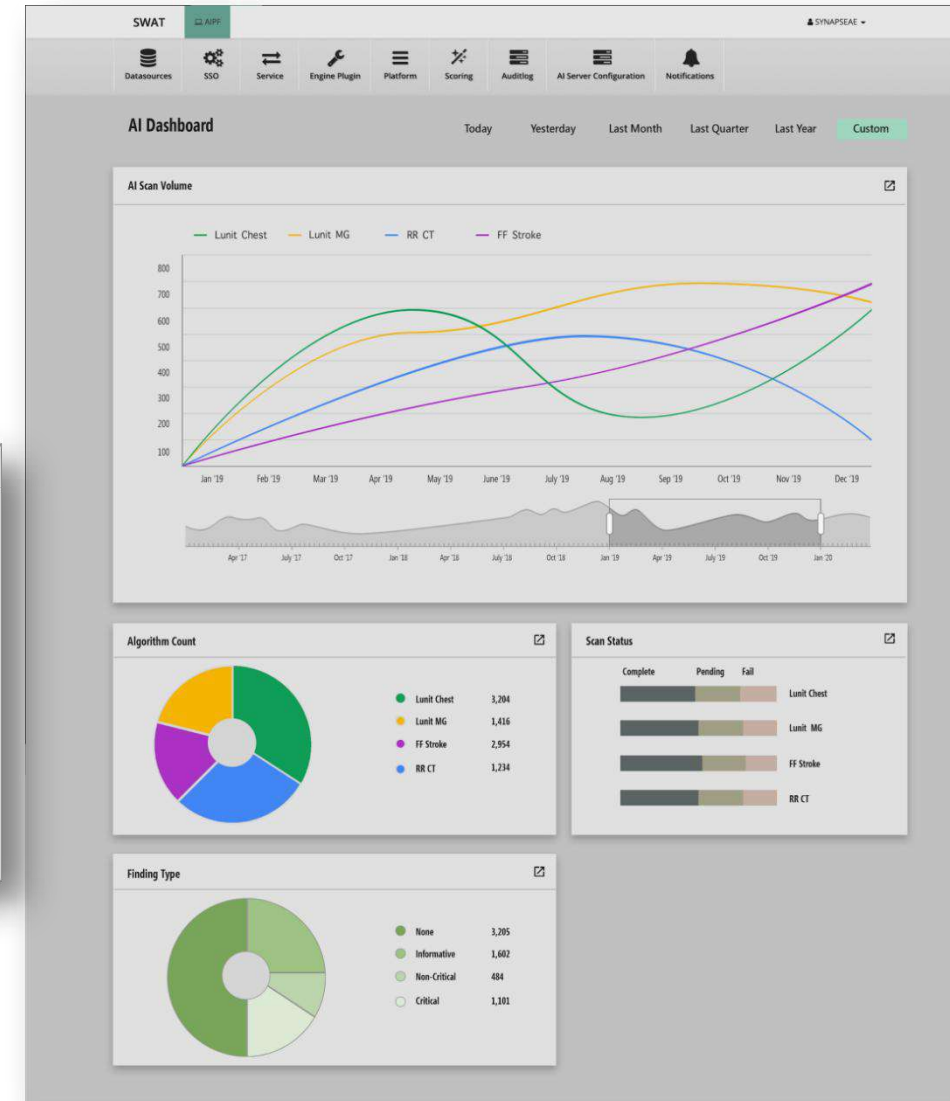
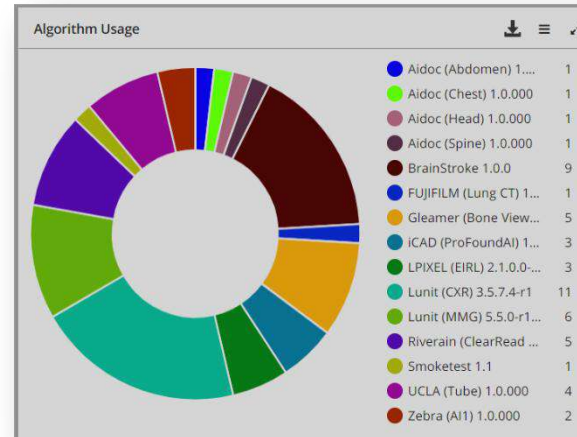


AI Data Orchestration with Integrated Diagnostic Viewer & Worklist



AI Dashboard

- AI usage
- Configurable AI Scan volume timeline
 - Per algorithm
 - Global View
- Algorithm Counts
- Algorithm Finding Types
 - Critical
 - Informative
 - Other
- Scan Status
 - Queued
 - Complete
 - Failed
- Exportable Reports
- AI feedback
- Study timing analysis



AI Worklist – Algorithms Run, Triage, AI Status

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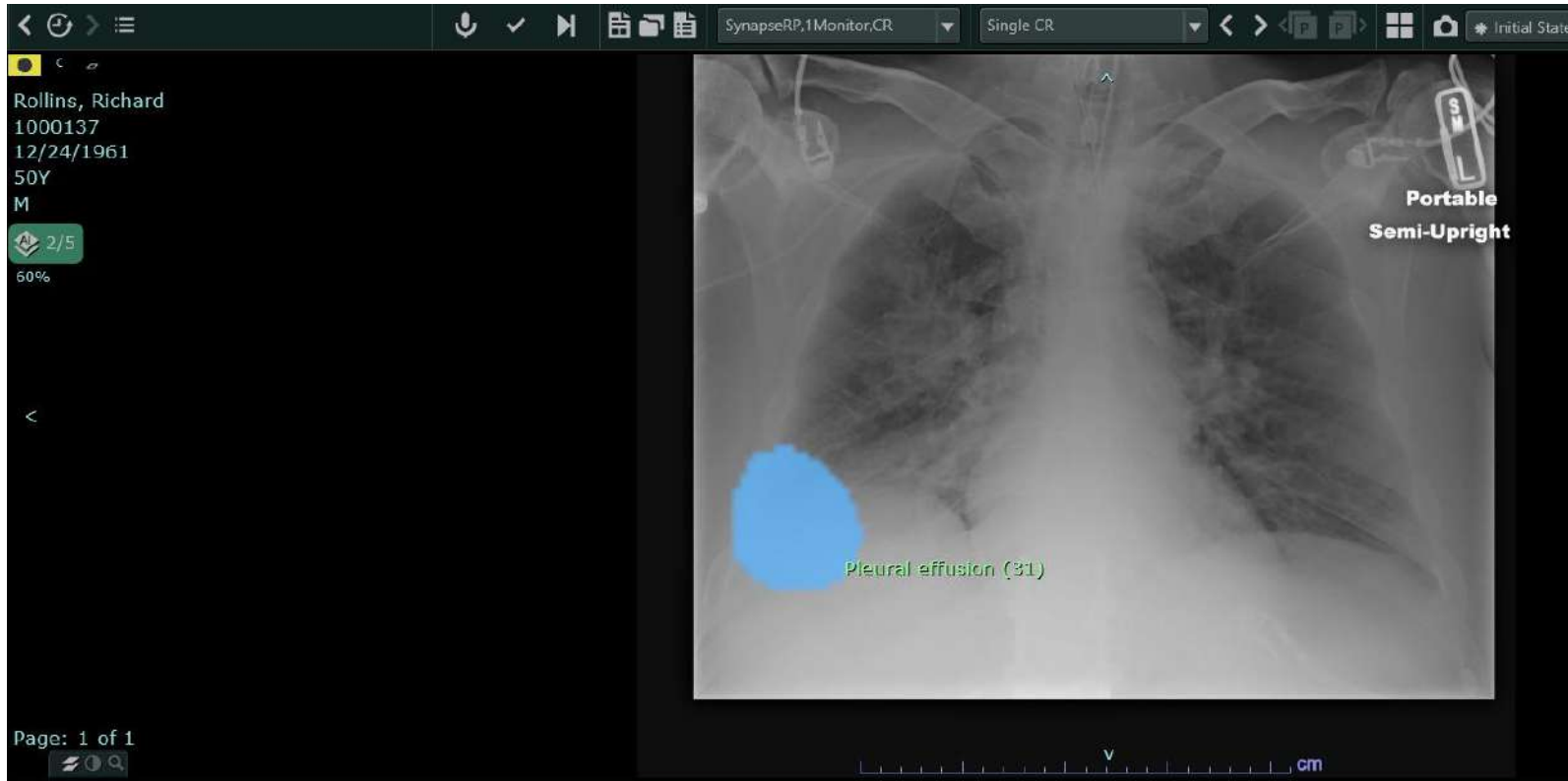
Unread Studies

My History
My Favorites
Global Worklists
All Patients Global
All Recent Studies Global
All Reservations Global
All Studies Global
Unread Stu... 185
Worklists
All Patients
All Recent Studies
All Reservations
All Studies
Unread Stu... 185
Collections
My Collection
Public Collections
Demo Studies

Pri...	AI Algorithms	AI Triage	AI Status	Patient Name	Patient ID	Birth Date	Proc Description	Procedure C...	Accession No	Modality	Image C
	*CureMatrix (cmTri...	★	✓								
	*Hologic (Genius AI)	★	✓								
	*UCLA (Tube)	★	✓								
	*iCAD (ProFoundAI)	★	✓								
	*ScreenPoint (Trans...	★	✓								
	*iCAD (ProFoundAI)	★	✓								
	*AnnaliseAI (CXR)	★	✓								
	*Hologic (Genius AI)	★	✓								
	*ScreenPoint (Trans...	★	✓								
	*iCAD (ProFoundAI)	★	✓								
	*iCAD (ProFoundAI)	★	✓								
	*UCLA (Tube), Lunit...	★	✓								
	*ScreenPoint (Trans...	★	✓								
	*iCAD (ProFoundAI)	★	✓								
	*iCAD (ProFoundAI)	★	✓								
	*iCAD (ProFoundAI)	★	✓								
	*iCAD (ProFoundAI)	★	✓								
	*MaxQ (Accipio)	★	✓								
	*MaxQ (Accipio)	★	✓								
	*MaxQ (Accipio)	★	✓								
	*iCAD (ProFoundAI)	★	✓								
	*iCAD (ProFoundAI)	★	✓								
	*iCAD (ProFoundAI)	★	✓								
	*MaxQ (Accipio)	★	✓								
	*MaxQ (Accipio)	★	✓								
	*MaxQ (Accipio)	★	✓								
	*iCAD (ProFoundAI)	★	✓								
	*iCAD (ProFoundAI)	★	✓								

1 of 185 items Last refreshed 10:19:50 AM

AI Visualization



- Launch to AI Snapshot from WL
- AI Bookmarks to cycle through
- Toggle on/off overlays (DICOM SEG)
- Findings indication with hover

Recommended Algorithms

Validated AI Algorithms
w/FDA Clearance & Fuji API Integration

RSNA Demo Algorithms

FDA & non-FDA Certified

Mammo

- **iCAD**
- **ScreenPoint**
- **Hologic**
- **CureMetrix**

Chest CXR

- **Lunit**
- **QureAI**
- **UCLA**
- **HarrisonAI**
- **Oxipit**
- **LPixel**

Chest/Abdomen

- **Fujifilm**
- **Riverrain**
- **Zebra**
- **AiDoc**

Neuro

- **MaxQ**
- **QureAI**
- **IcoMetrix**
- **AiDoc**
- **LPixel**

Bone

- **Gleamer**
- **16Bit**



Integration validated

- CT ICH
- Accipio Ix has FDA
 - CADt and CADe
- Indicates slice with finding using red border in SC series
- Ax product will include overlay and eliminate need for SC series

SYNAPSE 5

▼

My History

My Favorites

Global Worklists

Worklists

All Patients

All Recent Studies

All Reservations

All Studies

Unread Studies 12 5

Collections

My Collection

Public Collections

Unread Studies

Patient Name	Prior...	AI Triage	AI Status	AI Algorithms	Patient ID
Barbara Doe	S	🔴	✅	*Accipio Ax, *Accipio Ix, Accipio	MAXQ-003
Billdoe	S	🔴	✅	*Accipio, *Accipio Ax, *Accipio Ix	MAXQ-002
Randy Doe	S	🔴	✅	*Accipio, *Accipio Ax, *Accipio Ix	MAXQ-013
Scott Doe	R	🔴	✅		
Iso_Ir 100	S		✅		
Timothy Doe	S		⊖		
Anon01a08805	R		✅		
John Doe	R		⚠️		
Aapm, Test, Patterns	R				
Anonymized	R				
Anon	R				
Iso_Ir 100	R				



*MaxQ (Accipio Ix)

Suspected acute ICH

06/18/2020 6:21:12 AM

Version 2.1



MaxQ (Accipio Ax)

Suspected acute ICH

06/18/2020 7:04:07 AM

Version 2.1



MaxQ (Accipio Ax)

Suspected acute ICH

06/18/2020 8:15:39 AM

Version 2.1



MaxQ (Accipio Ax)

ICH

06/04/2020 12:29:11 PM

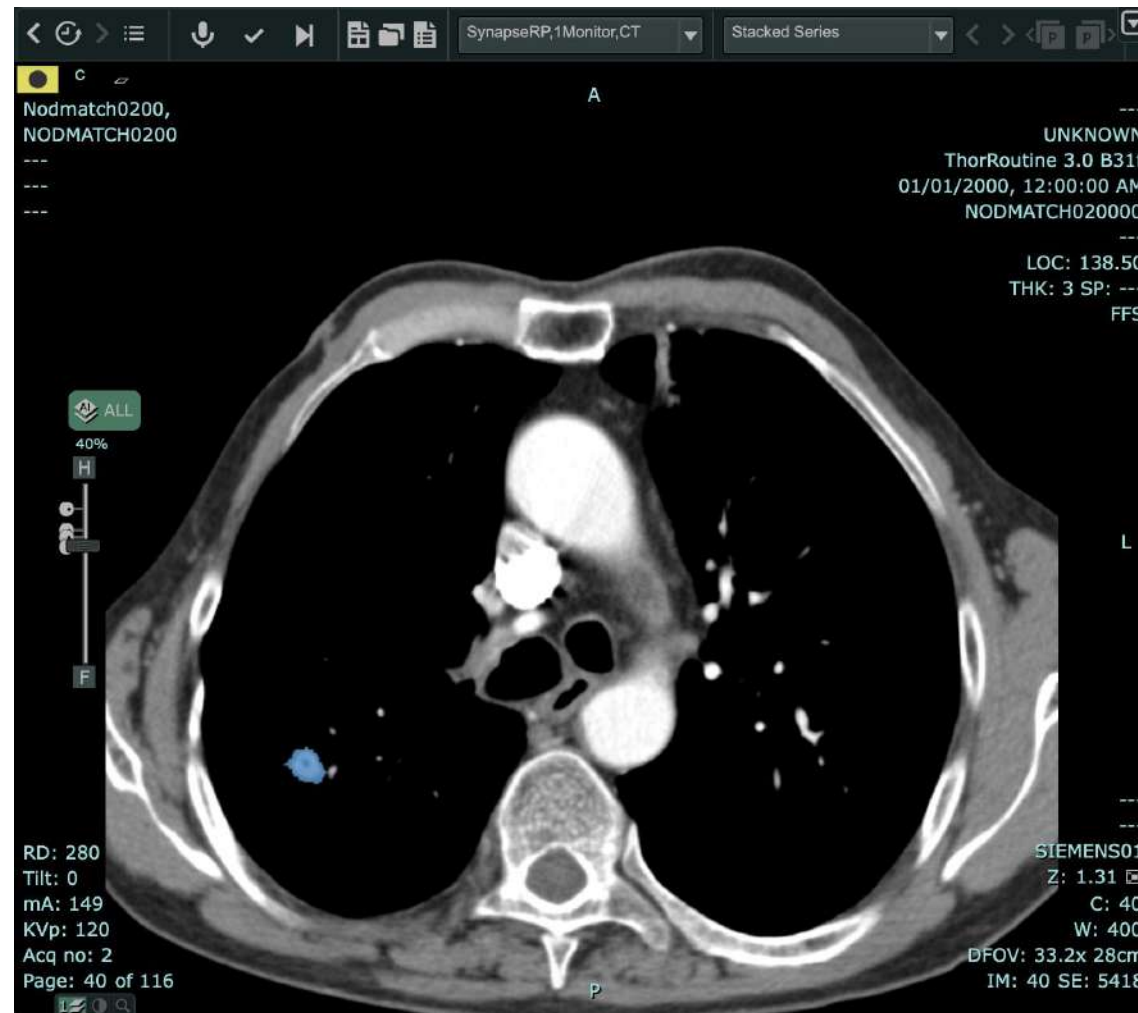
Version 1.0.000





Integration validated

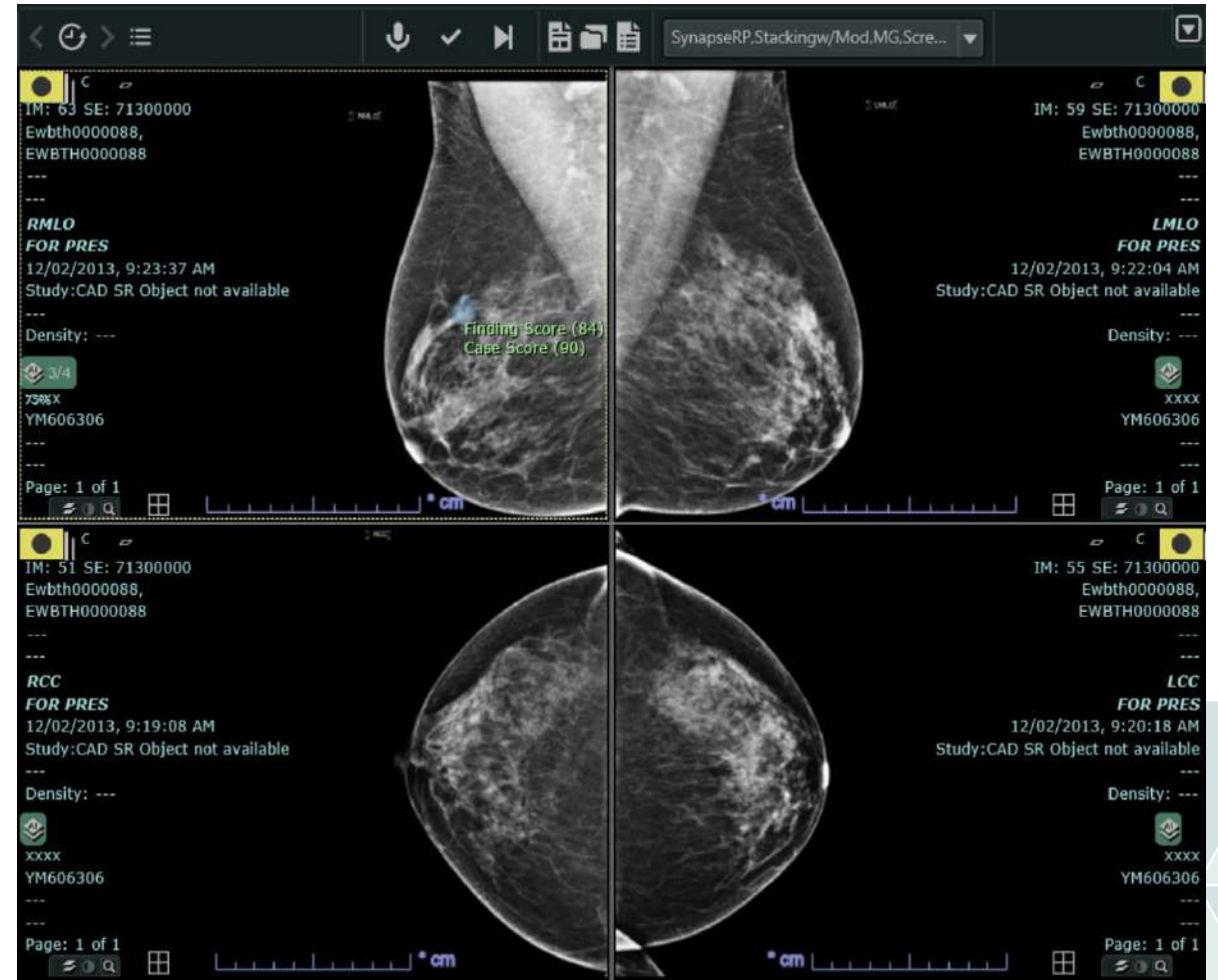
- CT Lung Nodules
- Vessel Suppression
- Rib removal on X-Rays
- CAdE
- SEG overlay
- Recently announced partnership with AIDOC





Integration validated

- 2D and 3D Mammo
- FDA for 3D tomo only (US Market)
- CADt and CADe
- SEG overlay





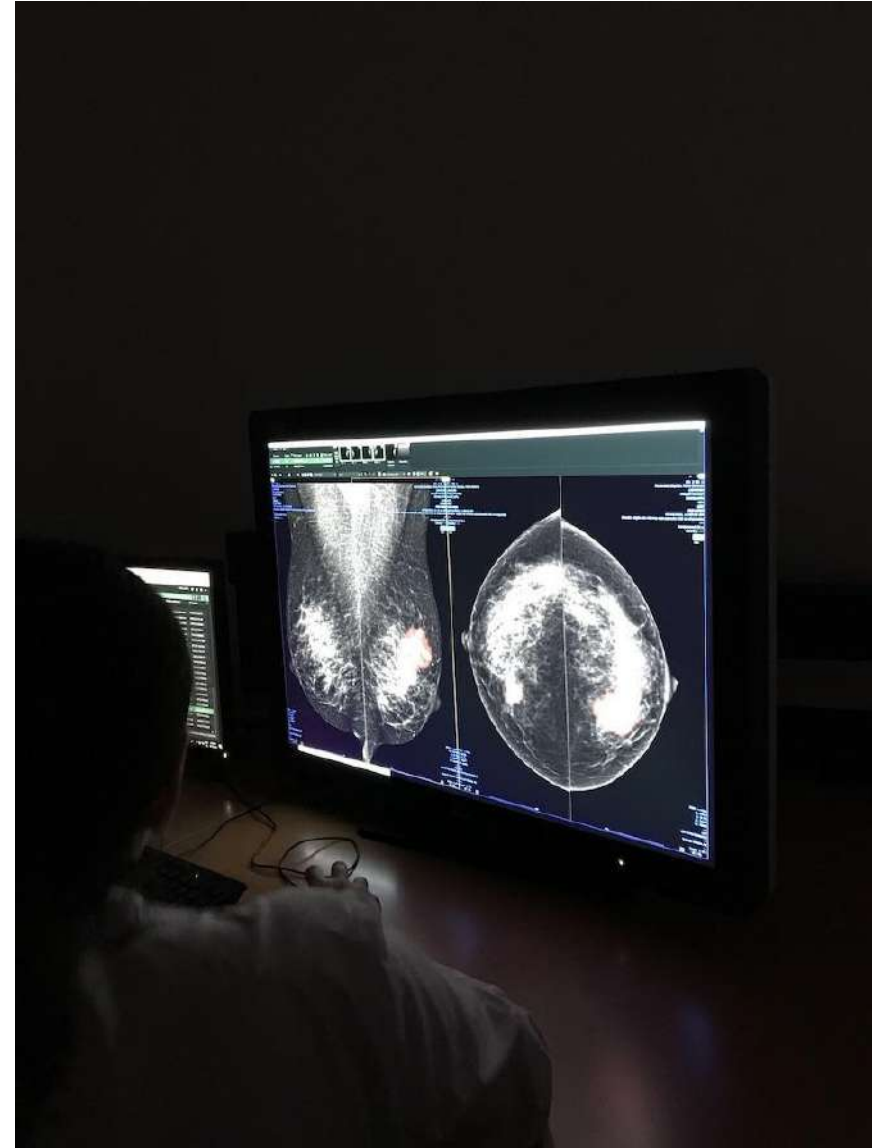
Integration validated

- FDA for 2D and 3D Mammo
- CADt and CADe
- SEG overlay





- Chest X-Ray ~ 12 diseases
- 2D Mammo
- FDA is in progress
- SEG overlay
- Working on FDA





- Fracture detection on extremities and long bones
 - No skull, spine, or pediatrics
- SEG overlay



qure.ai



Integration validated

- FDA for qER ICH product
- Doesn't have FDA for CXR product
- Cleared to use qXR for Covid triage
- Quantification
- SEG overlay



qXR

Fully automated
Chest X-ray reads



qER

Fully automated
Head CT scan reads



Thank you!