### **Cleveland Clinic's Enterprise Imaging Strategy** Optimizing Your EMR with an Enterprise Imaging Strategy Cleveland Clinic The presentation of will focus on the key components that should be considered during the development of an enterprise imaging strategy. $\underline{\underline{Governance}}$ model to develop the strategy and provide program oversight and direction. Identify opportunities within a healthcare organization to $\underline{\mathsf{capture}}$ and provide access to clinical imaging Understanding the $\underline{storage}$ and $\underline{workflow}$ requirements Develop an image access and visualization strategy Incorporating an image exchange program to ingest studies from outside the organization and make those images available through the EMR. **Drivers of an Enterprise Imaging Strategy** Complete the EMR and provide access to all clinical content Provide an imaging infrastructure that aligns technology with business goals Mergers and Acquisition Hospital affiliation networks Expand physician referral base Private physician practice support Clinical integration and coordination

### **Enterprise Imaging Strategic Plan**

Understand the imaging environment within your organization

Design and implement a multi-department imaging strategy

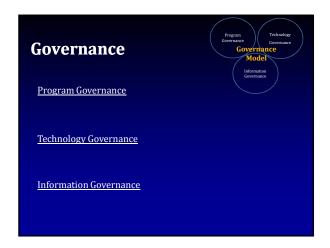
Develop department and enterprise workflows

Eliminate the imaging silos; centralize storage and management

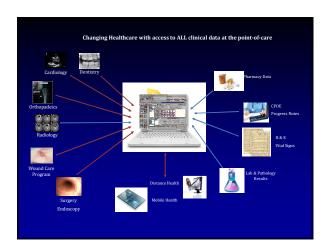
Provide access to all clinical multi-media content through the EMR

### Clinical & Business Analytics Image (Content) Exchange Access - Visualization Service-line Integration Technology Solution Imaging technology platform that includes: - storage infrastructure - tell Rintegration engine - workflow management system Enterprise Imaging Solution

### Governance Establish an effective governance model to create the strategy and provide program oversight and direction. Strategic Management of Imaging Data Includes all the Key Stakeholders



# Define an Implementation Strategy How do you build a roadmap that executes on the strategy? Defining the technical and functional requirements of an enterprise imaging platform Integration of department PACS or Image Management Systems (IMS) Develop point-of-care imaging programs | Ultrasound | Clinical Photography | Charlest | Charles



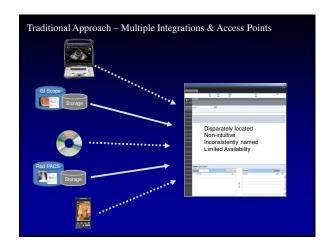
Service Line Integration	
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Images May Be Acquired Across 40+ Services Lines	
images way be required recoss 401 Services Ellies	
Emergency Medicine Critical Care  Acceptagistry	
Anesthesiology Ambulatory Clinics Orthopaedics Surgical Scope	
Endocrinology     Rheumatology     Urology	
Surgical Services Mobile Device Photos	
Challenges Due to Proliferation of Imaging	
<ul><li>Inconsistent &amp; inefficient acquisition workflows</li><li>Clinical decisions based on images that are not retained</li></ul>	
No way to collaborate with colleagues     Risk of compliance audit findings (HIPAA, CMS, etc.)	
<ul> <li>Descriptions lack meaning and are inconsistently assigned</li> <li>Unprotected patient health information</li> <li>Images are scattered throughout the EHR</li> </ul>	

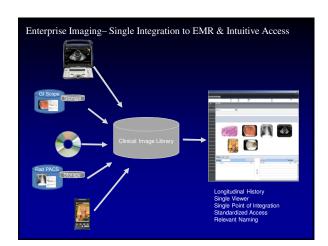
### Common "Solutions" to Solve the Challenges

- Use radiology workflow in non-radiology areas
- · Prohibit the use of mobile devices
- Copy & paste images into encounter/progress notes
- Print images & scan into medical record
- Print images & store in physician's office record
- Email or text images to colleagues

## Specialty Diagnostic Systems – Managed Data GI Scope Goldmalmocoy GRad PACS Ophthalmocoy Flad PACS Over PACS Storage Matched with patient demographics and other relevant meta data Secure, HIPAA compliant storage Possible access within the context of the patient's EMR









Display Only Relevant Images in the EHR	
Be thoughtful when designing orders: Hide images that need to be retained but are rarely needed for reference.	
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Standardize Naming Conventions & Assign Consistently  Image description naming conventions should be specific but not too specific. Limit the number of similar descriptions.	
too specific. Limit the number of similar descriptions.	
Companion (Companion)	
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Ensure Appropriate Meta Data Assignment	
Require the use of a DICOM Modality Worklist (patient worklist)	
during image acquisition.	

Involve Users in the Acquisition Workflow Design  Develop physician and other process champions to increase	
workflow adoption and user satisfaction.	
Image Exchange	
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Imaging is no longer contained within the boundaries of a single health care system.	
GIC CO	
Otto Cong Cond	
Pour Pour Pour	-
Definition  The ability to efficiently access, view and share images between	·
hospitals, physicians and patients.	-

