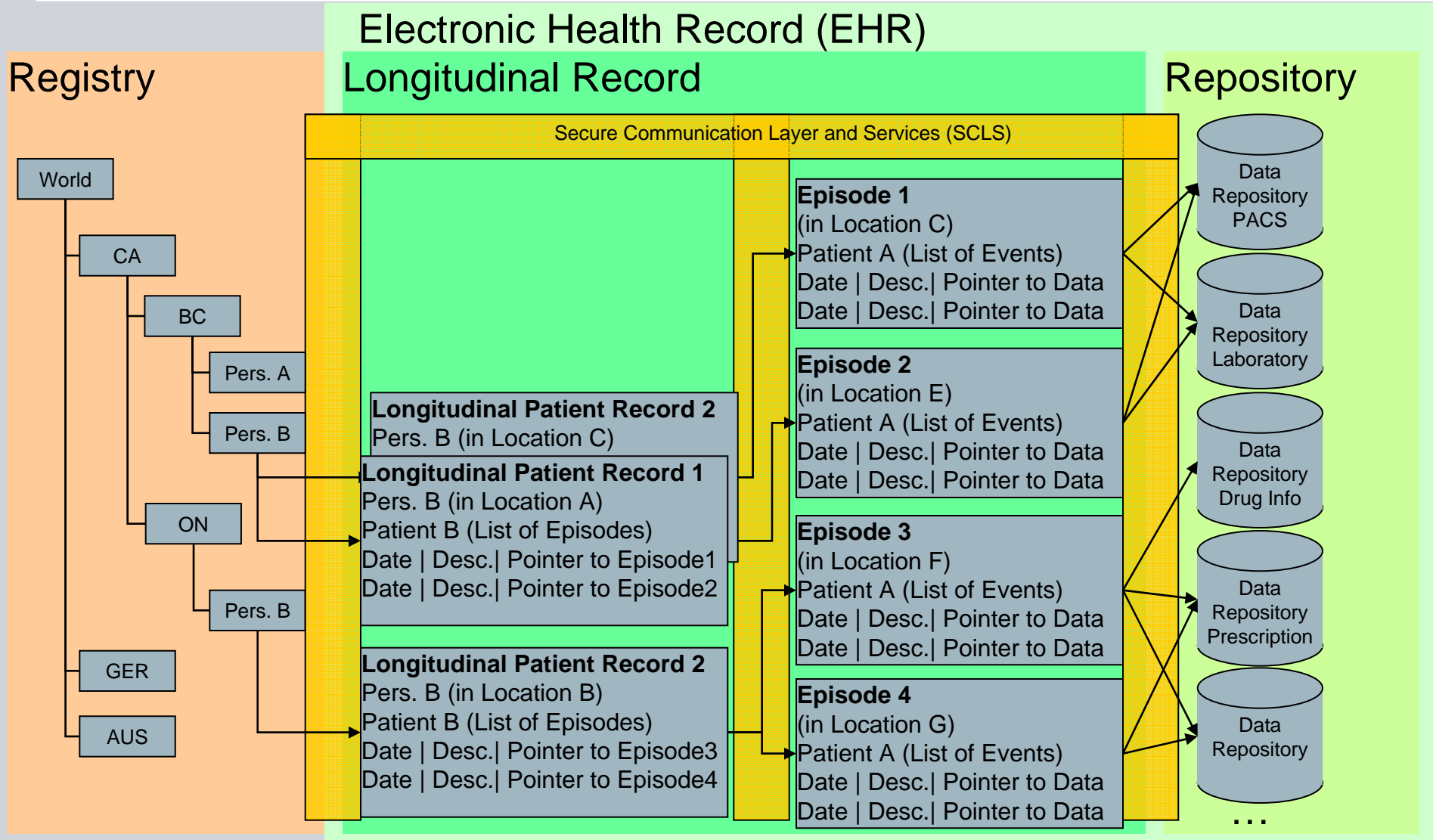
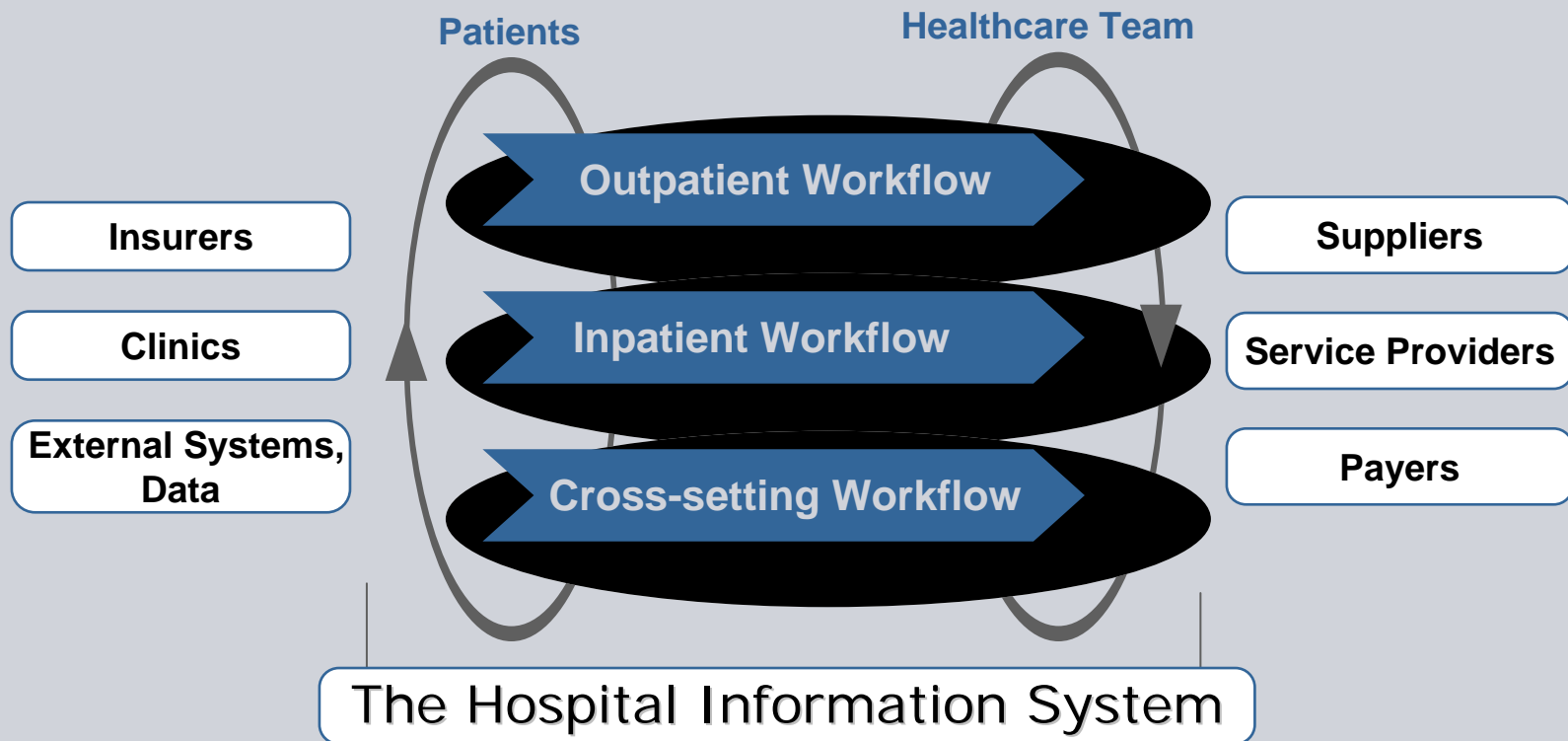


Where are the Data in the Repository coming from?



The Hospital, one major Producer of Information

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Hospital Information System has to meet User Demands

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Customer demand	Customer value	The technical solution
Want to see my desktop	Roll based, work list driven and intuitive use across the hospital or enterprise	Flexible user specific log-in
User-friendly flexible front end	Easy access from anywhere at any time like WEB but with rich desktop Applications	Rich Internet Application
Everything at a fingertip	Easy handling of Complex Orders , Alerts, Warning, notes. Seamless delivery of Care	Special Design for work of Physician and Nurse

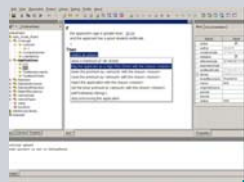
Hospital Information System has to meet CFO and IT Department Demands



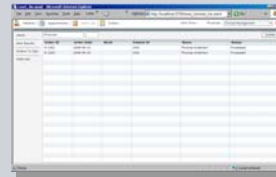
Customer demand	Customer value	The technical solution
Optimize the use of Resources	Reduce Complexity of Tasks and Maximize Revenue and Patient Satisfaction	Multi-Resource Scheduling
Flexible solution	Fast execution of customer requests for new, modified features	Service oriented Architecture with the possibility to create Extensions as requested
Easy operation	High Data integrity, lower cost to operate	Single integrated Database

The Hospital Information System Has to Adapt to How the Healthcare Enterprise Works

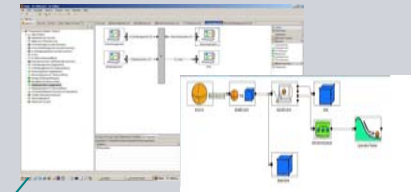
SIEMENS



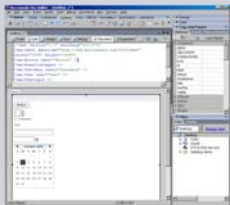
Add Rules



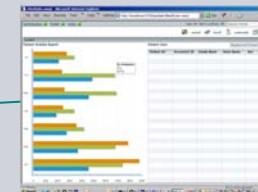
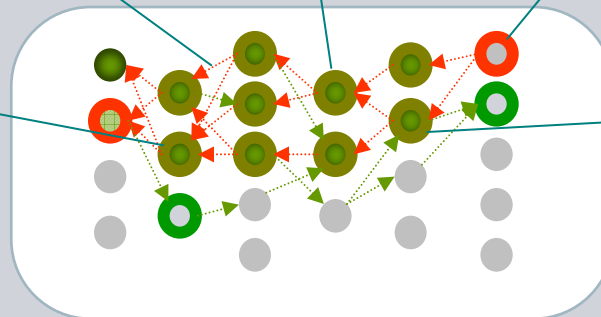
Extend Hospital functions
with service centers



Integrate Systems, Devices
Enterprise Applications
Extend Workflow



Manage Clinical
Documents and
Templates



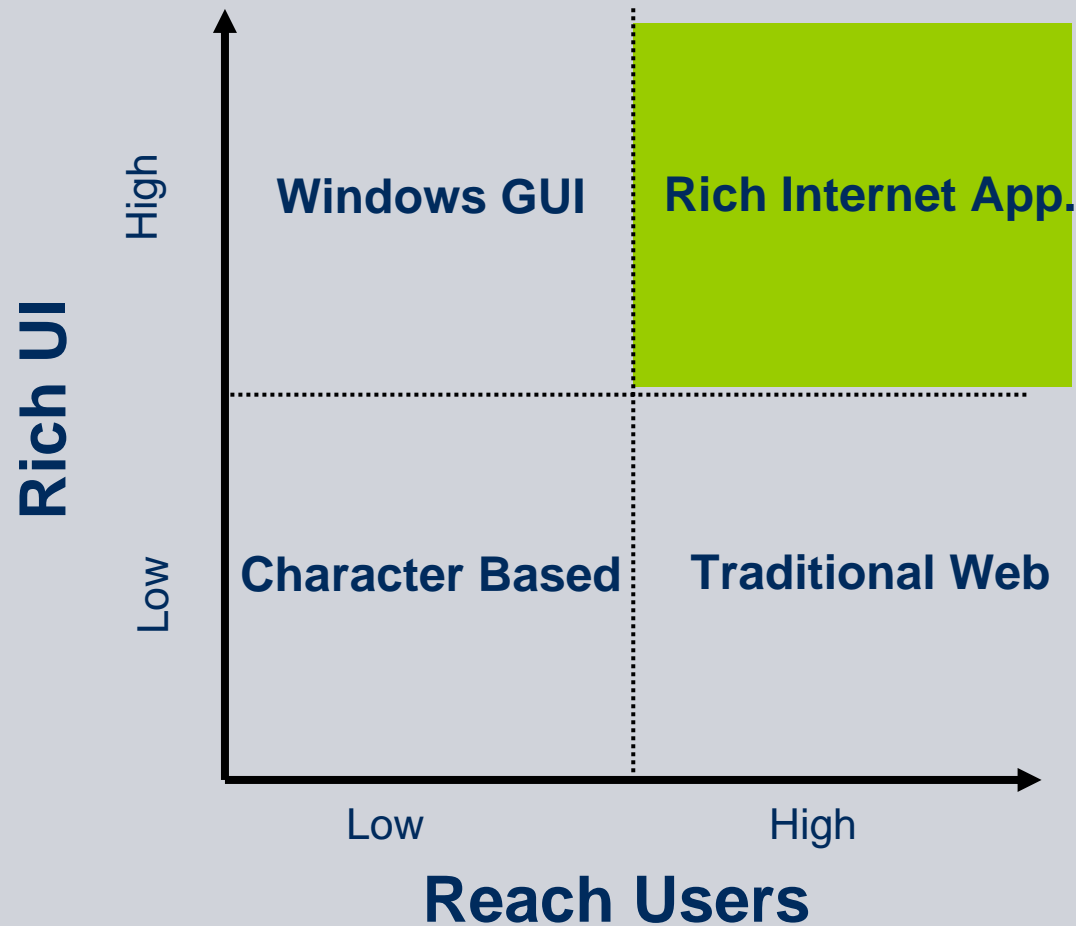
Add reports and analytics

The HIS solution has to offer adaptable tools for managing the extended healthcare enterprise.

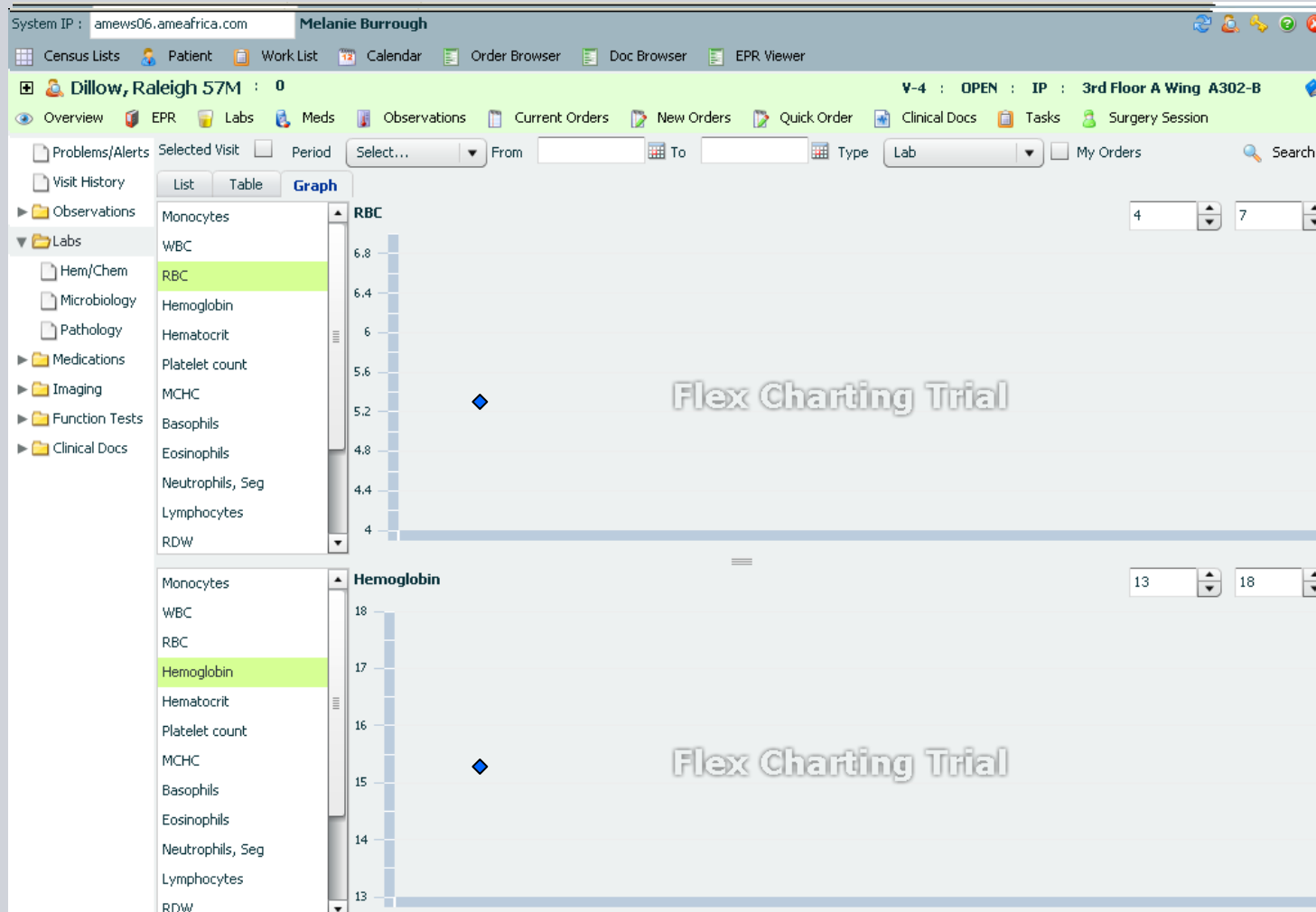
A New Paradigm is requested

Traditional HIS		Adaptable Business Process Management
Linear, passive		Manage processes
	Collect data	Track, monitor, drive next steps
	Report results	Automatic notification & escalation
	Manage orders	Manage & monitor clinical best practice
	Capture documentation	

Available Technologies (User front end)



Display Clinical information



Clinical Documentation/Report - Visit related

Naidoo, Candy 46F Patient ID: **45168** Visit ID: **V-55**

Acute abdomen

Acute Abdomen

History of abdominal pain Within last 3 hours
 3 – 6 hours
 6 – 12 hours
 12 – 24 hours
 More than 24 hours

Vomiting Absent
 Less than three times since onset
 More than three times since onset
 Nausea present all the time

Frequency of motion Has passed normal stools
 Small frequent watery stools
 No stools passed since onset
 Habitually constipated

Pain details Located in lower abdomen
 Located in upper abdomen
 Cannot localise
 Generalised pain all over abdomen

Palpatory findings-Tenderness McBurney's point

Percussion findings Normal
 Increased resonance

Auscultation findings Normal bowel sounds
 Increased bowel sounds
 Borborygmi

PR findings

Final Clinical Diagnosis Acute Appendicitis
 Renal or Ureteric colic
 Strangulated hernia
 Other

Other Clinical notes Swelling at the Inguinal hernial orifice

Close Update Sign

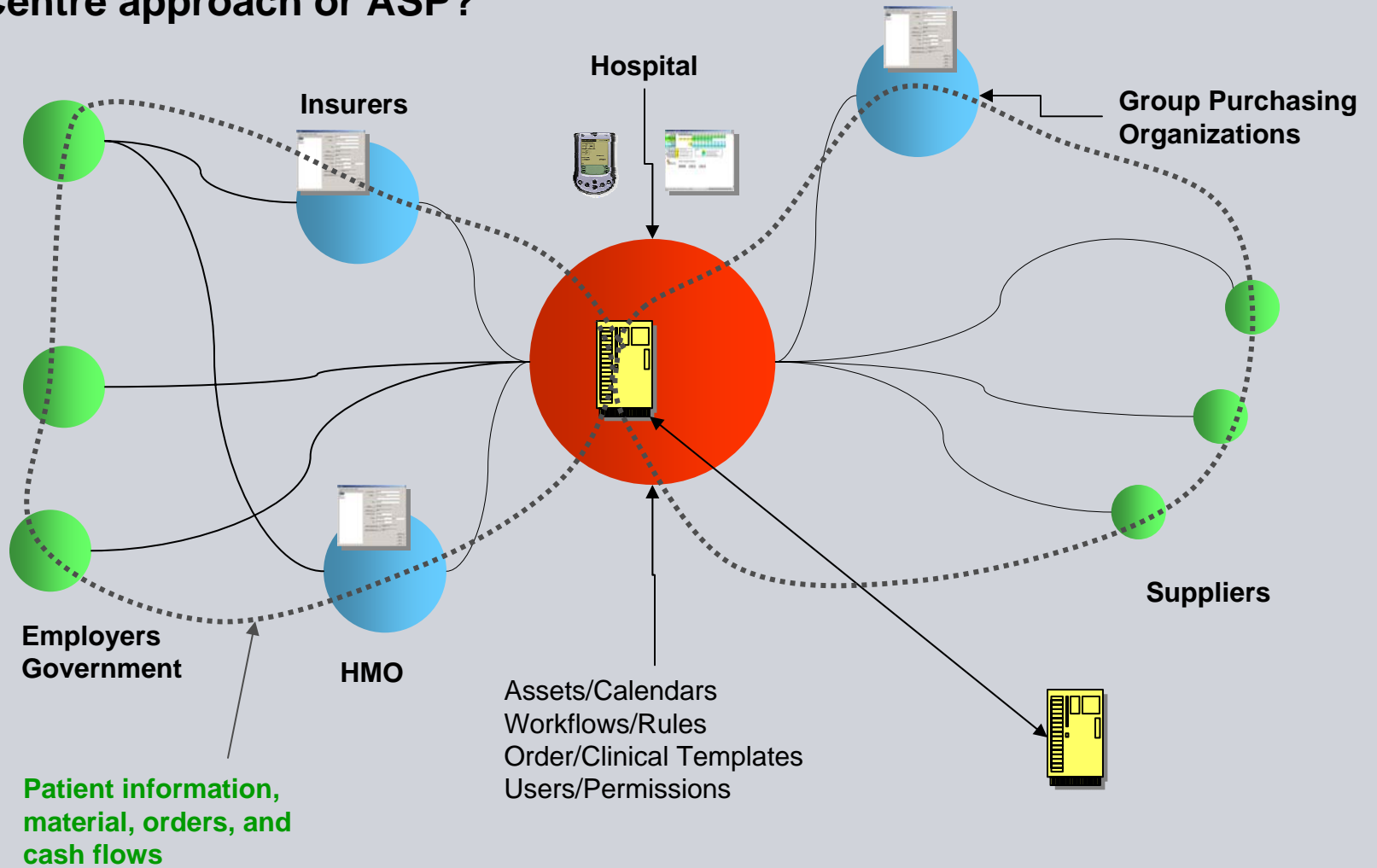
Summary: The Modern Information System in the Hospital or across an Organization should:

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- Based on industry standard health-care domain models
- Able to easily integrate with enterprise applications, automation systems, instruments, devices and sensors
- Coordinate and process information across multiple organizations, including complex, multi-site hospitals with escalation procedures defined
- Built in powerful business process management and rules engines to define complex workflows with flexible rules for decision support
- enable Users to interact in diverse work settings, using different interfaces and front-ends such as browsers, PDAs, and mobile devices

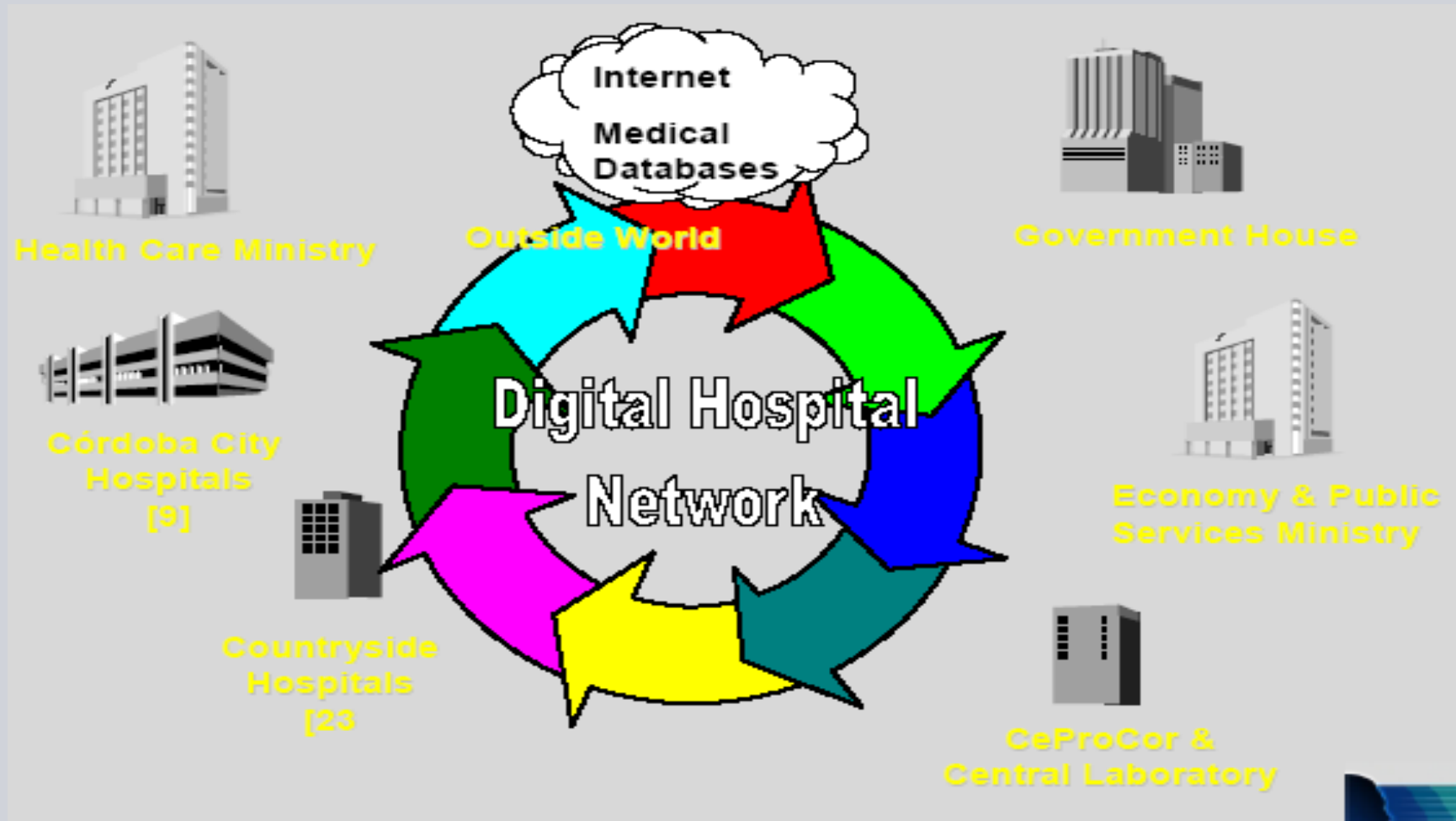
How to make the Deployment?

Data Centre approach or ASP?



Example 1: 'Red Para La Salud' with Data Centre Province of Cordoba, Argentina: 17 hospitals live

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Example 2:
Siemens Medical Solutions Health Services Malvern

SIEMENS



Siemens Medical Solutions Information Systems Center hosting 30 Applications



The ISC is the healthcare industry's most sophisticated network operations center for the remote hosting of applications.

Offering multiple connectivity options—including leased lines, high-speed Internet, intranet, and Virtual Private Networks—the ISC utilizes the most advanced technology to provide 24/7/365 reliability and, in many cases, sub-second response time.

150,000,000+ daily health care transactions

99.998%+ network availability

180+ Terabytes of online storage

1000+ health system sites supported