Health and Social Affairs
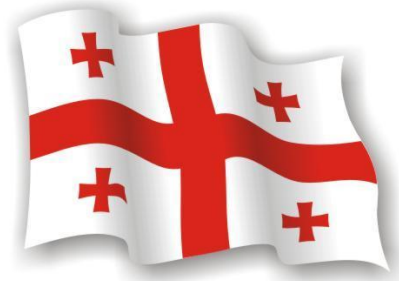
Difficult Times for Healthcare

Providers

- Quality of care and patient safety
- Regulatory compliance (HIPAA)
- Reduced reimbursements
- Application integration
- Staffing issues

Insurance

- Cost pressure
- Regulatory compliance
- Plan consolidation
- Product innovation

Industry Pains

- Rising costs
- Staffing issues
- Disconnectedness
- Quality

Pharma

- Patent expiration
- Drug development pipeline
- Payer pressure
- Sales force effectiveness

Demonstration of Vision

HMIS

- Started 2011
    - Three phases
    - Four components

- Interagency governance

- Private sector participation

- Utilize lessons learned from around the world

- Developed on international standards

HMIS Governance

Good Governance
Leads to Efficient Operations

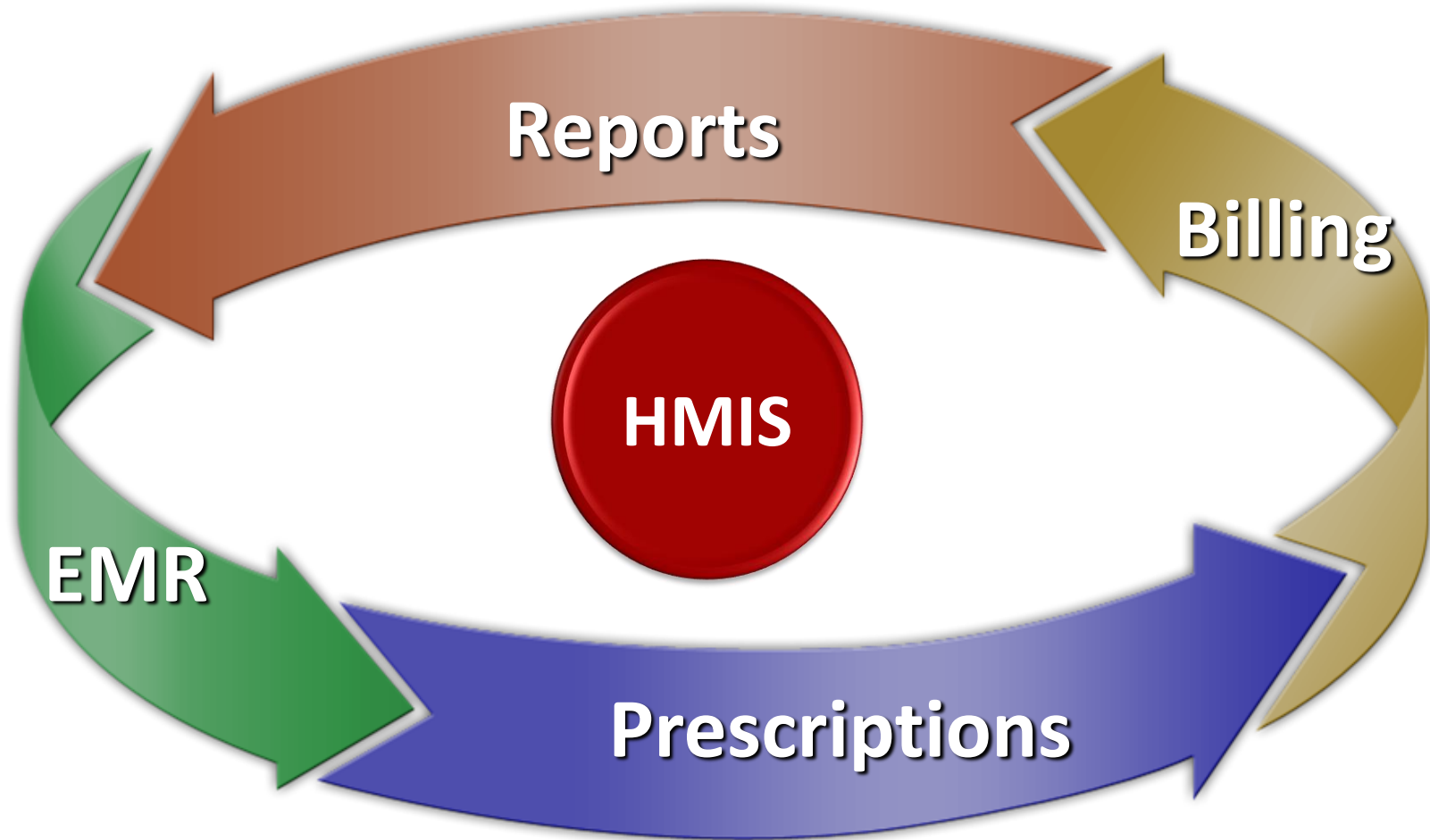## Governance Aspects

- Stewardship
- Strategy
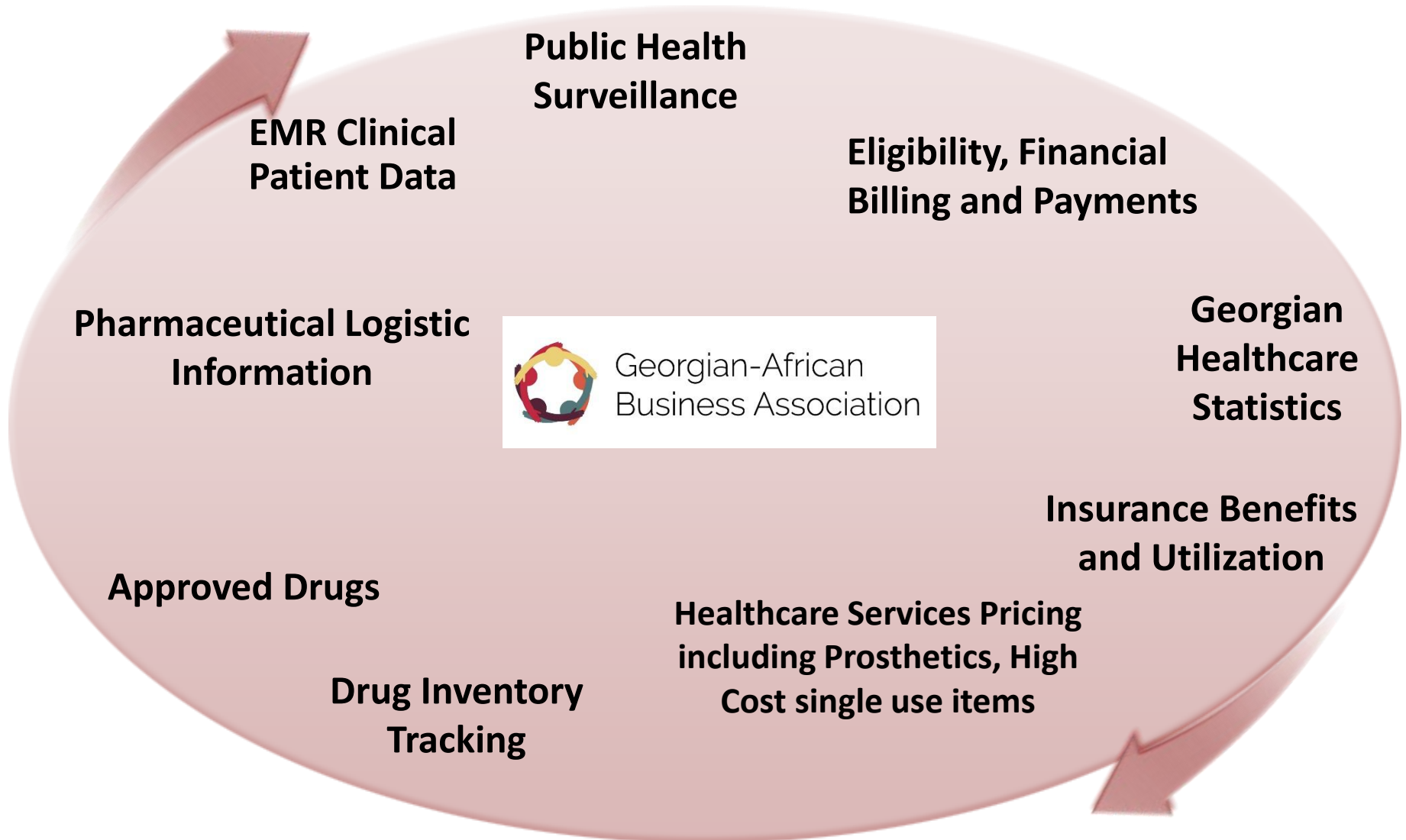- Vision
- Policies

Operational Aspects

- Maintenance
- Support
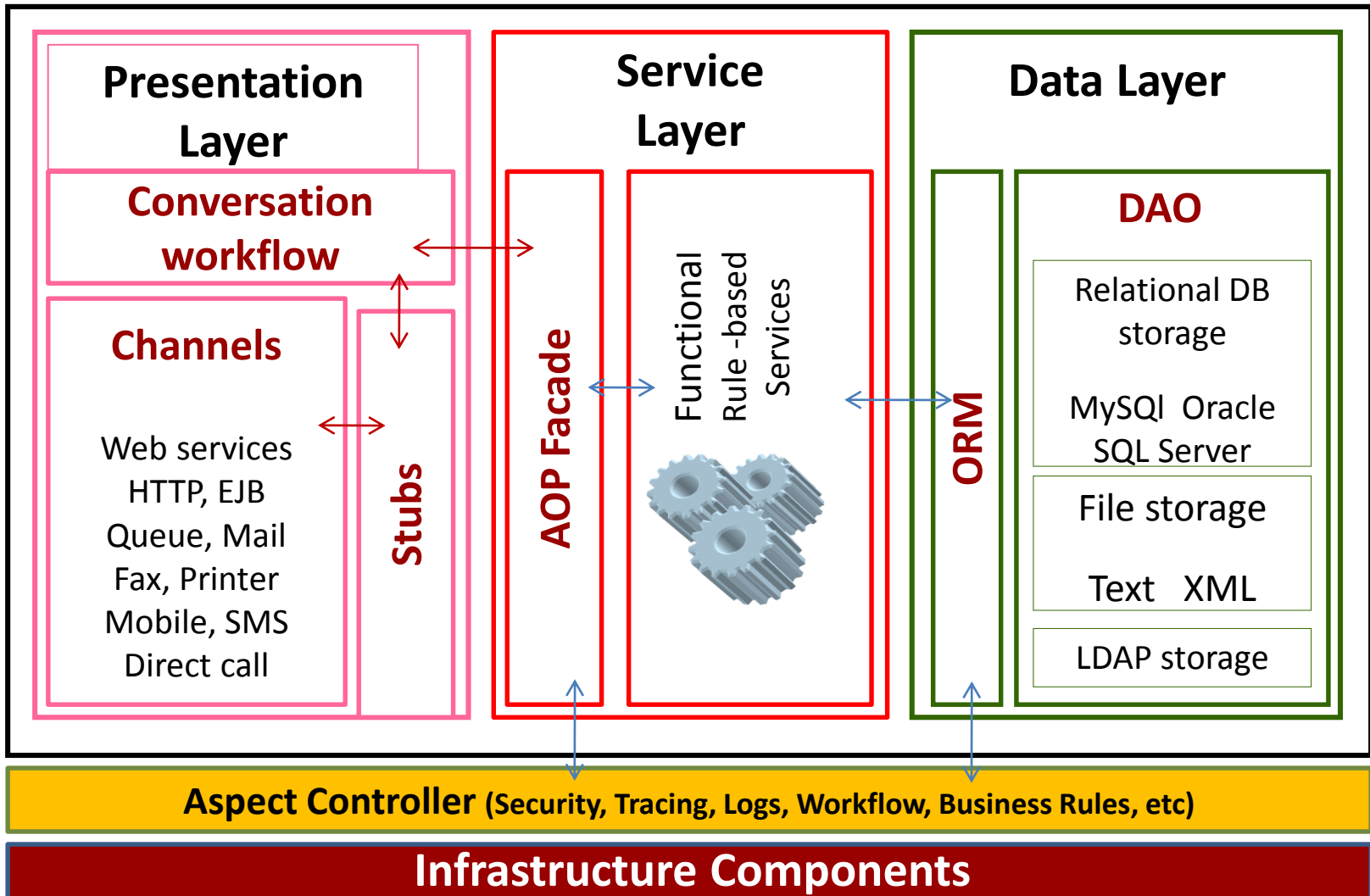- Updates

HMIS Main Components:
Parallel Development

HMIS

Public Health Surveillance

EMR Clinical Patient Data

Eligibility, Financial Billing and Payments

Pharmaceutical Logistic Information

Georgian-African Business Association

Georgian Healthcare Statistics

Insurance Benefits and Utilization

Approved Drugs

Healthcare Services Pricing including Prosthetics, High Cost single use items

Drug Inventory Tracking

HMIS System Architecture

Presentation Layer

Conversation workflow

Channels

Web services
HTTP, EJB
Queue, Mail
Fax, Printer
Mobile, SMS
Direct call

Stubs

Service Layer

AOP Facade

Functional Rule -based Services

Data Layer

DAO

Relational DB storage

MySQl Oracle SQL Server

File storage

Text   XML

LDAP storage

ORM

Aspect Controller (Security, Tracing, Logs, Workflow, Business Rules, etc)

Infrastructure Components
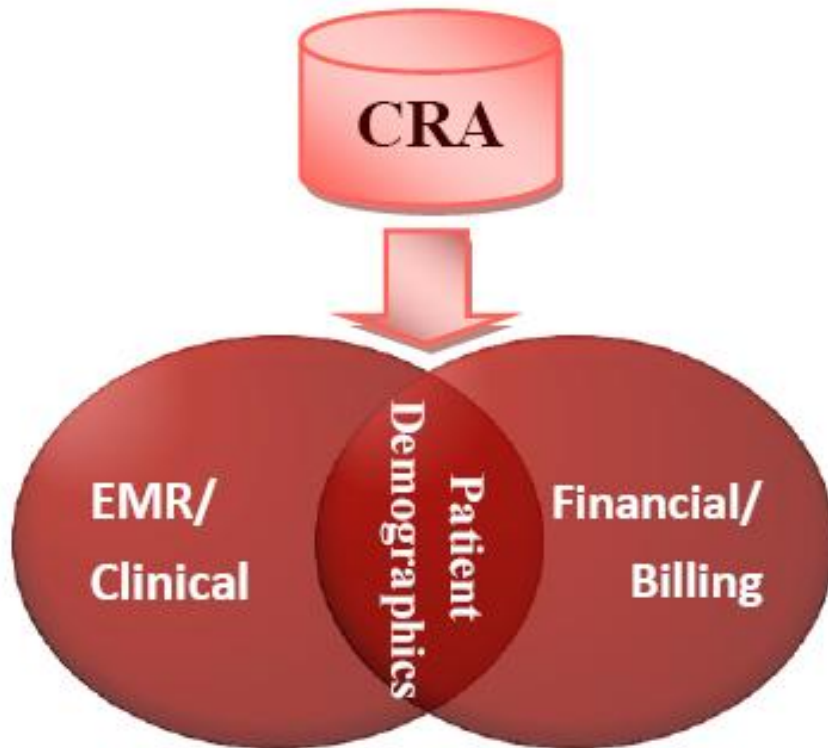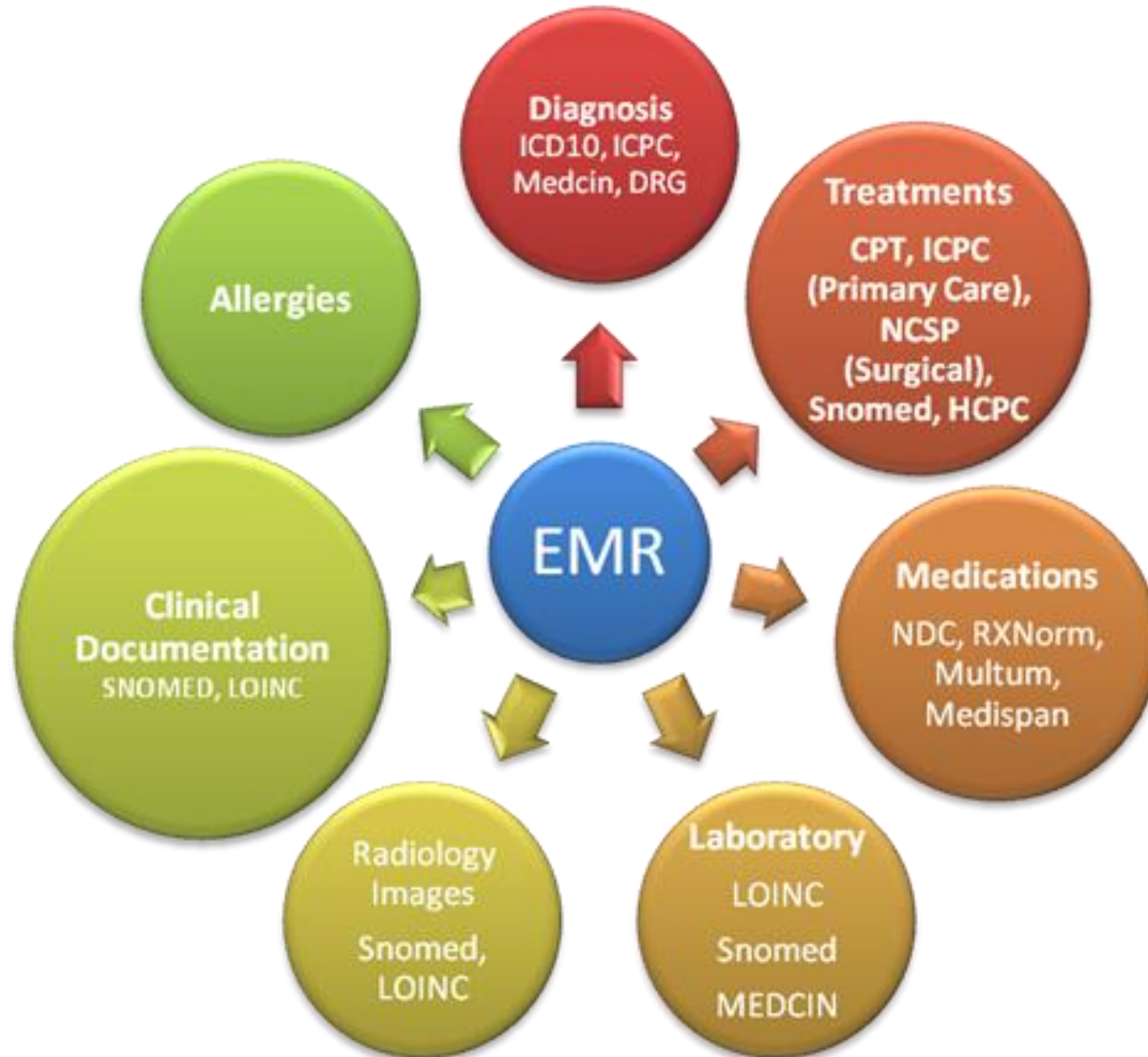
Build on Existing Information Systems

- Civil Registry
- Existing billing system
- SIMS
- Vaccination system
- TB/AIDS
- DETRA (surveillance)

HMIS International Standards and Architecture

Reporting, Analysis and Dashboards

Dashboards

Reports

Healthcare Data Repository (Clinical, Financial)

National EMR

National FIS

DATA EXCHANGE AGENCY

Standards

Web Services, HL7 Interfaces
Information Systems

State Agencies

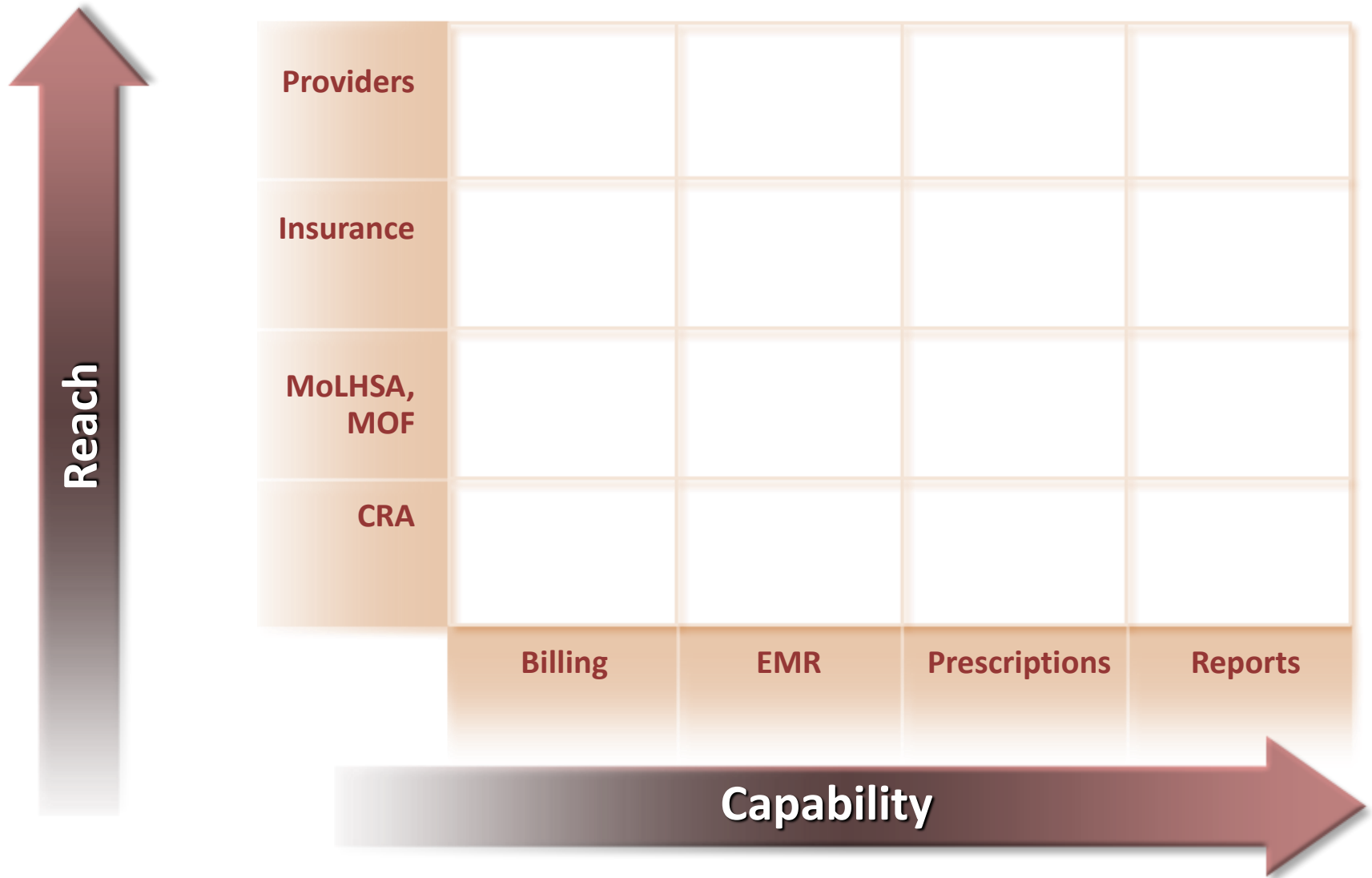**Insurance Companies**

Pharmacies

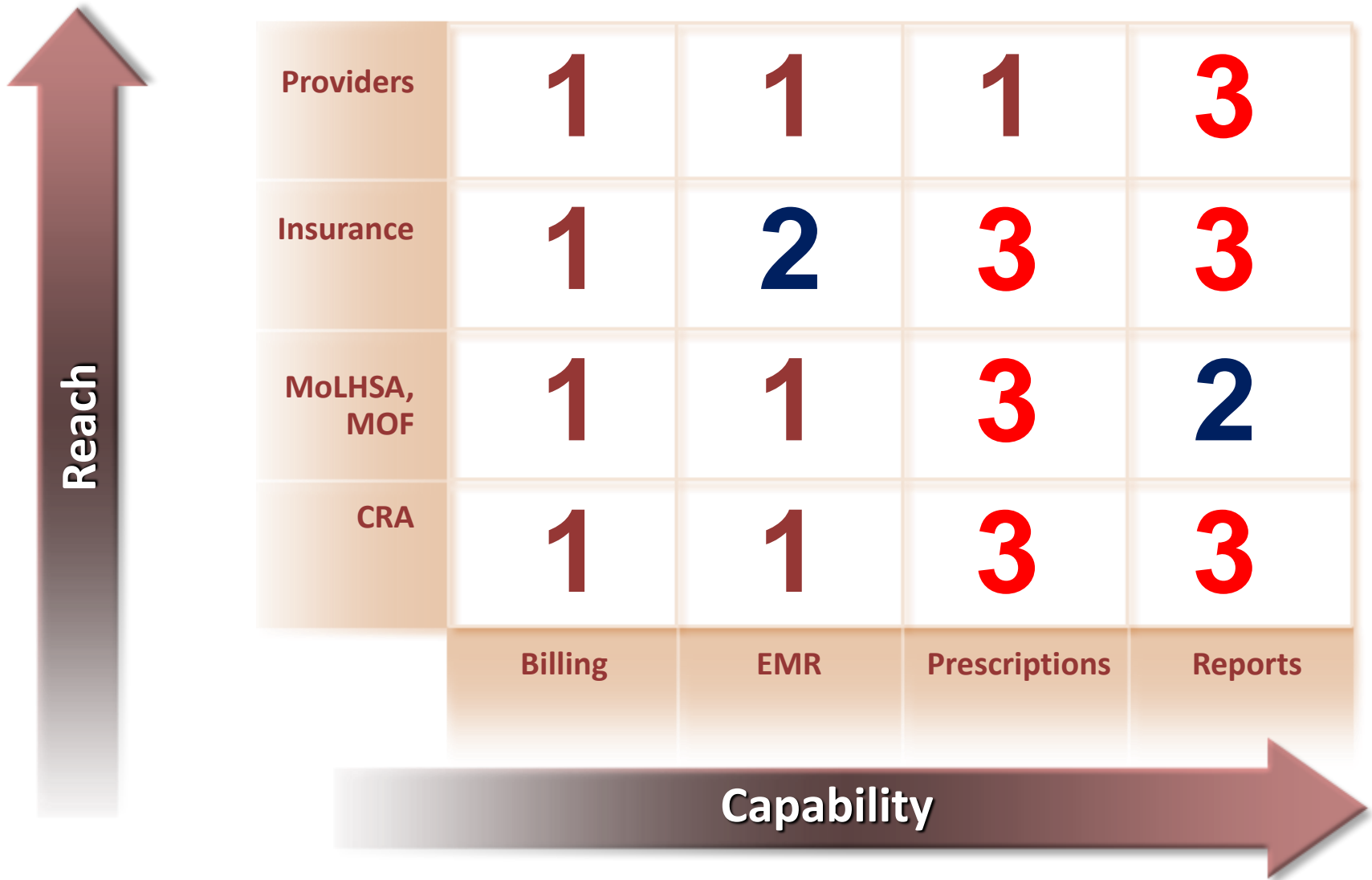**Pharmaceutical Companies**

Healthcare Providers (Hospitals, Clinics, Physicians)

Other Data Sources

HMIS Implementation Phases

HMIS Implementation Phases

	Billing	EMR	Prescriptions	Reports
Providers	1	1	1	3
Insurance	1	2	3	3
MoLHSA, MOF	1	1	3	2
CRA	1	1	3	3

Reach

Capability

In Conclusion

- Planning for success
- Using best practices from around the world
- Three phases – Four components - Parallel development
- Opportunity to lead and jump ahead!