

DEPARTMENT OF
HEALTH

*Edward G. Rendell, Governor
Calvin B. Johnson, M.D., M.P.H., Secretary of Health*

Deloitte.

Pennsylvania Department of Health

Electronic Laboratory Reporting (PA-ELR)

2004 Public Health Information Network Conference

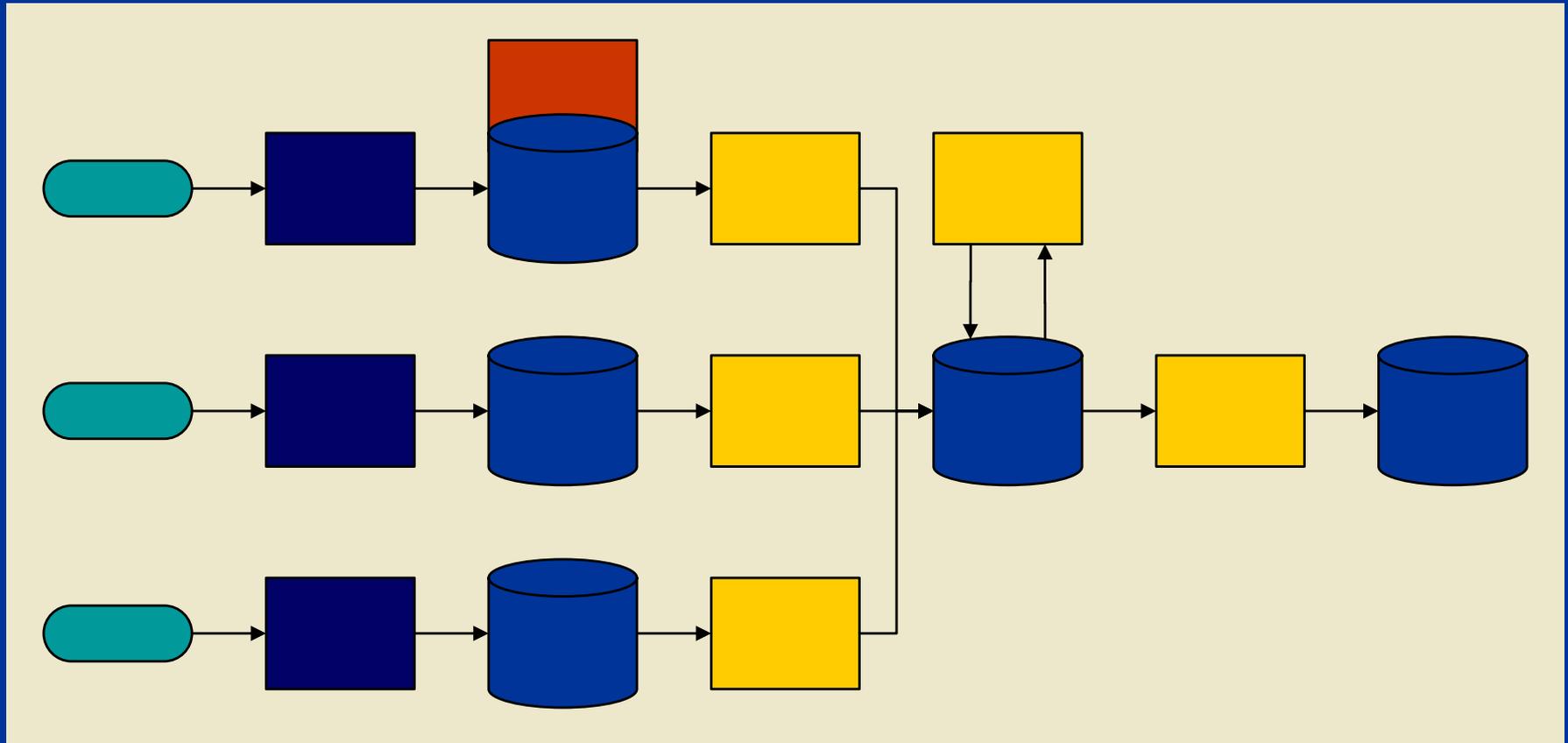
Topics

- Overview of Current ELR Process
- Outline of PA-ELR Application
- Challenges of PA-ELR Implementation

Overview of Current ELR Process



Current ELR Process



Current ELR Process

- A limited number of participating laboratories
- Numerous automated/manual components
- Data correction/recoding is labor intensive
- Can be cumbersome to manage

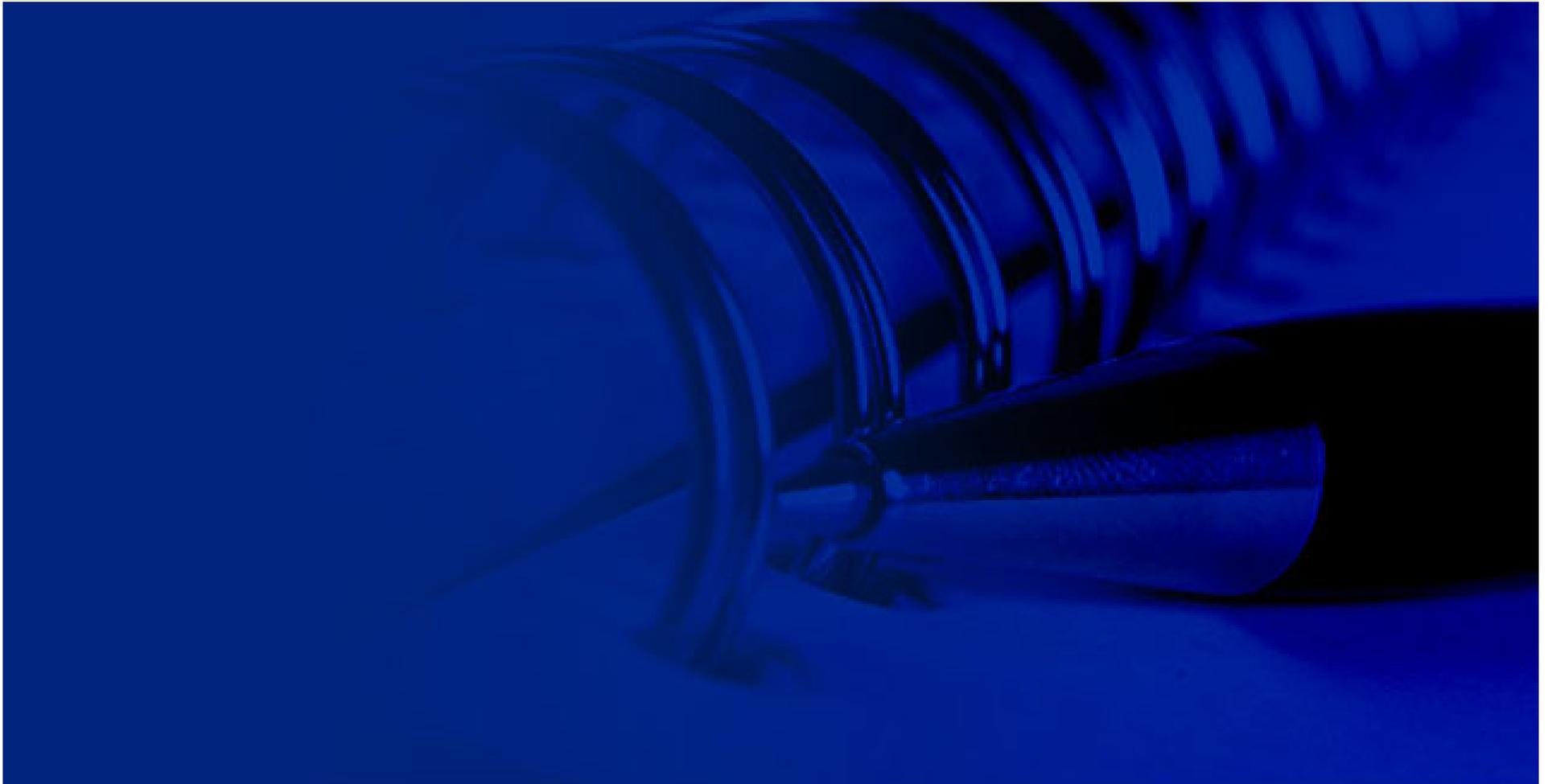
PA-ELR

- The “next generation” of laboratory reporting
- Integrated, streamlined, scalable, and secure
- Will utilize HL7 standard messages
- Will automate many correction algorithms
- Will provide two methods to submit results
- Will incorporate HIPAA requirements
- Data will be electronically signed

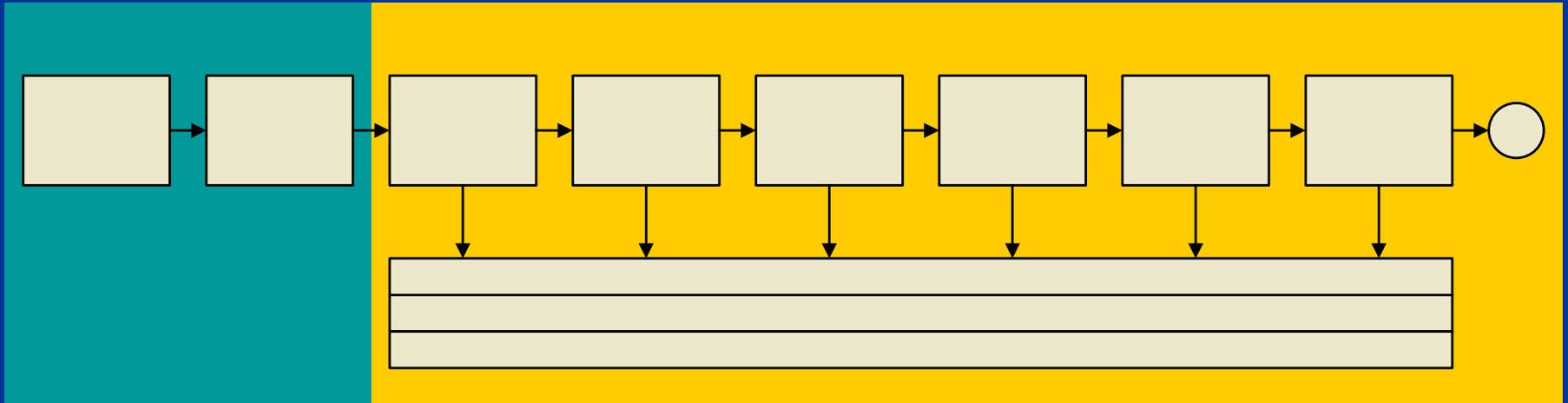
Goals of PA-ELR

- Reduce reporting cycle times
- Improve response times for investigations
- Increase data integrity through validation
 - Completeness of data
 - Accuracy of data
- Improve timeliness of data to “consumers”

Outline of PA-ELR Application

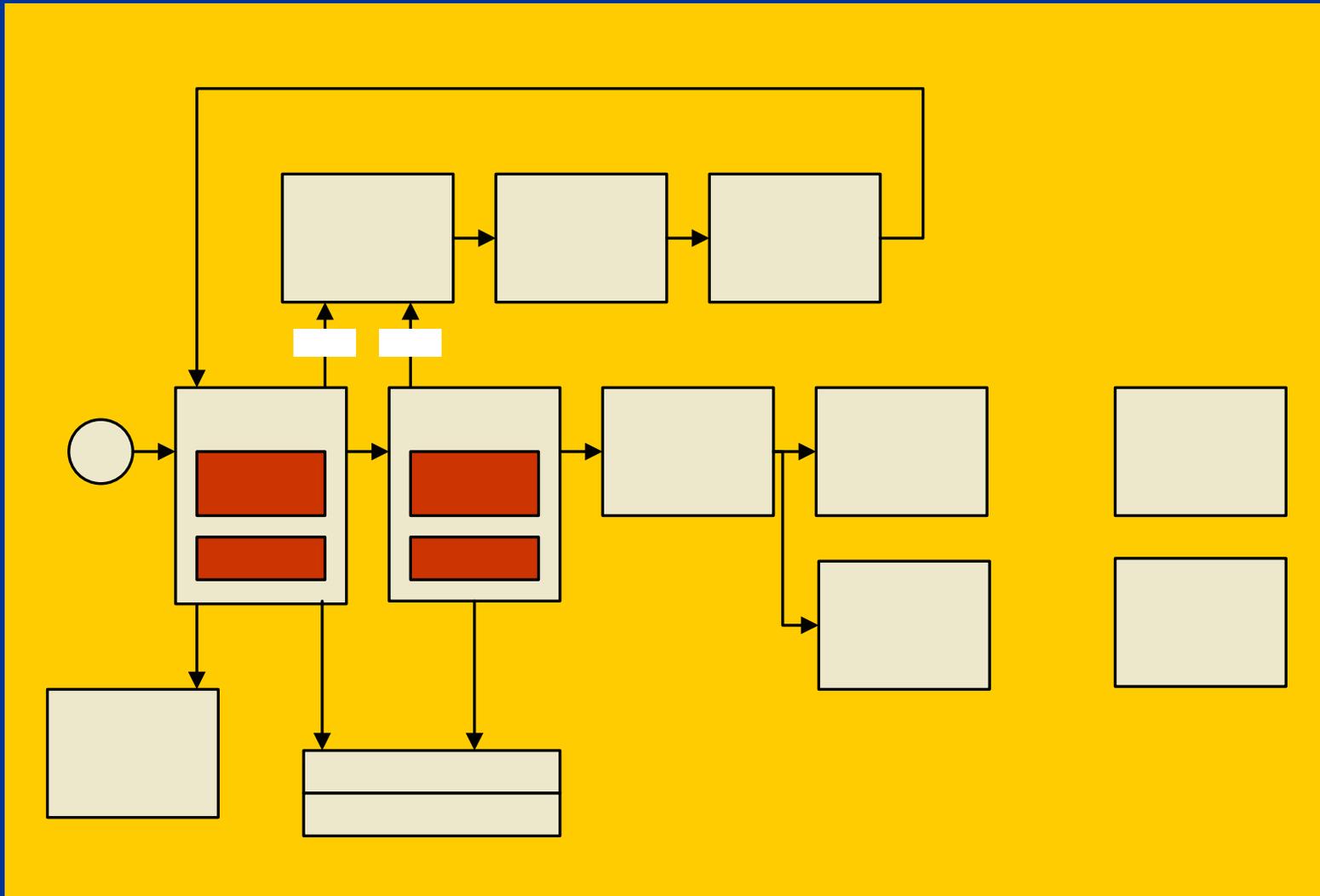


PA-ELR Business Flow

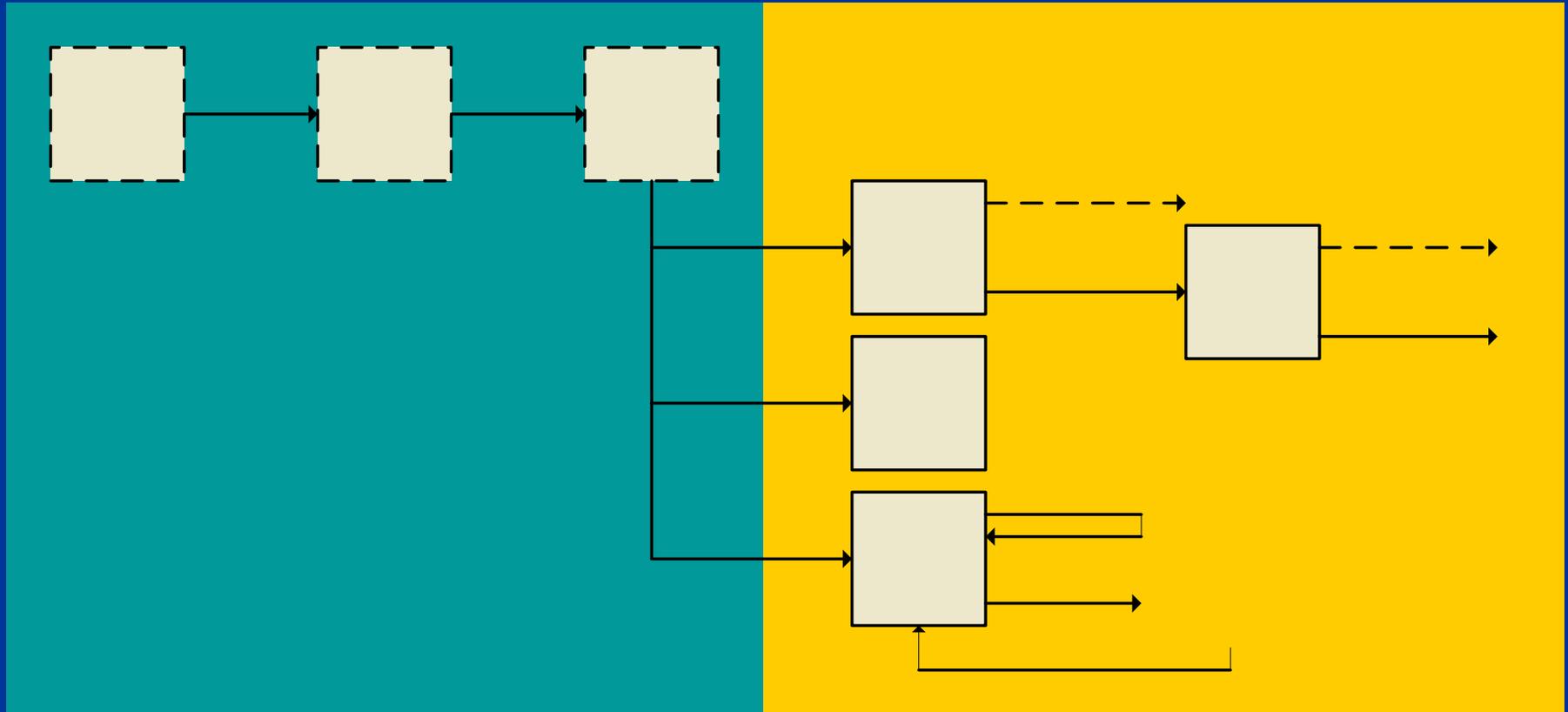


Trading Partner

PA-ELR Business Flow (cont.)



PA-ELR Screen Flow



PA MEDSS

Login

PA MEDSS

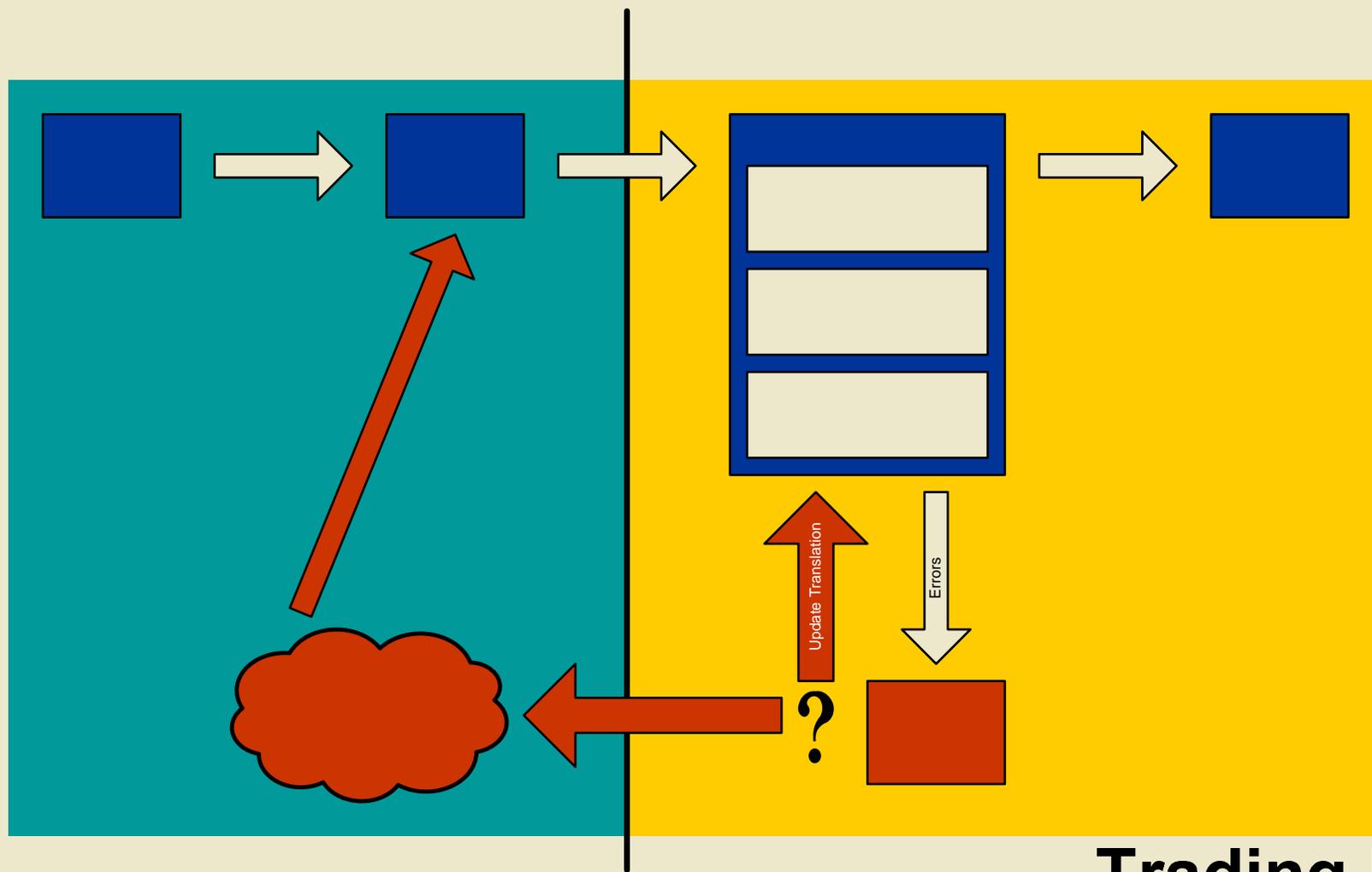
Challenges of PA-ELR Implementation



Message Formats & Coding Schemes

- Usage of the HL7 format
- Usage of standard data vocabularies
 - LOINC
 - SNOMED
- Need for natural language processing
- Completeness of information provided by labs

Responsibility for Error Handling

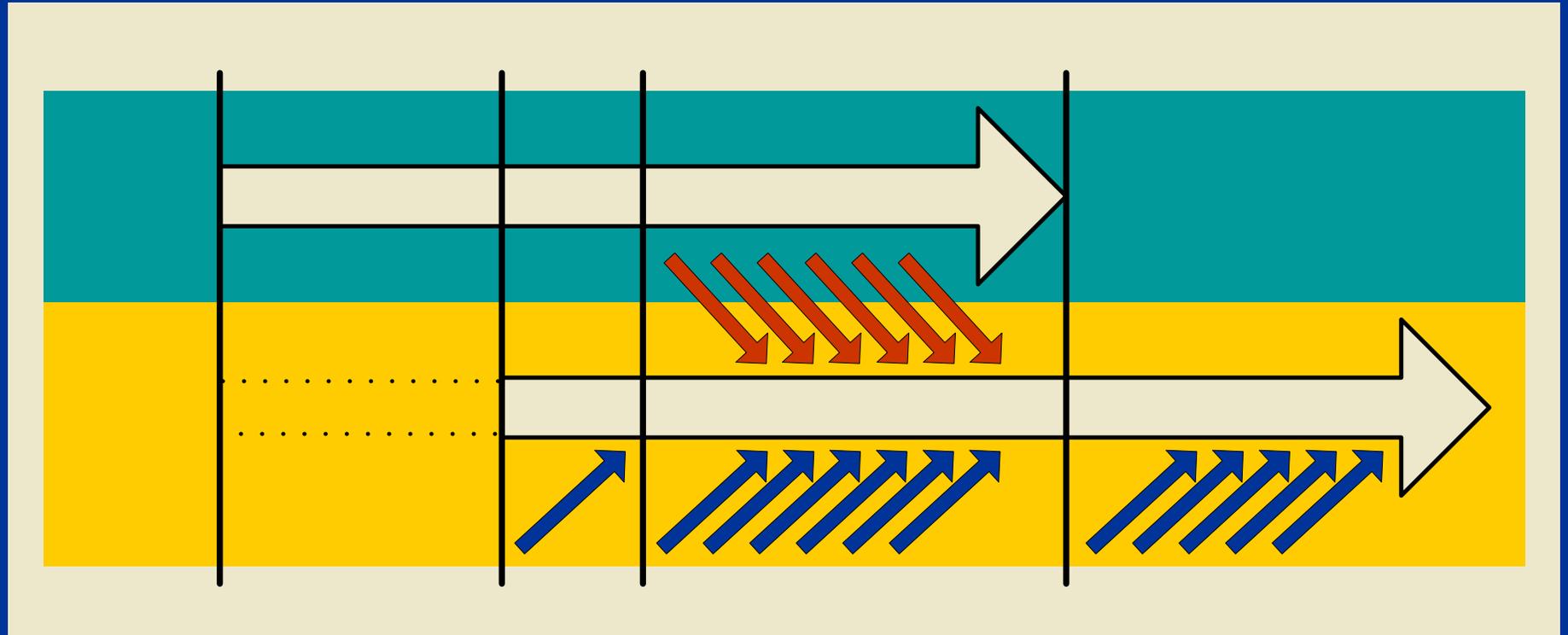


Trading Partner

Communications and Outreach

- Involvement of project stakeholders
- Identification of Trading Partner pilots
- Communications with Trading Partners
- Continued involvement of Trading Partners
- Value to Trading Partners

Approach and Timeline for Roll-Out



Feb 2004

May

Critical Success Factors

- Establish “core” PA-ELR system
- Engage initial (pilot) trading partners
- Establish trading partner agreement
- Exchange 3,000+ messages during testing
- Load the system for performance/scalability
- Test messages for Epi, Lead, STD, and TB
- Establish trading partner “CIO” relationships

Presenter Biographies—Dr. Kirsten Waller

Kirsten Waller, M.D, M.P.H

Public Health Physician

Pennsylvania Department of Health

Presenter Biographies—Christopher E. Bair

Christopher E. Bair

Manager

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Christopher Bair is a Manager within the Technology Integration service area of Deloitte Consulting LLP. Mr. Bair provides systems development leadership, guidance, and support to clients in the Public Sector, specifically to both the Health & Human Services and Law & Justice segments. He is currently working at the Pennsylvania Department of Health as the Application and Testing Track Lead on their National Electronic Disease Surveillance System (PA-NEDSS) initiative. Mr. Bair has over 11 years experience in systems architecture, design, development, and implementation in both the public and private sectors. He joined Deloitte Consulting LLP in October 2000.

Mr. Bair holds a Bachelor of Science degree from Juniata College (Pennsylvania) and a Master of Business Administration from Lebanon Valley College (Pennsylvania). Prior to joining Deloitte, Mr. Bair was an application developer and project leader for the information technology division of a large electronics manufacturing company.