A National Look at Data Exchange Variation and Improvement Initiatives

Greg Faber

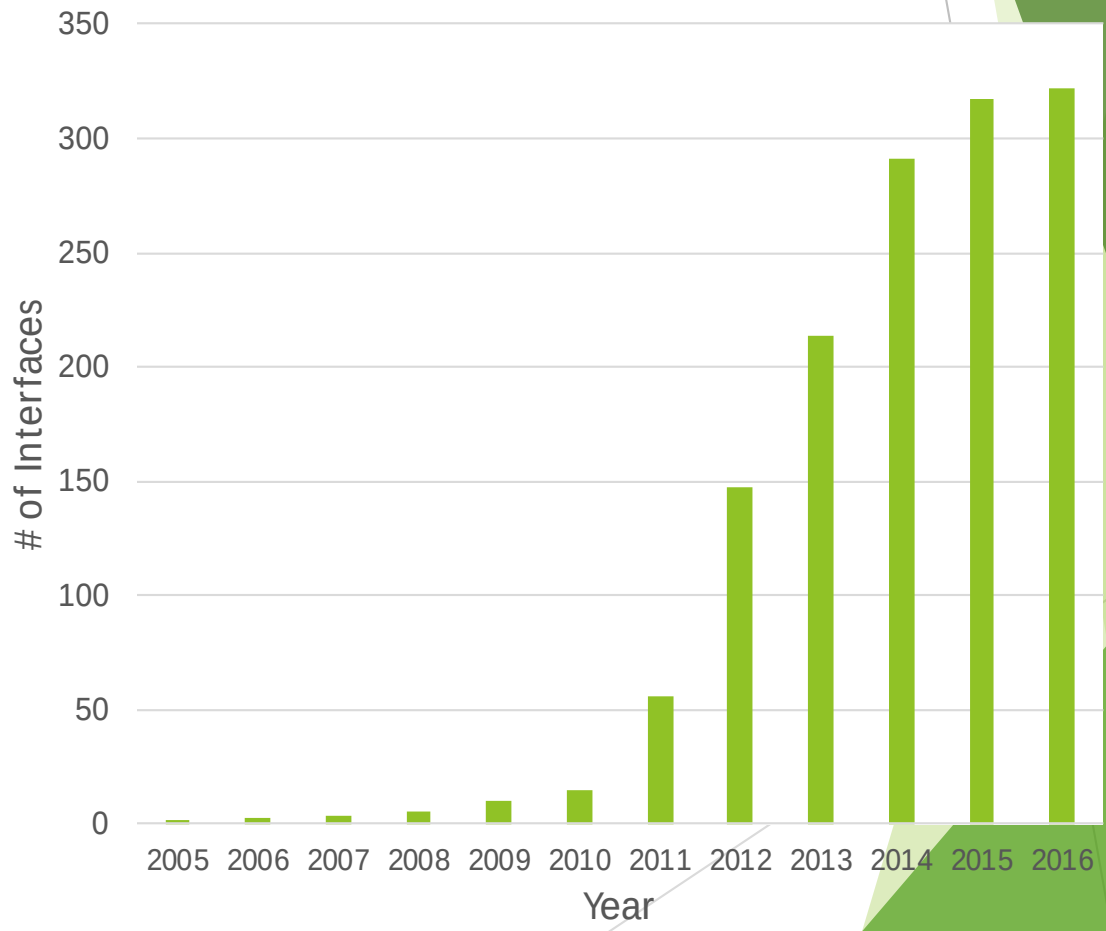
Nell Lapres

Overview of Epic

- 340 Total Live Organizations (National and International)
  - 50 States
- First Interface Go-Live:
  - Vaccination Administration – December 21, 2005
  - Vaccination Query – October 1, 2009
- Waived interface licensing fees

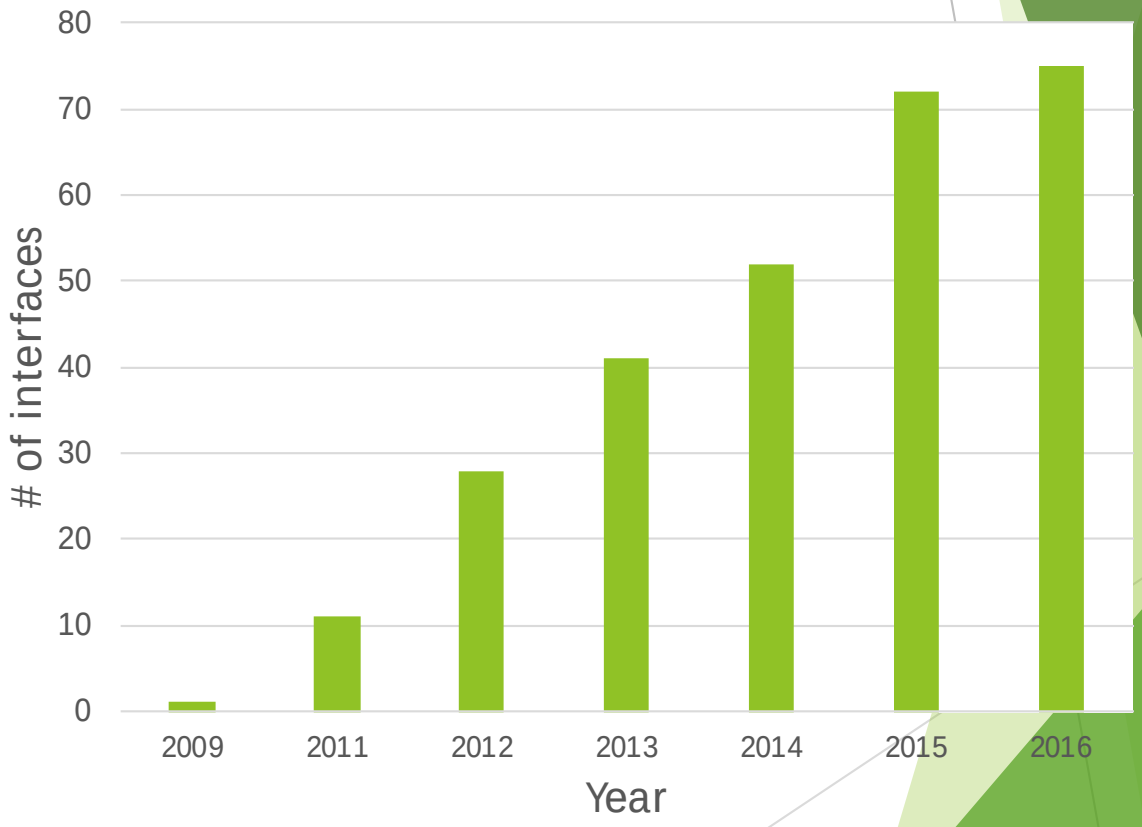
Interface Statistics – Vaccination Administration

- 322 Live Interfaces
  - California
  - Illinois
  - Ohio
  - Washington
  - Wisconsin
- 48 State Registries
- 4 City Registries
- >110 Million messages sent a year



Interface Statistics – Vaccination Query

- 75 Live Interfaces
  - Oregon
  - Pennsylvania
  - Wisconsin
- 24 State Registries
- 1 City Registry
- >75 million queries sent a year



Multiple Registry Integration

- Vaccination Administration
  - 47 Organizations
- Vaccination Query
  - 5 Organizations

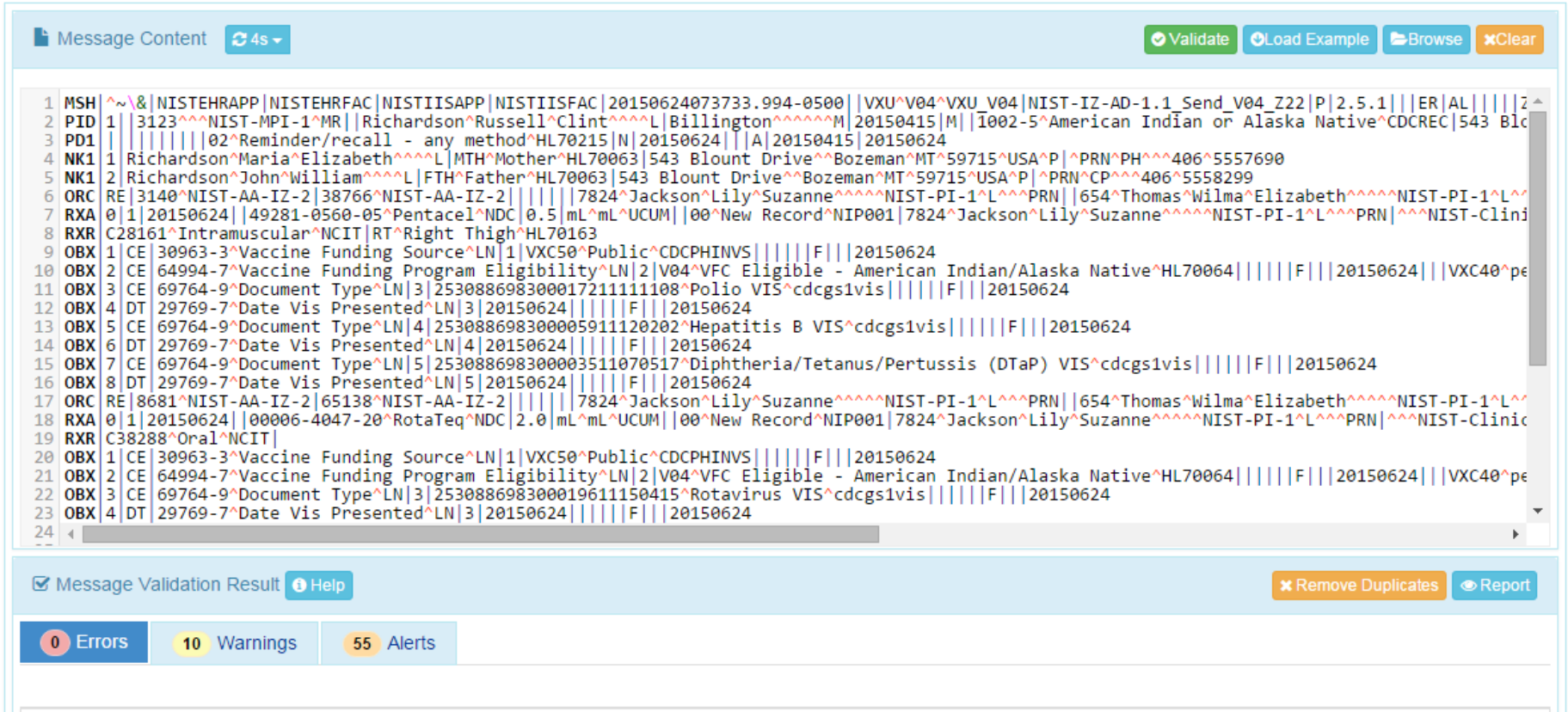
Epic Goals

- Healthy Patient Population
  - Complete and Accurate Patient Immunization Record
- Provider Decision Support Tools
- Streamlined and Intuitive End User Workflows
- Standard “Out-of-the-Box” Interfaces
  - Easy Integration with Registries
  - Simplified Support of Interfaces

Immunization Registries are an example of what is going right in Public Health.

Standardization

- CVX
- CDC WSDL
- NIST Tool



Opportunities for Feedback

- HL7 Immunization User Group Meeting
- HL7 Public Health and Emergency Response Work Group
- Standards and Interoperability Steering Committee Technical Workgroup

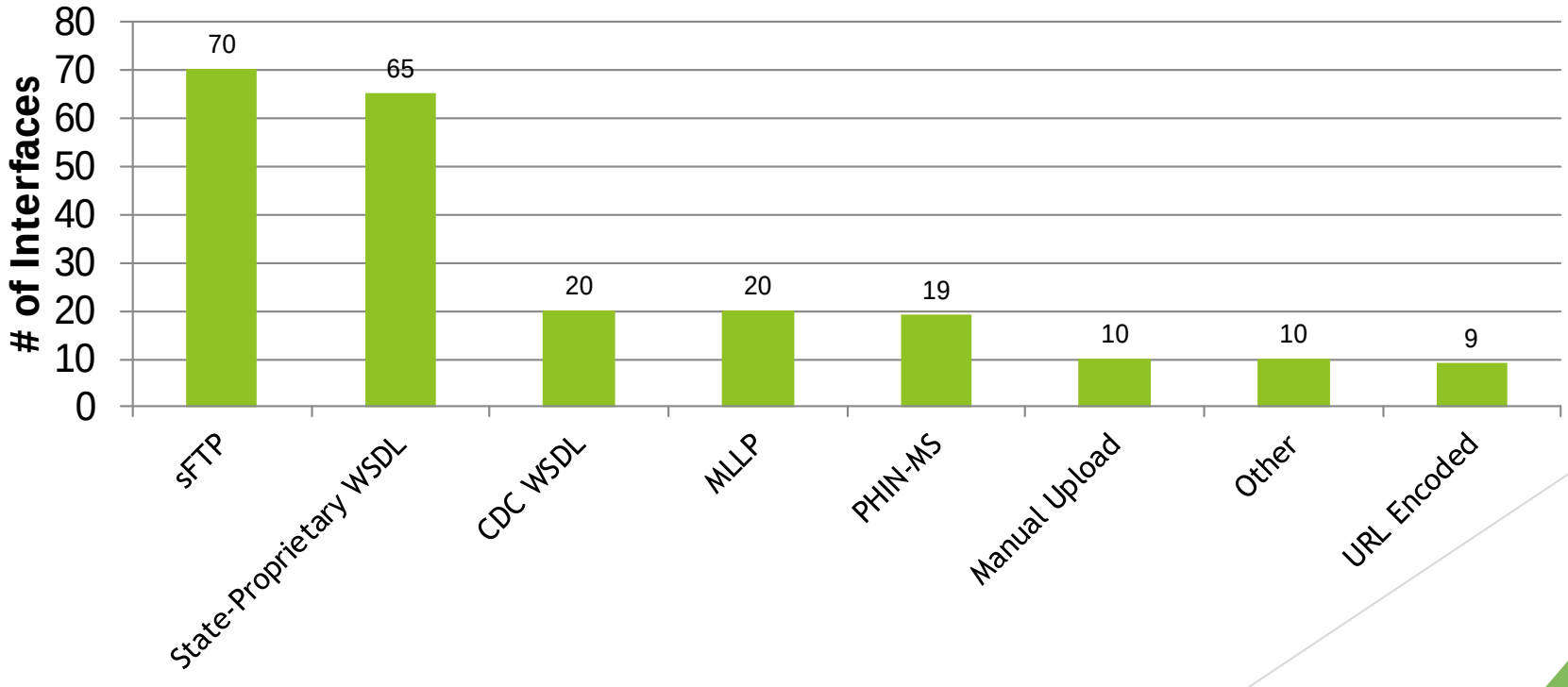
Health Level Seven®
INTERNATIONAL

Areas for Improvement – Standardization

- OBX Requirements
  - VFC for Adults
  - Adverse Reaction
  - Contraindications
- Opt In vs Opt Out

Areas for Improvement – Technical

- Communication Methods
  - CDC WSDL vs. State-Proprietary WSDL
  - Batch Files/Manual Processes



Areas for Improvement – Technical

- Specificity of Immunization Identifiers
  - Improvement when using NDC and CVX
  - Trade Name Complications

Areas for Improvement – Technical

- Registry Downtimes
  - Scheduled Downtimes
  - Improved Communication

Areas for Improvement - Workflow

- Providing Efficient Physician Workflows
  - Filing Query Response to Patient Record
  - Flu Clinic
  - Decision Support

Areas for Improvement - Workflow

- Provider Workflow Improvements
  - Lot Number
  - Vaccine for Children status
  - Baby Names

Contact Information

- Greg Faber – gfaber@epic.com
- Nell Lapres – nell@epic.com