IMPROVING TIMELINESS IN NBS

Health Information Technologies in the Texas

Newborn Screening Laboratory

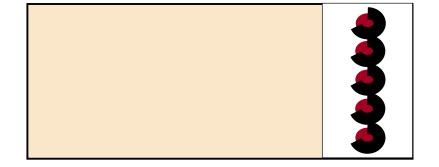
Rachel Lee



2015 SPECIMEN AND SUBMITTER VOLUME

■ 790,000 Specimens

- 404,000 Valid 1st screens
- 379,000 Valid 2nd screens
- 7000 Unsats



□ > 2100 Submitters

300 Hospitals

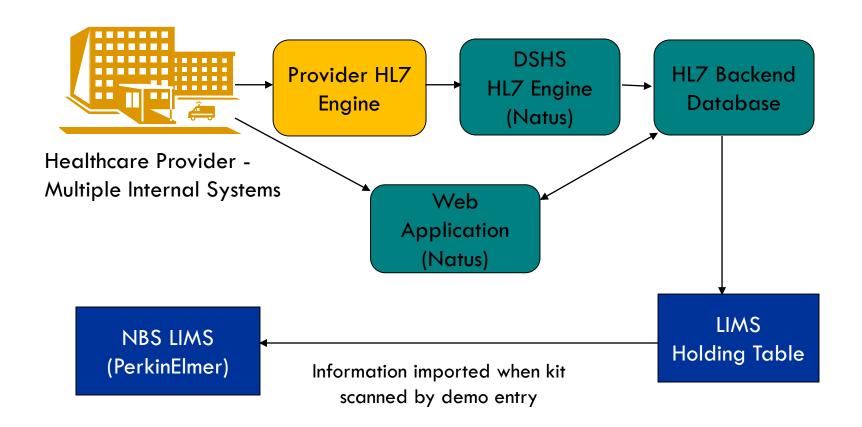
60% of specimens (100 to 12,000 specimens per year)

- 50 Birthing Centers
- 100 Independent Midwives
- 1650 Pediatric Clinics



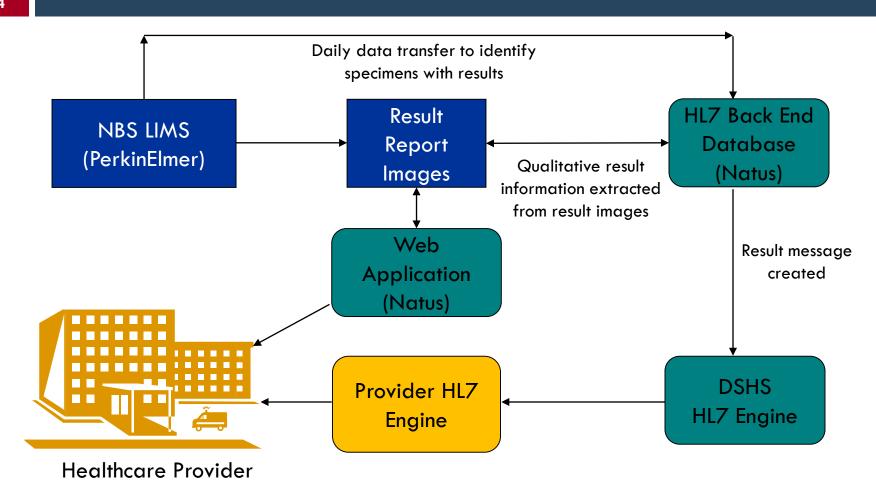


Order / Demographic Receipt





Result Reporting

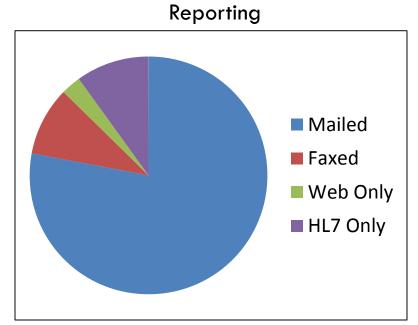




CURRENT STATUS - OVERALL

Test Ordering DSHS Entered Web Order HL7 - Web Combo Full HL7

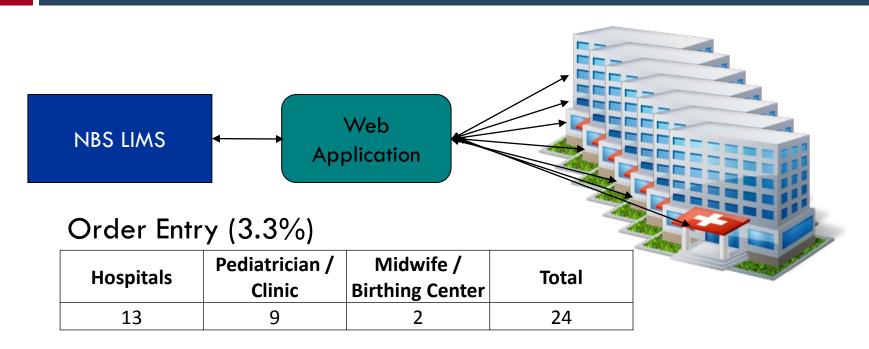
~105,000 per year (13.5% of NBS) Remote Ordering



~95,000 per year (~12.6% of NBS) Electronic Reporting Only



Current Status – Web Application



Results Access

- All NBS results available
- □ ~1800 Facilities with accounts
- □ ~225,000 views / year

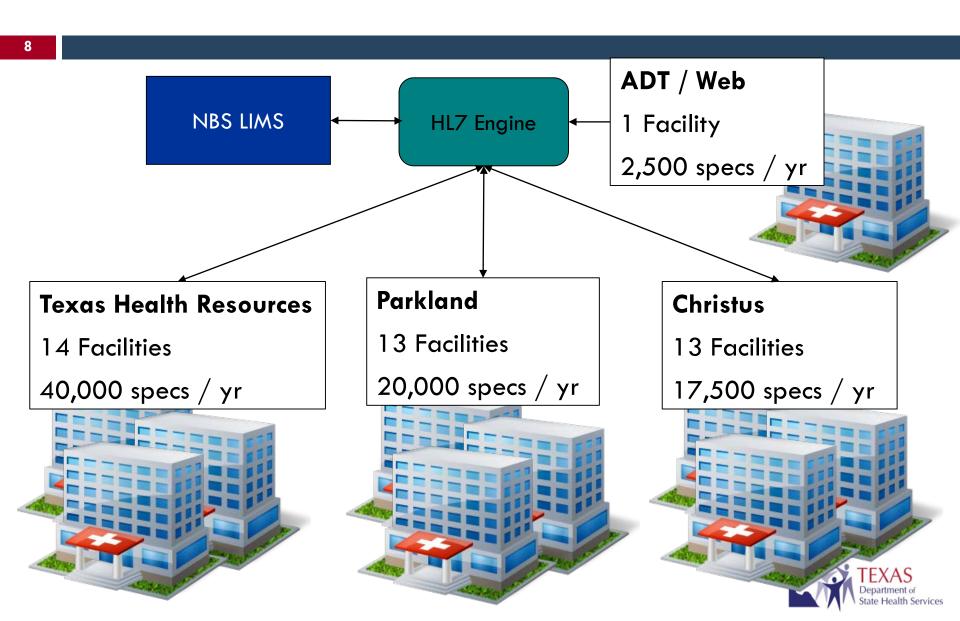


Benefits of Web Application

- Demographic Entry (Neometrics)
 - Eliminate hand-entry of fields
 - Auto-populate some fields
 - Require critical fields and valid information
 - Minimize hand-writing interpretation
 - Improve quality of data received
 - Reduce time required to complete data entry in DSHS
 - Improve DSHS processes for better customer service
- □ Result Reports
 - \blacksquare Fast, easy, 24/7 access to reports and report cards
 - For Neometrics, users can access NBS results for previous specimens drawn by other facilities



Current Status - HL7



BENEFITS OF HL7

- Providers no longer need to enter data
- Improve Data Quality
 - Data validations included in entry systems
 - Allows update of some patient data until demographic information is imported
- Eliminate need for manual transcription of the results

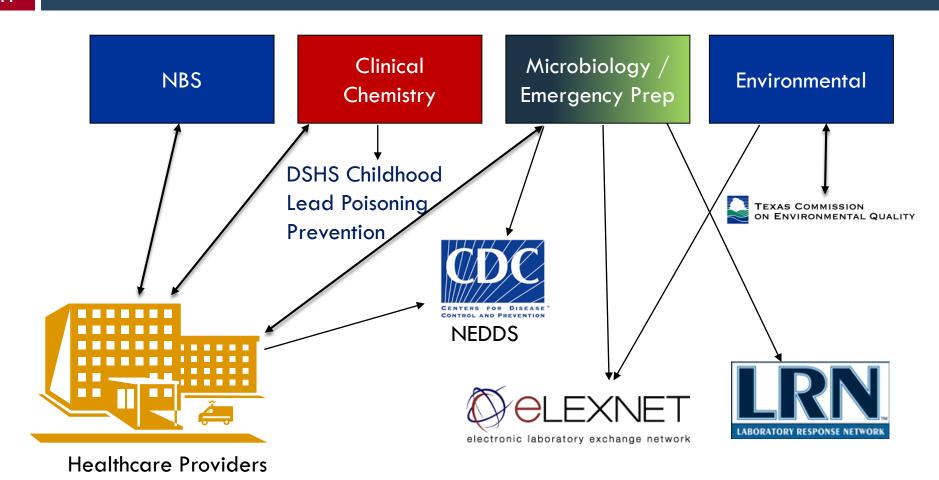


Moving Forward

- Improve Web Application
- HL7 new message: NLM / PHII Implementation
 Guide
 - Simplified result options
 - Minimizing necessary result validations
- □ Recruit more participating sites
- Health Services Gateway
- □ NewSTEPS 360 grant

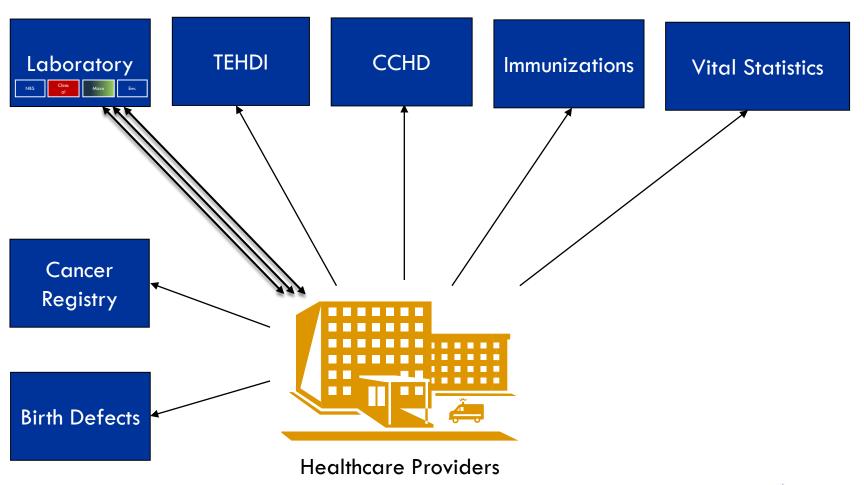


Integrating into Lab / Agency HIT



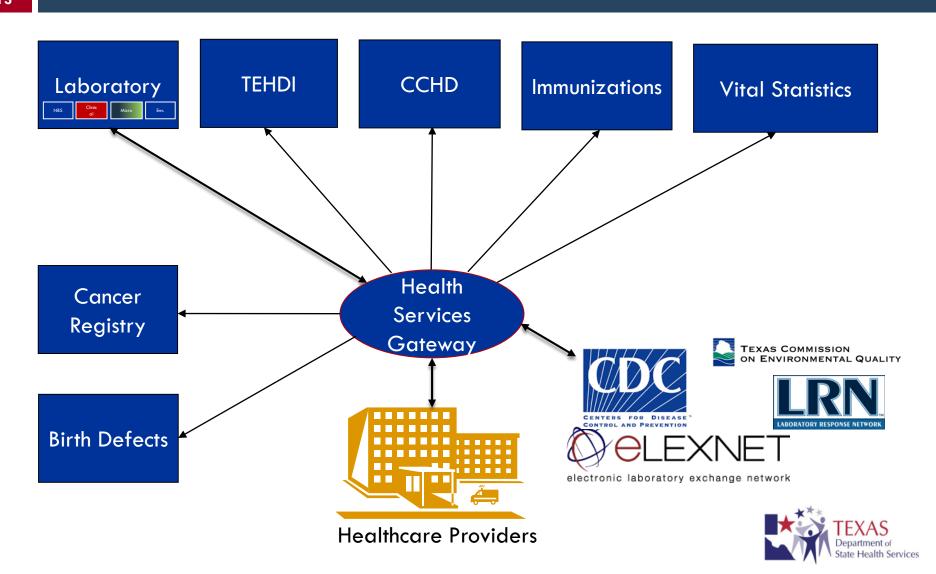


Integrating into Lab / Agency HIT





Health Services Gateway

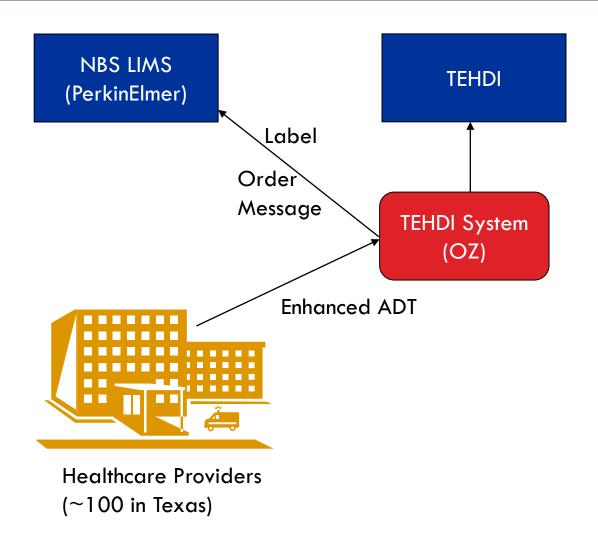


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NewSTEPS 360 Grant





THANK YOU

