



Early health. Lifelong health.
Début en santé. Longue vie en santé.

BORN Ontario Briefing: Best Possible Beginnings for Lifelong Health

May 5, 2011

Celebrate Midwifery

- May 5th – International Day of the Midwife
- A day to highlight the commitment of the midwifery community in improving maternal and newborn health around the world

Facilitation of Care: Missed Screen



- Baby Mike was born at Markham Stouffville hospital at 32 weeks
- Transferred to Mt. Sinai Hospital NICU
- Each thought the other completed the Newborn Screen
- How does NSO find out he was missed?

Facilitation of Care: Access to Information

- Sarah, from Toronto, is having a weekend away with friends at 34 weeks GA
- Delivers unexpectedly at the St. Joe's in London
- How will the obstetrician access her Antenatal 1 & 2 forms?



Facilitation of Care: Access to Information

- A labour and birth unit in a community hospital is reviewing the number of inductions being performed
- How can they know the true number being done in her centre?
- How can they benchmark their experiences against their peers?



Facilitation of Care: Best Practice



- Baby Alice is born by an elective c-section at 37 weeks and 4 days
- Ends up in the NICU with difficulty breathing and feeding poorly
- Whose responsibility is it to monitor best practices?

Secondary Use: Research

- Pregnant women in Ontario were advised to be vaccinated against H1N1
 - Was it beneficial to the mother and baby? Any side effects?



Facilitation of Care



The Answer: BORN Ontario

The best possible beginnings
for lifelong health



BORN is a PHIPA Registry

- BORN (as OPSS) was granted registry Status under the *Personal Health Information Privacy Act (PHIPA)* in Nov 2009
- Registry status affords BORN authority to collect, use and disclose personal health information **without consent** “for the purpose of “facilitating or improving the provision of health care”.



This special authority requires BORN to develop and adhere to rigorous privacy policies – and have them reviewed and approved by the Ontario Information and Privacy Commissioner

BORN Registry Purposes

1. Identify individuals or settings where appropriate care has not been received and facilitate access to care and treatment for mothers, infants and children.
2. Facilitate continuous improvement of healthcare delivery tools to minimize adverse outcomes.
3. Determine where maternal and/or newborn outcomes are clinically or statistically discrepant with accepted norms and raise alerts where necessary.
4. Enable health care providers to improve care by providing information & tools to compare their outcomes and performance with peers and/or benchmarks.
5. Identify areas where best practice evidence needs implementation (knowledge translation strategies) to improve the quality and efficiency of care for mothers, infants and children.
6. Create reports that can be used to provide the Ministry of Health and Long-Term Care, Local Health Integration Networks and Public Health Units with comprehensive and timely information for mothers, babies and children

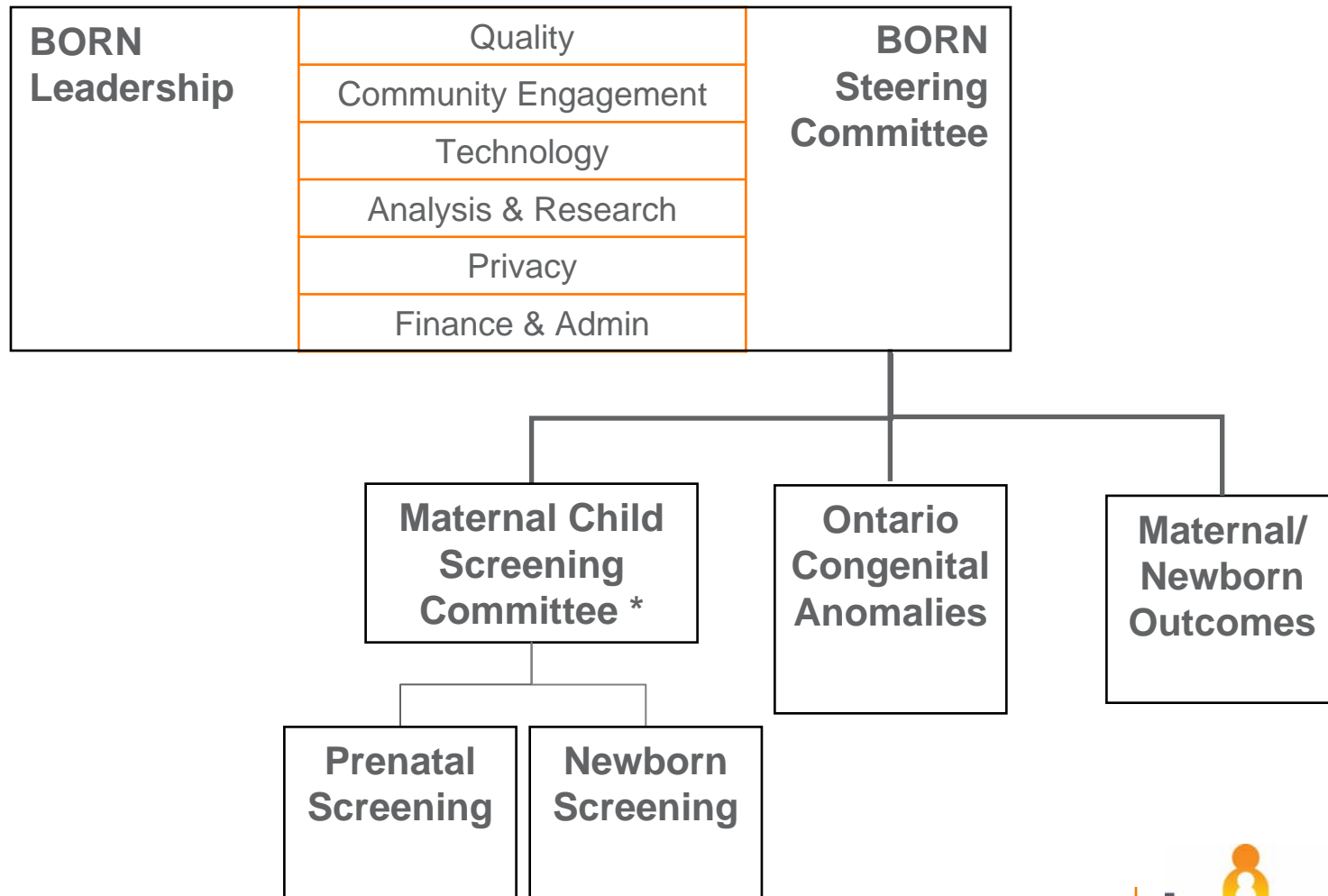
BORN Community: Data Collection

BORN exists to facilitate and improve care to mothers and children in Ontario

Information on every pregnancy and birth in Ontario

- Labour & Birth
 - Details of 135,000 births annually collected from all 109 birthing hospitals
 - Almost 500 midwives in 81 practice groups caring for ~8000 women annually
- Prenatal Screening: ~84,000 pregnancies
- Newborn Screening: >99% of babies
- Screening Follow-up Centres
- Neonatal Care: 49 NICUs caring for ~15-30% babies

BORN: Governance Structures



BORN: Committee Membership

Maternal-Child Screening Committee	Prenatal Screening Sub-Committee	Newborn-Child Screening Sub-Committee	Maternal-Newborn Outcomes Committee	Ontario Congenital Anomalies Committee
<p>Dr. Joe Clarke Dr. P. Chakraborty Dr. Sandra Farrell Dr. Michael Geraghty Dr. Robin Hayeems Dr. Alan Hudak Dr. Julian Little Dr. Stephen Lye Dr. Fiona Little Dr. Isaac Odame Dr. Nan Okun Dr. Murray Potter Ms. Stacey Weber</p>	<p>Dr. Sandra Farrell Dr. Nan Okun Dr. Nicolette Caccia Dr. June Carroll Dr. David Chitayat Ms. Tillie Chu Dr. Gregory Davies Dr. Alan Dennis Ms. Mary Duquette Ms. Andrea Lennox Dr. Wendy Meschino</p>	<p>Dr. Michael Geraghty Dr. Murray Potter Ms. Cathie Badeau Dr. P. Chakraborty Dr. Andrew Latchman Dr. Sarah Lawrence Dr. J. MacKenzie Dr. Beth Potter Dr. Tony Rupar Ms. Karen Tam Dr. R. van Wylick</p>	<p>Dr. Graeme Smith Dr. JoAnn Harrold Ms. Liz Darling Dr. Paul Dick Dr. Gregory Flynn Dr. Chris Longo Dr. G. Mariampillai Dr. Renato Natale Ms. Nancy Persichino Ms. M-A Pietrusiak Dr. Joel Ray Dr. Prakesh Shah Dr. Shi Wu Wen</p>	<p>Dr. Greg Ryan Dr. Aideen Moore Dr. David Chitayat Ms. Susan Conacher Mr. A. Deonarine Dr. Kathy Fong Dr. Karen Harman Dr. Julian Little Ms. Jen Milburn Dr. Greg Moore Dr. Rory Windrim Dr. Sarah Keating</p>
	<p>BORN Resource Ms. Kim Gall</p>	<p>BORN Resource Ms. Kim Gall</p>	<p>BORN Resource Dr. Ann Sprague</p>	<p>BORN Resource Ms. Deshayne Fell</p>

BORN Operations: Team Structure

Quality, Timely Clinical Information

Community Engagement

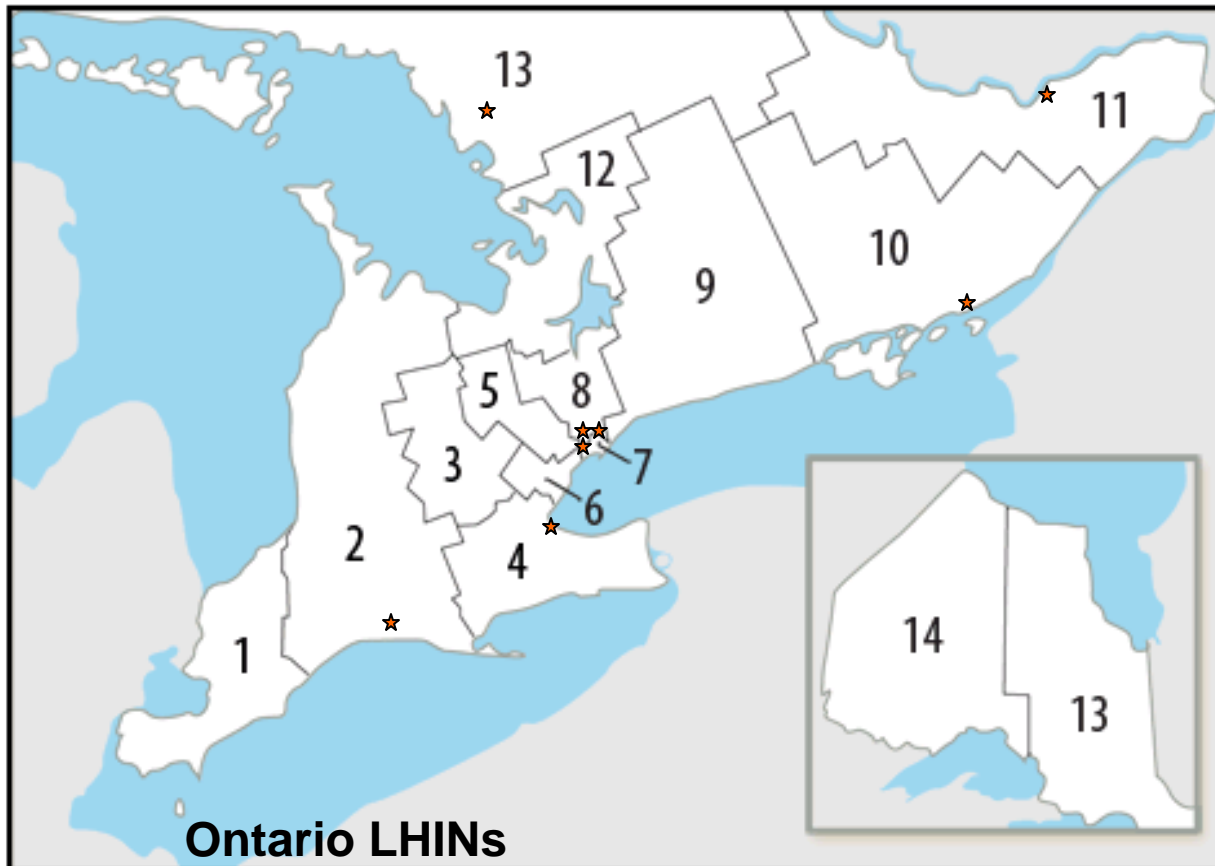
Technology

Analysis & Research

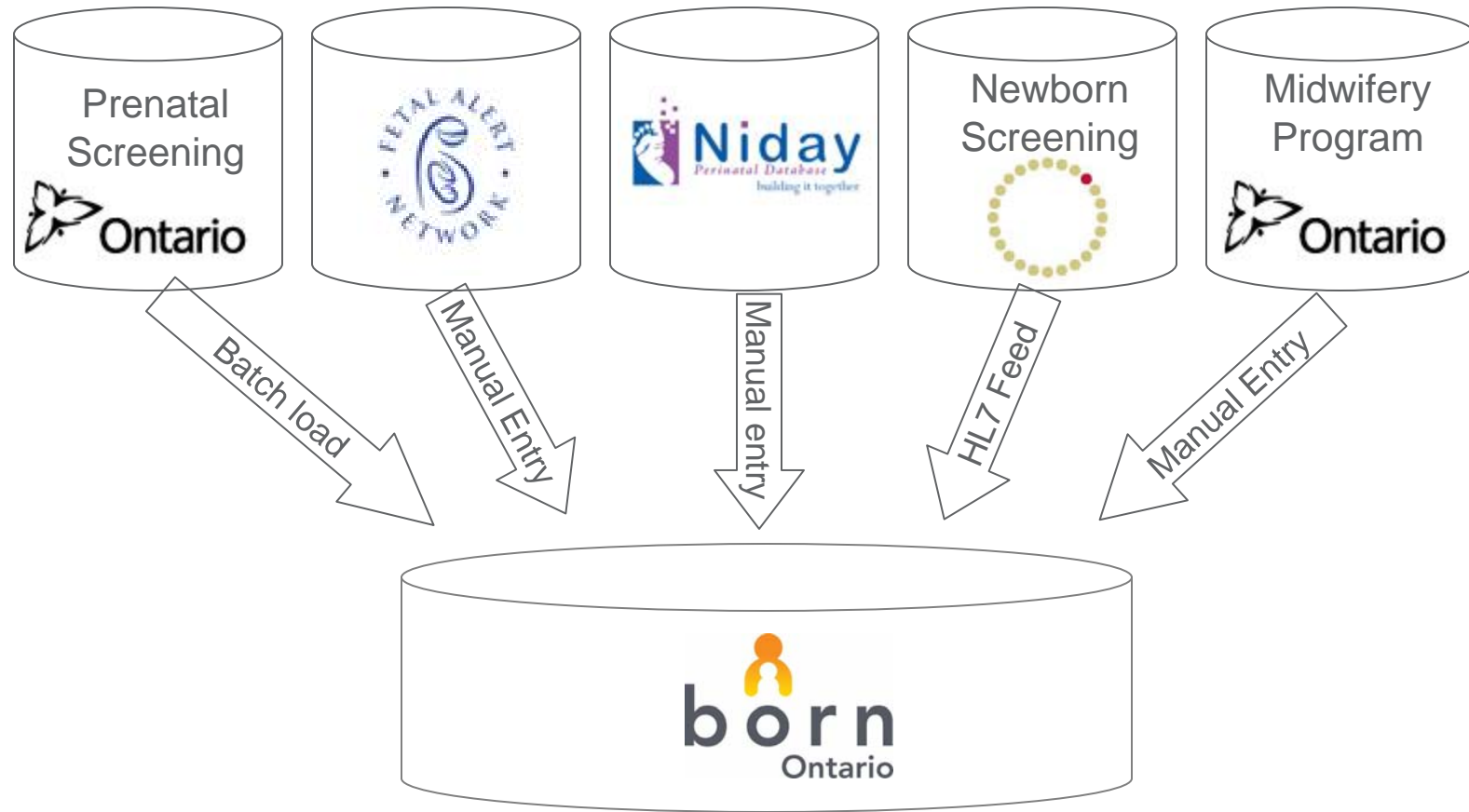
Privacy

Finance

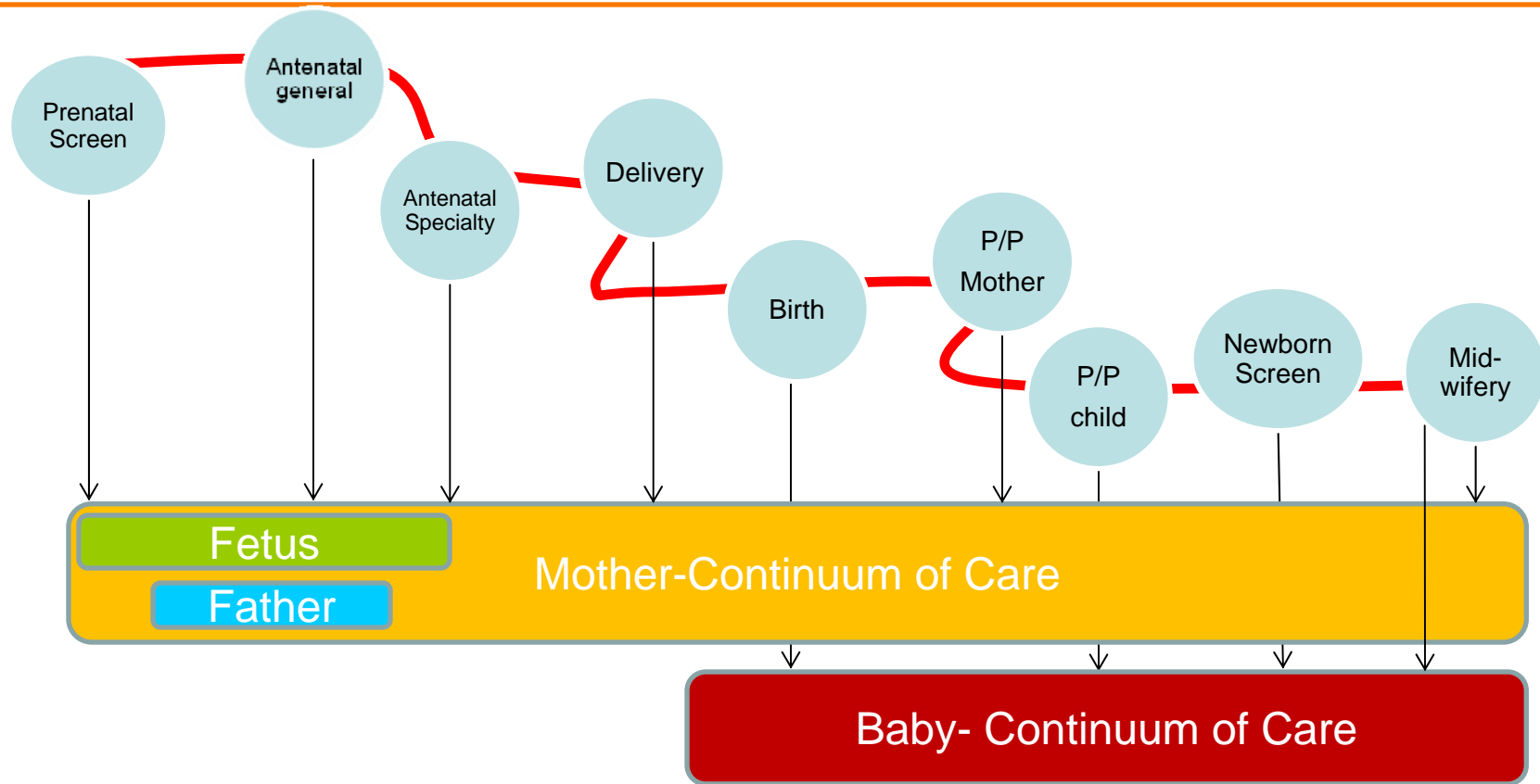
BORN: Community Engagement Team



BORN Build: The Integration



BORN Build: The Continuum



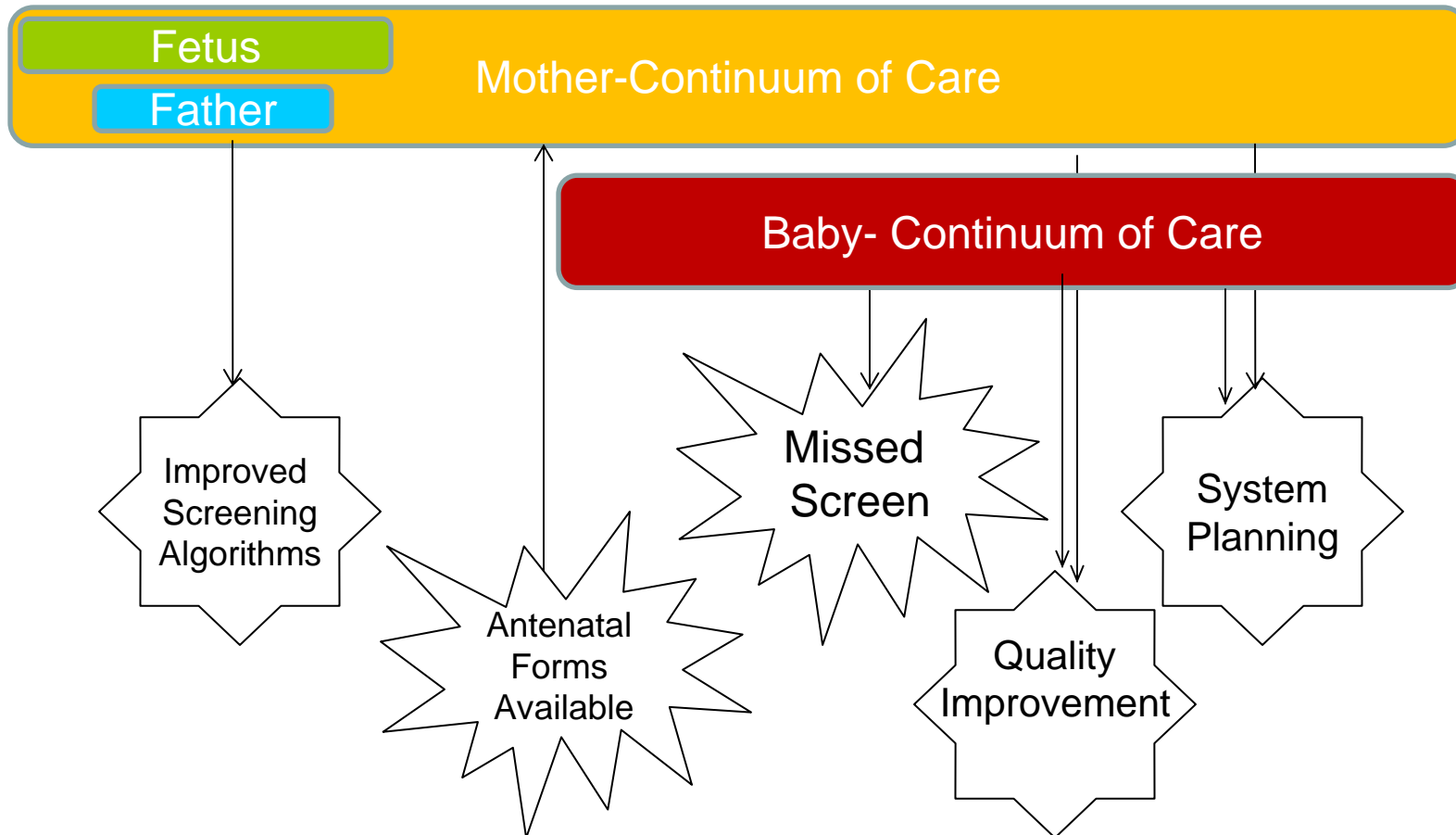
BORN: Data Collection

Examples of Data Collected

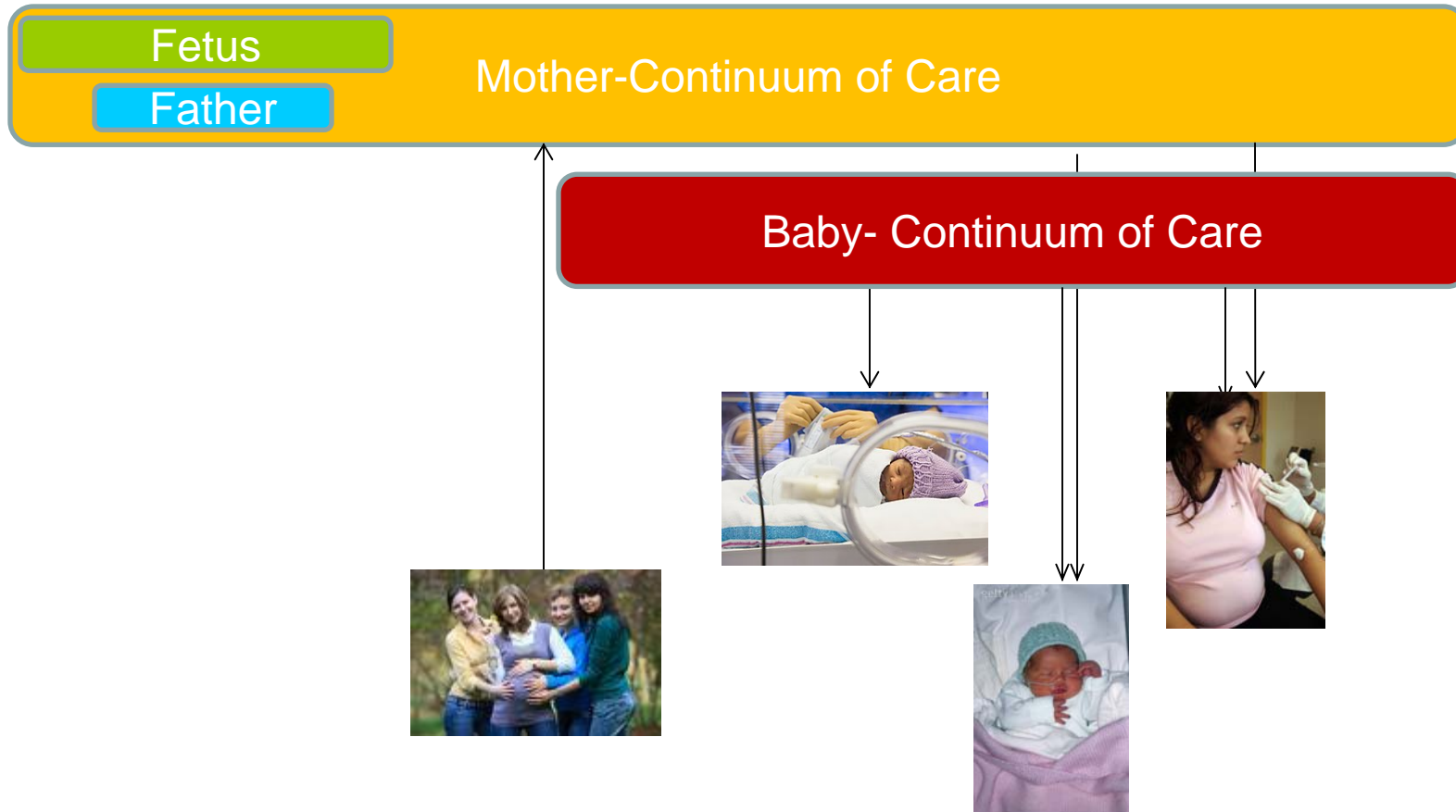
- Identifiers
 - Maternal Name
 - OHIP number
 - Date of Birth
 - Estimated Date of Delivery
- Health Status
 - Maternal Health History
 - Diabetes
 - Lab results
- Risk Factors
 - Smoking
 - Postal Code
 - Alcohol
- Care Provided
 - Labour interventions
 - Screening completed
 - Antenatal interventions
- Outcomes
 - Birth outcome
 - Maternal health outcome
 - Screening results
 - APGAR scores

<http://www.BORNOntario.ca/data-dictionary>

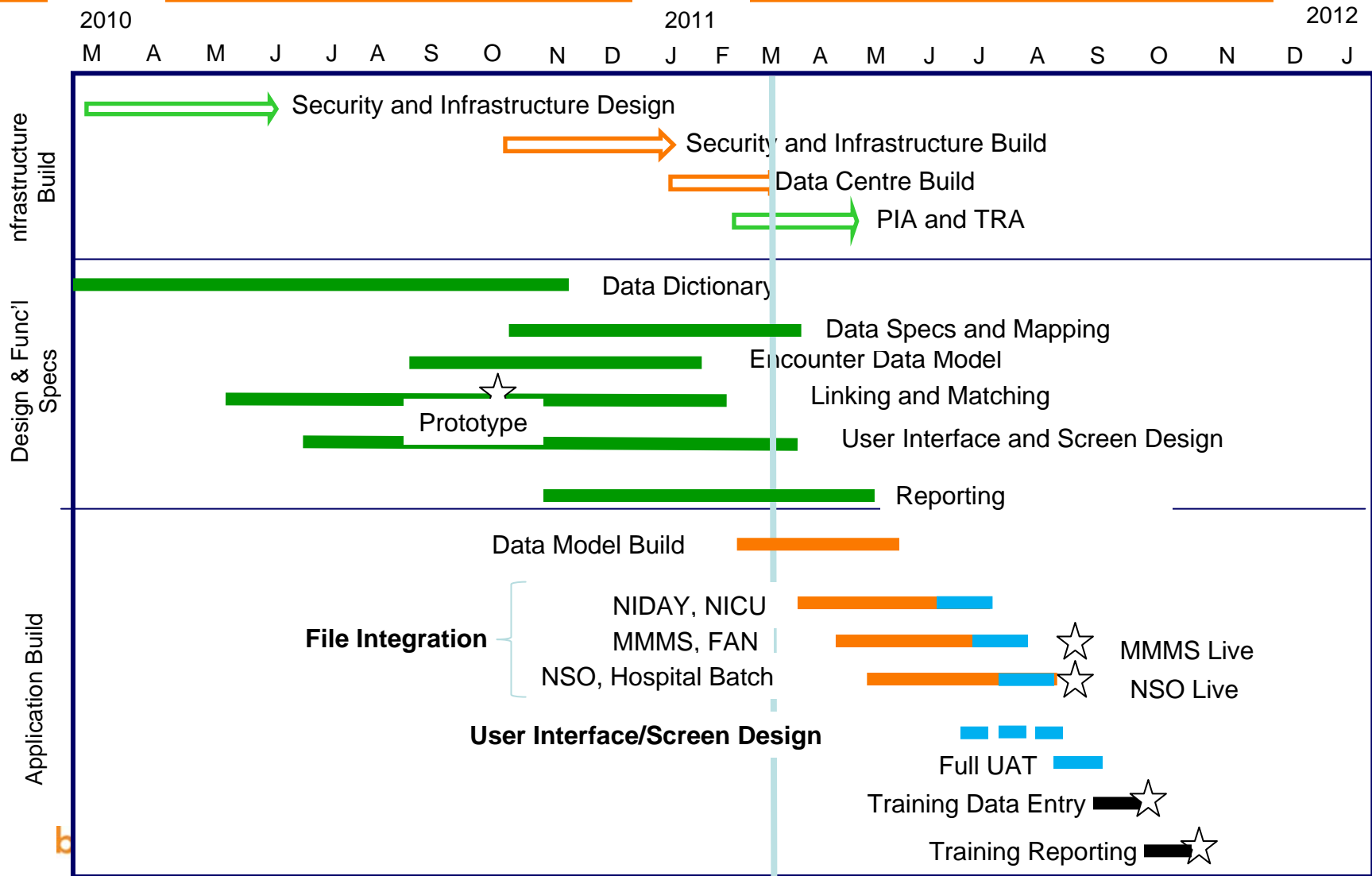
The Value of Integration



The True Value of Integration



BORN Build: EDD Fall 2011



BORN: Key Partners



Ontario
Public Health
Units



ServiceOntario

BORN: Growth and Development

- To mirror the growth and development of the babies that are in the BORN system
- Add new data sources to improve and facilitate care to the children as they continue to grow



Questions?



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