



Genesis Systems, Inc.
Presentation to the
National Committee on Vital and
Health Statistics (NCVHS)
Subcommittee on Standards
November 12, 2013



STANDARDS: DEVELOPMENT AND CURRENT STATUS

- A huge opportunity exists to dramatically impact the quality and cost of public health data and healthcare in general
- This is an opportunity which must be pursued... the benefits are too great to ignore
- Entering data once and have it proliferate throughout the healthcare system almost instantaneously
- Technology exists to accomplish

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STANDARDS: DEVELOPMENT AND CURRENT STATUS

- Without standards, countless variations of data exchange would occur
- Standards development in any industry is challenging
- Vital Records/Statistics present unique challenges
 - Development should be guided by Vital Record/Statistic Professionals
- If not done correctly data quality will suffer and impede comparability and statistic inference

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GENESIS ACTIVITIES

- **Developing interfaces in cooperation with CDC to facilitate the electronic exchange using XML and HL7**
- **Development focus is on using HL7 Clinical Document Architecture (CDA)**
 - **Not all facilities are utilizing CDA**
 - **Genesis is also exploring HL7 2.5 and 3.0 messaging models to assist facilities in quicker adoption**
- **Utilizing the ante-partum and post partum summaries**

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GENESIS ACTIVITIES

- Currently testing with EMR/EHR vendors who are providing the content
- Participating in standards setting meetings in or to provide input and reconcile interpretations and implementation guidelines
- Promoting and supporting the concept of the standard
- Participation in the IHE Connectathon and HIMSS (2012, 2013 and 2014)

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GENESIS ACTIVITIES

- **Following the elephant example... one bite at a time**

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CHALLENGES: PAST AND PRESENT

- **Developing knowledge of HL7 CDA coding and protocols**
- **Developing the appropriate interfaces to integrate seamlessly with our Vital Records modules**
- **What data source within the EMR/EHR provides the appropriate element to facilitate the intended definition**
- **EMR/EHR data maybe stored in PDF documents and does not provide appropriate data**

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CHALLENGES: PAST AND PRESENT

- What should happen if a data element EMR/EHR is changed after it is assimilated into our system... considerations include:
 - What data element has changed?
 - Why was it changed?
 - Happening before registration?
 - Happening after registration?
- Assuring the confidentiality and privacy of Vital Records information

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CHALLENGES: PAST AND PRESENT

- How to handle multiple births
- What data should be manually entered, if any?
- Developing the appropriate Business Associate Agreements and technical protocols to interface to partners
- Refining existing data security parameters
- Many more yet unidentified

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CLIENT INTEREST AND GENESIS' EFFORTS TO PROMOTE

- There appears to be growing interest in pursuing this model
- Clients are starting to recognize the benefit to implementing both in quality and timeliness of data
- Genesis continues to promote the use of the model and standards to healthcare facilities, HIE's and State vital record clients
- Genesis has made preliminary contact with HIEs and sees interaction a significant benefit
- Genesis will continue working with Public and Private Health care partners to identify route to implementation

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CLIENT INTEREST AND GENESIS' EFFORTS TO PROMOTE

- Continued assistance in the standards setting effort through:
 - Attendance at IHE Connectathons and HIMSS
 - Continued attendance in standard setting forums
 - Suggesting and supporting early implementation
- Continue expansion of the model to include other Public Health programs
- Continue promoting the use of GIS as an add-on

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CLIENT INTEREST AND GENESIS' EFFORTS TO PROMOTE

- The volume of information that is gathered will force implementation from a financial perspective
 - Genesis has systems gathering up to near 700 data elements

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Thank YOU!



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