

Analytics Roundtable

It's All About The Data Workshop

HIMSS[®]
CENTRAL & NORTH FLORIDA *Chapter*

South University, Tampa, FL

May 3, 2019

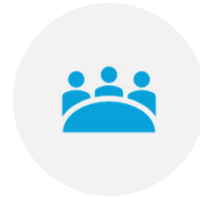


IMMERSIVE

Learning Objectives



Review key concepts and hot topics in healthcare analytics.



Share your stories and learn from you peers the successes and challenges your organization has had with analytics and the relationship with the underlying data.

AGENDA



- ❑ Describing Analytics
- ❑ Delivering Current and Future Analytics Needs
- ❑ Data Quality

Analytics

- (1) The examination of data to derive understanding, make predictions, and take action through the discovery and interpretation of data.
- (2) The tools, technologies and methods used in the areas of data discovery, reporting, comparisons, data visualization, predictions, event and pattern recognition, simulation, statistical analysis, optimization, and artificial intelligence.

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Simulations
Business Optimization
Personalized Medicine
Decision Support
Behavioral Analysis



Foresight

PRESCRIPTIVE

What **SHOULD** happen?



Statistical Analysis
Predictive Modeling
Population Health
Hypothesis Testing
Risk Scoring

PREDICTIVE

What **WILL** happen?

Action

Alerts
Business Activity Monitoring
Security Event Monitoring
Privacy Analytics



Insight

OPERATIONAL

What **IS** happening?



Decisions

EXPLANATORY

Why **HAS** it happened?

Diagnostics
Variances
Explanative
Correlations
Data Mining
Classifications

Extracts
Reports
Dashboards
Scorecards
Benchmarking
Auditing/Monitoring

Hindsight

DESCRIPTIVE

What **HAS** happened?

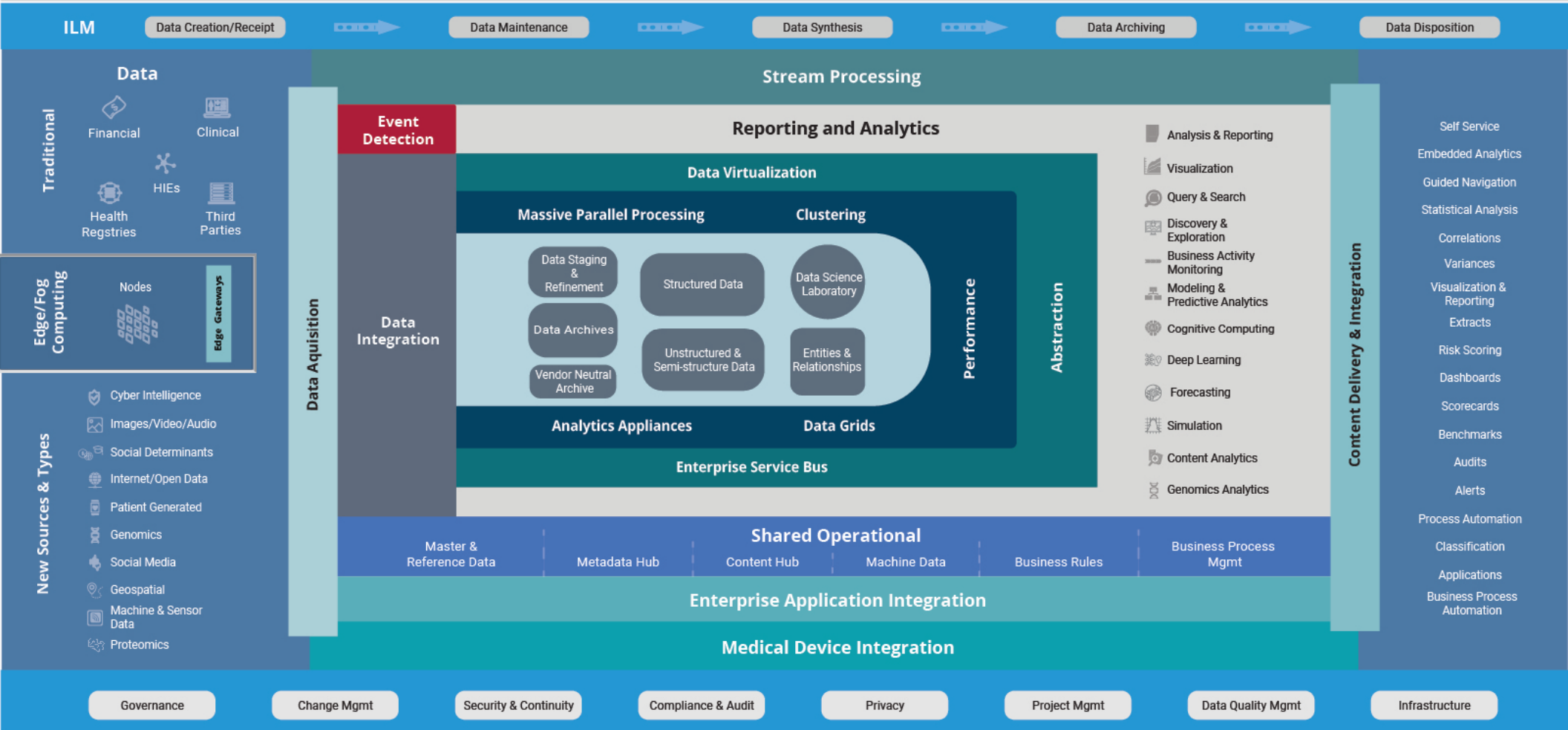


Data

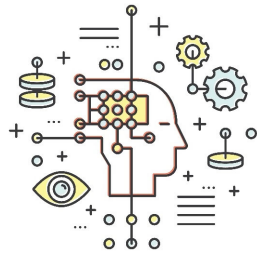
Analysis

Evolving The Continuum

- ✓ Today's businesses require all types of analytics – anywhere at anytime
- ✓ Shift from linear implementation of niche analytics platforms to modern analytics and BI platforms capable of delivering analytics everywhere
- ✓ Ability to scale and a wide variety of distribution methods are now key focus areas
- ✓ Self-Service, Self-Service, Self-Service



Technology Trends



Augmented Analytics

Automation of functions, visual-based data discover, augmented data preparation, NLP, etc.



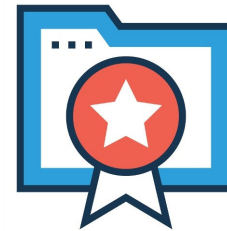
Self Service

More than reports, platforms must self service discovery, curation, and empower the citizen data scientists.



Data Catalogs

Know what data assets you have, where it is located, and how it relates to other data.



Data Quality

Integration of data profiling and data cleansing tools provide a one-stop shop for analysts and data stewards.

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Data Quality

The ability of data to serve an intended purpose.

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OTHER COMMON DATA QUALITY DIMENSIONS

There are numerous dimensions of data quality that can be assessed. These are only a few of the most common.

Quantitative Dimensions

- Accuracy
- Consistency
- Uniqueness
- Integrity
- Volume
- Completeness
- Timeliness

Qualitative Dimensions

- Comprehension
- Relevance
- Trust
- Objectivity

Other Common Dimensions

- Access
- Security
- Interpretability
- Reputation
- Ease of Manipulation
- Maintainability
- Rate of Decay

Commonly Used Dimensions

Data Quality Improvement

- Measurement
- Monitoring
- Benchmarks
- Data Profiling
- Issue Management
- Impact Analysis
- Data Quality Assessments
- Data Audits

Data Cleansing & Prep

- Normalization
- Cleansing
- Anonymization & Masking
- Enrichment
- Matching, Linking & Merging
- Validation
- Data Acquisition & Delivery
- Curation

Vocabulary Management

- Business Glossaries
- Data Dictionaries
- Taxonomies
- Ontologies
- Data Classification
- Controlled Vocabularies

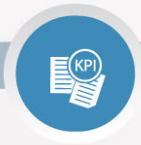
Knowledge Management

- Data Discovery
- Asset Catalogs
- Data Lineage
- Metadata Management
- Search
- API Management
- Collaboration Platforms
- Wikis

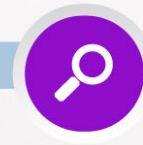
Data Governance & Stewardship

- Strategy
- Principles
- Policies
- Procedures
- Standards
- Frameworks
- Guidelines
- Education

Data Strategy | Data Governance | Data Architecture | Technology | Operations | Program Management



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Data Governance for Healthcare



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Peer Discussion

Analytics – The good, bad, and ugly.



What things are you working on?

- Reports, Dashboards, Metrics, Advanced Analytics

What issues are you facing that are a result of the underlying data?

What successes have you experienced because of good data management or governance?

What does your leadership expect from analytics now and in the future?

What tools do you use that help you succeed?



Thank You!

Immersive
3411 High Cliff Road
Panama City, FL 32409
(888) 869-0984
www.immersive.healthcare

Dan Rounds, President
darounds@immersive.healthcare

Stephanie Crabb, Principal
sacrabb@immersive.healthcare