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AUGMENT INTELLIGENCE

CONNECTED INTELLIGENCE

INTERCONNECT EVERYTHING

Visual analytics

Data and systems

Streaming analytics and advanced analytics

Embedded Analytics

APIs

People and processes
Digital Economy to the Algorithm Economy

Gartner predicts that by 2020 75% of large and midsize organizations will compete using advanced analytics and proprietary algorithms.
Drivers of change

**Users**
- Maturing User Community
- Workloads and Demands
- Reporting to Advanced Analytics
- Democratization
- Self-Service
- Demand agile/fast deployment
- and more

**Technology**
- New Disruptive Technology
- New Technologies
- Enhanced Power and Performance
- Greater Scale
- New platforms and decentralized EDW
- and more

**Economics**
- Economic Impact
- Enterprise Commodity Hardware
- Open Source Frameworks
- Recession Resistant
- and more

**Data**
- New and Valuable Data
- New Alternatives
- Sophisticated Analysis
- Big Data
- Internet of Things (IoT)
- Sensor, Machine and Social
- and more
Capturing ROI from Big Data investments

- A decade of infrastructure investments
- Data has a new gravity and location
- All the data is now at our finger tips
- New pressure to perform
Orchestrating across hybrid data landscapes

• Flexible approach to data and analytics
• Orchestration of environment delivers value
• Moving analytic to the data reducing data movement
• Reliance on enterprise analytic COE
Analytic Center of Excellence

- **Governance** – control and standardization
- **Reuse** – Collaboration and faster time to value
- **Collaboration** – Peer review and oversight
- **Open tools** – centralized managed deployment and management
- **Data** – Curated data access
Scale Analytics with Reusable Data Science

Facilitate reusable data science backed by governance

• Create reusable templates
  • Build complex analytic and data prep workflows once, then share with others

• Automate the mundane
  • Automated data health check, data mining recipes, and simplified deployment

• Collaborate and share
  • Annotate workflows and ensure trust, security, and privacy with model management and governance

1 Designer creates reusable template and decides which parameters to expose in a workflow

2 Citizen Data Scientist Selects analysis and items of interest, runs analysis workflow
Accelerate Innovation with Data Science

Make innovation easy with smart, flexible, and comprehensive analytics

• Create innovative models
  • Use the latest deep learning, predictive, prescriptive, AI, and analytical technique

• Rapidly prototype new techniques
  • Use one of the thousands of built-in analytics, code in open source, or access algorithm marketplaces

• Capabilities
  • **Thousands** - of drag and drop nodes
  • **Algorithmia** – marketplace for algorithms
  • **Apervita** – democratizing healthcare analytics
  • **Microsoft Azure® ML** – cloud based analytics
  • **Microsoft® Cognitive Toolkit** – DL framework
  • **Open Source** - R, Python, Scala, C#
  • **Apache Spark™ MLLib**
  • **H20 and Sparkling Water**
  • **Amazon S3**
Systems of Insight

Bring together a diverse set of people, process, and technology to execute on analytics in a closed loop process.
Systems of Insight - Teams

Comprise multiple, diverse skill sets to collaborate in a single system of insight to drive agility and value.
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Systems of Insight - Process

Ignite curiosity, support experimentation and the ability to extend reach.
Systems of Insight Technology

The five essential technologies needed to fuel systems of insight.

**Smart Applications**
Devices, applications, and systems that collect data and measure outcomes.

**Data Streams**
New and value data streaming from applications to infuse into the analysis process.

**Data Orchestration**
Ability to use all data to drive insight and action in a repeatable, curated, and governed way.

**Analytic Engines**
Access to and the ability to apply multiple analytics capabilities to the data is critical to finding the new insights to fuel projects.

**Action Framework**
Applications, events, and rules that enable systems of insight teams to act at the speed of business.
Orchestrating Analytics

Centers of Excellence
Executive Driven to create standards and ease of adoption across Hybrid Data Environments

Enterprise Platforms
Powerful and comprehensive. Foundation for maturing analytic environments

Systems of Insight
Agile and sophisticated. Closed loop process combining teams, process and technology
Question?

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