AMC Advanced Analytics

Dr. Christopher M. Hill
AMC Chief Analytics Officer
Director, AMC Analysis Group

U.S. Army Materiel Command

MISSION
Army Materiel Command Delivers, Integrates and Synchronizes Sustainment Capabilities from the Strategic Support Area to the Tactical Points of Contact

VISION
Army Materiel Command is Operationalized and Postured to Sustain a MDO Capable and Ready Force

Readiness of the Strategic Support Area

AMC CG Priorities & Lines of Effort

Priorities
- ✓ **People**
- ✓ **Readiness**
- ✓ **Modernization**

Lines of Effort
- ✓ **Soldier, Civilian & Family Readiness**
- ✓ **Installation Readiness & Training Support**
- ✓ **Industrial Base Readiness**
- ✓ **Munitions Readiness**
- ✓ **Strategic Power Projection**
- ✓ **Supply Availability & Equipment Readiness**
- ✓ **Data Analytics & Logistics Information Readiness**

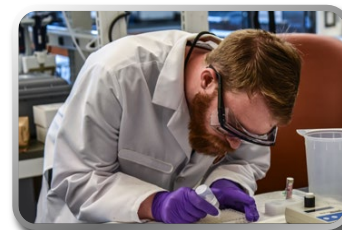*Readiness of the Strategic Support Area*

Our Portfolio

- **175K Military, Civilian & Contractor Worldwide**

- **95 Active Army Installations**

- **23 OIB Facilities**

- **3 Medical Logistics Centers**

- **5 Transportation Brigades**

- **7 Army Field Support Brigades**

- **8 Contracting Support Brigades**

Equipment Readiness
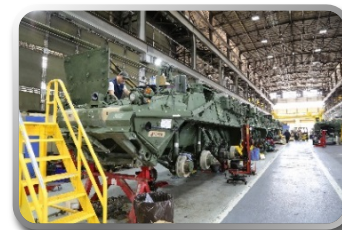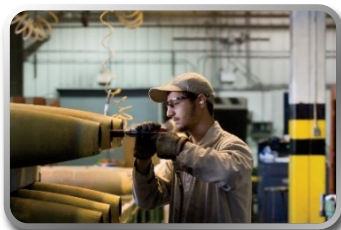
Army Prepositioned Stocks

Medical Materiel

Strategic Power Projection

Supply Availability

Army Industrial Base

Munitions

Installation Readiness

Quality of Life

Security Assistance

Contracting & Resourcing

Data Analytics & Logistics Information

Supporting Forces Worldwide

AMC – Advanced Data Analytics

✓ **AMC Commanding General**

- Data Analytics and Logistics Information Readiness is a Line of Effort in the AMC Campaign Plan with supporting Strategic Initiatives

- Implemented a Chief Analytics Officer (CAO), Chief Data Officer (CDO), and Chief Information Officer (CIO) construct

- AMC HQ has a hybrid analytic organization – centralized but matrix support to staff

✓ **Roles and Responsibilities**

- CAO – analytics and problem solving

- CDO – data advocate, quality, and standards

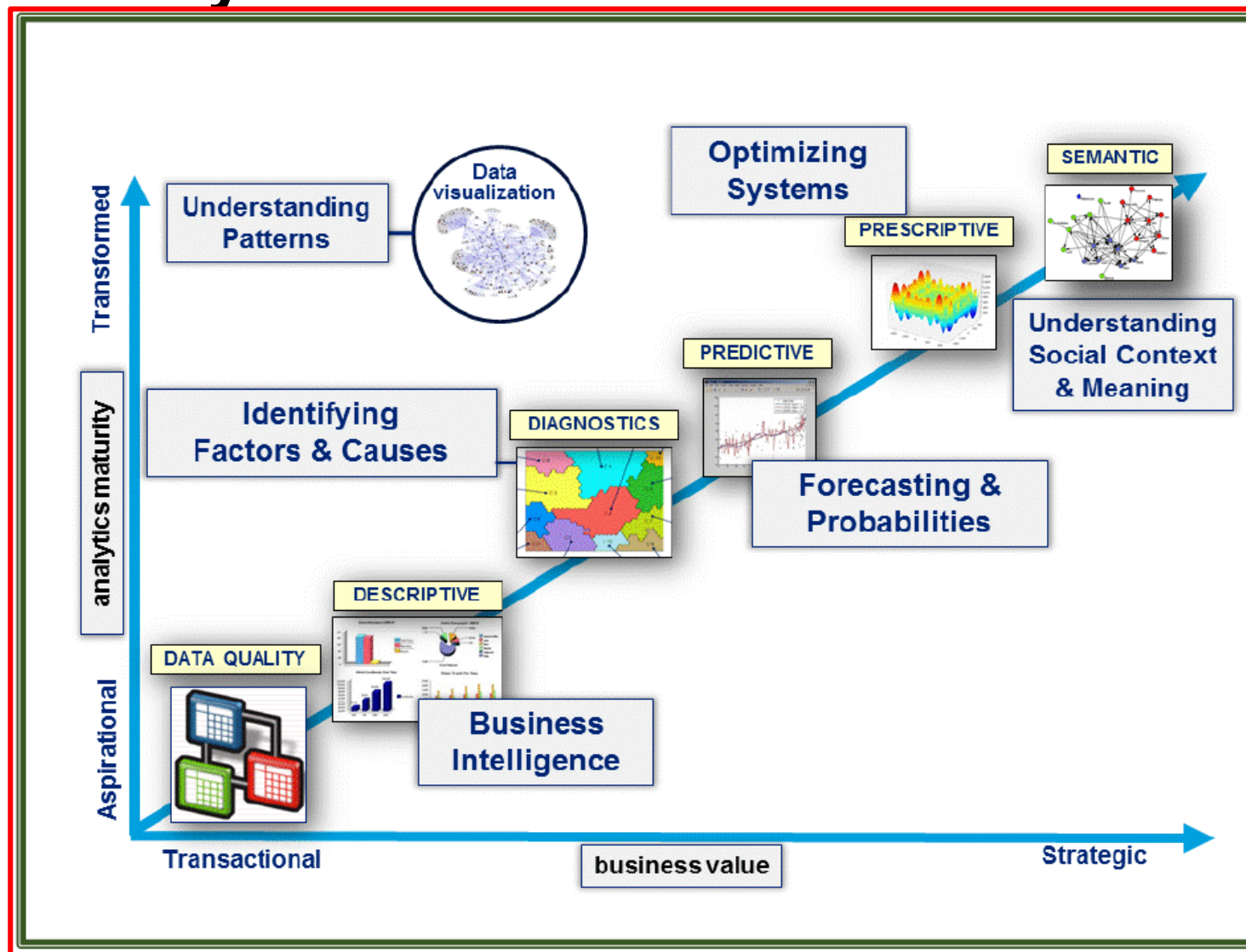- CIO – information technology and supporting infrastructure

Most Significant Challenge is Culture

The Analytics Continuum

The Enterprise Data Analytics Strategy for Army Business, 2018-2022

"We had been doing analytics but not in an advance analytics way…"
Brian Hurst, CAO, Exelon

Example Initiatives

Advanced Visualizations

Development of Applications

Infrastructure Analytics

Machine Learning and Artificial Intelligence

Resource Analysis

Installation Services

Forecasting
Fleet readiness
Demand (parts)
Permanent Change of Station Moves
Household Good Shipments

Prognostics/Predictive Maintenance (PPMx)

Way Ahead

✓ **Continue Partnerships**

✓ **Target Industry for capability and capacity gaps**

✓ **Developing Strategic Source Contract for Analytics**

- Industry Day on 9 Nov, 1000 hrs
- SAM.Gov announcement: RFIAMCSTRATANALYSIS1
- Register at:

  https://forms.gle/9BUDDRs4YL3DSMfG8