Business
Consultants

Deep Technologists

Advanced Energy Conference 2018
Big Data Analytics
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Introductions

Panel Moderator

PAUL A. DeCOTIS

Senior Director, Head East Coast Energy & Utilities Practice

West Monroe Partners

Expert Panel

JORGE CALZADA

Director, Data Science Advanced Data & Analytics

National Grid

MAMOON LATIF

Principal Consultant

SHANNON TASSIN

Director

Infosys Consulting

JEFF ADAMS

Senior Vice President

ICF Consulting

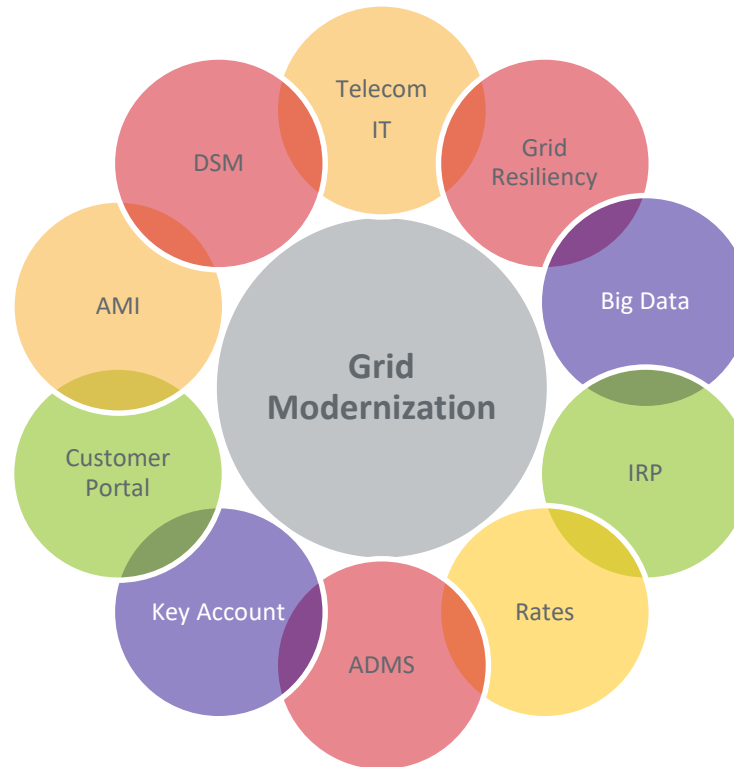**ALAN McMORRAN**

Managing Director

Open Grid Systems

Data available from grid modernization is plentiful and can be overwhelming

Making use of "big data analytics" requires a *framework and structure* centered around collecting, storing, analyzing, and using the data

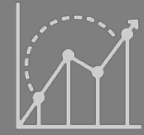**Data Governance**
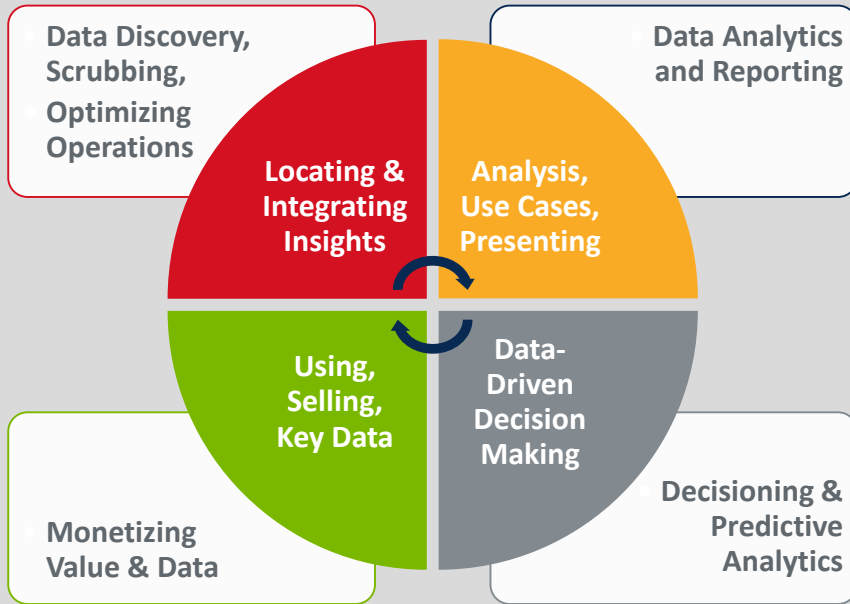
Data & IT Systems Integration

Telecom IT

DSM

Grid Resiliency

AMI

Big Data

Grid Modernization

Customer Portal

IRP

Key Account

Rates

ADMS

Use Case Analysis

Monetizing Data

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The 21ˢᵗ Century Grid, Big Data Analytics, and the Digital Revolution

Data Discovery, Scrubbing, Optimizing Operations

Data Analytics and Reporting

Locating & Integrating Insights

Analysis, Use Cases, Presenting

Using, Selling, Key Data

Data-Driven Decision Making

Monetizing Value & Data

Decisioning & Predictive Analytics

BENEFITS

Improved supply and demand, and event forecasting

Improved grid operations and power quality

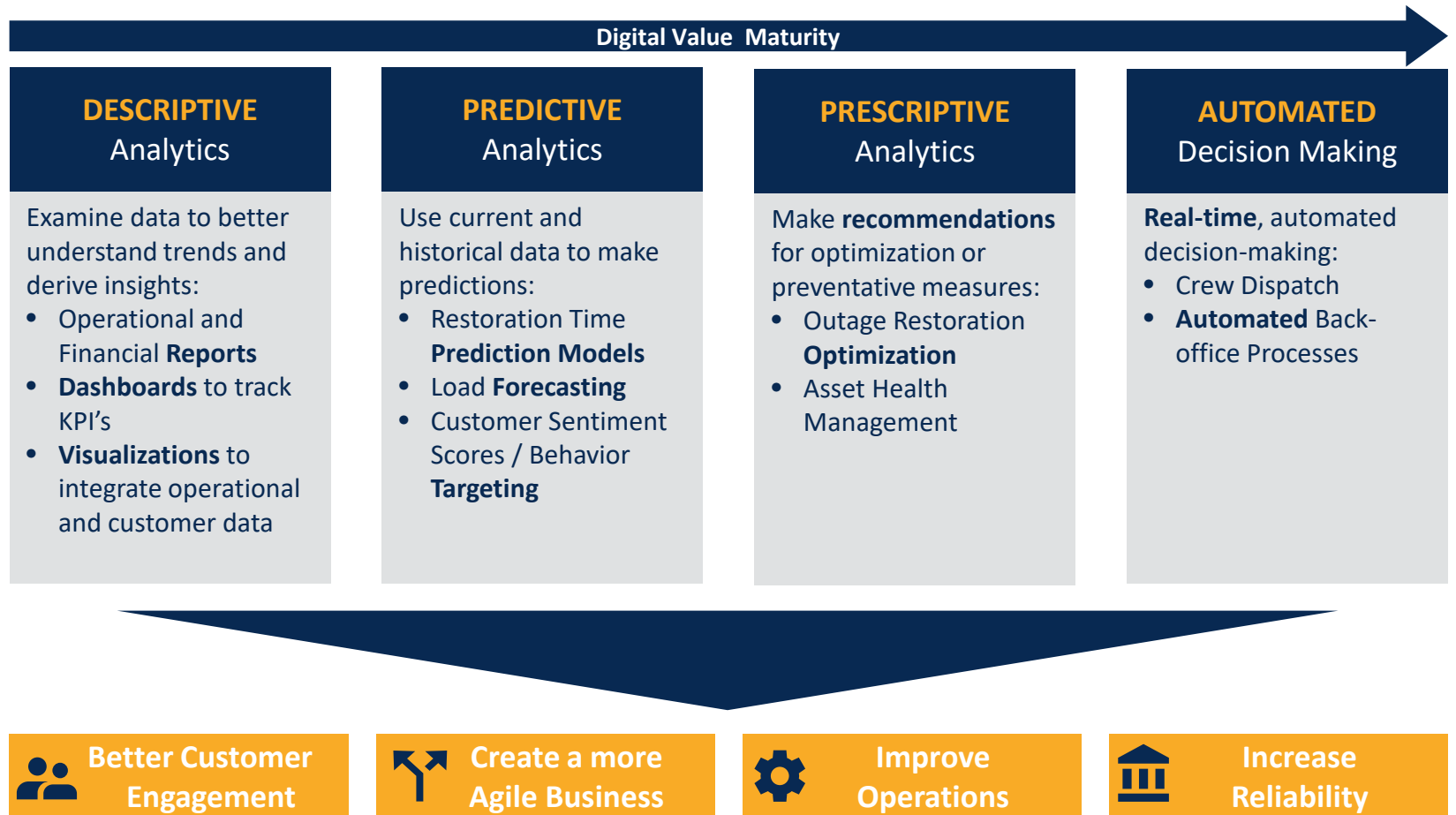**Reduced number of outages** and faster restoration times

Improved asset maintenance and management

New business opportunities and revenue streams for enhanced and improved services

"Big Data" is enabling utilities to enhance their Digital Value Maturity and create Prescriptive Analytics and Automated Decision Making

Digital Value Maturity →

DESCRIPTIVE
Analytics

Examine data to better understand trends and derive insights:
- Operational and Financial **Reports**
- **Dashboards** to track KPI's
- **Visualizations** to integrate operational and customer data

PREDICTIVE
Analytics

Use current and historical data to make predictions:
- Restoration Time **Prediction Models**
- Load **Forecasting**
- Customer Sentiment Scores / Behavior **Targeting**

PRESCRIPTIVE
Analytics

Make **recommendations** for optimization or preventative measures:
- Outage Restoration **Optimization**
- Asset Health Management

AUTOMATED
Decision Making

Real-time, automated decision-making:
- Crew Dispatch
- **Automated** Back-office Processes

| Better Customer Engagement | Create a more Agile Business | Improve Operations | Increase Reliability |

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Panel Breakdown

- Panelist Background and Experience

- Presentation with Q&A at the end of each presentation

- Panel Discussion

- Final Q&A