**NIST Big Data Working Group (NBD-WD)**

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# Executive Summary

Purpose of the document: The When-Where-Who for using the Big Data Roadmap.

# Big Data Decision Framework

## NIST Big Data Framework Methodology

How to make decisions with our NIST Big Data Roadmap artifacts. Something to the effect:

Validate > Prioritize > Plan > Prototype > Pivot

### Integration with CMMI, ITIL, CoBIT, Lean, Agile, PMI, DevOps, Blue Ocean Strategy, Six Sigma

## NIST Big Data Framework Tools

### Internal Workshops

### Readiness Self-Assessment

#### Culture/Organization/Strategy/Technology/Appetite for Risk/Data Readiness

### Questionnaires

### NIST Big Data Roadmap Capabilities Assessment

### Organizational Readiness Chart

### Vendor Management (RFI/RFP/RFQ/SoW)

# Business Conversations

## Six Types of Conversations around Big Data

These are the important conversations that the reader should be having regarding Big Data. The Business Drivers (i.e. KPI’s) and high level Scenarios [w/ Actors] are discussed here.

### Optimize the Business

CAPEX/OPEX

### Agility for the Business

IT Responding to the Business

### Innovate [Transformation] for the Business

Exploring the margins

### Compliance for the Business

SoX/DR/BR/Health Care/Privacy/Audit

### Green for the Business

Carbon Emissions for Data Centers

### The Blockers

Business Problem/Blockers (Internal/External)/Pain Points

# Dependencies

What to consider as inputs into your Big Data decisions

## Business

### Culture

### Organizational Structure/Silos/Processes

### Corporate Compliance

### Fiscal Planning

#### IT Budget Ownership

#### Rhythm of Funding

#### Chargeback & Metering

#### Shared Services

### M&A

## Technology

### As-Is

The current heterogeneous environment

### IT Roadmap

#### Cloud/NoSQL/SDN/Storage/Mobile/BYOD/Tablet/Modular Data Center/Etc.

### IT Team: Skills & Aptitude

### IT Services Catalogue

### Bill of IT

### Vendor Strategy

## Example Output

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Business Conversation | Value | Big Data  Capability | Readiness Level | Use Cases | Actors |
| Agility:  IT needs to provide Marketing the ability respond real-time to acquiring on-line customers | Lower cost of acquiring new customers by X percent by October 1st. | **Business Category**:  BI (Real-Time BI) | **BDTR 4**:  Emerging Adoption | 1, 3,6  (NIST Reference Architecture diagram with highlighted areas of use) | **Management**:  -On-line Marketing Officer  -Revenue Officer  **Analyst**:  -Online Marketing Leads (5)  **Technical**:  Network SME  Datacenter SME  Infrastructure SME  CRM Data SME  Storage SME (TBD)  **End Consumer:**  -Online Customers  -Retail Stores (TBD) |
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