March 2015

VPM & IBAT

(Decision Support Tools that Bridge PM, Manuf. Operations, Supply Chain)
• Video Stores
• Paper Maps
• Vinyl Records – CDs
• Pay Phones (Phone Booths)
• Camera Film
• Newspaper Want Ads / Help Wanted
Web Tool Evolution

Web 1.0 Tools
- Static Sites
- Info Display

Web 2.0 Tools
- Philosophical change
- Community of Users

Web 3.0 Tools
- Cloud Environment
- Big Data
- Smart Algorithms

PC Era Software

Time
- 1980s
- 1990s
- circa 2005
- 2015
Web Tool Evolution

- **Web 1.0 Tools**
  - Static Sites
  - Info Display

- **Web 2.0 Tools**
  - Philosophical change
  - Community of Users

- **Web 3.0 Tools**
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- **PC Era Software**

- **Time**
  - 1980s
  - 1990s
  - circa 2005
  - 2015

- **Capability**

- **PC Era Software**

- **Tools**
  - Community of Users
  - Govt, OEM and Manufacturers
  - How and Why?
  - How to Manage Big Data
  - Smart Algorithms
OEM View
Community of Users

To – Be View of OEM
Program Cost

Contribution of the “Extended Supply Chain”

- 70 to 80 Percent by Cost
- Drives the Procurement Budget
- Largely Unseen

Primary Target for Savings!

Program Life Cycle
Generating a Systems BOM

Prime BOM

PGM Prime Contractor
Generating a Systems BOM

First Tier Sub → GUDIANC SECTION

PGM Prime Contractor

First Tier Sub → GUDIANC SECTION
Generating a Systems BOM
As Suppliers join Program, the “Systems” BOM becomes visible

- **IBAT**
  - Suppliers: +300
  - Items/Components: +2700

- **VPM**
  - Suppliers: +450
  - Items/Components: +1200
Managing Big Data

Big Data

Data Filters

Manageable Information
Filter:

- Supplier
- Everything They Touch
- Sponsor: USN

Caribbean Scientific
Filter:

- Supplier
- Everything They Touch
- Sponsor: USN
Filter:

- Guidance Components
- Made by Foreign Suppliers
- Everything They Touch
- Sponsor: Air Force
Smart Algorithms: Constraint Identification

Filter:
- Single PGM
- Guidance System – Gyro Optical Unit
Smart Algorithms: Other

- SPC Tools
- Quality Notes
- Demand Views
Observations:

- Fuze IPT
- Defective Parts Reduction
- Obsolescence
- PO Alignment
- Counterfeit Components
Thanks!

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