

***How the Internet
of Things (IoT)
Will Reshape
Facility
Optimization***

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Internet of Things (IoT)

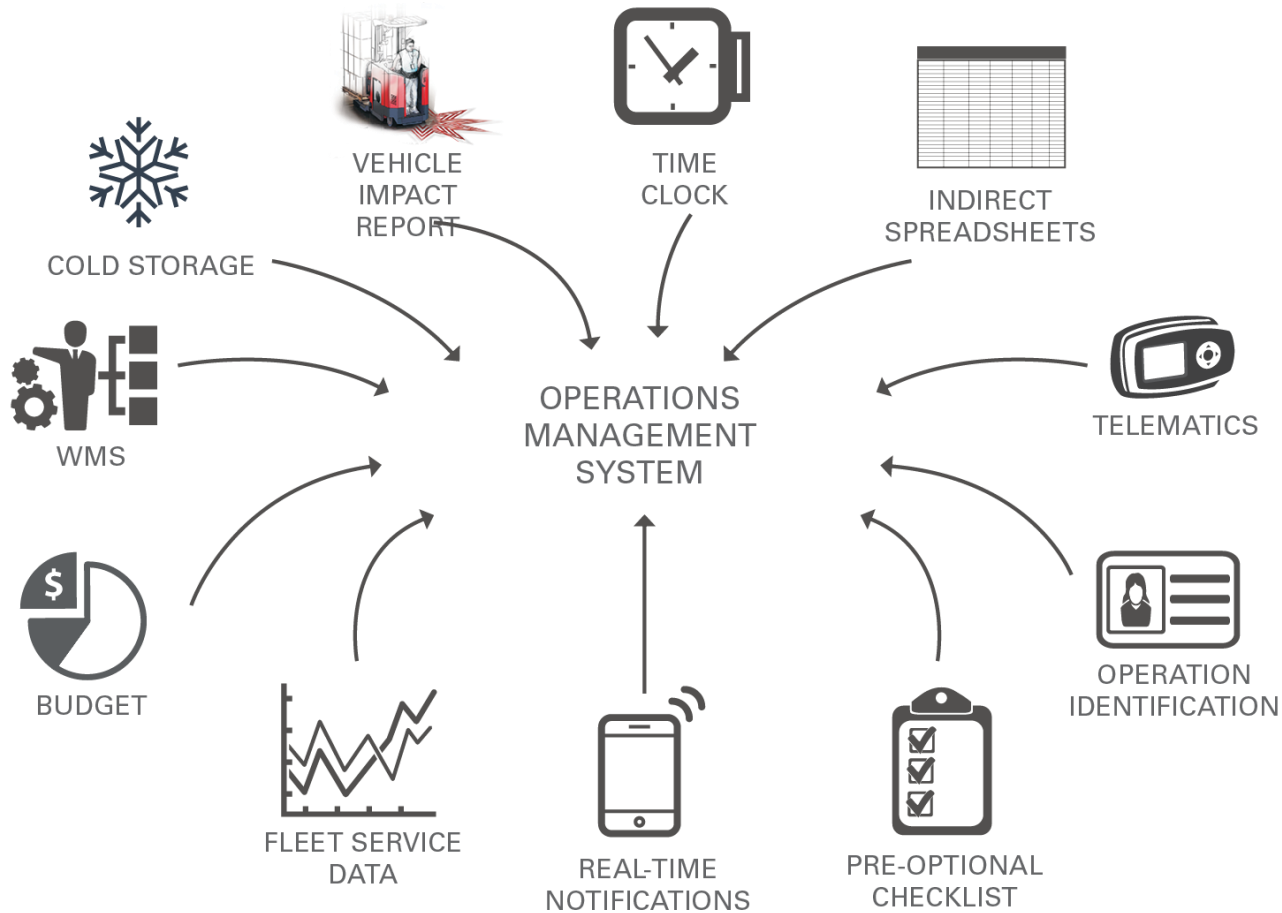
The interconnection of uniquely identifiable embedded computing devices within the existing Internet infrastructure

(http://en.wikipedia.org/wiki/Internet_of_Things)

Nike® and Apple®



IoT, Big Data – Sources Within Warehousing Segment



IoT, Big Data Within Multiple Verticals

- **Consumer**

- Food shopping
- Internet browsing, Facebook[®] and Amazon[®]
- Mobile devices (data about highway traffic)
- OnStar[®] car reports



- **Industry**

- Financial metrics, operational data
- Manufacturing metrics
- Warranty, service history



- **Government**

- Population count and trends
- Environmental records



Who Is Doing This?

- **GE Intelligent Platforms**

- “Industrial Internet”



GE
Intelligent Platforms

- **IBM Big Data and Analytics**

- “Smarter Planet”



Smarter**Analytics**
Where information, insight, and
business value connect.



- **John Deere**

- “Revolutionizing Farming With Big Data”



- **Caterpillar**

- “Big data joins excavators and backhoes at construction sites”
- “... to build data analytics lab at research park”



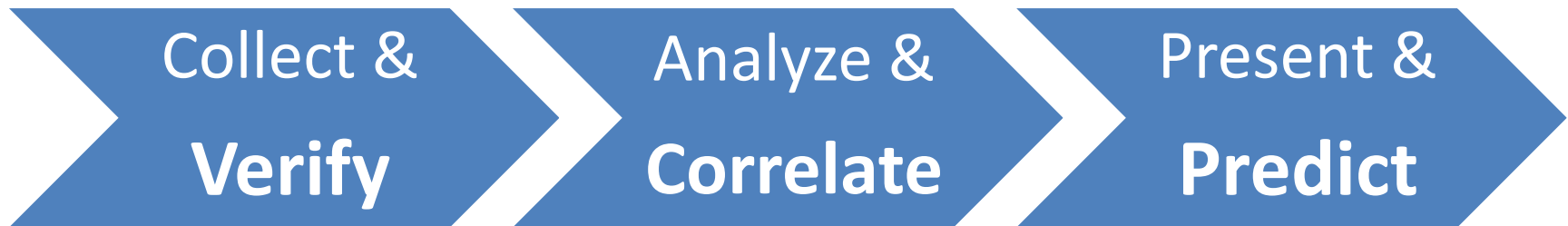


Steps in Data Usage

Current



Big Data via the IoT



How Can You Take Advantage IoT Starting Today?



Many devices currently within your facility already contribute to the IoT

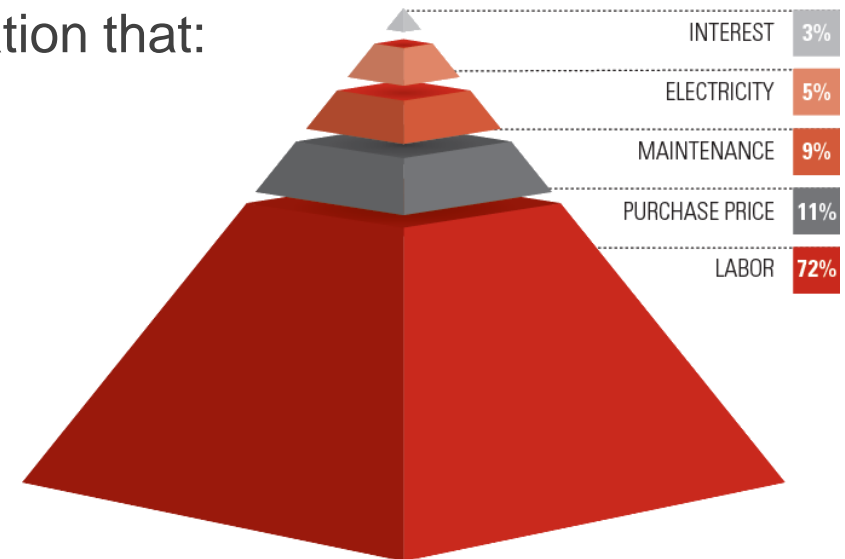
An estimated 26 billion devices will be interconnected by 2020



Warehouse Operating Expenses

Nearly $\frac{3}{4}$ of all warehouse operating expenses are NOT related to truck price or maintenance costs

- Management is demanding information that:
 - Improves productivity
 - Increases operational efficiency
 - Reduces costs
 - Maximizes asset utilization
 - Creates a safe work environment



FIND WHAT'S NEXT.

Optimizing Warehousing Operations



Optimized Fleet



Labor Management



Cost Reduction



Budget Compliance

**FIND WHAT'S
NEXT.**



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