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# RFID Strategies and Best Practices for End Users in the Energy Industry

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#### What's Covered

- Point solution versions infrastructure
- Taking a strategic approach to RFID
- Creating an RFID team
- Setting clear goals
- Mapping processes
- Managing change
- Scaling





#### **Point Solution**

- Solves a specific business problem
  - Improves worker safety
  - Manages access to secure sites
  - Locates assets in real time
  - Condition monitoring





#### RFID as Infrastructure

- Acts as a platform for many applications all at once
  - Think of the Internet
    - Email
    - Document/information sharing
    - Information sharing
    - Marketing





#### A Strategic Approach to RFID

Creating an infrastructure enables the entire enterprise to

leverage RFID

- Construction of new facilities
- Materials handling
- Production
- Inspections and maintenance
- Product delivery





#### Creating an RFID Team

- It is important to include representatives from the above areas of the business
- Additional members that should be included:
  - Finance
  - IT
  - Marketing





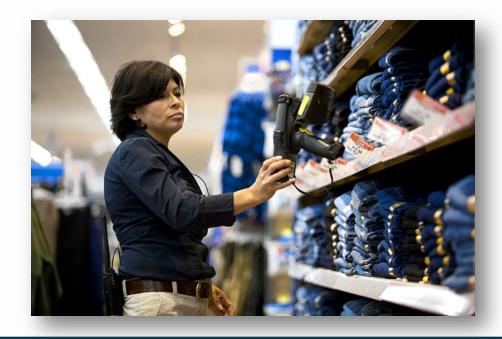
### Setting Goals

RFID is not a strategy

RFID needs to support the company's overall strategy and

business goals

Walmart vs Prada





### Setting Goals

- What should your goal be?
  - Produce the most oil at the lowest cost
  - Be the company with the best safety record
  - Be the best at serving our customers needs
  - Complete every project on time and within budget





#### What Should You Tag?

- There are many possibilities:
  - Spare parts
  - Oil pipe and casings
  - Tools and equipment
  - Vehicles
  - People
  - Goods shipped to rigs





#### Map the Process

- What happens to a piece of drill pipe or spare part from the moment it is acquired until the moment it is disposed of?
- Answering this will help determine what type of tag to use and what kind of useful data can be collected on the object





#### Choose the Technology

- Active RFID for larger assets tracked over long distances
- Passive tags for smaller objects tracked over shorter distances





#### Things to Consider

- Over what distance do I need to track an object?
- What location accuracy is required?
- What is the object made of?
- What other RF devices operate in the area?
- Does the RFID system need to be intrinsically safe?



### More Things to Consider

Do I need to monitor the condition of the asset?

Will the tag be subject to extreme temperatures or physical

punishment?

 How important is the security of the data on the tag?





#### Prioritize, Prioritize, Prioritize

- Which applications will deliver the most short-term value?
  - Greatest cost savings
  - Greatest contribution to company goals
  - Greatest contribution to worker safety





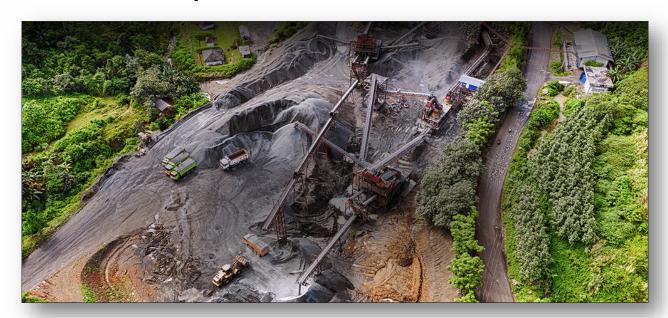
#### Start Small and Expand

- Start with an application that will give you a return on investment
- Have a clear idea of what the overall infrastructure will look like
- Each new application should build on the existing infrastructure
- The final product should be an enterprise-wide solution



#### Pilot the Application

- Make sure the technology works in your environment
- Make sure the system delivers the expected ROI
- Work out any kinks





#### Pilot the Application

- Identify primary and secondary technology suppliers
- Role out the application
- Expand the rollout





#### Change Management

- People will be suspicious that they are being tracked or will be fired
- Explain what data is collected and why
- Explain how RFID will improve operations
- Make sure system complies with union rules
- Train people on the basics of maintenance



#### Keys to Ensuring Success

- Make sure one senior executive "owns" RFID and is the champion for the project
- Have a clear set of goals and a phased implementation for achieving them
- Educate those who will be affected by RFID and get them to buy into it



#### Questions?

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## THANKYOU

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