Today’s Team

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Southern Company’s Top Priorities

• Excel at the Fundamentals
• Achieve success with Major Construction
• Support the Building of a National Energy Policy
• Promote Energy Innovation
• Value and Develop Our People
Bringing the Business and IT Together

- Better Information
- Access from Anywhere
- Changing Workforce Dynamics

SOUTHERN COMPANY

educate  collaborate  innovate
Innovation is:
The successful exploitation of ideas generated at the intersection of invention and insight, which leads to the creation of social or economic value.
Internet of Everything

Source: Cisco
iBeacons & QR Codes

- Augment exhibits at Customer Centers with online content
- Access online equipment info

What is an iBeacon?

- An iBeacon is a low-powered transmitter that works with an iOS or Android app to display related content about a nearby item of interest.
- Southern Company can use iBeacons to provide equipment-based information on safety, work orders, procedures, tag outs and contact people.
3D Printing

- Rapid prototyping and retrofits
- Employee ideas
Wearable Computing

Access from Anywhere
Powerful Mobile Devices
Infrared on iPhones for Thermal Scanning

- Creates infrared photos/video
- Low cost alternative to traditional thermal imaging

Retail Price: $250*

* Requires iPhone 5 or 5s
3D Scanning

- Google Project Tango
  - Development Kit
- 3D Photo Scanner
  - High quality images & easy to use
  - Scan company facilities
  - View on traditional or 3D devices
Virtual Reality for Training

- Apply gaming technology to business
- Training simulation of a substation
- Power plant design files

Retail Price: $250
Samsung Gear VR & Google Cardboard VR

Retail Pricing: $305*
* Requires Samsung Galaxy Note 4

Retail Pricing: $5 and up*
* Requires a smartphone
Augmented Reality Headsets – Field Use

- **Google Glass Explorer Program**
  - Beta was in 2014
  - Production date unclear

- **Microsoft Hololens**
  - Expected 2015 with Windows 10 release

- **Industrial Rugged Headset**
  - Several candidates to consider in 2015/16
Wearable Computing Procedures Tool

- Top feedback during Google Glass pilot: we need a wearable computing procedures tool
- Smart watches may meet this need
- Pilot tool in Microsoft Azure to work with multiple smart watch types
Wearable Robotic Controls

- Myo Armband
- Control equipment with gestures
Robotics
Security Robots for Unmanned Locations
Unmanned Aerial Vehicles

Source: SkyBama.com
Enabling the self-healing grid

Restoration Gateway
Changing Workforce Dynamics

At Southern Company over the next ten years, 15,000 employees will be over 55!
Cyber Security

Job Openings

Healthy Computing

Web Surfing

Malicious Threats
Gamification
Bringing the Business and IT Together