# Mobile Applications That Will Change the Way We Use Broadband

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### **Enviance: Software to Save the Planet**

Enviance System leverages the Internet, and deep environmental domain knowledge to unlock the data needed to confidently manage greenhouse gas and regulatory compliance

- Enviance System automates
  - Greenhouse gas foot printing and reduction management
  - Air, water, and waste emissions management
  - Compliance/GHG task management (calendar, reminders, escalations)
  - Notifications and escalations when data or tasks may be out of compliance
  - Regulatory and stakeholder reporting



### **Pioneer and Thought Leader**

#### **FIRSTS:**

- 2001: Internet-based system to automate air, water, and waste emissions compliance
- 2005: Internet-based greenhouse gas (GHG) management system
- 2008: Internet-based vehicular carbon dioxide management system
- 2008: GHG Bootprint in Department of Defense (2008)
- Only 'full media' provider of Internet-based system
- 7x24x365 operation, across 45 countries
- Adopted by leaders in Process Industries and by US Army
- Over 500 years of environmental compliance experience
- 360° knowledge: Employees include former regulators, facility managers, consultants, soldiers, installation inspectors









### **Working with Climate Change Leaders**





















🗐 FIJJIFILM

















CDP Climate Leaders Index

#### Chemicals - DuPont

#1 USA & #2 Global Ceres

#### Oil & Gas – Chevron

DJ Sustainability Index

### Major US City – Denver

1st Driving Behavior Study

### Federal DoD – US Army

First GHG "bootprint"



# Increased Bandwidth Further Opens Up the Internet and Improves the Quality of Compliance

Activity Performed	Current Bandwidth	Increased Bandwidth
Complete mandated task	✓	$\checkmark$
Manually enter data required for compliance	✓	✓
Upload data in 'bulk' (e.g. via spreadsheet) to ensure compliance		<b>✓</b>
Run reports to timely manage compliance data		✓
Review online 'dashboards' - Achievement of carbon emission goals - Energy efficiency - Impact on operations based on cost of carbon		✓
Add or modify regulations/permit conditions for 'evergreen' compliance system		✓
Update internal or external permit limits to maintain accurate representation of compliance obligations		✓



# 4G Enhanced Reliability and Security Increases the Value of Mobile Enterprise Applications

- Information collected, analyzed and managed, in real-time, directly at renewable energy sources
  - Solar, wind, bio-gas sources are typically in remote areas of the country
  - Real-time analysis and reporting of newly entered data, including asset efficiency, anytime, anywhere
- Improved security increases the amount and type of data that moves to and from the internet and mobile devices

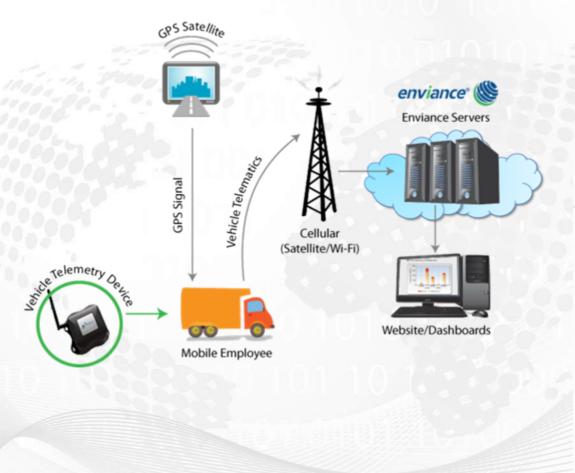


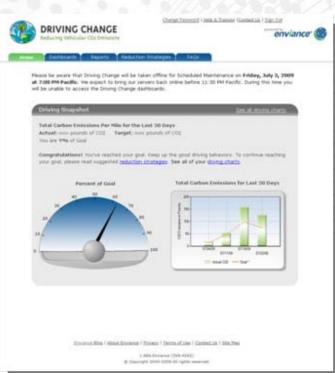






# Driving Change Dashboards Via Mobile Devices Becomes a Reality With 4G







## **Extending Mobile Broadband to Supply Chain Environmentalism**



# **Emerging Opportunity: Supply Chain Environmentalism**

Defined: the effort of the retail community to recast the competition in the commodity marketplace by treating carbon content as a differentiator for same-priced commodity products.

#### A \$1.39 screwdriver is not longer just a \$1.39 screwdriver

- De-commoditize commodity markets
  - Reshape competition in global commodity markets
- Engage the US consumer
- Green the planet by changing manufacturing practices
- Green US wallets



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