



Passive Wireless Sensor Tag Workshop

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Safety Moment



Objectives



- **Understand various PWST technologies, actual & potential uses, and maturity.**
- **Assess the future applications/advantages/limitations in various industries.**
- **Assess what is needed for high volume production, standardization & communication.**
- **Precipitate individual and group “next step” thinking to further develop/apply PWSTs.**

What Is PWST?



- **No battery**
- **No need for scavenging power**
- **No wired connection between the sensor and the data acquisition**
- **Provides a sensor reading along with a unique tag id**

Approach



- **Set Landscape/Vision Of PWST**
- **Introduction To PWST Technology**
- **Survey Of Existing Solutions/Technology**
- **Review Of End User Cases**
- **One On One Sessions/Way Forward Sessions**

Why This Is Important To BP



- Cost - No battery and no radio costs
- Manufacture In Quantity – Like RFID tags
- Life time power – no battery replacement
- Safety – little or no stored power

Generation 1		Generation 2		Generation 3		Generation 4
Wired		Motes		Active Sensor Tags		PWST?
~\$10,000 per point	~\$1,000 per point	~\$100per point	~\$10 per point			

True “Lick and Stick” Sensors



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