



standardization
and innovation

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When the Need is Time Critical

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When the Need is Time Critical

■ Agenda

- Using existing technology for a new markets
- What to do when deploying a solution is time critical
- Setting a standard while maintaining control of classified information
- Balancing the national and international requirements
- Allowing for commercial innovation while managing common performance standards

Using existing technology for a new markets

- Radiation detection's first commercial deployment were in steel mills and scrap yards
- These systems were used to reduce the risk of a source being melted in recycled steel
- The need was financial not security
 - Then a requirement was identified

What to do when deploying a solution is time critical

- After 9/11 the requirement for screening for radiological material became a critical need
- The expectation set was to move quickly with the best possible solution available
- Evolutionary improvements were a must
- Revolutionary improvements must be considered in the deployment

Setting a standard while maintaining control of classified information

- The standard for the steel industry was based on a tolerable level of false alarms
- Outlining performance criteria within a real world environment
 - Background levels
 - Impact from cosmic
 - NORM in the area
- For this application the need is to detect RDD and/or WMD in a complex cargo area – How can this be stated without giving out the amount of materials and environmental data?

Balancing the national and international requirements

- Some foreign governments were years ahead of the U S deployment
- There are multiple standards and specifications for performance
 - How does a commercial company maximize its development dollars when more than a dozen different performance requirements exist?
- Standards for one application may or may not apply to others
- Demands for “local content” are not standards
- Selecting the critical performance

Allowing for commercial innovation while managing common performance standards

- Standards should not be confused with specifications
- Commercial viability is improved if companies can apply the same products to multiple applications
- Standards should not impede innovation
- Standards for testing and performance evaluation are important

Summary

- Standards can allow for incremental improvements
- Commercial innovation does not have to be limited by standards
- Requirements are global in scope and the standards should also reach around the world
- Setting evaluation methodology for performance is as important as the standard itself