

# Public Transit Radiological and Explosives Detection for Rail Safety & Security

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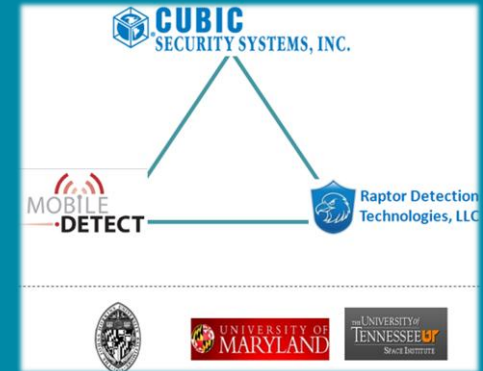


**2012 RAIL CONFERENCE**

# Transit Threat Detection Background

## History:

- The project started in early 2009
- A collaborative team was formed under the direction of Cubic Security Systems
- The Canadian Government was/is the primary sponsor

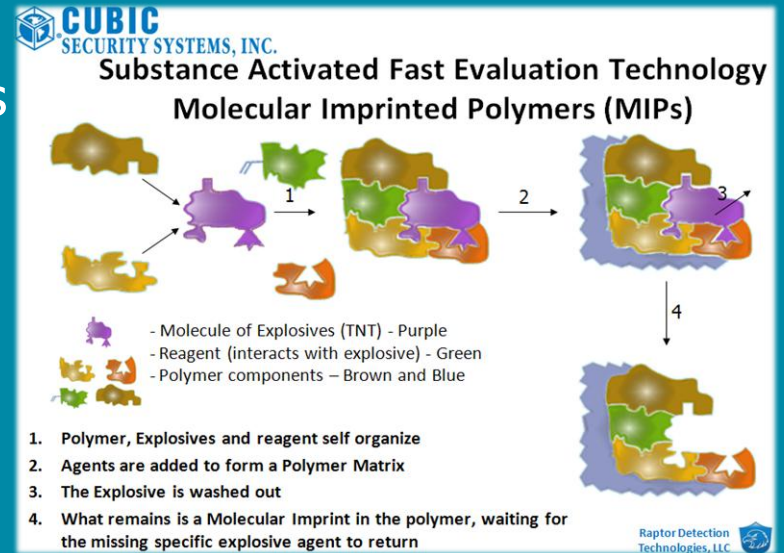


## Objective:

- Provide both radiological and explosives detection that would not impede the normal flow “dwell time” of the ridership
- Provide a solid cost effective solution
- Target unregistered fare media
- Designed specifically for public transit

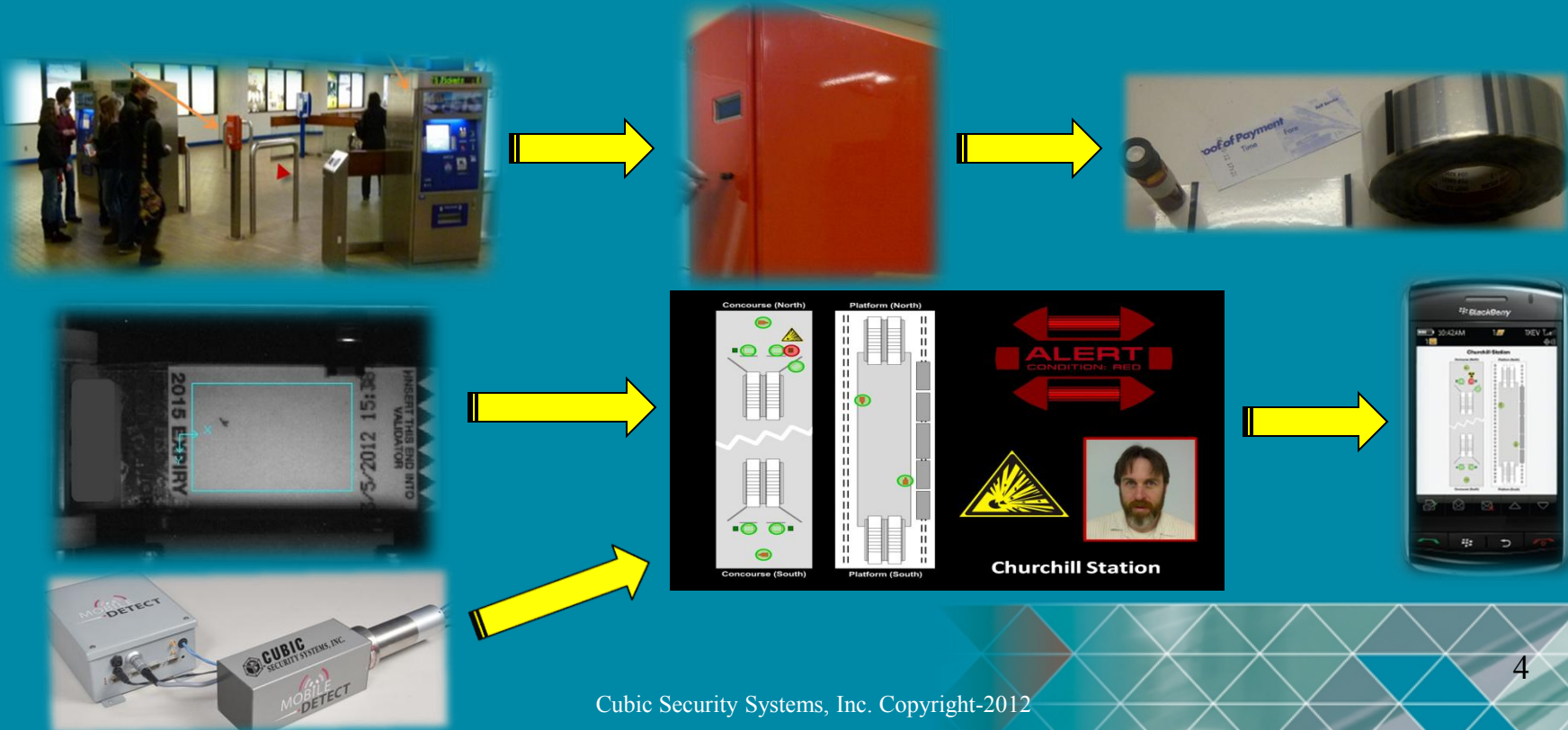
# Technology in Brief

- **Radiological Sensors**
  - Targeted Automatic Gamma (TAGs) Spectroscopy™
- **Explosives Detection**
  - Molecularly Imprinted Polymers
- **Integrated Imaging & Analysis System**



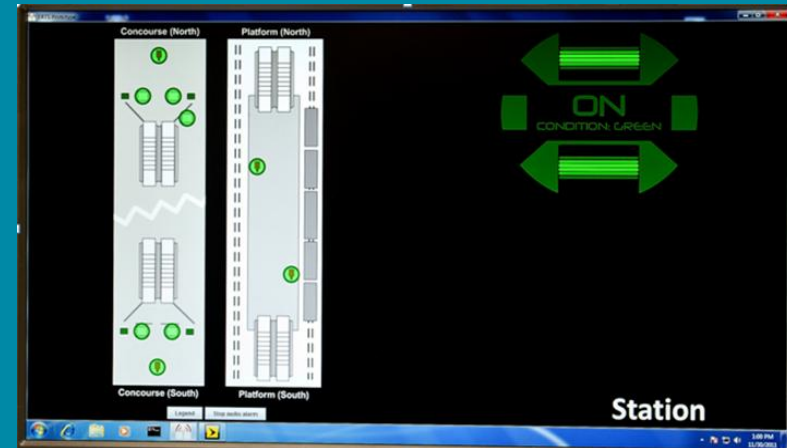
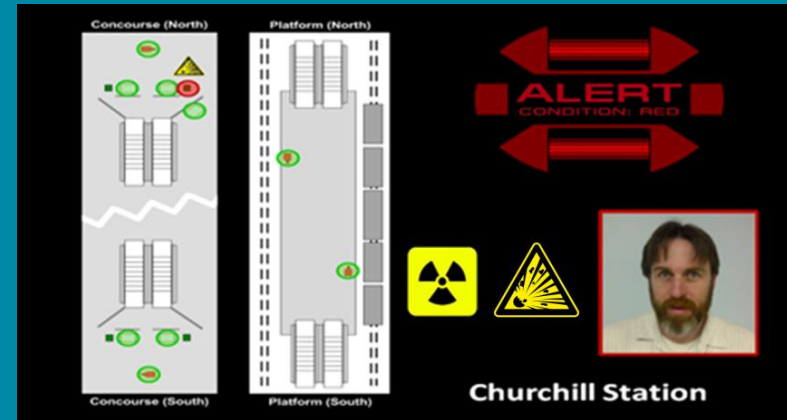
# Example Station Implementation

- Customer experience
- Fast detection events (*less than 5.0 seconds*)
- Encrypted communications
- Reporting event coupled to ConOps



# Backend Monitoring Environment

- Comprehensive backend RadWatch™ command & control software environment
- Alert screens for:
  - Explosives Detection
  - Radiological Detection
  - Potential Dirty Bomb Detection
  - Safe Mode Operation
- Both visual and or audible feedback
- Clearly detects and processes the difference between “threat” and “medical” radiologic events



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**Thank You**