



# Homeland Security – Innovation Collaboration, Standardization

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Security Equipment Certified Performance Data  
a Government Private Industry Partnership

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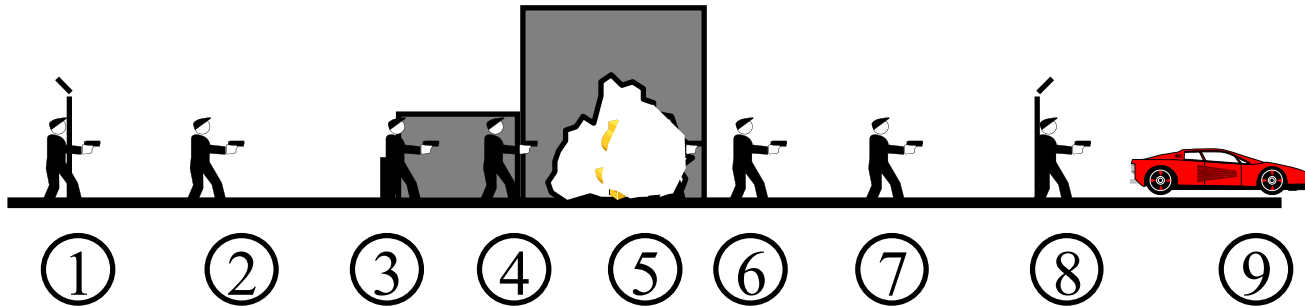


# MISSION

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## Self Sustaining Certified Performance Data Program for Security Equipment

# Risk Evaluation and Mitigation



## #. Action (Probability of Detection, Delay Time)

- |                              |                           |
|------------------------------|---------------------------|
| 1. Climb fence (0.1, 5)      | 6. Exit building (0.1, 5) |
| 2. Run to building (0.1, 15) | 7. Run to fence (0.3, 15) |
| 3. Open door (0.3, 20)       | 8. Climb fence (0.3, 5)   |
| 4. Move to asset (0.5, 30)   | 9. Leave area (0.1, 7)    |
| 5. Remove asset (0.4, 300)   |                           |

# Risk Evaluation Engine

**Analysis Data Summary**

**Analysis Of Information**

Response: On site guard

Response Force Time = 240.00

Probability of Communication = 0.90

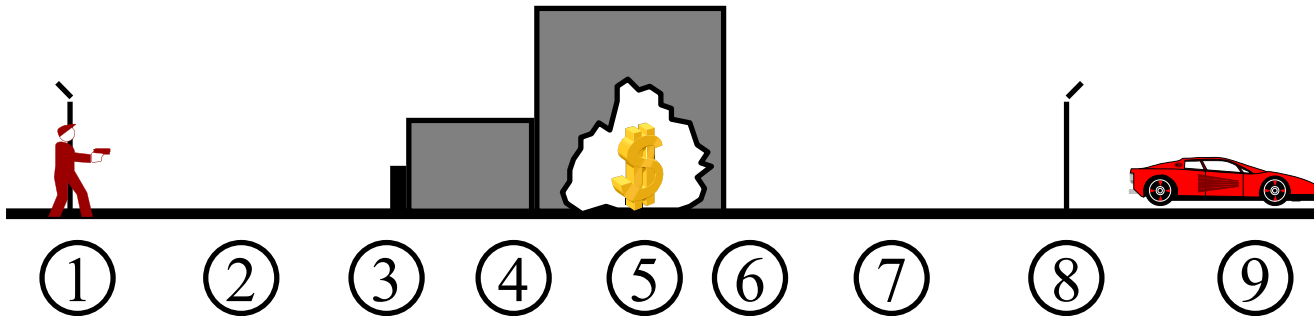
Standard Deviation = 0.20

	PI	Detection	Delay	Deviation	Description
1		0.10	5.00	0.20	Outer Fence
2	0.17	0.10	15.00	0.20	Open Area
3	0.40	0.30	20.00	0.20	Outer door
4	0.67	0.50	30.00	0.20	Inside area
5	0.67	0.40	300.00	0.20	Asset area
6	0.67	0.10	5.00	0.20	Outer door
7	0.67	0.30	10.00	0.20	Open area
8	0.67	0.10	7.00	0.20	Fast car

Probability of Interruption: 0.67

CLOSE

# Modified Analysis



## #. Action (Probability of Detection, Delay Time)

- |                              |                           |
|------------------------------|---------------------------|
| 1. Climb fence (0.9, 5)      | 6. Exit building (0.1, 5) |
| 2. Run to building (0.1, 15) | 7. Run to fence (0.1, 15) |
| 3. Open door (0.3, 20)       | 8. Climb fence (0.3, 5)   |
| 4. Move to asset (0.5, 30)   | 9. Leave area (0.1, 7)    |
| 5. Remove asset (0.4, 300)   |                           |

# Recomputed Risk

**Analysis Data Summary**

**Analysis Of Information**

Response:       Response Force Time = 240.00

Probability of Communication = 0.90      Standard Deviation = 0.20

	PI	Detection	Delay	Deviation	Description
1		0.90	5.00	0.20	Outer Fence
2	0.83	0.10	15.00	0.20	Open Area
3	0.87	0.30	20.00	0.20	Outer door
4	0.93	0.50	30.00	0.20	Inside area
5	0.93	0.40	300.00	0.20	Asset area
6	0.93	0.10	5.00	0.20	Outer door
7	0.93	0.30	10.00	0.20	Open area
8	0.93	0.10	7.00	0.20	Fast car

Probability of Interruption:       **CLOSE**



# Program Mission

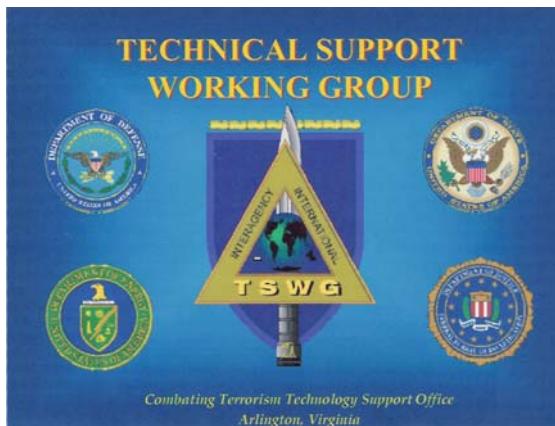
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Self sustaining **Certified Performance Data**  
Program program that:

- Develops consistent performance data for assessment/analysis engine. No pass/fail criteria
- Based on traditional UL process type testing and follow-up.
- Certification based on National Norms.
- Manufacturers involved in standards development

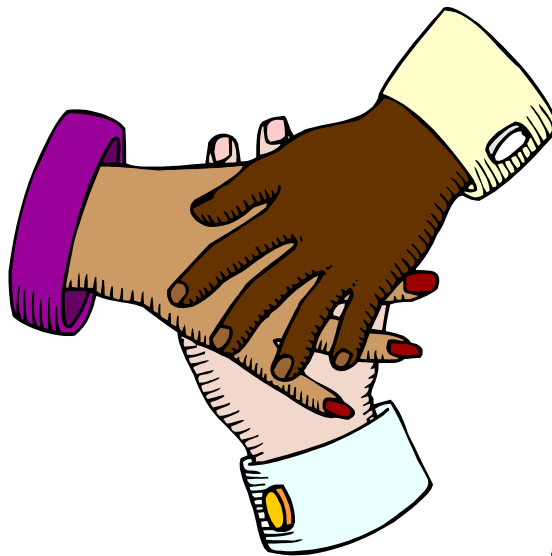
# The Partners

## Government



**Sandia  
National  
Laboratories**

## Private Sector

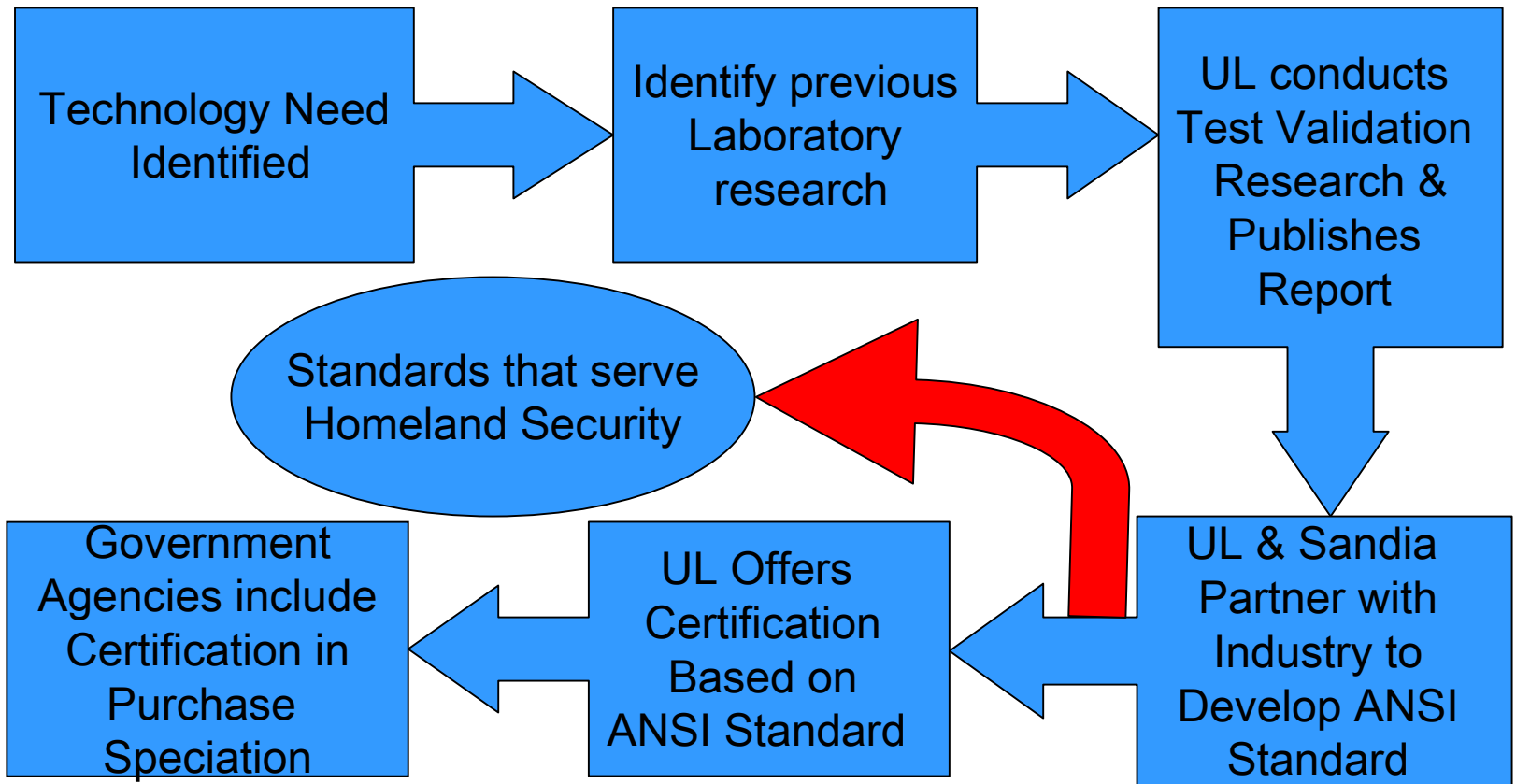


**Working for  
a safer world**

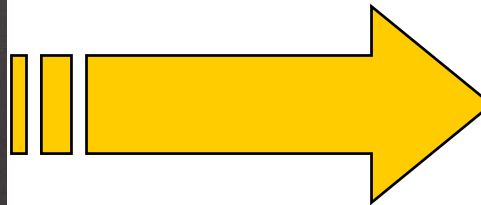
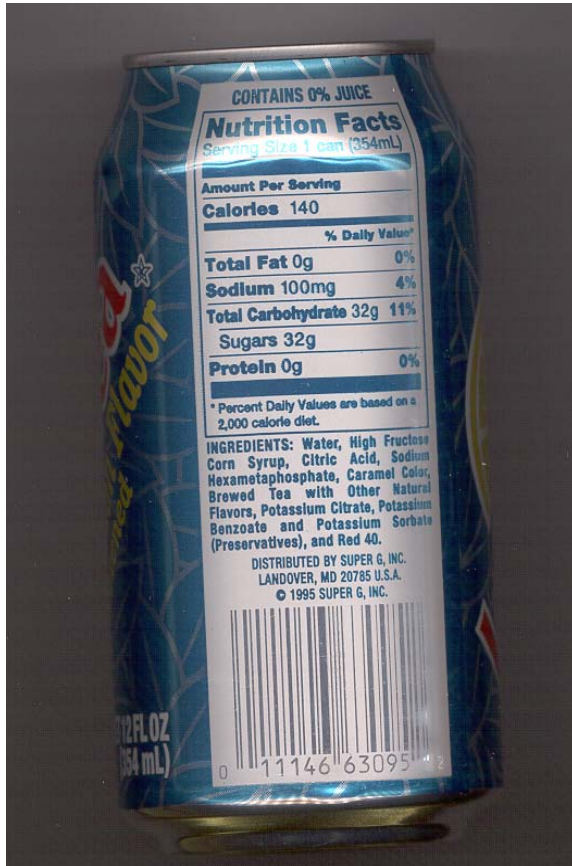




# The Process



# The Product



<b>Performance Facts</b>	
<b>Installation</b>	
Height	8 feet
Angle	45° below Horiz.
<b>Detection Parameters</b>	
Lens Type	Wide Angle
Maximum Range	30 feet (± 6 inches)
Horizontal Coverage	80° (± 2°)
Vertical Coverage	70° (± 2°)
<b>Probability of Detection</b>	
<b>Across Field</b>	
Far Field (@ 28')	0.92
Mid Range (@15')	0.99
Towards Sensor	0.95
<b>Nuisance Alarms</b>	
External Lighting	0 per 30 cycles
Small Animals	0 per 30 cycles
Localized Heating	2 per 30 cycles
<b>Environmental</b>	
Max. Operating Temp.	120° F
Min. Operating Temp.	0° F
Relative Humidity	95%

# The Standards

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