

A Security Solutions Provider

Introduction to Capabilities & Past Performance

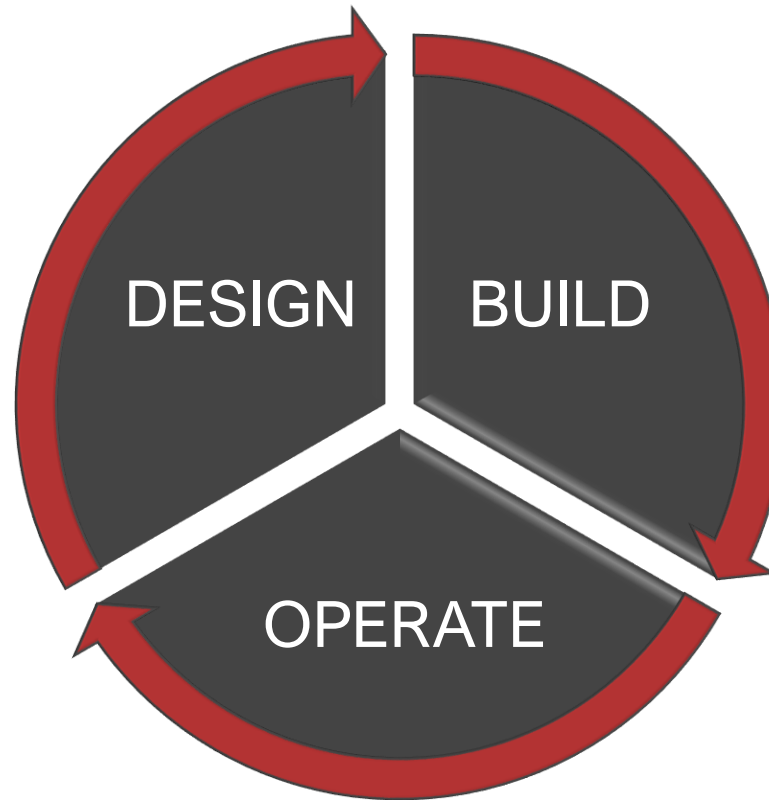
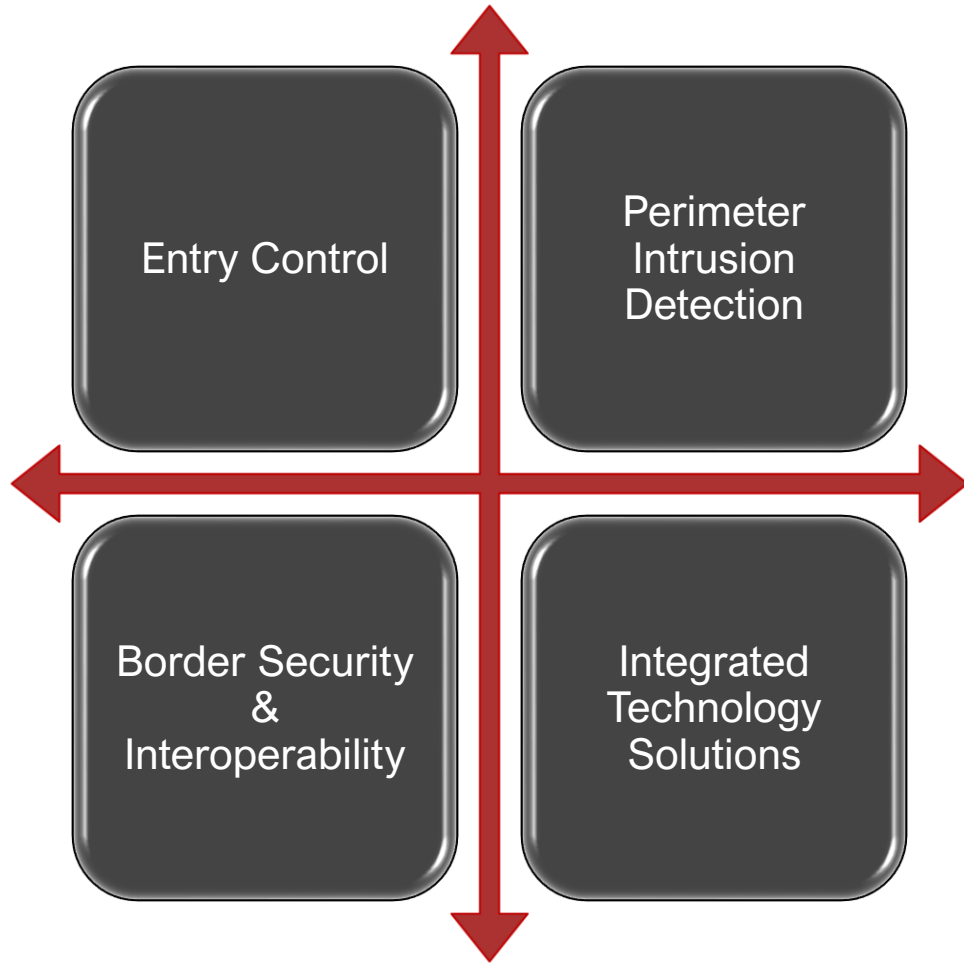
About Us

One of the world's well-known providers of turnkey security solutions

- Established in 1976 as a physical security systems engineering and manufacturing company.
- Focused on delivering high quality, cost effective entry control and perimeter security solutions.
- High-Profile, High-Threat environment protection.
- ECSI is a registered and verified vendor of the US Federal Contractor Registration Program.
- Competitive Small Business Entity
- ISO 9001 Certified



WE provide...



WE provide...

- Multi-layered, customized solutions;
- Best use of People, Procedures and the proper use of Technology to maximize ROI
- Providing State of the art solutions with minimum interference to daily operations and routines

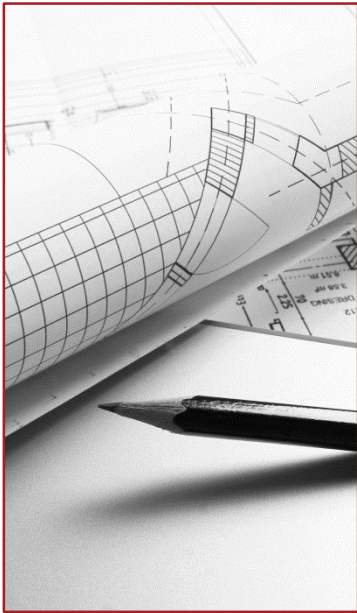


What we offer

Services



Site Survey
Risk Assessment



Design &
Engineering



Systems
Manufacturing &
Integration



Factory Acceptance
Testing



Installation
Supervision



Commissioning

Operations, Procedures and Maintenance Training

Critical National Infrastructure

Industry Vertical Areas of Interest



Nuclear
Power



Chemical
Plants



Financial
Institutions



Electric
Power



Pipelines



Transportation
Hubs



Government
Facilities



Emergency
Services



Food
Production



Oil&Gas



Water



Health



Communications



National
Defense

Physical Security



What Level of Protection is Adequate?



Deter



Detect



Delay



Respond

DETER

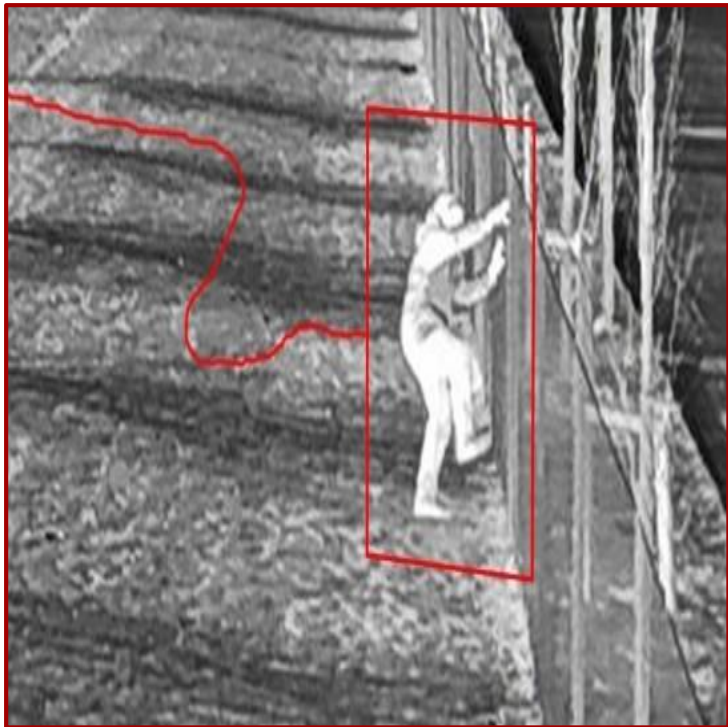
Deterrence is the act of turning someone back, discarding, discouraging or preventing them from acting, usually out of fear of being caught.



- **The PPS incorporates deterrence in the form of:**
 - CPTED – Crime Prevention Through Environmental Design
 - Posted warning signs & regulations
 - Routine and random check points
 - Highly visible routine and random patrols
 - Strict access control protocols
 - Mobile check posts (where applicable)
 - Gate complex management
 - and more...

DETECT

Detection is achieved by deploying sensors, both stationary and mobile, as well as human detection methods (i.e. check points, patrols)



■ **The PPS incorporates detection in the form of:**

- Long, Medium and Short-Range Radar systems
- Presence sensors
- Electro-Optic devices
- CCTV
- Video analytics
- Mobile Surveillance Unit (MSU)
- Check points
- Gate Complex management
- Smart Fences/Walls
- Sonar – Offshore and coastal
- and more...

DELAY

Delaying an intrusion attempt serves to afford time for a viable response.

The longer it takes to intrude; the more time is provided for response



■ **The PPS incorporates delay factors in the form of:**

- CPTED – Crime Prevention Through Environmental Design
- Barriers
- Fences
- Walls
- Roundabouts
- Passive & Active devices
- and more...

RESPOND

The response function consists of actions taken by the system and/or a response force to prevent adversary success.



■ **The PPS incorporates 'response' in the form of:**

- Sounding of an alarm
- Turning 'ON' of lights
- Security dispatch
- Smoke screening
- Lock-downs
- Video broadcast
- Other procedures...

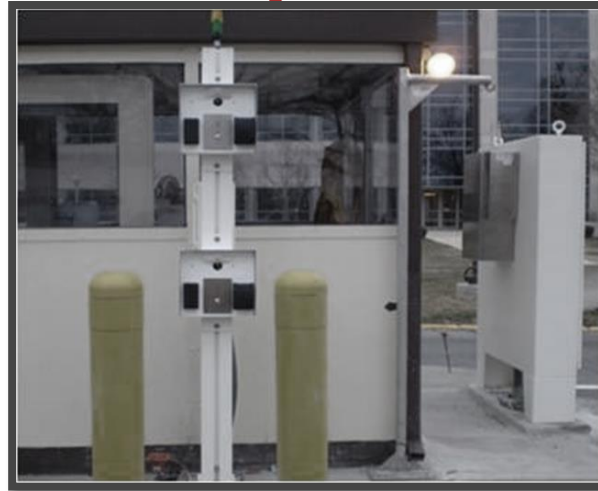
Systems Manufactured & Deployed

- **Automated Entry Control System (AECS)**
- **FOIDS®** – Fiber Optic Intelligence Detection System
- **IPID®** – Infrared Perimeter Intrusion Detection
- **Day/Night & Thermal Imaging Cameras**
- **Intelligent Video Motion Detection (IVMD)**
- **WISE®** – Water Infrastructure Sensing Equipment
- **IDMS®** – Interoperable Device Management System
(Command & Control)



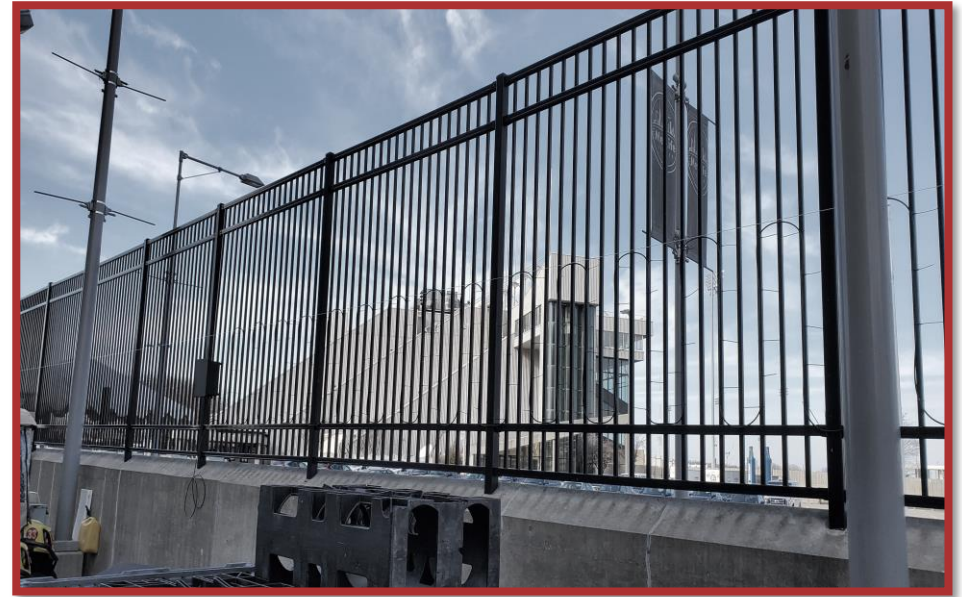
AECS Automated Entry Control System

- Card Readers & Biometrics
- Light Indicators
- Intercoms & CCTV
- RFID Vehicle Tag Reader
- Front & Rear License Plate Readers
- Under Vehicle Inspection Systems
- Vehicle Arm Barriers & Bollards
- Anti-Ramming Road Blockers
- Fixed Cameras for situational awareness



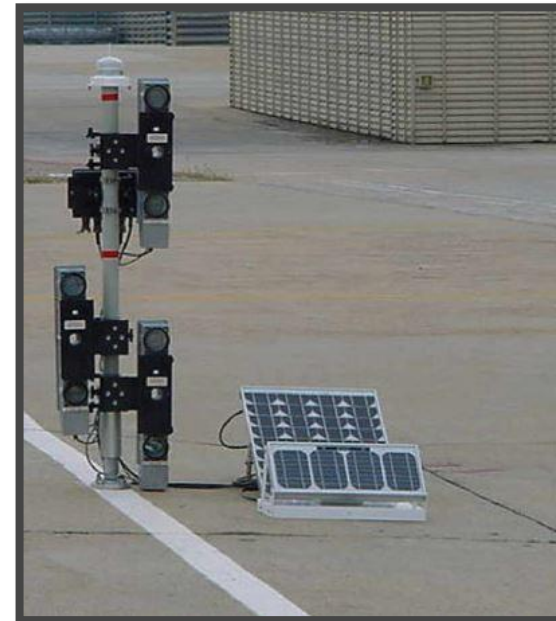
FOIDS® - Fiber Optic Intelligence and Detection System

- **FOIDS®** is a cost-effective perimeter security system utilizing single-mode fiber optic cable and highly sensitive interferometry technology
- Intrusion detection zones along fences and walls can be setup to a zone length of 5Km
- Perfectly suited for Energy, Chemical and Petro-chemical facilities
- **NO ELECTRONICS INSTALLED AT THE FENCE!**
- **FOIDS® is immune to lightning strikes, EMI or other types of interferences**
- **FOIDS®** can be installed on all types of fences, walls, roof-tops and in-ground applications
- **10-year system warranty on processors**



IPID[®] - Infrared Perimeter Intrusion Detection

- U.S. Air Force Certified
- Standard with DoE and NRC Power Stations
- Provides undefeatable barrier of pulsed infrared beams
- Multiple intrusion detection zones, each with a range up to 100m
- Will only alarm if an object breaks the 9cm diameter beam by more than 98.5%
- Modular design can be stacked to form invisible wall that cannot be penetrated without detection
- Available in multiple configurations including specific applications such as:
 - Top-of-the-Fence Terrain-following
 - Flight Line Security
 - Tactical, Rapid Deployable Intrusion Detection System (RDIDS)
 - Architectural columns and Bollards
- **10-year warranty on sensors**



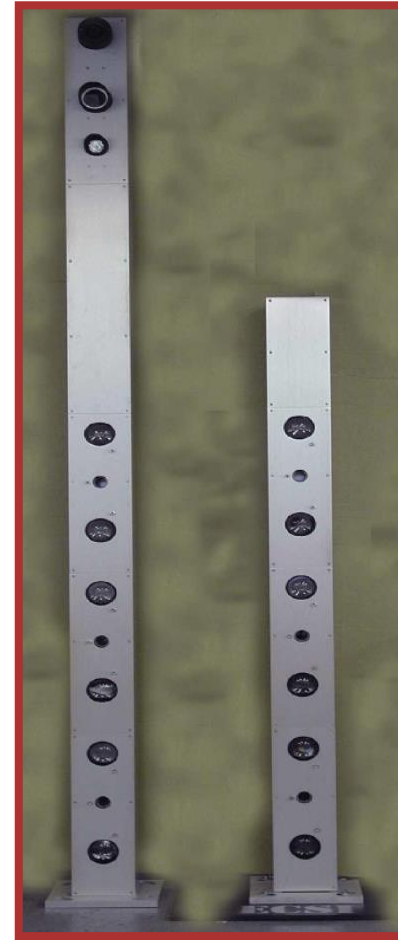
TASS – Tactical Automated Sensor System

- Tactical configuration of **IPID®**
- US Air Force certified
- Undefeatable barrier of pulsed infrared beams
- Site adaptable for difficult applications including drainage areas and mountainous terrain
- High Probability of detection (Pd) and Low NAR/FAR
- Fast, accurate alignment
- **Temperature range:** -40°C to +70°C
- **MTBF >50,000 hours**
- **Effective coverage:**
 - Clear conditions: up to 300m
 - Foggy conditions: up to 100m
- **10-year warranty on sensors**



IPID® - Architectural Column & Bollards

- Customizable towers, column, and bollards may be integrated with options such as lighting and/or cameras
- Undefeatable barrier of pulsed infrared beams
- Site adaptable for less obtrusive appearance
- High Probability of detection (Pd) and Low NAR/FAR
- Fast, accurate alignment
- **Temperature range:** -40°C to +70°C
- **MTBF >50,000 hours**
- **Effective coverage:**
 - Clear conditions: up to 300m
 - Foggy conditions: up to 100m
- **10-year warranty on sensors**



LRCS - Long Range Camera Systems

ECSI provides Long Range Camera Systems, custom built to customer specifications and budget.

Our customized approach provides the customer with a complete end-to-end solution based on the specific operational requirements of each camera system.

- The LRCS series are built to the highest quality standards
- Offering the longest ranges of any similar class camera system on the market which includes:
 - ☐ Visible
 - ☐ IR, and
 - ☐ Cooled and uncooled thermal imaging systems
- LRCS series are designed for the harshest of environments including; **Marine, Military, desert and the Arctic**



LRCS - Long Range Camera Systems

With customer requirements and expectations at the forefront, ECSI is focused on giving the customer what they need and not adjusting operational requirements to system specification!

The LRCS series can provide:

- MWIR & LWIR thermal infrared imaging
- laser illumination
- SWIR
- HD long-range visible and NIR imaging
- gyro stabilization
- radar integration
- and more...

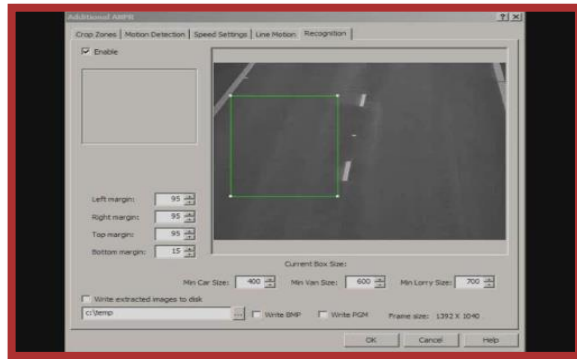
The LRCS series can provide:

- MWIR & LWIR thermal infrared imaging
- Laser illumination
- SWIR
- HD long-range visible and NIR imaging
- Gyro-gimble stabilization
- Radar system integration
- and more...

The LRCS series are available for surveillance ranges from 250m to 25Km and for detection ranges to 50Km (depending on lens, environmental conditions, size of object and customer expectation)

IVMD Intelligent Video Motion Detection

License Plate Recognition



People Counting and Direction



Loitering



- Motion/Non-motion Detection
- Cross-Line/Path Detection
- People Counting
- Static Object Detection
- Presence Detection
- Directional Motion
- Object Removal/placement
- Speed Detection
- Loitering Detection
- Scene Switch
- License Plate Recognition

Unattended Baggage



People Tracking



Video Synopsis



Day-Night/Thermal Cameras integrated with IVMD offers additional line of detection/assessment to provide layered approach to perimeter security

WISE® Water Infrastructure Sensing Equipment

- Continually monitors water for chemical and biological anomalies, on-line and in real time
- Immediately reports out-of-parameter conditions (via email or SCADA) to any number of recipients
- **Chemical Detection** using combination of industry standard sensors to detect and report out-of-parameter conditions which could indicate a contamination event:
 - Temperature
 - pH
 - Conductivity
 - ORP/Redox
- **Biological Detection:** Analyzes Multi-Angle Laser Light Scattering Signals (MALS) to monitor and detect waterborne micro-organisms or other particles
- Draws sample of contaminated water for further analysis
- System capable of bypassing or shutting down flow of contaminated water
- Increased efficiency through process control optimization
- **US DoD/EPA tested**
- **Five (5) year warranty**



IDMS® Interoperable Device Management System

To ensure a holistic security management system, IDMS® delivers:

- **Comprehensive integration of security systems:** transparent to the end user
- **Single view of events and incidents:** via customized role-specific graphical user interfaces and dashboards
- **Process-driven event management:** via graphical workflow tools, response plans and customized alarm stack design
- **Analysis, status and management information:** built-in report configurators to provide timely and effective reports and statistics on compliance to security policies
- **Open architecture** allows integration of new and legacy systems:
- Ability to monitor and control systems simultaneously through one easy-to-use interface.
 - Automated Entry Control Systems (AECS)
 - Perimeter Intrusion Detection Systems (PIDS)
 - Day/Night & Thermal Imaging Cameras
 - Intelligent Video Motion Detection (IVMD)



Comprehensive Interoperability Platform for Total System Management Capability

Command & Control

Event Management



- Event management
- Logging system alerts
- Pop-up alerts
- Decision support tools
- All event-related data and video saved in “Event Pack”

Video Management



- Effective video management
- Recording video from many types of sensors
- Analytics - vehicle tracking, tracing, face recognition, queue monitoring, unattended baggage, loitering , etc...
- Online/Offline video investigations

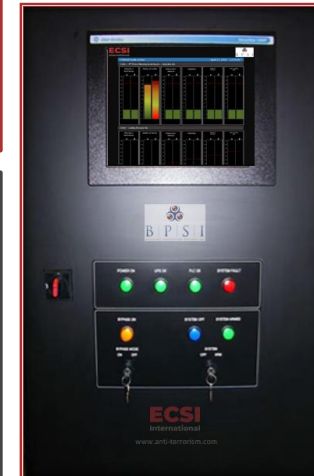
Situational Awareness



- ISAP: Integrated Situational Awareness
- GIS Layers:
 - Streets
 - Sensors
 - Sites
 - visitors
 - Personnel
 - Response team

Additional Solution Offerings

- Long Range IR Cameras
- Small Target Radar
- Long Range Acoustic Device (LRAD™)
- Fiber Optic / Wireless Communications
- Observation/Surveillance Towers & Masts (stationary & mobile)
- Building Sentry One™ Chemical & Biological Detection System



Past Performance



PAST performance

- ECSI has been a leading manufacturer of entry control, access control, perimeter intrusion detection and interoperability technology solutions for Department of Defense, Department of Energy, Nuclear Power Stations, commercial complex, airports, international chemical and petrochemical facilities since 1976.
- ECSI offers U.S. Air Force certified technology and a comprehensive services portfolio that includes; site survey/risk assessment, design and engineering, systems manufacturing and integration, factory acceptance testing, installation supervision, commissioning, operations and maintenance training.
 - **Partial list of customers...**



PAST performance

US Department of Defense Customers

- Andrews AFB, MD
- Buckley AFB, CO
- Clear AFB, AK
- Davis Monthan AFB, AZ
- Elmendorf AFB, AK
- Eglin AFB, FL
- Fort Bragg, NC
- Fort Hood, TX
- Hanscom AFB, MA
- Holloman AFB, NM
- Homestead AFB, FL
- Langley AFB, VA
- Pope AFB, NC
- Tinker AFB, OK
- Vandenberg AFB, CA
- Whiteman AFB, MO



PAST performance

Correctional Facilities

- Bare Hill, NY
- Bedford Hills, NY
- Chemung, NY
- Clinton, NY Dept. of Corrections
- Cossackie, NY
- Dannemora, NY
- Eastern, NY
- Federal Bureau of Prisons, NC
- Federal Bureau of Prisons, NJ
- Hamilton County Justice Complex, OH
- Middlesex County Correctional, NJ
- Minnesota High Security Correctional, MN
- Mohawk, NY
- Monmouth County Correctional, NJ
- Riker's Island, NY
- Rockland County, NY
- Trenton State Prison, NJ
- Sing-Sing, NY
- Sullivan, NY
- Wende, NY
- West County Justice Center, CA
- Ypsilante Correction, MI



PAST performance

US Department of Energy



- Sandia
- Los Alamos
- Savannah River
- Hanford
- Lawrence Livermore
- Oak Ridge



PAST performance

US Department of Energy



PAST performance

US Department of Energy

- Alvin Vogtle
- Browns Ferry
- Brunswick
- Calvert Cliffs
- Catawba
- Edwin Hatch
- Grand Gulf
- Hope Creek
- Joseph Farley
- McGuire
- Nine Mile
- Oconee
- Pilgrim
- Salem
- San Onofre
- Seabrook
- Sequoyah
- South Texas Project
- Surry
- Three Mile Island
- Turkey Point
- Watts Bar



PAST performance

International Nuclear Power Stations

South Korea



PAST performance

Oil & Gas

- Rabigh, Aramco
- Riyadh, Aramco
- Jizan, Aramco
- Shaybah, Aramco
- Aramco, Chevron
- Hawiyah Gas Plant, Aramco
- Al Khafji Refinery, KSA
- Chevron, KSA
- Dhahran Tank Farm, KSA
- Haradh Refinery, KSA
- Exxon Mobil, Colombia
- Sona Hess, Algeria



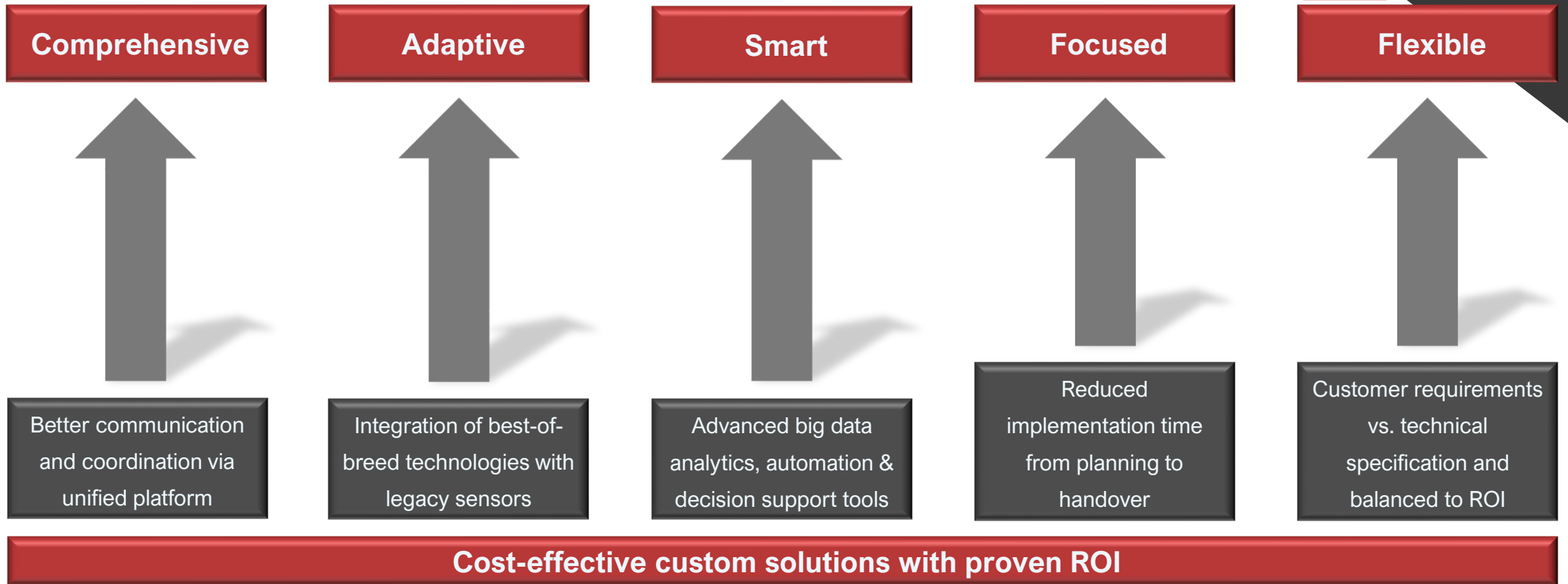
PAST performance

Airports, Seaports, Borders and Other Projects

- Baltimore/Washington Int'l Airport
- John F. Kennedy Int'l Airport, NY
- LaGuardia Airport, NY
- Newark Liberty Int'l Airport, NJ
- Scotiabank, NY
- United Nations Complex, NY
- World Trade Center, NY
- Guatemala – Mexico Border
- Chile – Bolivia Border
- KSA – Yemen Border
- KSA – Iraq Border
- UN Conference Ctr., Ethiopia
- Port of Los Angeles, USA
- Port Harcourt, Nigeria
- Port Lagos, Nigeria
- Port Onne, Nigeria
- Port Tangier, Morocco
- Frontier Forces, So. Border, KSA
- Ontario Hydro Nuclear, Canada
- Hoffman-La Roche, NJ
- USA – Mexico Border



OUR strengths



SUMMARY

- A recognized team of professionals with experience in all aspects of the security business
- Worldwide support locations providing rapid response time
- Technologies for all wired/wireless applications
- Development of lasting partnerships
- Focused on future technologies and integrations
- A team that understands what it takes to solve problems and successfully integrate legacy systems



Thank You.



Jake Muller



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