The Security Oracle is revealing the *Holy Grail* of Security forever sought and now attained, transforming the current best practice of *DETECT DELAY RESPOND* to *DETECT ENGAGE NEUTRALIZE™* (Safely). Our robotic appliances respond about 100 times faster than best responses from other solutions.

WORLD-CHANGING IDEAS

THE SECURITY ORACLE™

THE SECURITY ORACLE

RCADS™ (Remotely Controlled Active Defense and Denial System) technology Robots are Great Neighbors!

- **(WHY)** We have all witnessed the failure of today's security systems to protect against carnage and severe property losses when criminal attacks occur, whether it's an active shooter or someone breaking into an electric power substation to take down the power grid, or even vandals who break out storefronts, looting and setting fire to those buildings.

- **(HOW)** The Security Oracle found a way, using patented artificial intelligence, to stop these attacks in as little as three seconds, or up to 100 times faster than the best security and law enforcement solutions.

- **(WHAT)** We do this by making market-disrupting, purpose-built less-than-lethal security appliances by selecting from the entire world of available superior security technologies, assembling and unifying these components with our special "AI glue" to achieve unparalleled protective performance, solving wicked security problems.

- We've designed and deployed 5 Remotely Controlled Active Defense and Denial Systems, RCADS™ - they have been protecting critical infrastructure for over 200,000 operating hours, exceeding 99.9% uptime. The results are without peer as we helped law enforcement stop potential criminal activity and engaged and drove away intruders attempting to break into critical infrastructure with our safe, long-range nonlethal technologies. The Robots also helped stop a fire from spreading in a high-density community and make neighborhoods safer.

- **(WHERE)** Our Robots are great neighbors and can be deployed anywhere, even protecting critical infrastructure sites bordering residential neighborhoods, as seen here, where residents say they like having them there because they keep away "bad actors."

Remotely Controlled Active Defense and Denial Systems, RCADS™ / Mobile RCADS™ The Holy Grail of Security Response is Here!

Disruptive, Commercialized – The Security Oracle is revealing the Holy Grail of Security, forever sought and now attained, transforming the current best practice of DETECT DELAY RESPOND to DETECT ENGAGE NEUTRALIZE™ *(Safely)*.

A special blend of AI enables our robotic security appliances to precisely and safely respond about 100 times faster than the best responses from other solutions.

The Future is Here – The new technological revolution is robotics. Now is the inflection point in technological growth, transforming the world of work with Machines that force-multiply human efforts creating an unparalleled time of opportunity for investors in AI driven robotics and Machine as a Service (MaaS) providers.

In Production – TSO's crime-fighting Defense and Denial Robots have been credited with reducing crime as reported by clients and neighborhood residents.

Making Investment Resilient – 5 Years of Operational Excellence
TSO's best-of-breed integrated solutions create the fastest protective response for stopping crime; while creating stickier client relationships by reducing total cost of ownership, extremely low system downtime, and higher, recurring profit margins for TSO and higher value for you. Pay less, get more with RCADS™ technology.

Experienced Management – Elite Entrepreneurial Executives – Our team combines entrepreneurs from the world's top security industry, law enforcement, military, AI research and engineering, and technology companies.
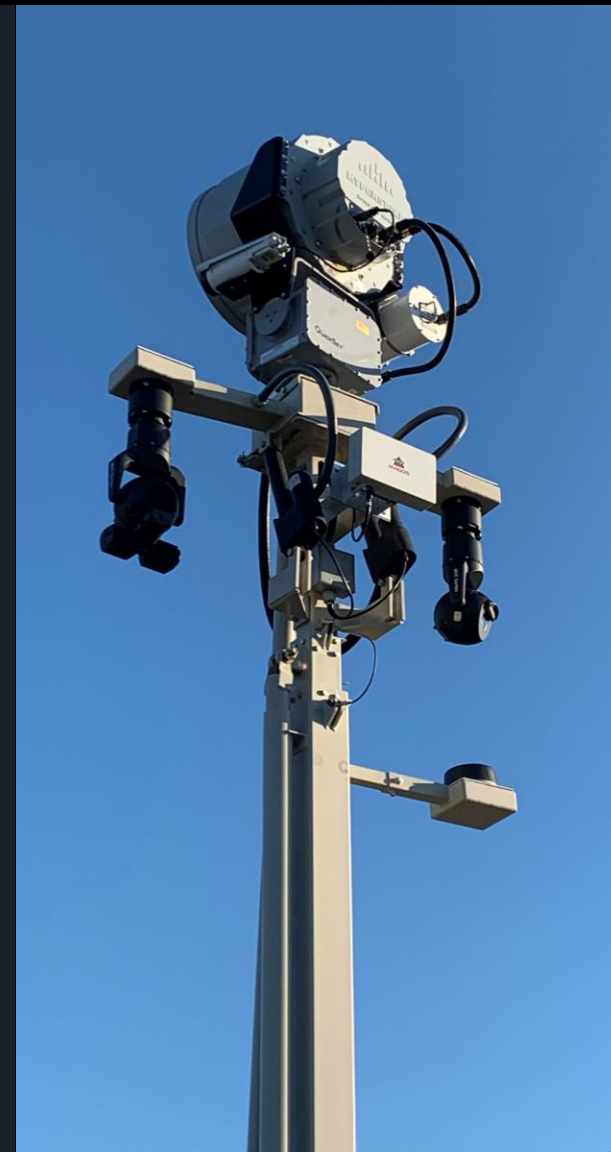
300 SECONDS

WICKED Problem

300 Seconds! The typical best response time for arriving to a crime in progress.

Passive physical protection systems (*PPPS*) such as cameras and fences have proven to be inadequate.
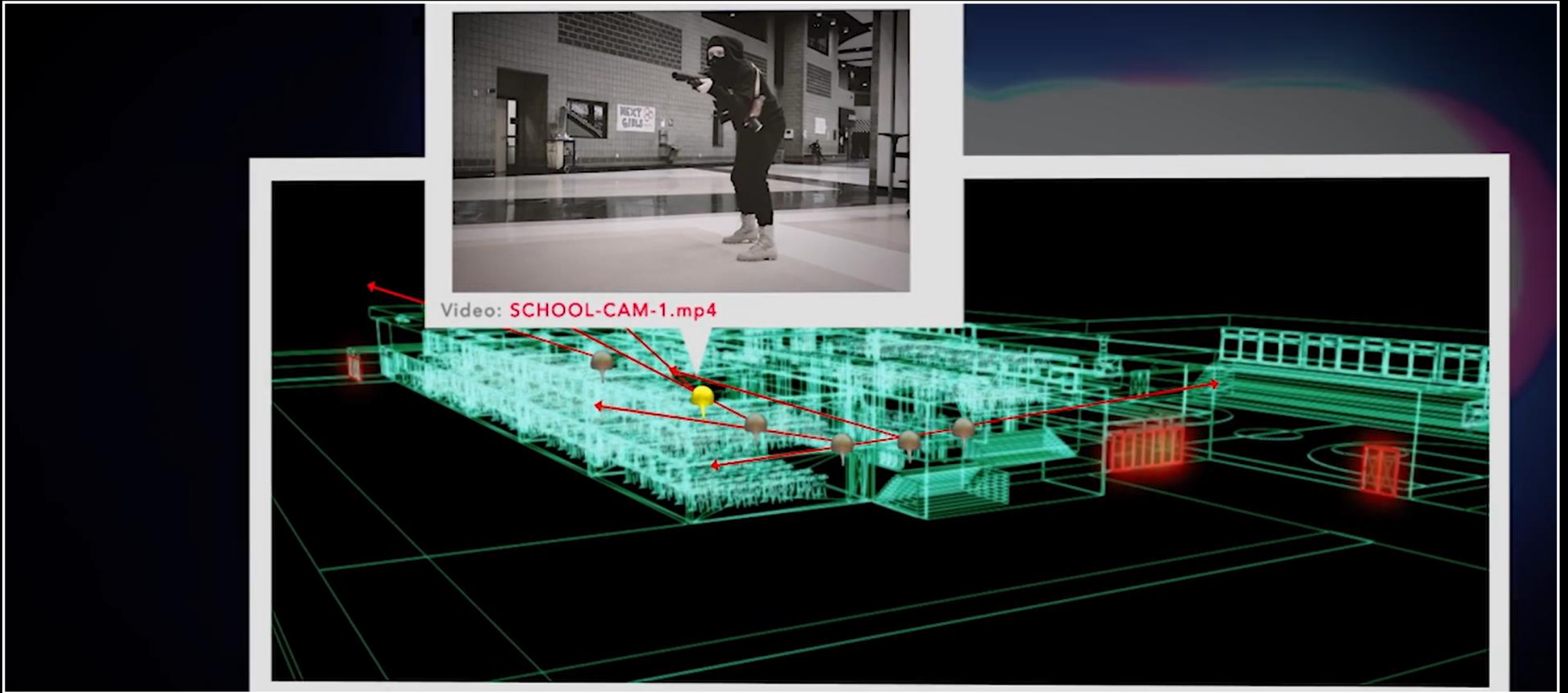
Passive physical protection systems can detect but not protect, so humans must reach the crime scene to stop crimes.

THIS DOES NOT NEED TO EVER HAPPEN AGAIN

CONNECTICUT SHOOTINGS

Pain of '88 Winnetka shootings resurfaces

'I know what a deep hole they are in,' mom of slain 8-year-old says of Connecticut parents

BY ROBERT McCOPPIN
Tribune reporter

Can we make our schools any safer?

20 kids killed, nation scarred

'Overwhelming grief' as Americans mourn

WICKED Problem - Responses are too slow!

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Video: SCHOOL-CAM-1.mp4

Solution – RCADS™ (Remotely Controlled Active Defense and Denial System)

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Solution – TSO's AI Active Defense Robotics

Detect – Engage – Neutralize *(Safely)* With RCADS™.

Problem

Shots in the Dark
A look at the April 16 attack on PG&E's Metcalf Transmission Substation

①	②	③	④	⑤	⑥	⑦
12:58 a.m., 1:07 a.m. Attackers cut telephone cables	1:31 a.m. Attackers open fire on substation	1:41 a.m. First 911 call from power plant operator	1:45 a.m. Transformers all over the substation start crashing	1:50 a.m. Attack ends and gunmen leave	1:51 a.m. Police arrive but can't enter the locked substation	3:15 a.m. Utility electrician arrives

Sources: PG&E; Santa Clara County Sheriff's Dept.; California Independent System Operator; California Public Utilities Commission; Google (image)
The Wall Street Journal

- Non-TSO solutions (except armed guards on site) are TOO SLOW to stop attacks.

- Reliance on the timely arrival of local response forces has also proven to be inadequate.

- A single patrol car arrived 10 minutes from the 911 call. Fortunately, several heavily armed attackers decided not to shoot the police officer.

- Gunmen fired on 17 electrical transformers, resulted in more than $15 million worth of equipment damage.

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Solution – RCADS™ (Patented and Pending Patents)

RCADS "delivers action at a distance to thwart the adversary".

DETECT – ENGAGE – NEUTRALIZE

360° Geospatial 3D Multi-Sensor Array Coverage

RCADS™ Artificial Intelligence
Split-Second Defense

12-80 Million Candle Power Beam-Spot-Strobe

Laser Dazzlers

Intense Directed Sound Beam

Gallagher Zoned Perimeter Fence

Laser Dazzlers

Intense Directed Sound Beam

12-80 Million Candle Power Beam-Spot-Strobe

Bosch Starlight Camera

Bosch Starlight Camera

Target Engaged

Target Engaged

These RCADS™ robots have been protecting 5 years with 99.9% uptime.

Multi-Sensor Fusion for Situational Awareness

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THE SECURITY ORACLE

DETECT – ENGAGE – NEUTRALIZE

360° Geospatial 3D Multi-Sensor Array Coverage

RCADS™ Artificial Intelligence
Split-Second Defense

12-80 Million Candle Power Beam-Spot-Strobe

12-80 Million Candle Power Beam-Spot-Strobe

Intense Directed Sound Beam

Intense Directed Sound Beam

Gallagher Zoned Perimeter Fence

Bosch Starlight Camera

Bosch Starlight Camera

Target Neutralized

Target Neutralized

Attack Prevented

Attack Prevented

These RCADS™ robots have been protecting 5 years with 99.9% uptime.

Multi-Task Fusion for Situational Response

11
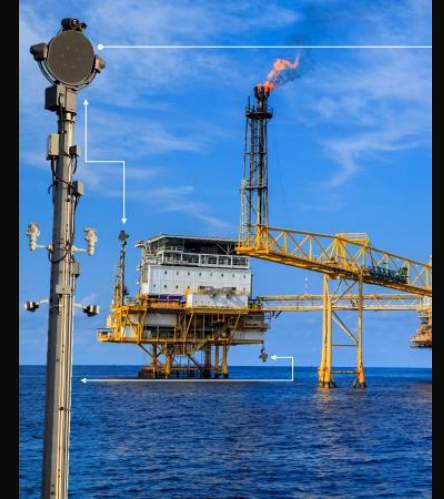
RCADS™ - REMOTELY CONTROLLED ACTIVE DEFENSE AND DENIAL SYSTEM

RCADS™ is a patented and patent pending platform featuring fuzzy logic and transformative methods and systems – our visionary team is delivering our family of purpose-built appliances to the global security market : each *ENGINEERED* and *DESIGNED* robotic appliance *SOLVES* a wicked problem.

The Security Oracle's Family of Purpose-Built Appliances

- Robots in the Sky®

- Robots on the Move™

- Robots on the Rafters™

- Robots on the Seas™

- Robots on the Rails™
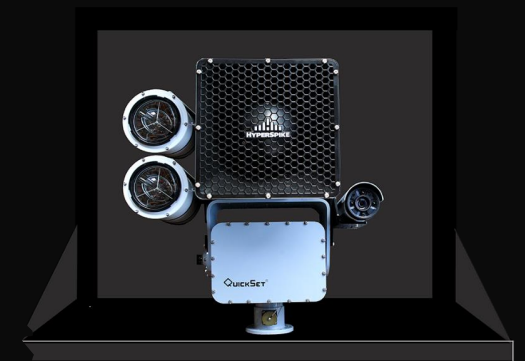
The Security Oracle is *DELIVERING* Purpose-Built Appliances *SOLVING* Wicked Problems.

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Market Opportunity

Three (3) ways customers win with
Mobile RCADS™ technology in
Remote Construction Site Management!

1. Security – Robots cover 100% of the site 100% of the time and forcefully ward off intruders 24/7/365. (Save – Cost Efficiency)

2. Safety – Robots detect wearing of hard hats, masks, safety hazards, including people in the way of operating machines, even send out audible warnings of impending hazards on site. (Save – Cost Avoidance)

3. Progress Assessments – Project management video analytics can track project progress using TSO's cameras and onboard autonomous drones to reduce overall construction time and save. (Save – Cost Efficiency)


Mobile RCADS™

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Traction RCADS™ is the next "Best Practice".

- Essentially all other "best practice" security solutions fall short and cannot delay or thwart the adversary prior to adversary success, at any reasonable cost.

- TSO offers purpose-built appliances that can establish up to 100% Protective Effectiveness (PE) according to 3rd party Monte Carlo software simulation study.

- Detection is *NOT* Protection.

Traction
TSO rolled out RCADS™ 5 years ago and has captured the attention of Industry leaders.
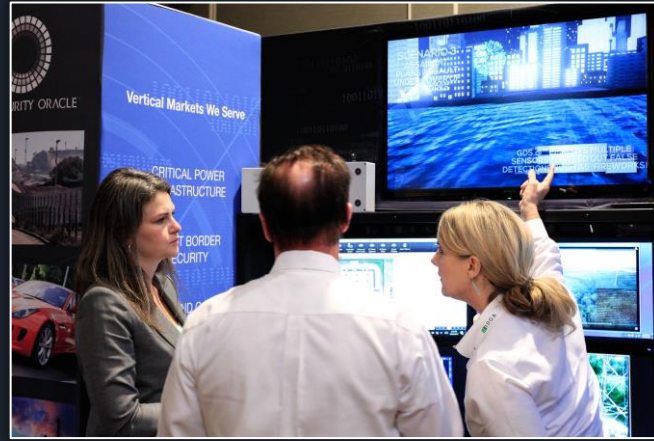
- Our CEO delivered a white paper and RCADS powered robots were exhibited at the PowerGrid Resilience Summit in San Diego, CA from 9.18.2017 – 9.21.2017.

- TSO demonstrated our **Smart City / Safe City** AI gunshot detection system (GDS.*ai)* in Columbus, OH on 10.10.2017.

- RCADS explained during the *Homeland Security Week* in D.C. from 10.23.2017 – 10.25.2017. (Shown in upper left photos)

- TSO Team exhibited robotic appliances during Chicago, IL PowerGrid Resilience Summit from 3.26.2018 – 3.28.2018; our CEO (right photo) was a Featured Speaker and Tim Cole (second from right) delivered small group presentations to Industry leaders.

- TSO Team exhibited appliances during The Critical National Infrastructure Summit from 6.24.2019 – 6.27.2019 in D.C.; recognized as a Critical Infrastructure Thought Leader our CEO led a workshop on designing AI driven purpose-built security appliances.

Traction
The Security Oracle is Changing the World of Physical Security, One Robot at a Time.

- RCADS™ Robots have over 200,000 operational hours at multiple sites.

- Protecting with an unprecedented Operational Readiness Rate of 99.9%.

- And very low life-cycle costs.

Our Special Four Phased Process will give you peace of mind
knowing your site is protected 24/7 along with saving money
over conventional reactive, recovery and repair security services model.

Phase 1

Analyzing Your
Security Risk

Our team specialists will come to your
site to analyze and discuss your specific
security risks.

Phase 2

Design Your Security
Model

All security applications are unique. Our
team of experts custom design a plan to
address your specific security risks and
as required bring you into compliance.

Phase 3

Delivering Your
Custom System

Our RCADS™ certified team of experts,
with national and global expertise,
install the complete physical protection
system from barriers to mechanical and
electronic equipment and software.

Phase 4

Supporting Your
Custom System

RCADS ™Operator training and
certification; support, maintenance and
monitoring services are also provided
as required.

What We Do
Our Unique Value Proposition

- Digitalization
- Innovation
- Protection

Features

(Options, options, options...)

Customers demanding advanced tech solutions will benefit from our open AI robotic security platform strategy.

It makes integrating virtually any of the best of breed technology the world has to offer faster and easier.
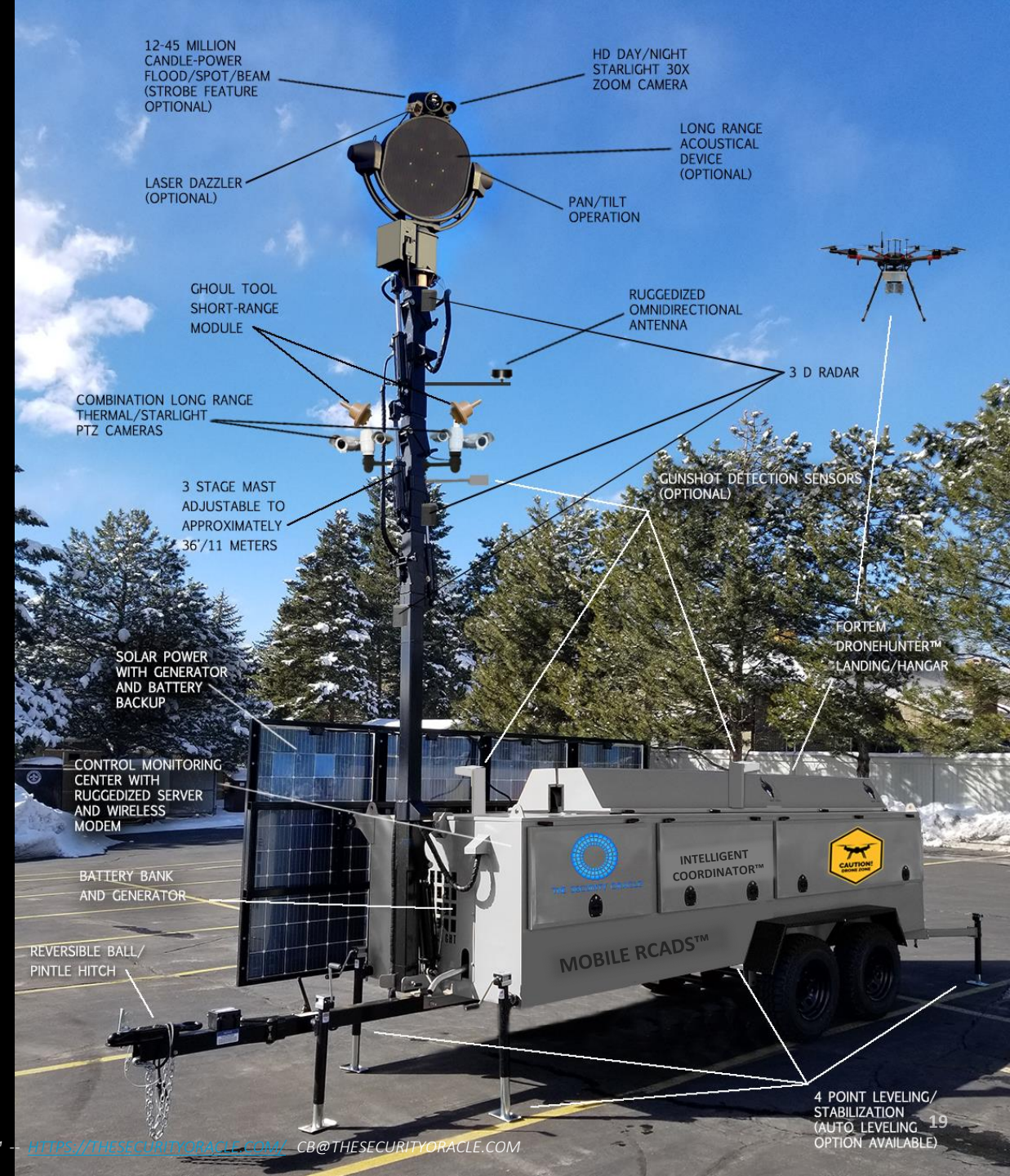
Features Onboard our Robotic Appliances

Features

TSO machines are purpose-built configurations for their missions, via TSO's patented/patent pending AI processes with *transformative hardware / software / services*.

Increased Value Versus the Competition: TSO's RCADS™ *active defense machines* versus a *passive surveillance* only trailer or camera box kit is analogous to a Smart Phone versus a flip phone.

The Mobile RCADS™ platform to the right depicts available and some notional features.

The next few slides reveal some key features offered now and near-term.


12-45 MILLION CANDLE-POWER FLOOD/SPOT/BEAM (STROBE FEATURE OPTIONAL)

HD DAY/NIGHT STARLIGHT 30X ZOOM CAMERA

LONG RANGE ACOUSTICAL DEVICE (OPTIONAL)

LASER DAZZLER (OPTIONAL)

PAN/TILT OPERATION

GHOUL TOOL SHORT-RANGE MODULE

RUGGEDIZED OMNIDIRECTIONAL ANTENNA

3 D RADAR

COMBINATION LONG RANGE THERMAL/STARLIGHT PTZ CAMERAS

3 STAGE MAST ADJUSTABLE TO APPROXIMATELY 36'/11 METERS

GUNSHOT DETECTION SENSORS (OPTIONAL)

SOLAR POWER WITH GENERATOR AND BATTERY BACKUP

FORTEM DRONEHUNTER™ LANDING/HANGAR

CONTROL MONITORING CENTER WITH RUGGEDIZED SERVER AND WIRELESS MODEM

INTELLIGENT COORDINATOR™

CAUTION! DRONE ZONE

BATTERY BANK AND GENERATOR

REVERSIBLE BALL/ PINTLE HITCH

MOBILE RCADS™

4 POINT LEVELING/ STABILIZATION (AUTO LEVELING OPTION AVAILABLE)

SOFTWARE CAN OPERATE WITHOUT A HUMAN IN THE LOOP, AND BACKED BY A HUMAN EYE IN A CONTROL CENTER

OUR
ARTIFICIAL INTELLIGENCE
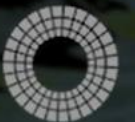# SOFTWARE POWERS
GUNSHOT DETECTION
TECHNOLOGY

Video Analytics Detects Gun Before Shots are Fired

THE SECURITY ORACLE
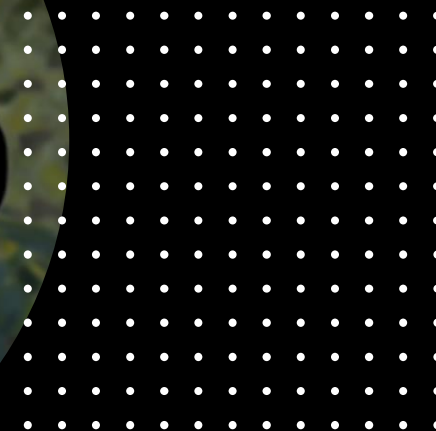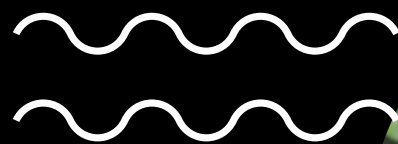
TSO's Acoustic Gunshot Detection System, Gds.ai, captures muzzle blast and bullet shockwave.

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DETECTING MUZZLE BLASTS FROM WEAPONS EVEN EQUIPPED WITH SILENCERS

YET WEEDING OUT OTHER FALSE DETECTIONS SUCH AS FIREWORKS

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OUR SOFTWARE ALLOWS FIRST RESPONDERS TO ACT WITHIN THE SHORTEST TIME FRAME DURING AN INCIDENT

AND ASSIST POTENTIAL VICTIMS TO ESCAPE UNHARMED

-ALERT-
SHOOTER

Azimuth -

- Elevation -

- Range -

AND GALLAGHER MONITORED PULSE FENCING

UTILIZES MAGOS RADAR, WITH OVER 2 MILES OF COVERAGE

RCADS™ is a world-class security appliance featuring radar and monitored pulse fencing.

WITH MANY PULSES A SECOND, INTRUDERS ARE IMMEDIATELY DETECTED, LOCALIZED, VISUALIZED AND NEUTRALIZED BY THE ROBOTS IN A FEW SECONDS. *(SAFELY)*

RCADS™ Threat Prioritization and Engagement Features

- RCADS™ software engine selects the highest priority threats (shooters) and counterattacks them first to stop the bullets from being fired (at the electric substation in this case) and then wards off the intruder running towards the substation. RCADS™ analyzes the adversaries' behavior and counterattacks them with powerful sound and laser dazzlers based on the level of threat they pose.

DETECT – ENGAGE – NEUTRALIZE *(Safely)*

TSO's AI-Driven RCADS™ *(Patented and Patent Pending)*

- TSO's AI-Driven RCADS™ Robots deliver action at a distance to drive away intruders, while keeping the beams safely inside of the geofenced area, illustrated here by the green colored boundary marker.

AND ASSIST POTENTIAL VICTIMS TO ESCAPE UNHARMED

Mobile RCADS™ Robots can automatically provide mass notification and public address to direct public venue crowds to safe evacuation paths to avert major stampedes.

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Major Clients Provided Security Services and Systems by TSO Officers

Why RCADS™ ?
A final comment from our CEO.

Too many people die needlessly, and <u>together we can do something BIG about that</u>!

• The Security Oracle is expanding and growing here in the United States where we build our game-changing, lifesaving protective technology. We believe this technology will be perched everywhere, about as common as digital security camera systems. We can protect where we work and play, and our very way of life against the growing incidents of carnage and significant damage to property due to increasing crime in our society today so we can deploy active defense protection systems everywhere!

• Robotics is the NEW Technological Revolution, and The Security Oracle is changing the world of security -- <u>detect - engage - neutralize™ (thesecurityoracle.com)</u> .

Mobile RCADS™ – MaaS
Contact us to Rent, Lease or Purchase!

- The Security Oracle, Inc. offers RCADS™ and Mobile RCADS™ in a Machine as a Service (MaaS) format.

- We do everything for you, including: delivery, setup, monitoring, maintenance and training, often for less than the cost of an onsite security guard.

- For further inquiry or to order email cb@thesecurityoracle.com or call 1-844-ROBOT4U (1-844-762-6848).