

ISCe

Satellite &
Communications

a CeBIT Event

ISCe 2008

Communications and Border Security: It's More Than Just Building a Fence

Moderator: **David Hartshorn**, Secretary General – GVF

Speakers: **Tom Costello**, Director, Products and Services – Stratos Government Services Inc.

Tom Foust, Vice President, Sales – Intelsat General Corp.

Scott Herrick, Director of Government Business Development –
Newpoint Technologies

D.K. Sachdev, President – SpaceTel Consultancy LLC

Mike Smith, Director – SGSI

Organizers



Hannover Fairs USA, Inc.

Co-Hosts



Organized by:



STRATOS Government Services Inc. Communications and Border Security



ISCe 2008 Conference

San Diego, CA

June 10, 2008

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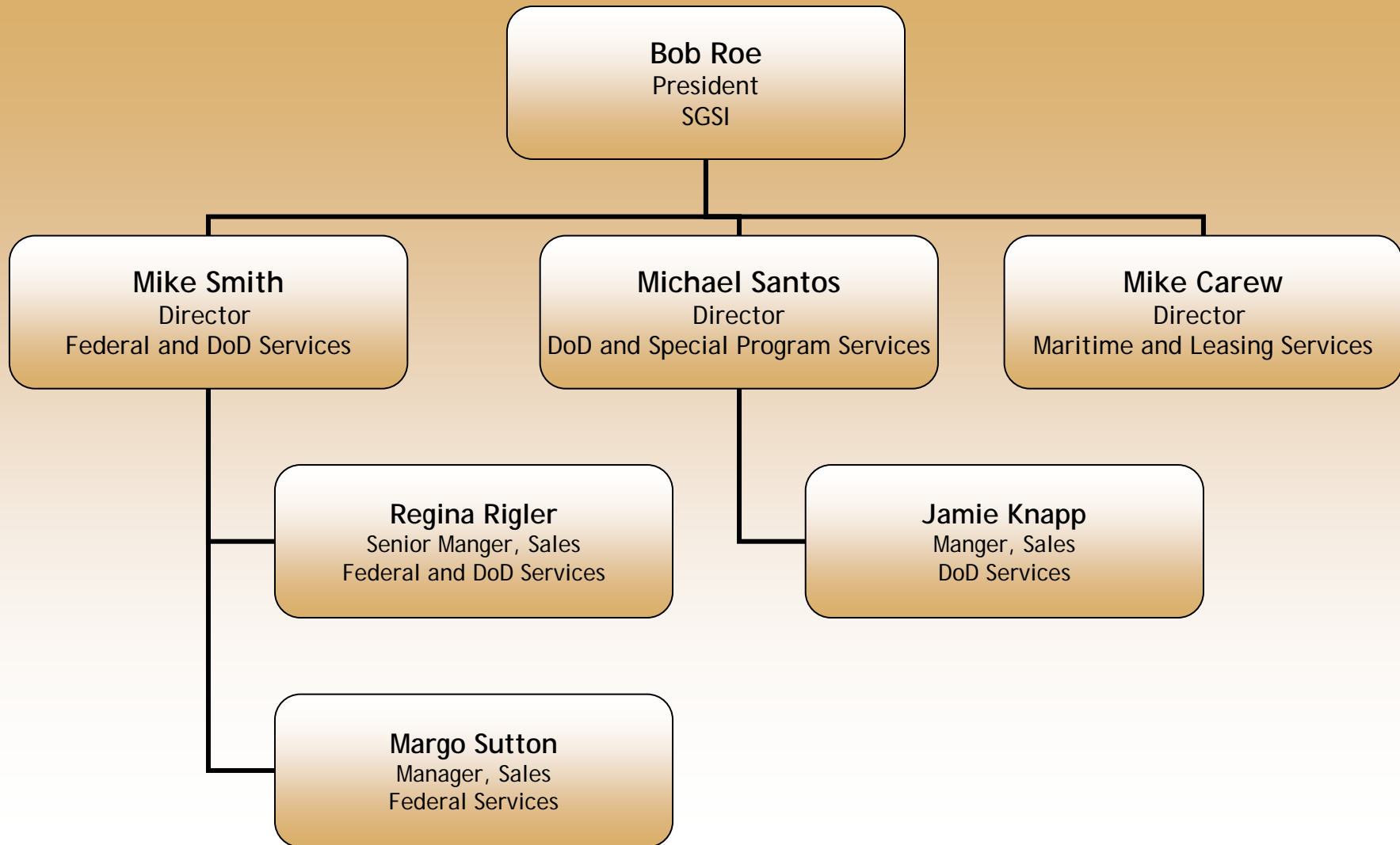
SGSI
-A STRATOS COMPANY-

STRATOS GOVERNMENT SERVICES, INC.

- On December 11, 2007 - CIP Investments Inc. (CIP Canada) acquired beneficial ownership of 100 percent of the Corporation's common shares using "arms length loan" from Inmarsat in return for a call option in April of 2009 to own 100% of Stratos.
- SGSI is a wholly owned subsidiary of Stratos Global dedicated to United States Government Customers (DoD, Federal, State and Local).
- Established in response to Federal and DoD agency's growing reliance on commercial satellites and requirements for "single integrator" that is technology agnostic.
- SGSI serves as a single source integrator of multiple commercial satellite technologies, including airtime, hardware, integration and life cycle support including Inmarsat, VSAT, Iridium and GSM/GPRS technologies.
- Improves the Value Proposition for U.S. Government customers:
 - SGSI dedicated to supporting only U.S. Government customers.
 - Leverages existing STRATOS and future infrastructures globally.
 - Leverages the advantage of the largest volume discounts from Inmarsat.
 - Provides a separate facility with a technology center for customer demonstrations and a lab for testing customer applications.
 - Satellite gateways for Government organizations with access to over 90 Commercial Ku/Ka/C Band satellites.



STRATOS GOVERNMENT SERVICES, INC.



Satellite Solutions for the Response Life Cycle

Stage 1
Immediate

Stage 2
24-48 hours

Stage 3
After 48 hours

Increasing Bandwidth Requirements

Comms
Requirements

Rapidly Deployable & Highly Portable – small, light-weight equipment
Ease of Use – non-technical users
Voice & Data – voice contact with HQ, narrowband data (SMS, e-mail)
Internet & VPN – initial access to emergency management software

Netted Comms – interoperability
Voice & Data – on-going coordination
Internet & VPN – increased activity via emergency management applications

Longer Term Installations – including technical operators
Voice & Data – on-going coordination
Internet & VPN – heavy activity via emergency management applications

Satellite
Solutions

Handheld – Iridium & Globalstar: voice and narrowband data
BGAN – simultaneous voice & data (450+ kbps), e-mail, Internet, broadcast quality IP streaming

BGAN – simultaneous voice & data (450+ kbps), e-mail, Internet, broadcast quality IP streaming
VSAT – higher speed data, mobile command center

VSAT – higher speed data, semi-permanent installations
BGAN – voice, back-up for data



Ongoing training is critical for a successful deployment during an emergency situation

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SGSI Remote Sensing, Border Control and Civil and State Communications

• Tracking and Sensor Applications

- Iridium and Inmarsat based solutions to provide highly reliable and global operations.
- Stationary and Mobile Solutions for Sensors for air, noise, motion, and thermal detection in unmanned areas with immediate alert along with pictures and data.



• Video Solutions over Satellite

- Land, Maritime and Aeronautical applications.
- Live Full Motion Video for remote surveillance and Border Control.
- Tele-Inspection and Interdiction Interviews.
- Transportable LOS from helicopter to ground over Satellite reach-back for cost effective solutions.



• USCG Sea and Air

- Stratos provides Airtime, Network connectivity and value added services for all Inmarsat services, cutters, as well as aircraft including the Fleet Broadband FB500 unit now installed on the USCG Dallas.



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STRATOS GSA Schedule and SATCOM II Contract

- STRATOS has GSA FSS Contract Number GS-35F-0463L in place for Inmarsat services supporting:
 - FEMA
 - State Department
 - Other Federal Agencies
 - DoD (with approved DISA waivers)
- STRATOS has SATCOM II Contract Number GS00T07NSD0033 in place for a wide range of commercial satellite offerings to include:
 - Mobile Satellite Services;
 - Fixed Satellite Services;
 - Broadcast Satellite Services;
 - Satellite Applications Solutions;
 - Engineering;
 - Operations and Management Services;
 - Professional Support Services
- IDIQ Fixed Price contract
- 5 Year Contract, POP 5/2/07 through 5/1/12
- Commercial Satellite service and equipment offerings with Fixed Price CLINS
- Direct-order, direct billed



Stratos Government Services (SGSI) Points of Contact

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Satellites and Border Security

*Tom Foust, VP, Satellite Network Services
Intelsat General Corporation*

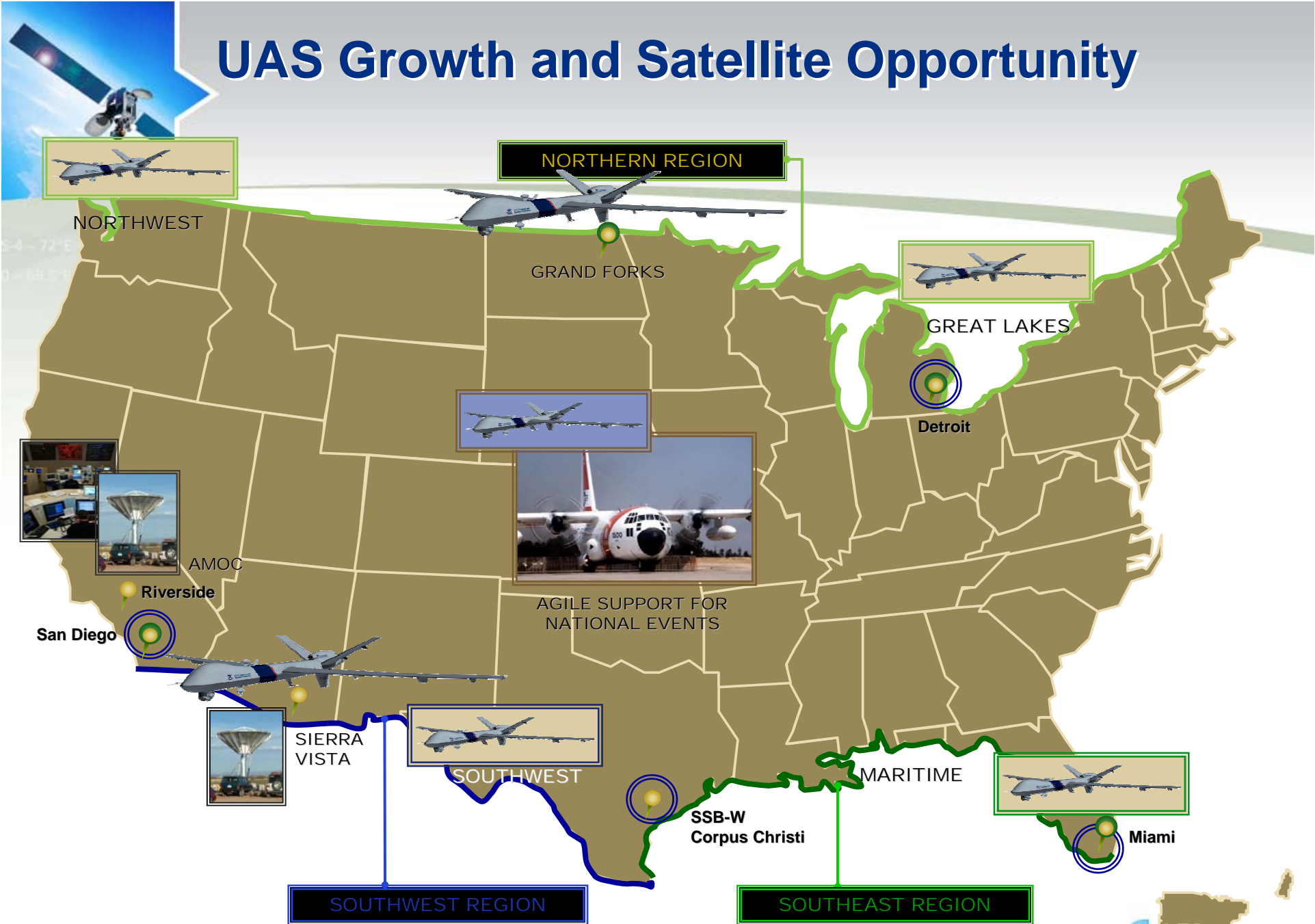


Borders and Communications Challenges

- Protect US Borders and Ports
 - Protect 36,000 miles of border
 - Protect seaports, ocean coverage
 - Protect Airports
 - Protect Global Supply Chain

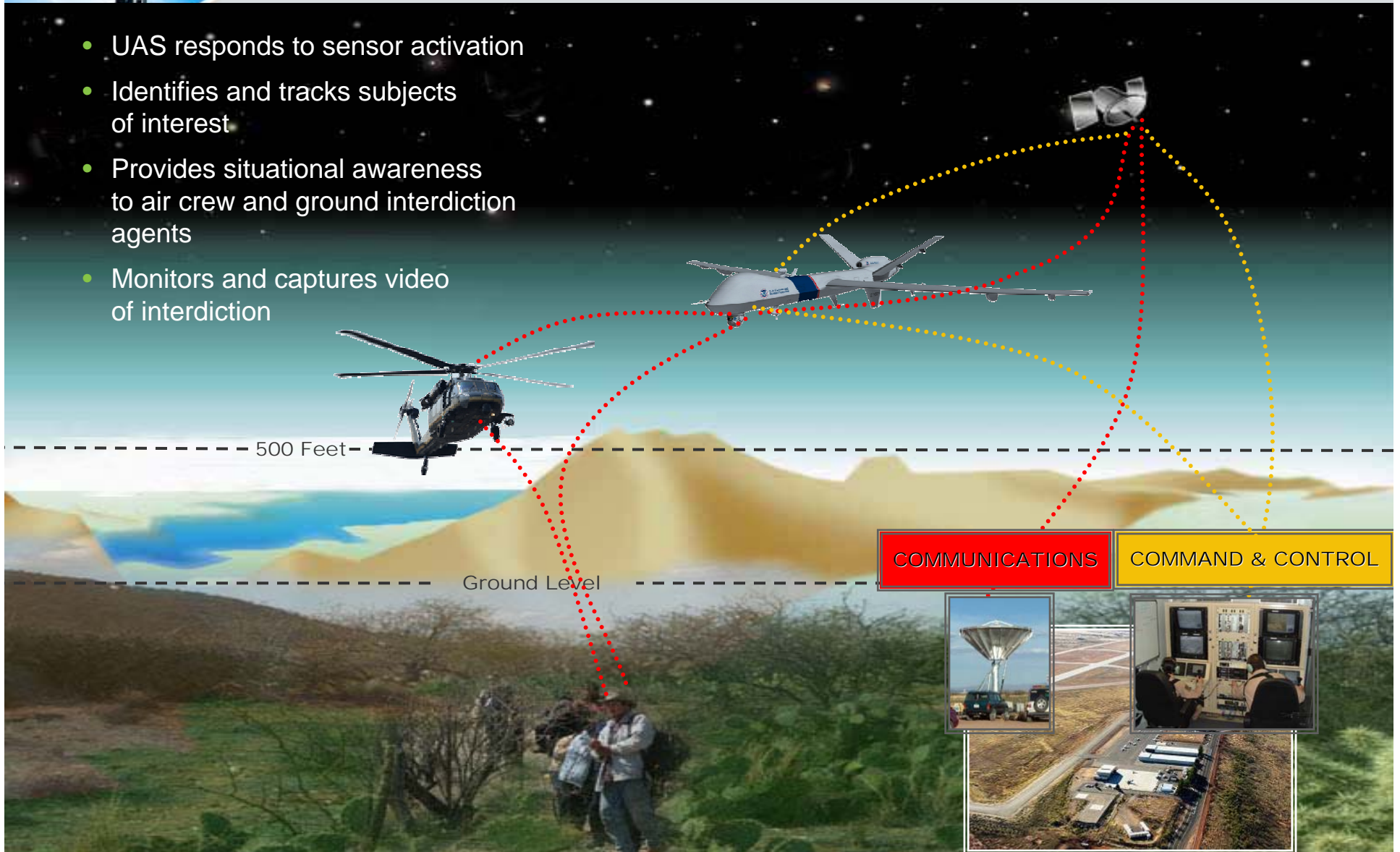


UAS Growth and Satellite Opportunity



UAS Concept of Operations

- UAS responds to sensor activation
- Identifies and tracks subjects of interest
- Provides situational awareness to air crew and ground interdiction agents
- Monitors and captures video of interdiction





Satellite Solutions for Border Security

- Today Intelsat General is involved in several relevant programs to include;
 - Coast Guard Rescue 21
 - Satellite backhaul from radio towers
 - Coast Guard Proof of Concept
 - Ocean coverage 300 miles offshore
 - Customs and Border UAS discussions
 - Testing COTM; land, aero and maritime

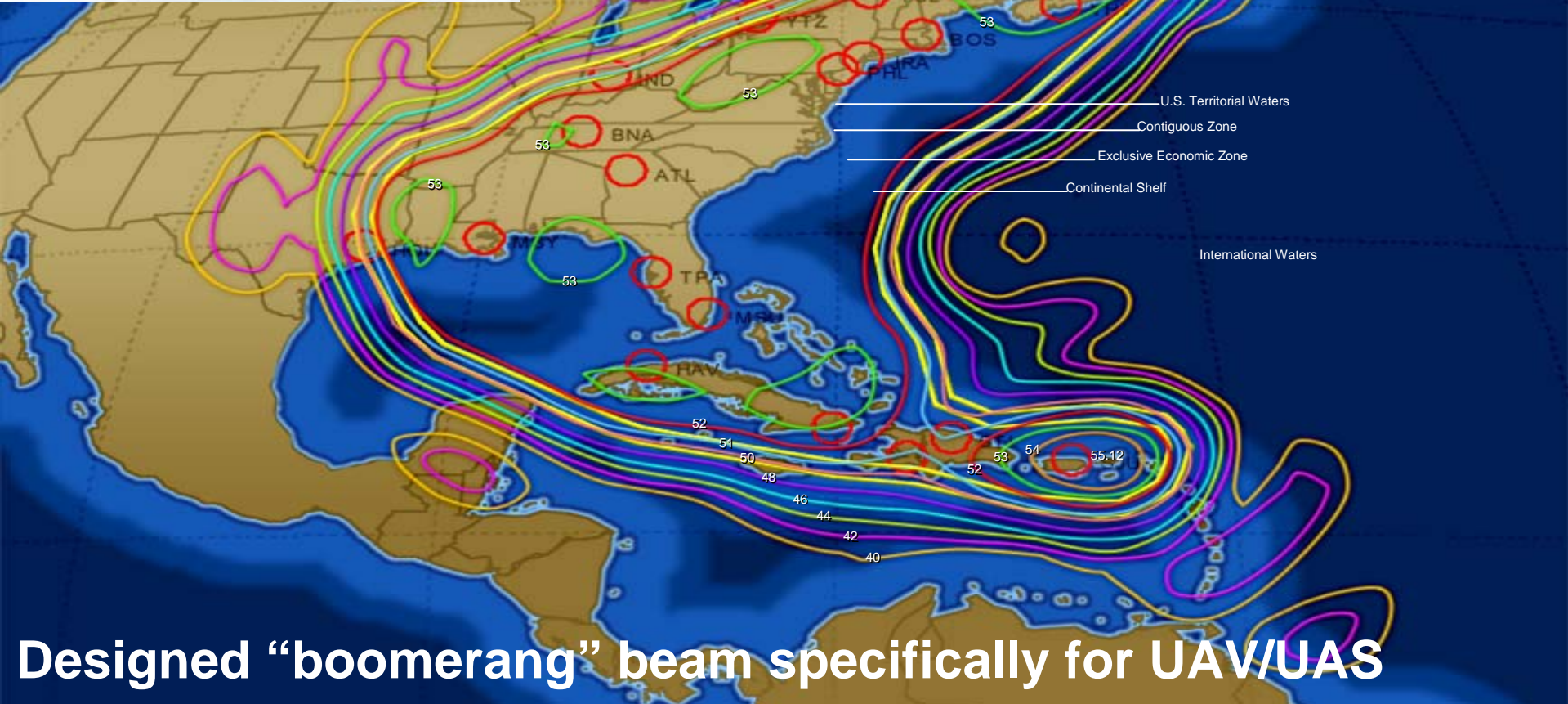




Satellite Solutions for Border Security – Rescue 21 and SBINet Project 28



Intelsat Providing Bluewater Coverage



Designed "boomerang" beam specifically for UAV/UAS



Horizons 2 “Boomerang” Beam

- Transponders
72MHz wide
- 150W LCTWTA
- “hot spots”





Summary

- Significant border security challenges
- More reliance on UAS/UAV
- Remote areas needing communications
- Critical backup to airport networks
- Satellites will have a major role



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Smart Security

System & Technology Alternatives

D.K.Sachdev

President, SpaceTel Consultancy LLC

Adjunct Professor, George Mason University

Communications and Border Security Session

ISCe 2008, June 10, 2008, San Diego



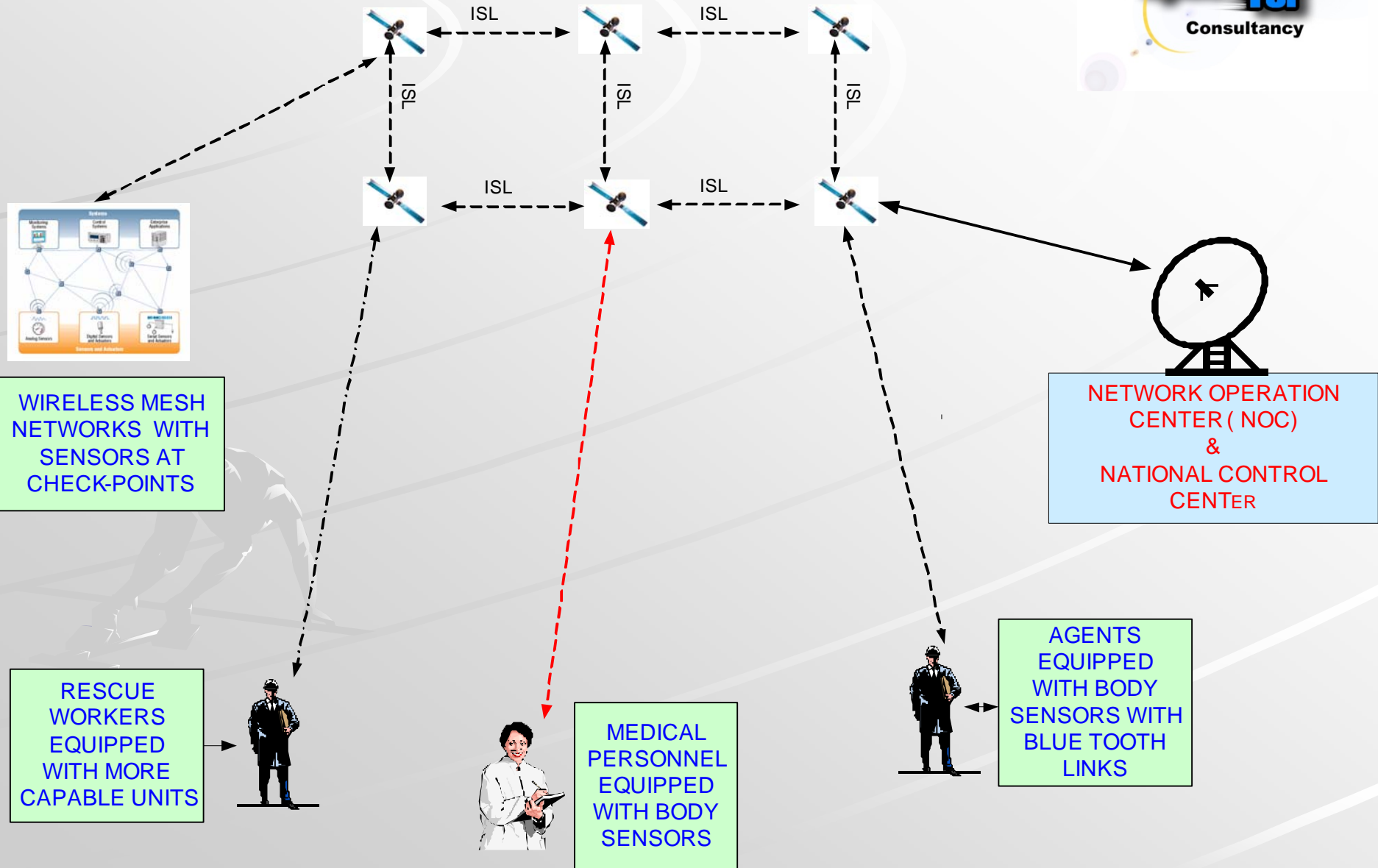
Technologies for Security Systems

- ◆ Sensors for Structures and Personnel
- ◆ Wireless Networks
- ◆ Satellite-based Interconnectivity

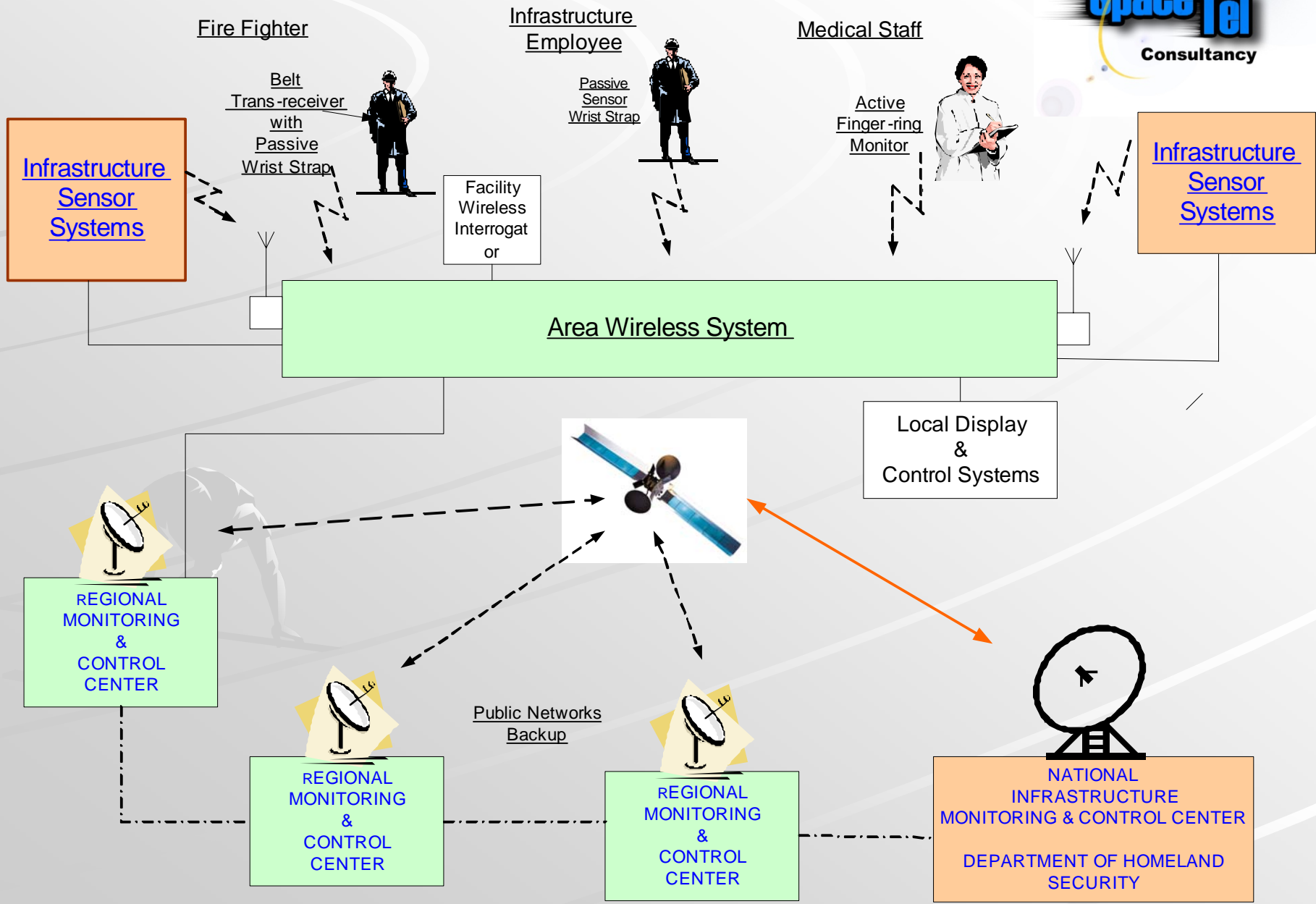
DIRECT ACCESS WITH LEO SYSTEMS



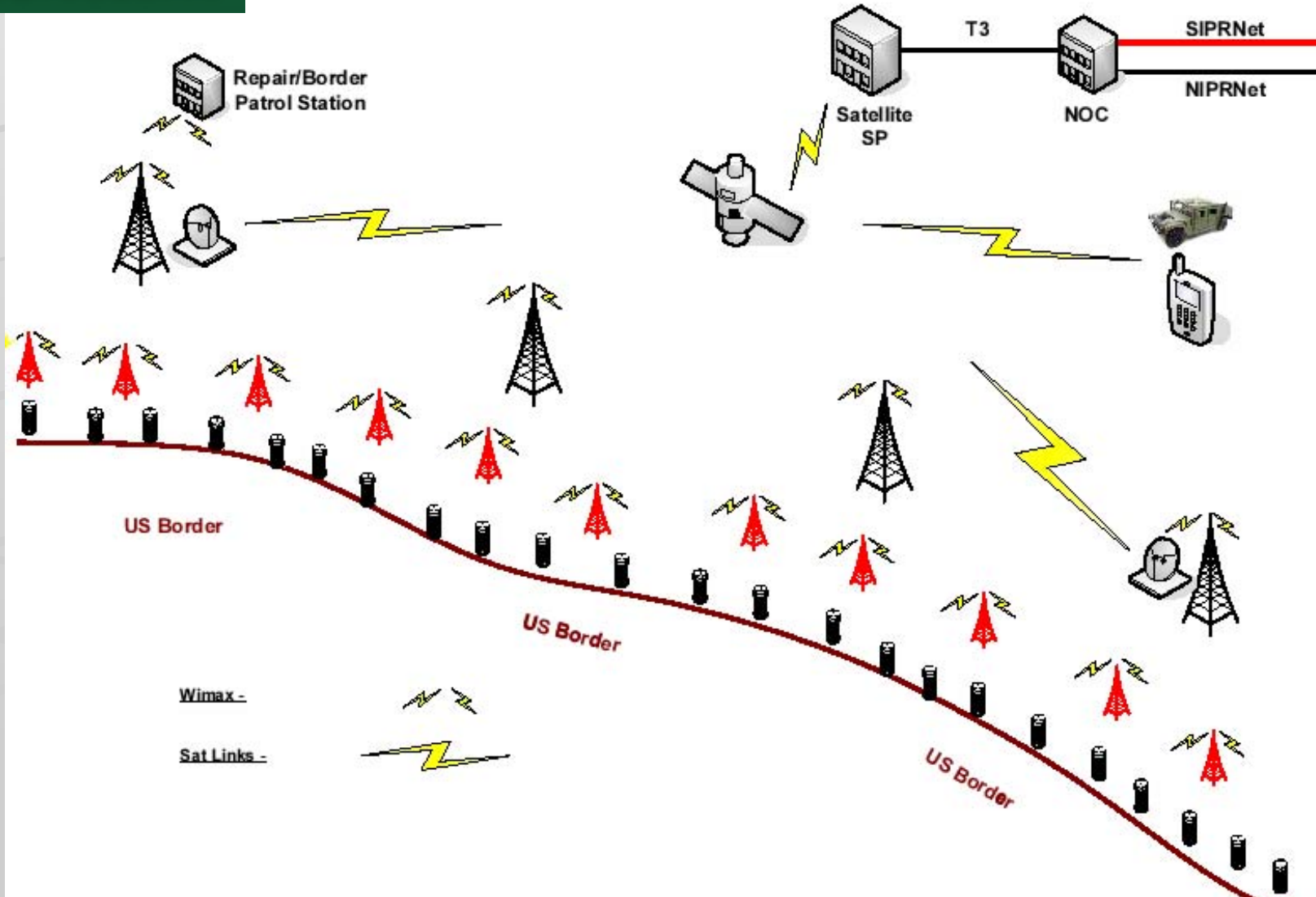
GLOBAL MOBILE SATELLITE NETWORK



Integrated Personnel & National Infrastructure Security Systems

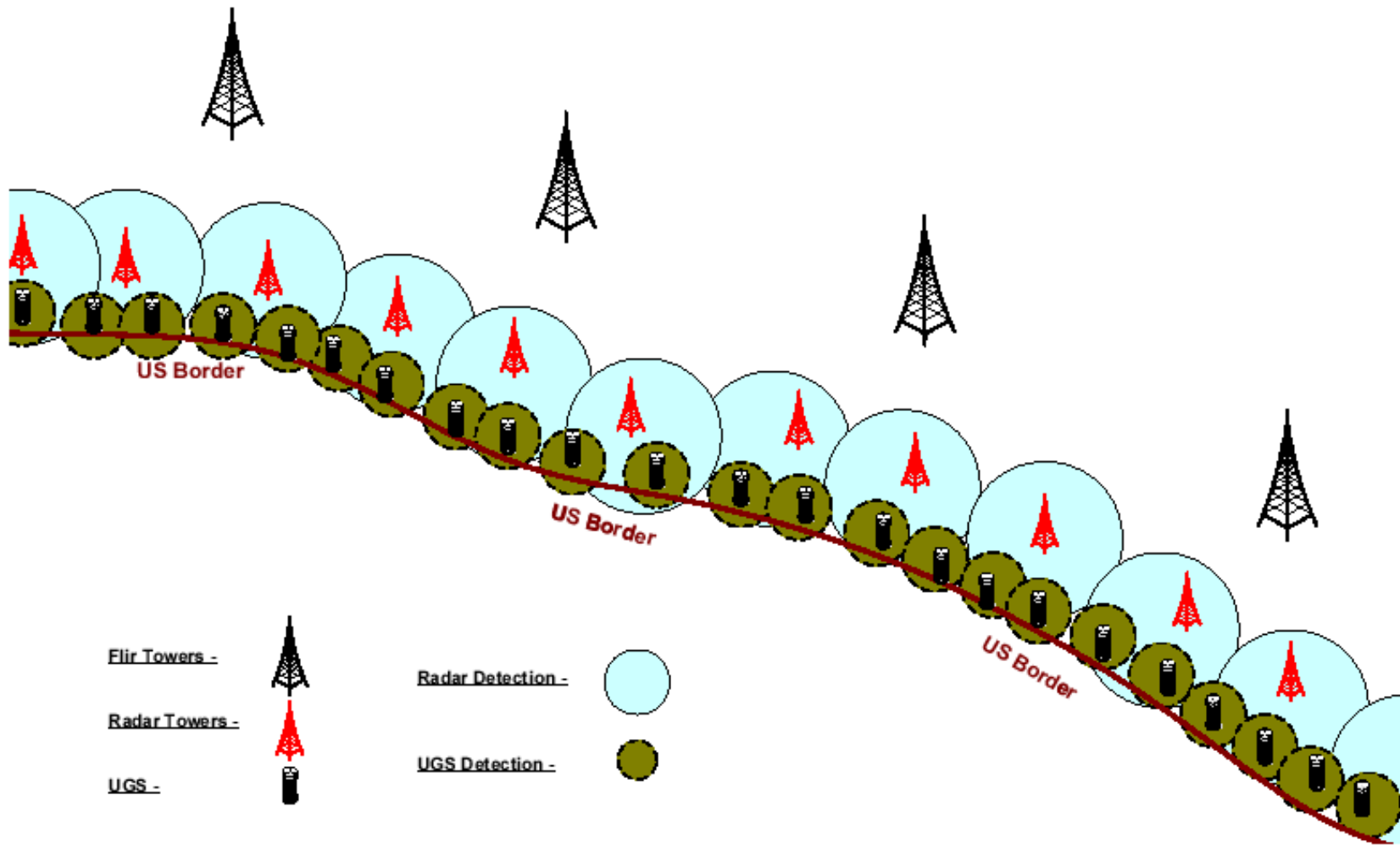


SBI Communication



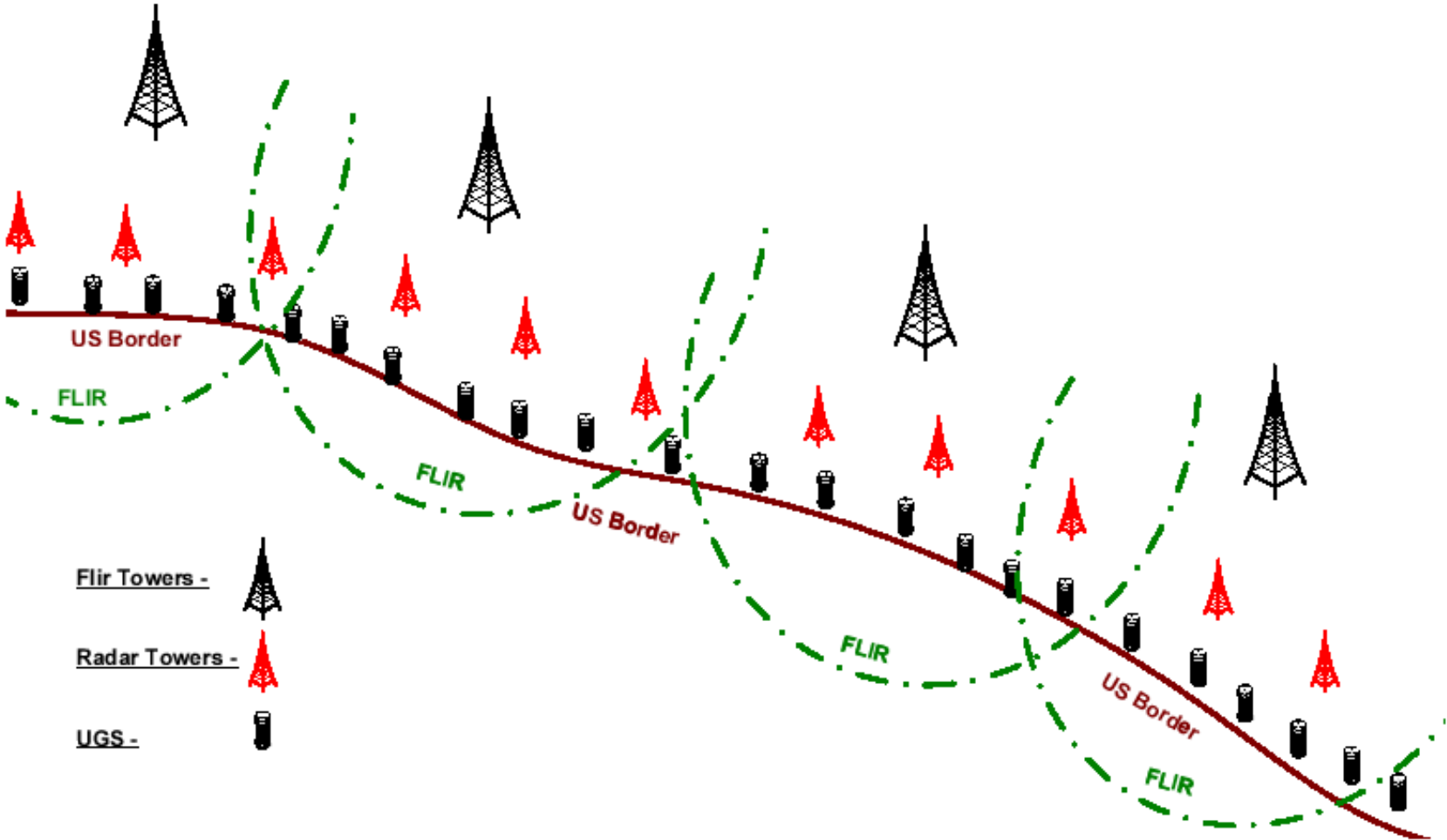


SBI Radar and UGS





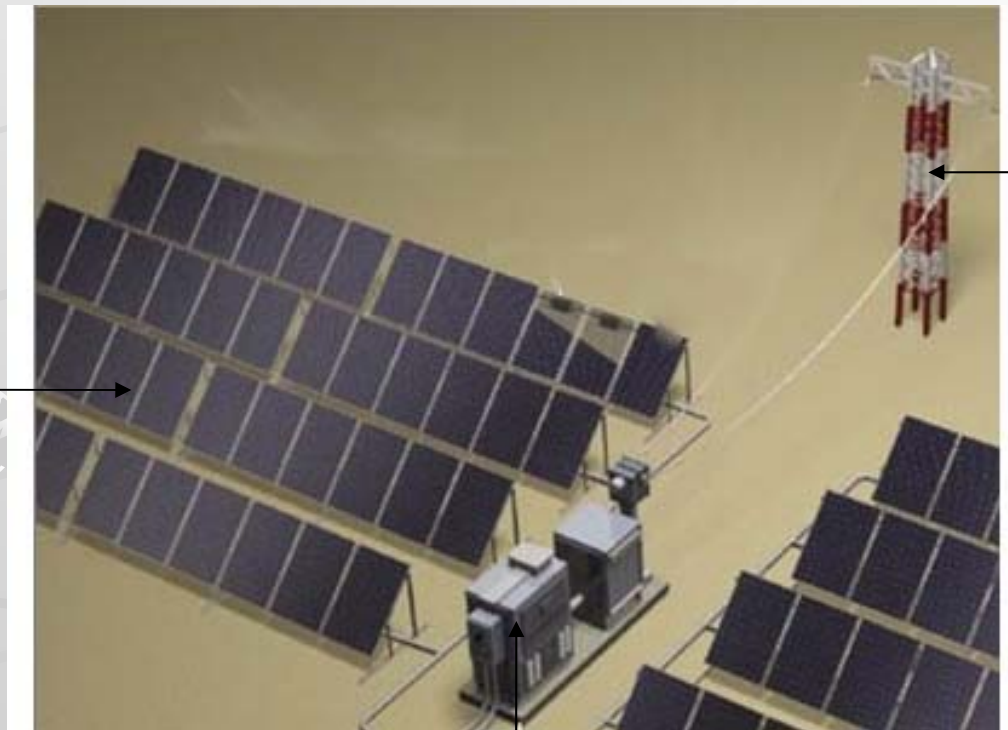
SBI FLIR Detection





SBI: Power *Transmission*

(each tower would follow this pattern)



Photovoltaic
array

Primary tower

Rechargeable battery storage and diesel generators

Tim Schumacher



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