

# Armored Mobile Data Rack Systems for Emergency Preparedness and Response

SPEAR is a miniature mobile armored data center. It provides a sealed hardened self-contained and controlled environment making critical electronics invulnerable to heat, cold, fire, earthquake, tornado, explosion, and power system losses. It may be used to house interoperative emergency communications, cellular and wireless base stations, computers and storage systems, electronic recorders, and almost any conventional rack mounted systems that require the highest levels of protection.

- Up to 50% savings on electricity or power costs
- Patented closed loop cooling system
- 50-80% more efficient - Green
- Fire-proof and Water-Proof
- Patented suspension eliminates shock and vibration
- No raised floor requirements
- Inside air and Outside air never mix
- Low cost instant deployment and relocation
- High-tech Cyber-Lock security



For more information:  
Website: [www.lifebot.us.com](http://www.lifebot.us.com)  
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# GOVERNMENT SOLUTIONS

## MOBILE TECHNOLOGY and COMMUNICATION PLATFORM



### Ideal for:

- Defense Applications
- Security for Ports of Entry
- Emergency Response
- Communications Platform
- Embassy Support
- Intelligence Support
- Secure Government Data Centers
- Remote Operations



# Mobile Command Centers (MCC's) primary purpose

Rapid deployment, operation, and protection of high powered electronics in field conditions. Cost: 1 Blue Ox or 30 S.P.E.A.R. units for 30X the coverage

## “ Blue OX”

One large unit=Limited Coverage/users



Control Room  
"Interoperability" Mission Management Operator, Equipment Racks and shelves for Interoperability (30') mast.

3KW Equipment package



## S.P.E.A.R.

Many Powerful units=Complete Coverage/ many users



Up to 6KW Equipment package

# From a capability standpoint....more capacity, 1/3 the cost

## Operational Expense Considerations

- Trained Heavy Vehicle Driver + Technicians
- 1000 Square Feet
- Heavy Fuel Consumption
- Mission Inflexible
- Single Unit Limited Coverage



\$400,000+

## Easy, Rapid Deployment

- One-person set-up; just minutes to plug into power
- Hardened, Survivable

## Sustainable Design

- Energy efficient
- More “operations per watt” than any other solution
- Use existing assets to transport
- Multiple Units increase coverage and flexibility

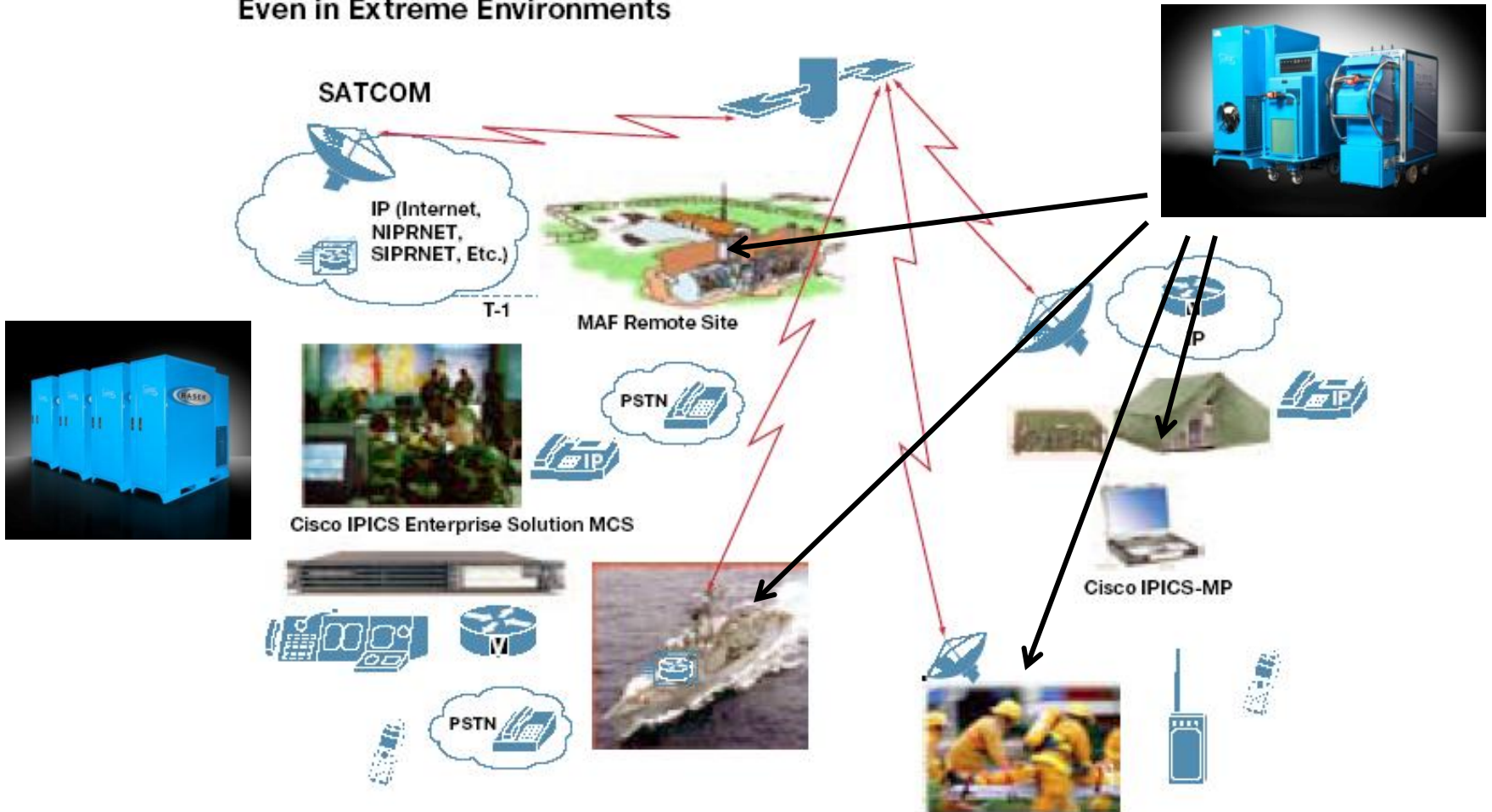
\$30-

\$133,000



# Micro Modular Data Centers Provide Enterprise class IPICS- MP Solutions

Figure 1 Cisco IPICS-MP Enables Comprehensive Communications Interoperability, Even in Extreme Environments



# Peripheral Devices

Tri Band RF Antennae



12KW GenSet



VSAT



Tent



Motorola XTS 5000



PolyCom IP Camera



Cisco WAP



# MISSION: Enterprise Cisco IPCS-MP Total Incident Management package

## Cisco IPICS

Enables Communications Between Multiple Devices



# S.P.E.A.R. or C<sup>3</sup>-S.P.E.A.R.

Redundant  
Closed Loop  
6KW Cooling



Power Conditio



CISCO IPICS

RF Amplification

Cisco UCP

Cisco 3650 Switch

Motorola Quantar

Base Station

Wireless KVM

Polvcom vsx7000e

Media Converter

i-Direct Satellite Modem



# Cost Breakdown

Existing Assets = **Zero Cost**

Man Portable Power



15KW Portable Generator



\$2,000

S.P.E.A.R. Command/  
Communications Center



6KW Equipment Enclosure  
\$30,000-130,000

## Features

- EMI Shielding: **\$ Incl.**
- Vibration Isolation: **\$ Incl.**
- Fireproofing: **\$ Incl.**
- Power Conditioning: **\$ Incl.**
- Physical Hardening: **\$ Incl.**
- External Connectivity: **\$ Incl.**

## Benefits

- Survivable
- Longer Field Operation (uses less fuel)
- Small, Easily Stored
- Flexible Platform
- Easy to use

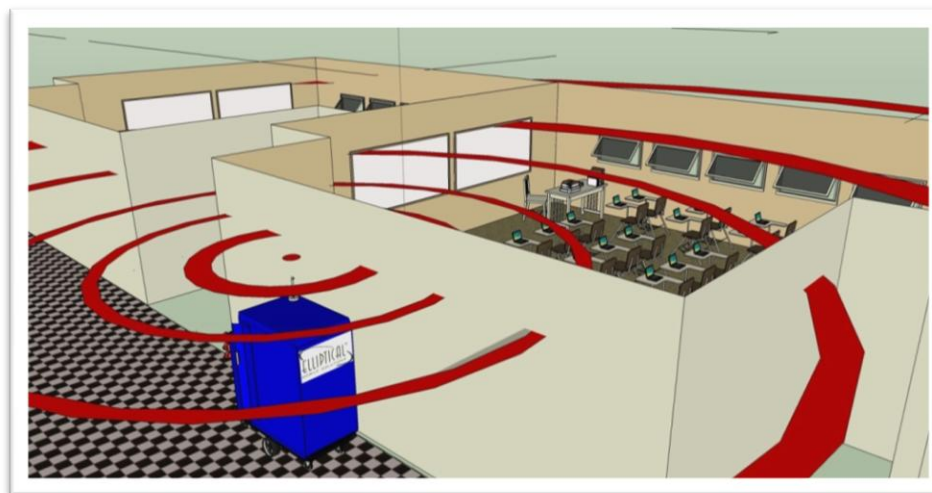
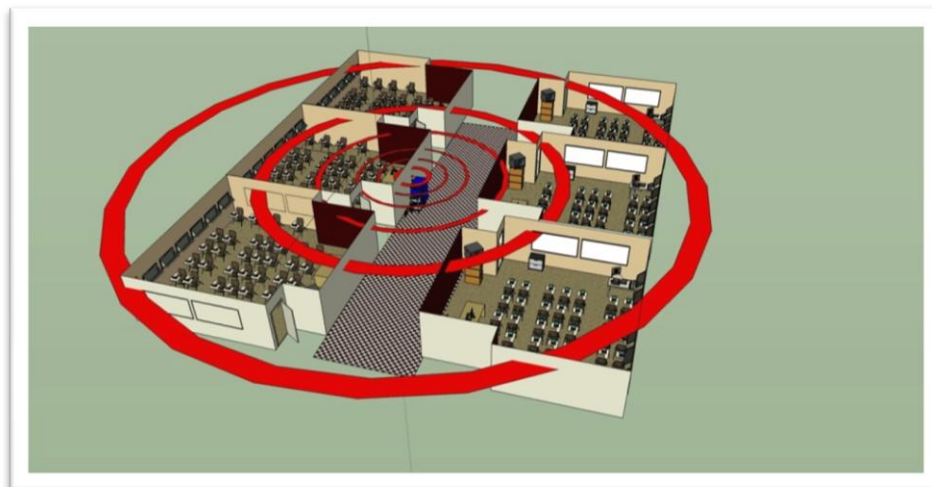
Total \$ for 6KW of hardened field deployable electronics  
**\$30,000-\$100,000**

### **CATEGORY-3 - Warm Data Center Site (BRONZE)**

A Data Center Site that provides hosting for equipment in an alternate production environment for Warm Site Disaster Recovery. The Offeror(s) proposed site will host powered racks and infrastructure installed by the Agency. All required environmentalals must be available upon a disaster declaration and during disaster recovery testing. At the point of a disaster declaration, all required environmentalals must be available within twenty-four (24) hours.

Deploy Existing Modules from “Gold” or “Silver Site” to “Bronze Site”

- Choose **ANY** Location
- Seamless Integration
- Plug and Play





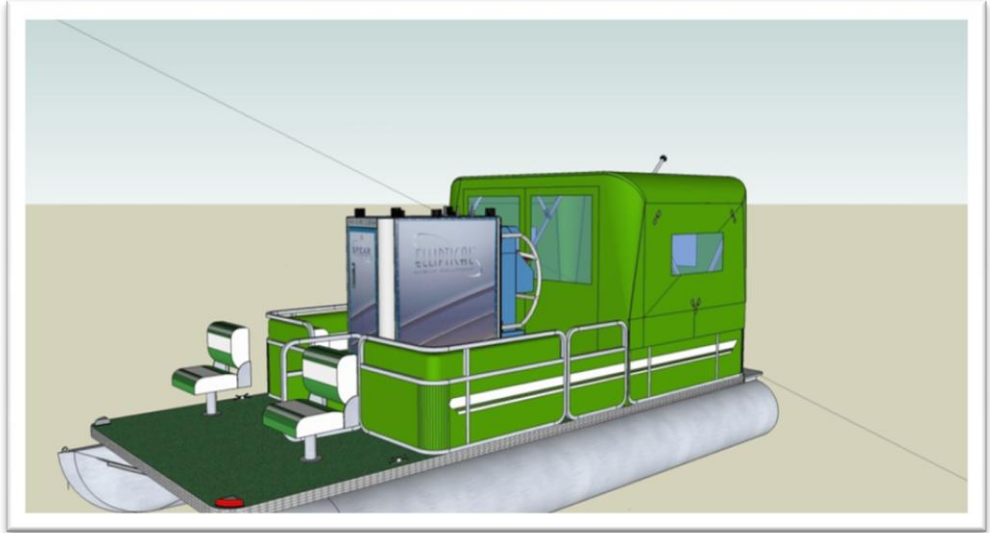
**CATEGORY-4 -Cold Data Center Site (PAPER)**

A Data Center Site that provides hosting for equipment in an alternative production environment for Cold Site Disaster Recovery.

The Offeror(s)' proposed site will reserve space in the event of a disaster for the Agency; only floor space need be available

Eliminate the need for a "Cold Site"

**Any Location is a Cold Site!**



Elliptical Micro Modular Data Centers Provide a Standardized Platform for Hardened, Cost Effective, Energy Efficient and flexible IT/ Communication Deployment Solution

**ANY**  
Network  
Partner's  
Location  
Will Do!



"Bronze" Site



"Gold Site"



Infrastructure Resource "Pool"



"Silver Site"



# Installation Case Study:

## City of Avondale- Municipal Data Center Disaster Recovery Solution



**“with the mobility provided by the C-Spear, we are now in a position to set up our EOC at any location on a moments notice” -Kevin Hinderleider- IT Director City of Avondale**

**“a better option than having to build a secondary facility to house our DR solution “**

**-Kevin Hinderleider- IT Director City of Avondale**

