

The Role of Technology in Defensive Security Systems

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The Mission

Our ultimate test...

*Successfully Manage
Catastrophic Events*

The Means...

*People and Supporting
Technology*



ISDS



The Role of Technology

- The role of defensive technologies is to replace human talents with faster and more consistent performance
- Such technologies are function specific and inflexible.
- Humans are ‘multi-functional’ yet inconsistent





Technology Pro & Cons

Pros

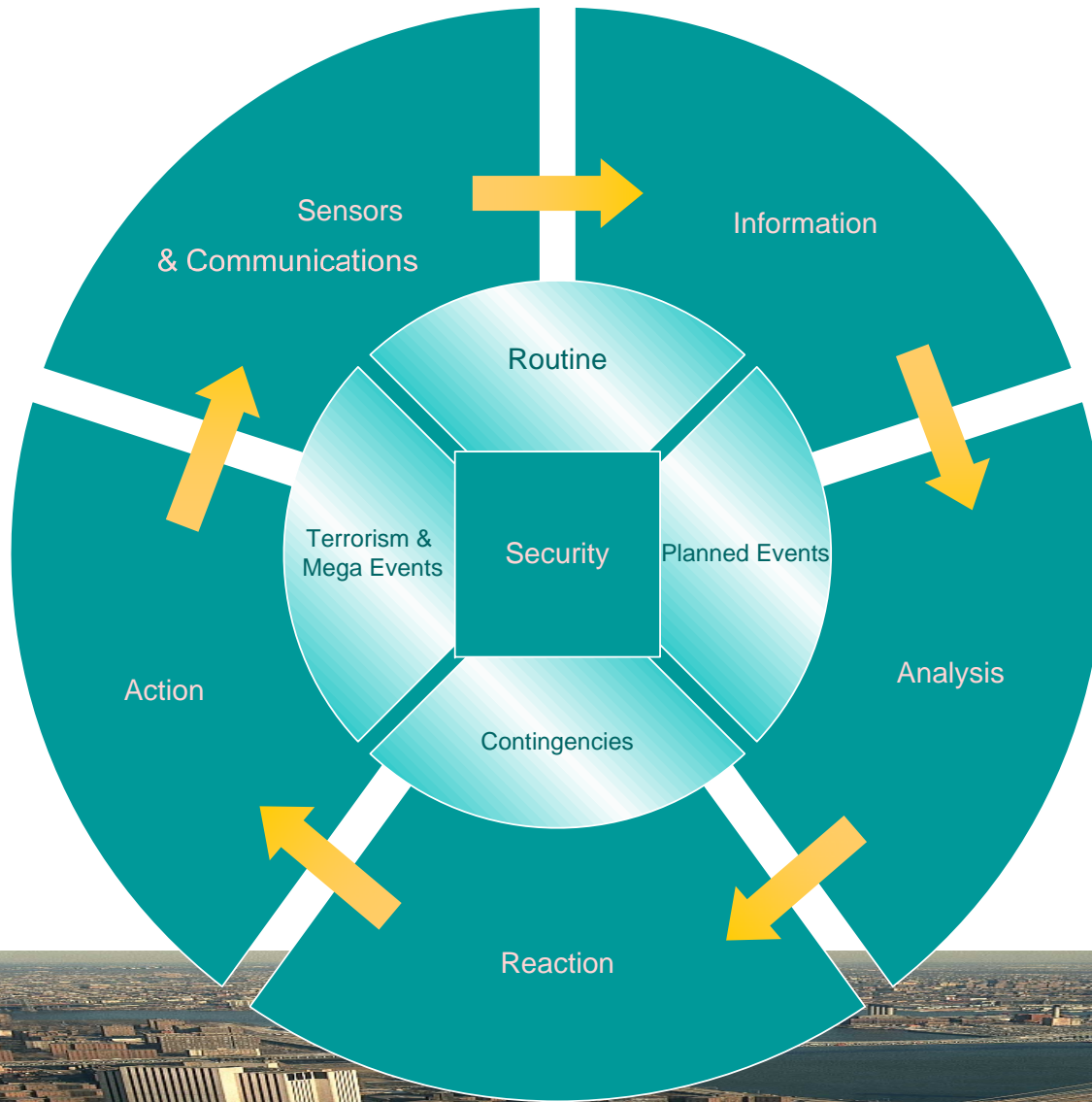
- 24/7 operation
- Consistent touch & feel
- Great memory
- Very fast

Cons

- Very specific functionality
- Inflexible once installed
- Effectiveness depends on installer
- Beware of over automation



Typical Event Cycle



Event Flow

Control Center

Communications

Event Flow

Platforms

Recuperation & Normality

State Systems and Organizations

Proactive Action

State Systems and Organizations

Decisions & Initial Reactions

Software & Human Platforms

Analysis

Software & Human Platforms

Information

Video, Audio, Maps, Data

Sensors

Humans & Sensors

Norms & Procedures

ISDS



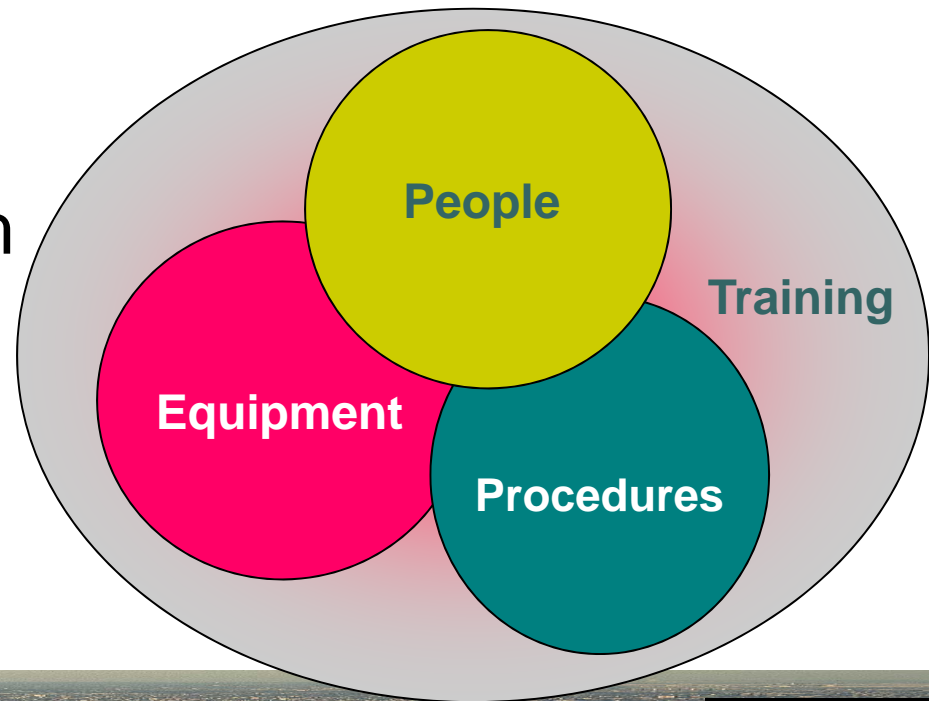
Platforms

- Command, Control, Communications, Computing and Intelligence Center (C⁴I)
- Sensor systems for...
 - Routine
 - Special events (mobile)
- Communications
- Reaction bodies/teams
- Special Reaction systems
- Equipment and systems to reestablish normality



The Challenge

- To Make it Work as an Integrated System!
- To make it work we need to tie
 - People
 - Equipment
 - Event Scenarios
- We do this through
 - Analysis
 - Planning
 - Training
 - Procedures



The Control Center

...is in charge of:

- Tactical event management
- Strategic management (like multiple events)
- Coordination of state forces
- Reestablish Routine



Information in the Control Center

The information....

- Video, audio, data
- Is recorded
- Used to Manage Events in Real Time
- Reconstruct situations to study events, investigation and responses
- Strategic and Tactical event analysis





Control Center Responsibilities

Command and Coordinate

- **Police**
- **Hospitals**
- **Red Cross**
- **Fire Brigades**
- **Electricity Co.**
- **Water**
- **Gas**
- **Government**
- **Public Safety**
- **Traffic Control**
- **Public Transportation**
- **Parking lots**
- **Others**



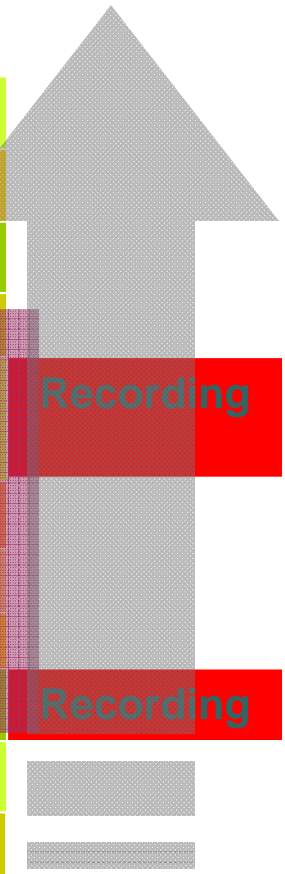
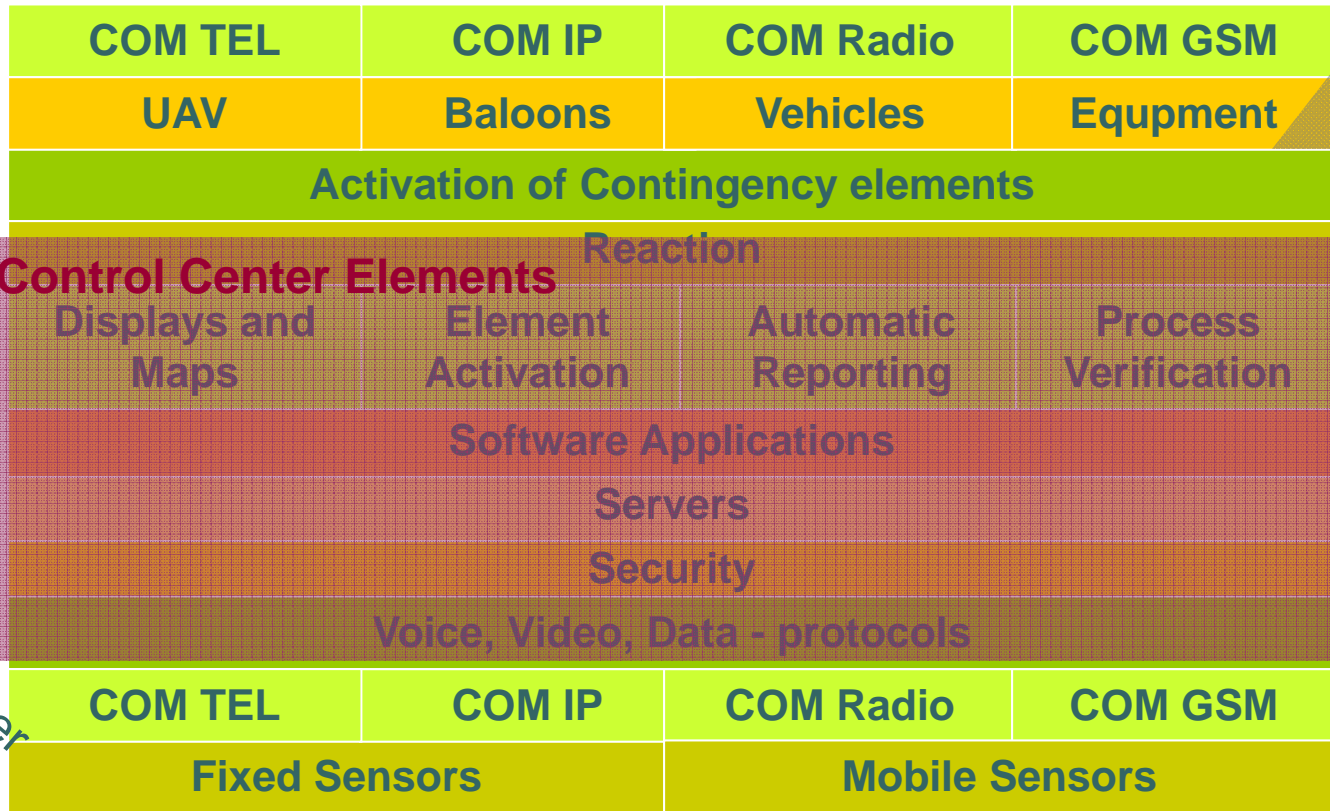


Detailed Stages in Event Development

Special Equipment

Result of Info

“Physical” Layer



● ● ● | Thank You

