

Defense Facilities: Improving Safety and Security Using ArcGIS

Ben Conklin and Jim Bauer - Esri





SOCIAL CONFLICTS

ENVIRONMENTAL

ACTIVE SHOOTER

ENCROACHMENT



WORK STRESS

BUDGET PRESSURES

PUBLIC ENGAGEMENT

ACCESS CONTROL

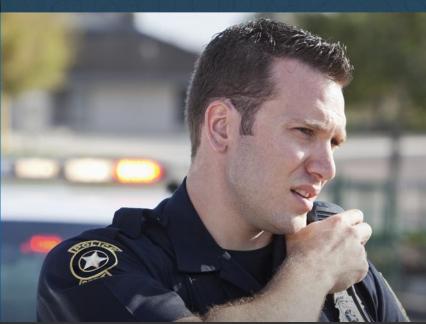


DISASTERS

FIRE

DROUGHT

FLOODING



GIS is helping us be SMARTER, SAFER, & HEALTHIER







GIS Provides the Framework and Process

For Enabling a Smarter World



Visualization and Mapping

Science

Analysis and Modeling

Understanding

Planning and Design

Transforming How We Think and Act . . . Creating a More Sustainable Future

GIS Integrates Real-Time Data Providing Dynamic Information About Everything **Built Environment Natural Environment**

Smart GIS Connects Everyone

Creating a System of Engagement





What Is A Safe Community?

...one in which all sectors of the community work together in a coordinated and collaborative way, forming partnerships to promote safety, manage risk, increase the overall safety of all its members and reduce the fear of harm. The key feature is the creation of an infrastructure to combine their resources and interests.



Australian Safe Communities Foundation



The Underlying Problems:

Sharing static and dynamic data across agencies and organizations for shared situational awareness

Integrating and analyzing data into understandable and actionable information

Deploying mission based applications and viewers to support National Security requirements and decisions

Disseminating information to multiple devices when and where needed for coordinated actions



Transportation Geophysical Infrastructure Advisory Hazmat Meteorological Central & Western Cuba - ETECSA says 80 Other **Incident Frequency**

Assessing Threats

Jim Bauer

GIS Supports
Multiagency &
Interdepartmental
Collaboration

No matter the matter the mission or the jurisdiction, ArcGIS empowers organizations with the capabilities they need to identify threats, preserve critical infrastructure, and save lives.



Can you confidently answer these questions?











- Is your installation healthy, are you protecting your workers?
- Are you prepared to deal with an environmental or technological events?
- Can you secure your installation during a major event?
- Can you execute modern crime control strategies?
- Can you manage emergencies or an intentional attack?
- Can you protect critical infrastructure (both physical and virtual)?
- Can you secure your perimeter and interior?

What do you need to do?

Integrate & Exploit Existing Investments in data & Infrastructure



What do you need?

Essential capabilities



Location Data Management, Analytics and Decision Support
Common Operational Picture
Operations Dashboard



Field Mobility Mobile Apps Collector



Constituent Engagement
Briefing tools
Story Maps





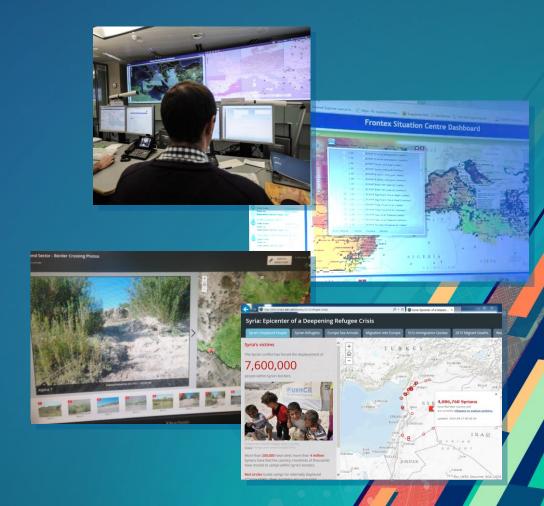
Monitoring Safety and Security

Jim Bauer



Can you secure your perimeter and interior?

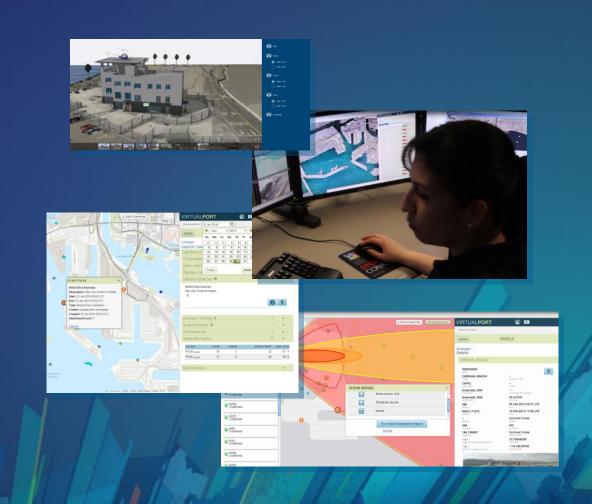




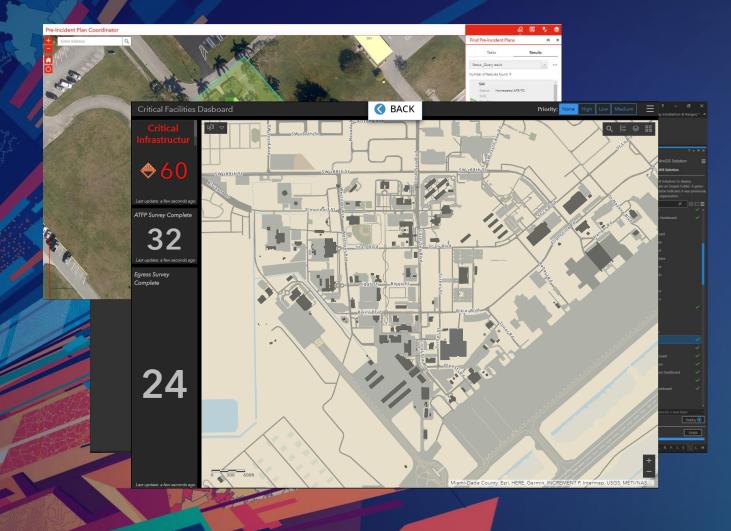
Frontex Operations Center Dashboard, Story Maps

Can you protect your critical Infrastructure?





Port of Long Beach Operations Center
Dashboard



Understanding Critical Infrastructure

Jim Bauer

Are you ready to deal with environmental or technological event?

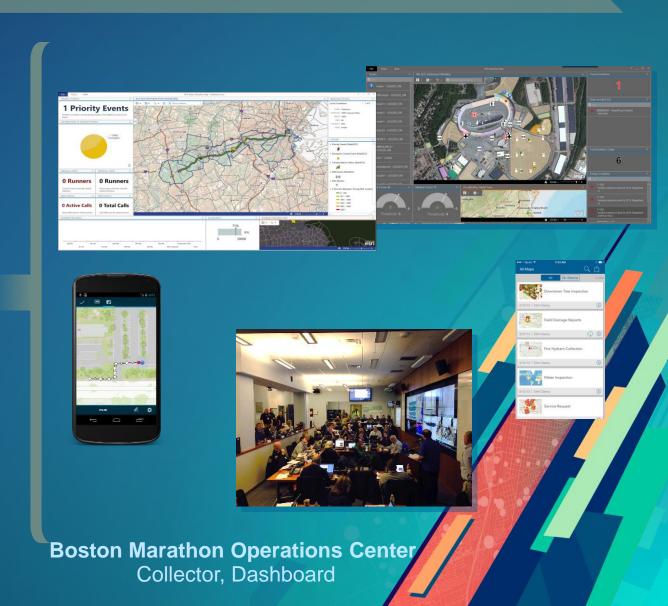




Collector, Dashboard, Story Maps

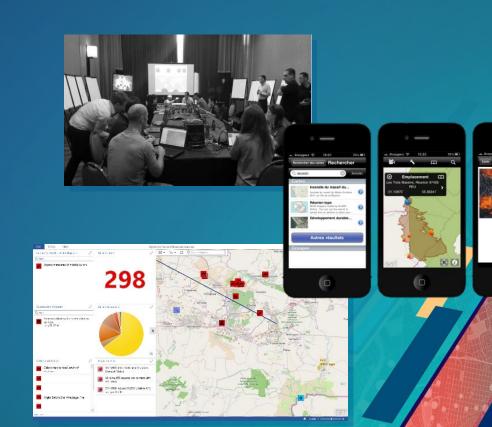
Can you protect your installation during special events?



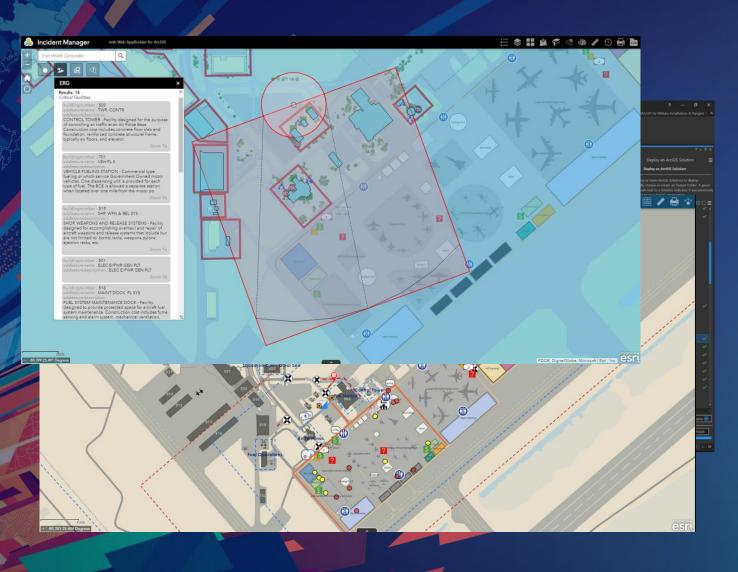


Can you cope with an attack on your installation?





MH17 Shoot-down Temporary Operations Center Collector, Dashboard, Story Maps



Mitigation and Response

Jim Bauer

Who benefits?

Analysts

Planners

Executives

Commanders

Dispatchers

Field Personnel

Briefers

Tenants

Community





















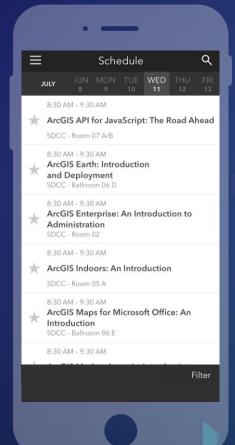


Please Take Our Survey on the App

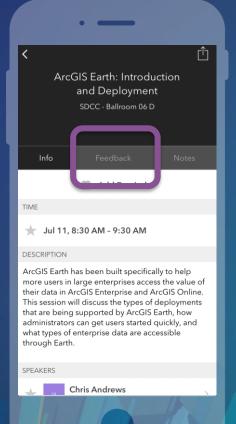
Download the Esri Events app and find your event



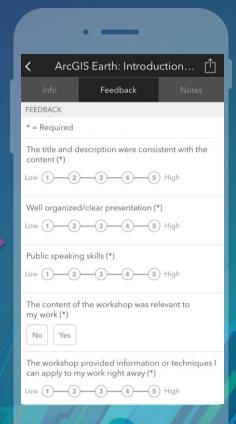
Select the session you attended



Scroll down to find the feedback section



Complete answers and select "Submit"





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