Esri National Security Summit

July 12-15, 2014 | San Diego, CA

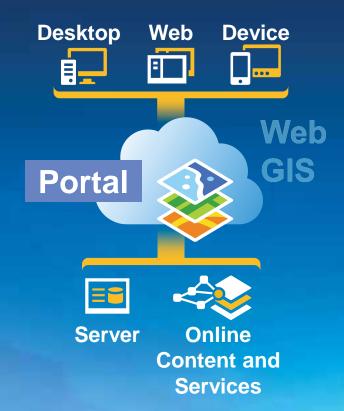


Cybersecurity: A Critical New Domain for GIS

Brian Biesecker and Richard Gale, Esri

GIS Is a Platform Enabling Web GIS Everywhere

Simple
Integrated
Open



Available in the Cloud . . . and On-Premises

Cyberspace Re-Considered

It's Mappable

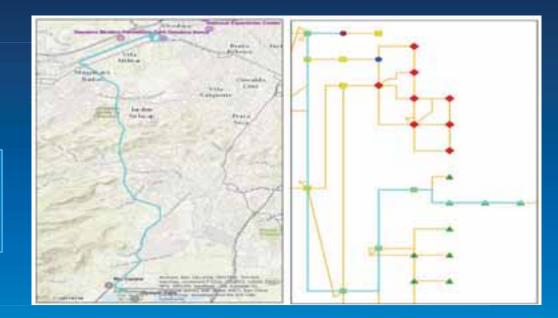
Social / Persona Layer

Device Layer

Logical Network Layer

Physical Network Layer

Geographic Layer

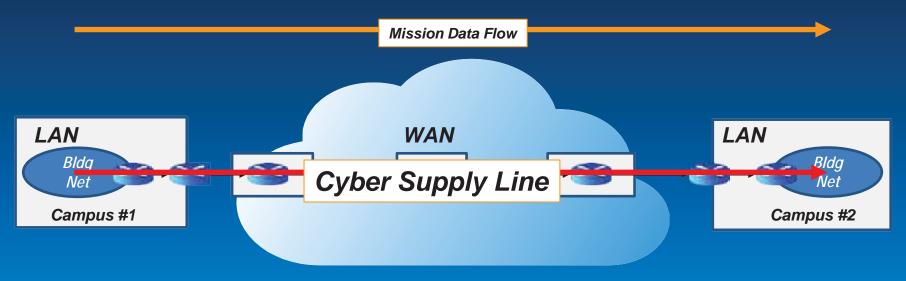


- Each device in cyberspace is owned by someone (no 'global commons')
- Electro-mechanical devices exist in space-time and interact with physical events
- Geography is required to integrate and align cyberspace with other data



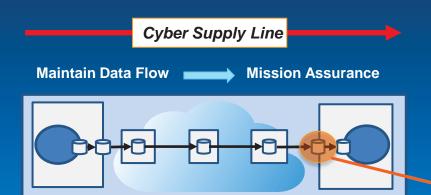
The Cyber Supply Line

A vector of devices



- Cyber Supply Line (CSL) is a *consistent* path through the infrastructure
- CSL focuses resources on only the devices that are critical
- Managing data flows is similar to traffic routing; an Esri core competency

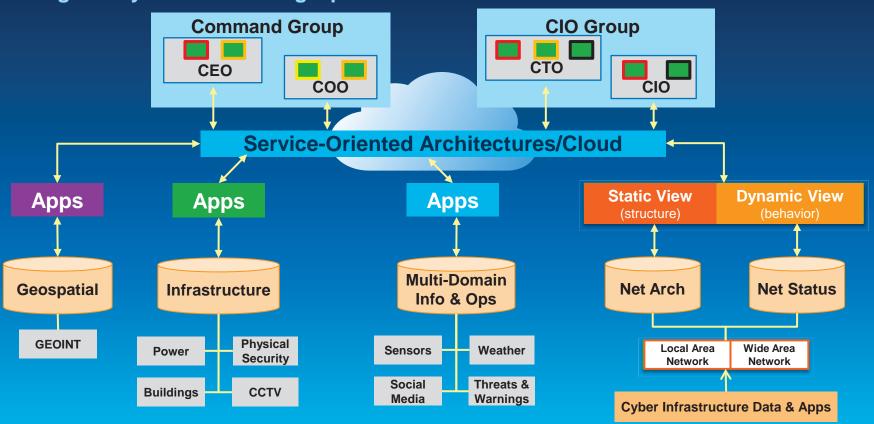
Effect Propagation Multi-level Model of Data Flow





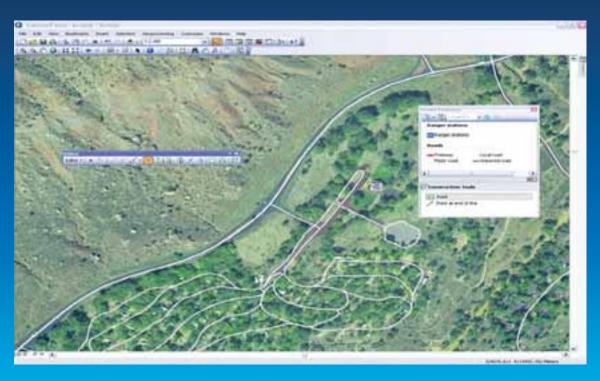
Solution Strategy

Integrate Cyber into existing Operational Pictures



Cyber Demo

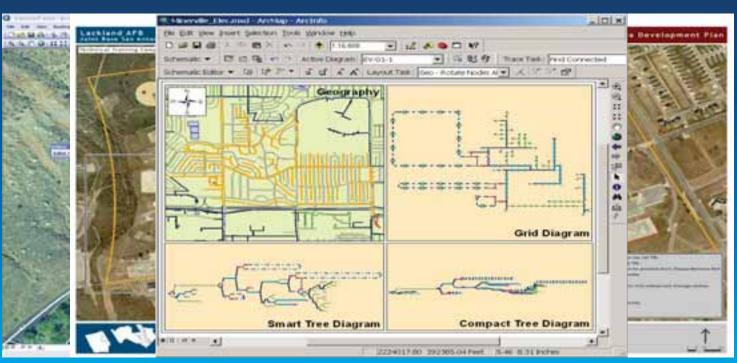




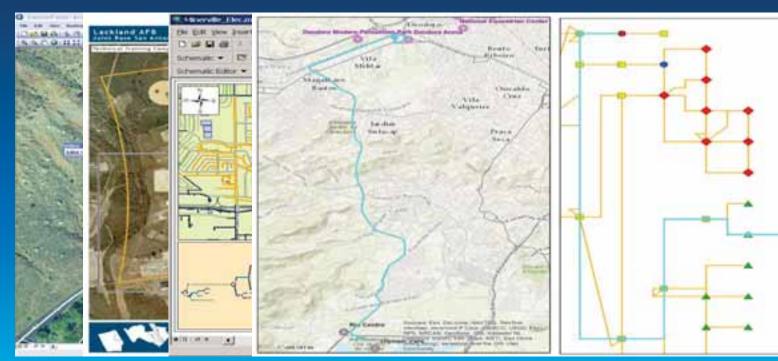




















Understanding our world.