

**Esri National Security Summit**

July 12–15, 2014 | San Diego, CA



# **Geospatial Technology—An Inherent Thread in the National Security and Public Safety Standards Framework**

*Steve Ambrosini, Executive Director, Integrated Justice  
Information Systems (IJIS) Institute*

# IJS Institute

*Helping to overcome the challenges of keeping communities safe...*

## ❑ *Engaging a Diverse Community of Practice*

- ❖ IS&S Innovation through technology
- ❖ Building Solutions Through Partnerships

## ❑ *Enabling New Information Sharing Capabilities*

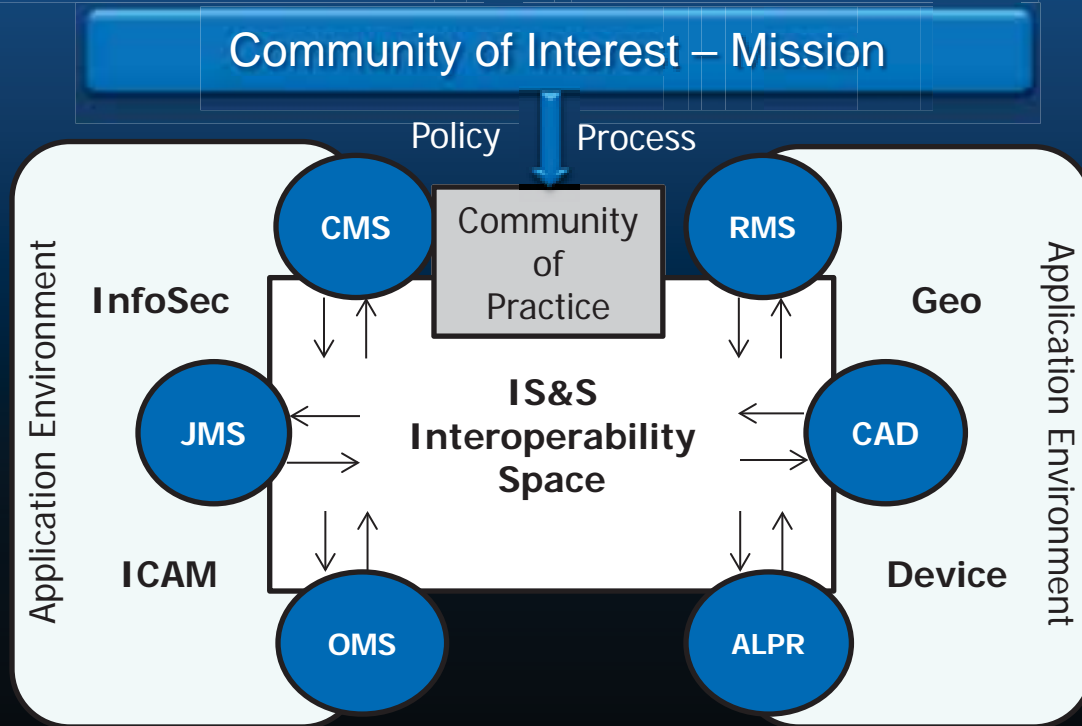
- ❖ Mission Based Interoperability
- ❖ Common National IS&S Architecture – Standardization

# NATIONAL STRATEGY FOR INFORMATION SHARING AND SAFEGUARDING



- ❑ Information as a **national asset** – to be protected from unauthorized access and improper use.
- ❑ Shared Risk Management to **assure the free flow of information** to those who need it, **without compromise**.
- ❑ Supporting **decision making in life critical situations** –field officers, court officers making decisions to release or hold.

# IS&S Interoperability – The White Space



US \$465B  
Youth Crime  
(3% of \$15T GDP)

US \$3,257  
Per Taxpayer

MEX \$9.6B Loss  
Violent Crime

GTM \$2.4B Loss  
Violent Crime  
7.3% GDP

TTO \$160M Loss  
Violent Crime  
1.3% GDP

JAM \$9.6B Loss  
of Tourism  
3.2% of GDP

UK \$4,800  
Per Taxpayer

ITY \$4,800  
Social Cost

CHN \$2.7T  
10yr Cost of  
Crime 2009

IND \$462B (7.7B/yr)  
Criminal Loss of  
Assets 1948-2008

**CRIME is a Worldwide Economic Issue**

- Worldwide Spending on crime prevention and response Ranges from 1.3% to 7.8% of GDP Worldwide

BRA 3-5% GDP  
Cost of Crime

ZAF 7.8% GDP  
Cost of Crime

AUS \$36B  
Cost of Crime

# Technologies Impacting Public Safety – Justice – Homeland Security

## Mobility

Ubiquitous – Multi Media – FirstNet

## Cyber

ICAM – Federation

## Big Data

V<sup>3</sup> – Analytics – Geo

## Video Image

Model Use Framework – IS&S

## Situation Aware

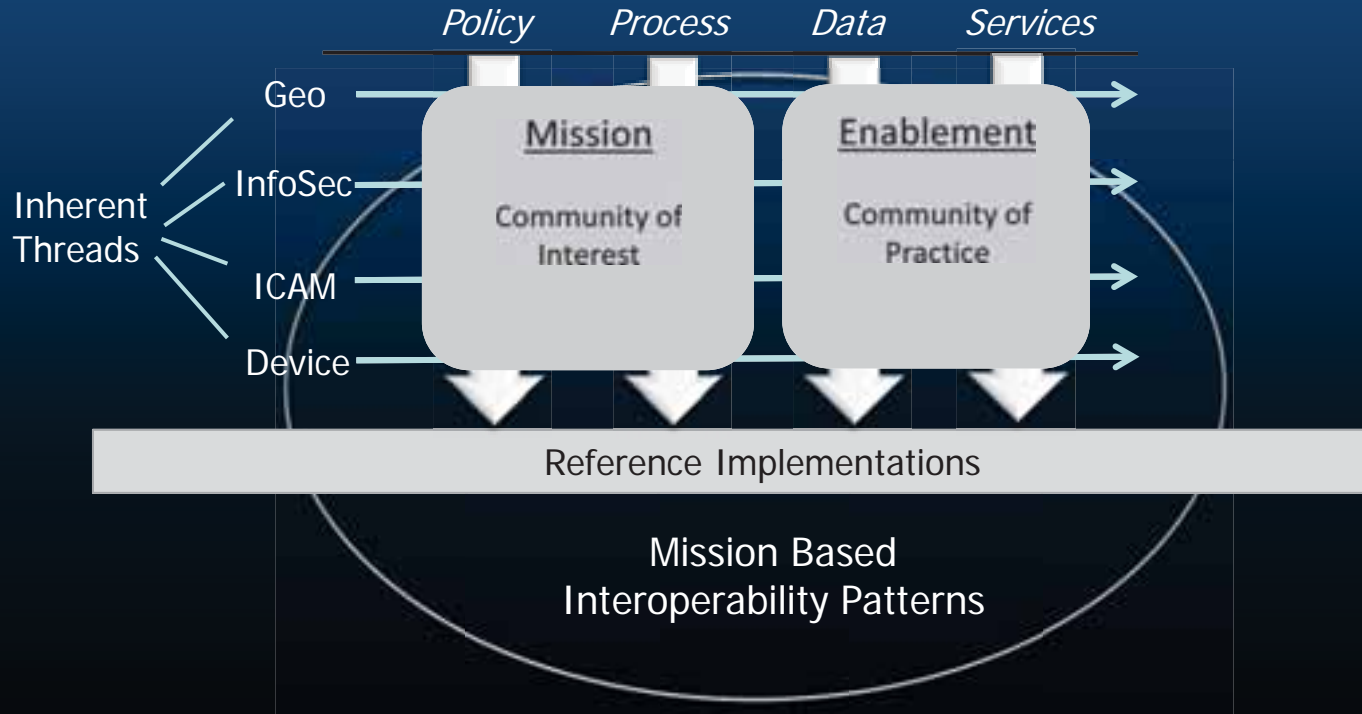
Intel Discovery – IM Life Cycle

## Geospatial

Place Based Theory

# National Interoperability Framework

## Common Taxonomy – Interoperability Profiles

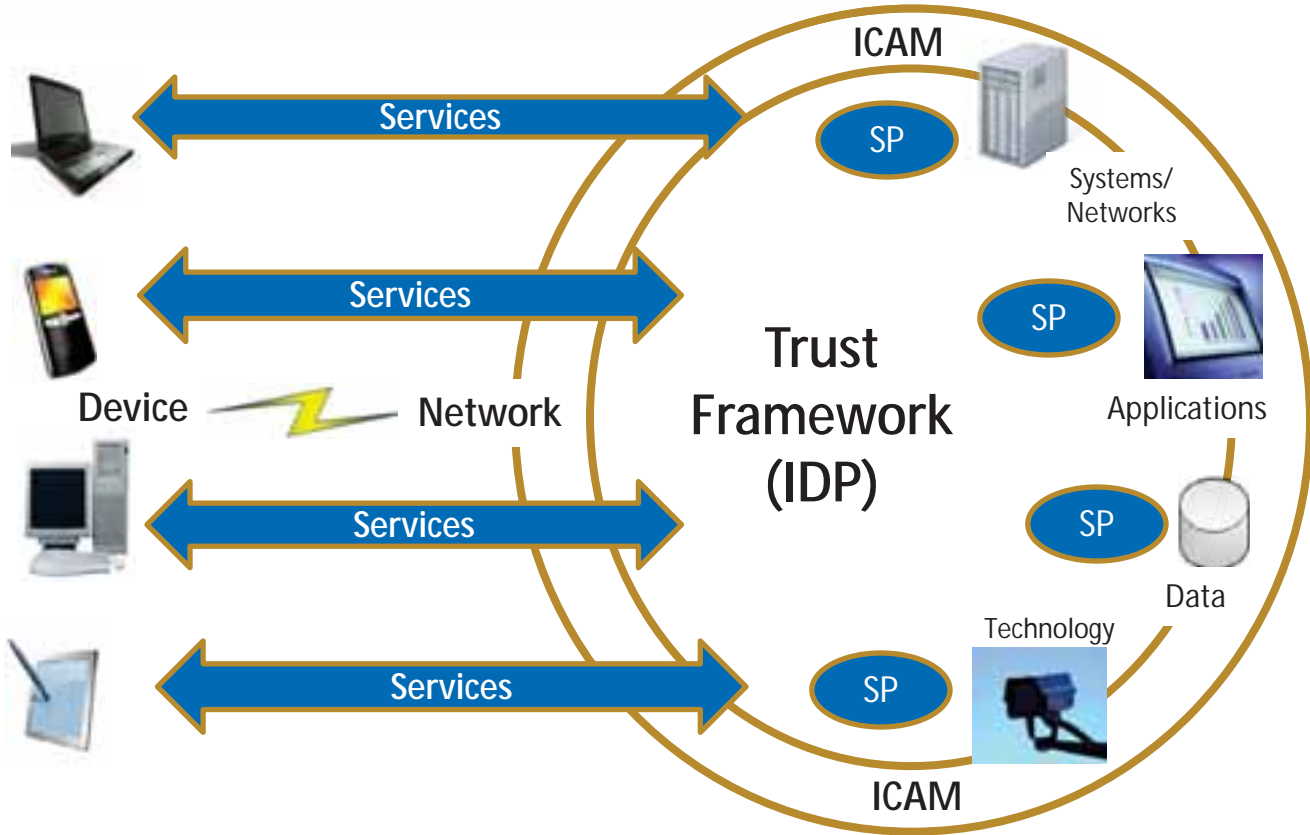


# Project Interoperability

- ❑ Incident Management Information Sharing (IMIS)
  - ❖ Incident Information Sharing Continuum
  - ❖ Public Safety CAD Interoperability – Springboard
- ❑ Standards-based Interoperability
  - ❖ National Interoperability Framework
- ❑ Shared Services Federation – RFI, ICAM
  - ❖ Network, Data, Application, Technology



# Identity Management Ecosystem



# IS&S Forward Principles

- ❑ Connect – Across Domains (DNS)
- ❑ Harmonize – Data Vocabulary/Semantics
- ❑ Profile/Pattern – Service Interaction Protocols
- ❑ Instantiate – OS Environments
- ❑ Federate – Inherent Threads

*A question to contemplate ...*

What is the best strategy for advancing information sharing and interoperability: how much do we drive the concept; when is it best to stay out of the way?

*Thank You for your time today...*

**Steve Ambrosini**

Executive Director

[Steve.ambrosini@ijis.org](mailto:Steve.ambrosini@ijis.org)

703-726-1908

[w.ijis.org](http://w.ijis.org)