

Business First Approach to Information Sharing: Lessons Learned from the Creation of Indiana's Strategy & Solution



Overview to U.S. DOJ's Global Advisory Committee
April 11, 2012



Topics

Background

- Intent/Purpose of the Project

Strategic Planning Process

- The Business First Approach

ROI Overview

- Cost savings and cost avoidance

Thank You

- Questions

Current State: Silos

**More than
just corn
silos in
Indiana...**



Key Business Drivers



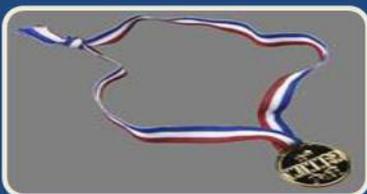
Indiana's justice and public safety organizations have historically made independent decisions regarding public safety data communications and how and when to share electronic data.



An opportunity existed to improve efficiency and enhance public safety services.

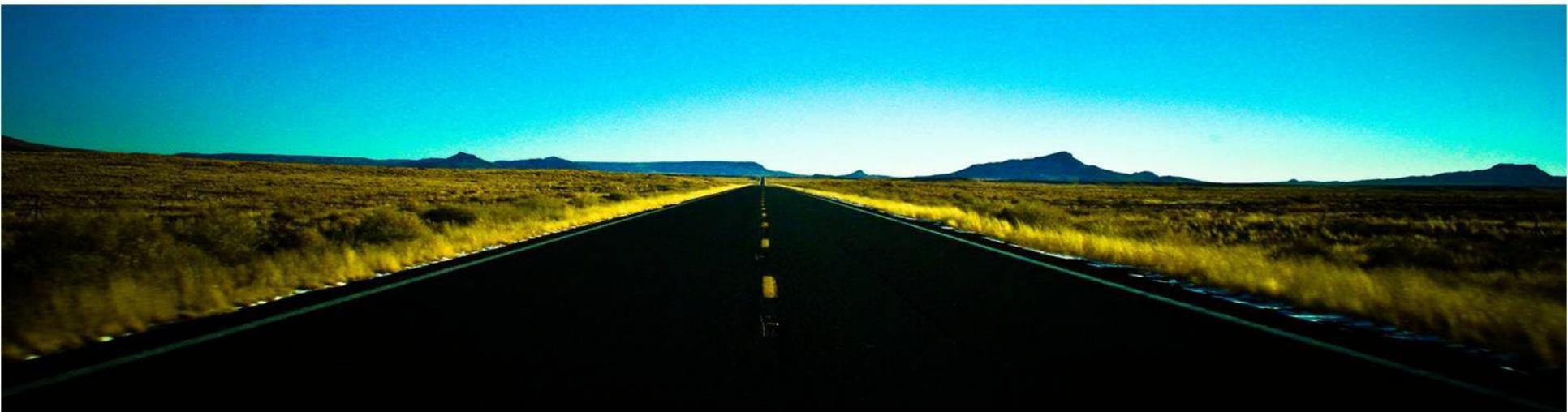


The State of Indiana public safety community recognized a need to enhance services by sharing data across jurisdictions, including among local, state and federal public safety agencies.



State of Indiana desired to emerge as a national leader in criminal justice and public safety information sharing.

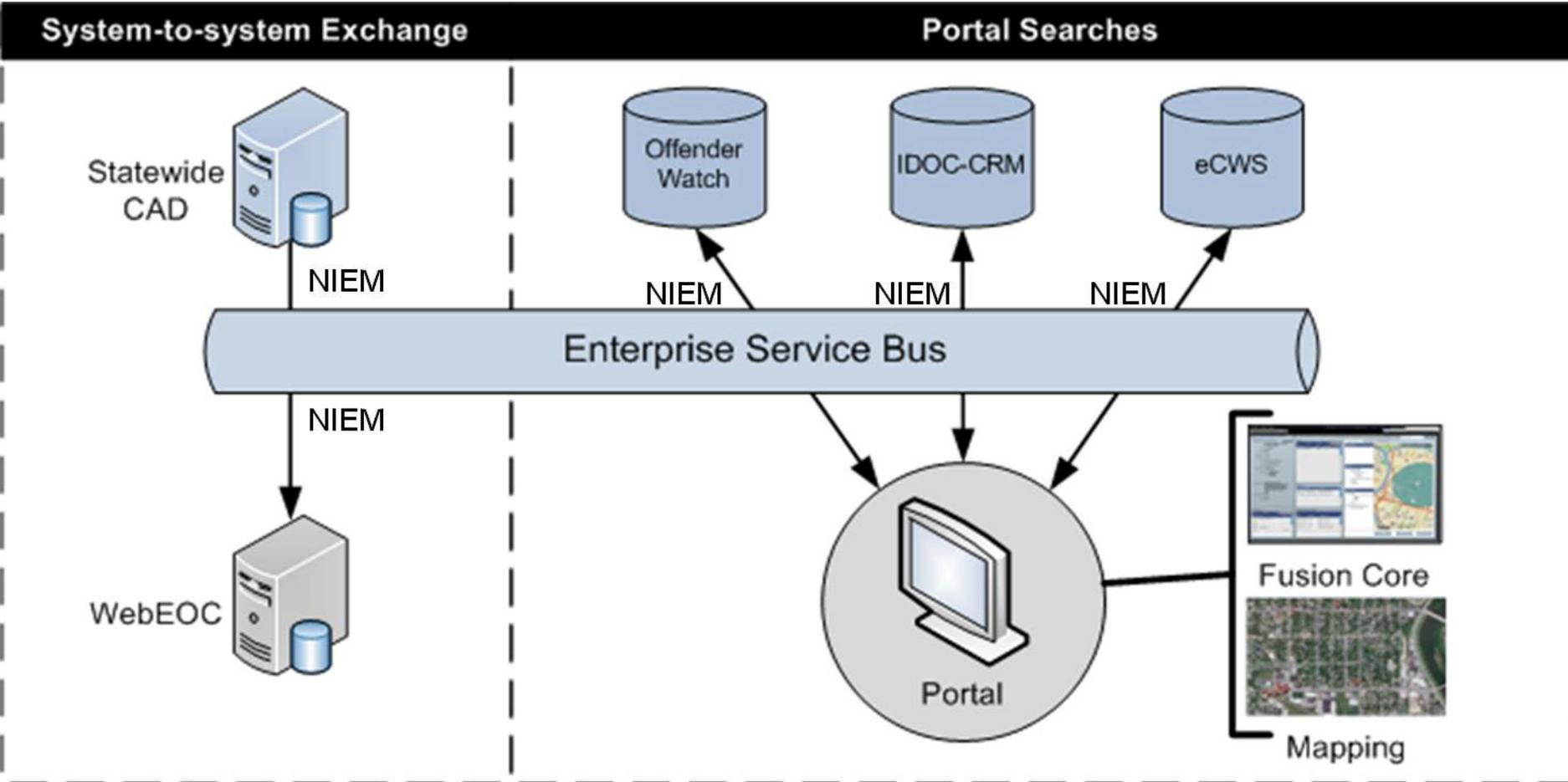
Agency Collaboration from Day One



We Began the Journey Together



High-Level Solution: Proof-of-Concept



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Business First Approach

1. Envision



Mission and vision statements
Current environment assessment
Gaps/needs analysis
Prioritized data exchanges
Exchange modeling
Strategic Plan

2. Architect



System design
System architecture (NIEM, GFIPM, GRA)
Implementation plan

3. Build



NIEM-conformant exchanges
Setup of enterprise environment (Enterprise Service Bus, Portal, Fusion Core Solution)
Return on Investment Analysis

IDEx Vision and Mission

Vision

- Indiana will be a leader in providing secure, standards-based enterprise data exchange and information sharing enhancing the safety and security of all Hoosiers.

Mission

- To establish a comprehensive framework and strategy to promote and facilitate the exchange of critical information in a secure environment to support the missions of local, state, federal and private sector partners.

Agency Current Environment Assessment

- Governance
- Systems
- Privacy & Security

State of Indiana • Public Safety Data Interoperability and Integration Agency Current Environment Assessment • Summary

Indiana Department of Natural Resources

Agency Overview

Agency Background
The Indiana Department of Natural Resources (DNR) Law Enforcement Division employs 214 conservation officers who serve the public and protect the natural Hoosier heritage of the state of Indiana. The division has its headquarters in Indianapolis and operates 10 law enforcement districts throughout the state. Founded in 1897, the Law Enforcement Division is the oldest state law enforcement agency, and one of the most diverse.

Governance

- Indiana Administrative Code Title 312 Article 4 grants specific operating authority to the DNR Law Enforcement Division.
- A DNR conservation officer is a law enforcement officer under IC 9-13-2-92 and IC 35-41-1-17 and has the power to enforce Indiana laws.

Public Safety Systems

The table below summarizes the systems that are used by DNR. The table provides the name of the system, the agency that owns the system, and a summary of its business use.

System Name	Agency Owner	Business Use
Systems owned by DNR		
CODY	DNR	CODY serves as the system of record for all activities of the DNR Law Enforcement Division.
Systems utilized by DNR but maintained by another entity		
IDACS	ISP	Indiana Data and Communications System. Access to information available in the National Crime Information Center such as national BMV records, vehicle history, warrants, criminal histories, Violent Gang and Terrorist Organization File (VGTOF).

Privacy & Security

DNR is governed by the following standards:

- Agencies own and are responsible for and must oversee the protection of personal information they collect. [Information Security Framework (ISF) 4.5.1]
- 28 CFR part 23 - A project or authorized recipient shall disseminate criminal intelligence information only where there is a need to know and a right to know the information in the performance of a law enforcement activity.
- 28 CFR part 23 - A project shall disseminate criminal intelligence information only to law enforcement authorities who shall agree to follow procedures regarding information receipt, maintenance, security, and dissemination which are consistent with these principles.

Systems and Interfaces

DNR owns one system, CODY. It interfaces with both state and federal systems. The system box details the system's business use, technology, development, database type, and number of users.

The diagram illustrates the CODY system box (Records Management System of all activities of the DNR Law Enforcement Division) with arrows pointing to an 'Other Agency' box containing IDACS, PeopleSoft, and COBRA. Below this is a 'Local' box. The 'Federal' box above is labeled 'No interfaces defined'.

Agency Gaps/Needs

Indiana Department of Homeland Security (IDHS)

Data and Information Sharing Gaps and Needs

The table below presents the areas identified as gaps or needs in the current information systems utilized by the agency.

Area	Information Needed	Who has the data?	Who will use the data?	How will the data be used?	Benefit to the agency	Priority	Impact	Investment
Emergency Management	Calls for service, incident information	Integrated Public Safety Commission (CAD/RMS)	Response & Recovery Division - EOC	To coordinate emergency operations and emergency planning	Provides awareness of emergencies for proper response	1	1	6
Emergency Management	Calls for service, incident information	Local law enforcement (various systems)	Response & Recovery Division - EOC	To coordinate emergency operations and emergency planning	Provides awareness of emergencies for proper response	2	1	2
Infrastructure	Power outage information, number affected, percent, and locations of outages	Various energy companies (numerous systems)	Response & Recovery Division - EOC	To populate critical emergency response information in WebEOC	Provides information needed to respond appropriately in an emergency	3	1	3



Statewide Gaps/Needs

State of Indiana • Public Safety Data Interoperability and Integration
Gaps and Needs Worksheet



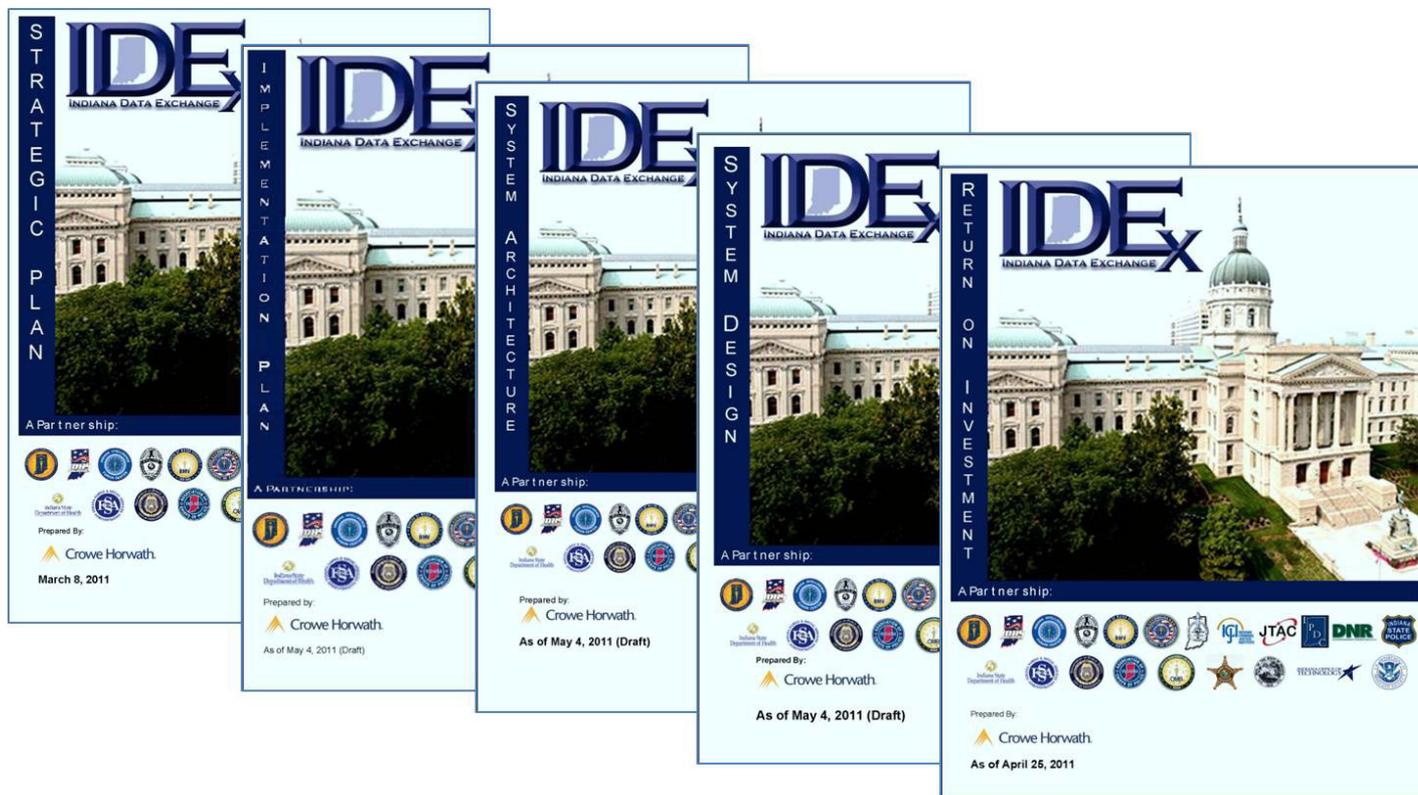
			Bureau of Motor Vehicles	Department of Correction	Department of Natural Resources - Law Enforcement	Family and Social Services Administration	Indiana Criminal Justice Institute	Indiana Department of Homeland Security	Indiana Intelligence Fusion Center	Indiana Prosecuting Attorneys Council	Indiana Public Defender Council	Indiana State Department of Health	Indiana State Ernie Pyle	Indiana State Police	Integrated Public Safety Commission	Judicial Technology and Administration Committee	Indiana Association of Chiefs of Police	Indiana Sheriff's Association	Ability to save time and create efficiencies	Number of agencies benefiting from the exchange	Quality of data, including validity and accuracy	Ability to integrate security and privacy (defining publicly accessible and non-accessible and non-accessible metadata)	Ability to integrate with NEM/IEP Data from the Clearinghouse	Total	Ability for higher return on investment	
Category/Event	Sub-data	System																								
Addresses		U.S. Postal Inspector System																							7	
Apportioned plates		DOR system																							9	
Arson investigations		BATS																							6	
Asset records		DFSS - Arson																							6	
		IDOA M5 System																							7	
BMV data	Unlimited driver data	INDOT system																							13	
	Vehicle data	BMV STARS																							12	
	BMV photos	BMV photo database																							8	
	BMV investigations	BMV CODY																							10	
	SSN	BMV STARS																							12	
	Race data	BMV STARS																							8	
	Facial recognition data	Facial Recognition Software																							6	
Building plans	DFBS - Plan Review																								7	
Business owner information		Secretary of State system																							10	
Census and poverty data		Indiana Prevention Resource Center																							9	
Chemical hazard information		CAMEO																							9	
Citations and warnings	Traffic citations & warnings	eCWS																							12	
	ISEP citations	ISEP CODY																							7	
	DNR citations	DNR CODY																							7	
Commercial vehicle records	All data	Transportation Safety Systems																							10	
	Inspections	SAFETYNET																							8	
	Registrations	SAFETYNET																							8	
Coroner's data		Coroner's database																							9	
Court case records	All data	Odyssey, various local CMS																							12	
	Abstract of judgment	Odyssey, various local CMS																							12	
	Court medical evaluations	Odyssey, various local CMS																							7	
	Active warrants, detainees	Odyssey, various local CMS																							10	
	Pre-sentence investigation	Odyssey, various local CMS																							13	
	Probable cause affidavit	Odyssey, various local CMS																							9	
	Crimes	Odyssey, various local CMS																							9	
	Dropoff data	Dropoff																							12	
	Indianapolis/Marion County	JUSTIS																							13	
	Quest data	Quest CMS																							11	
Crash data		ARIES																							12	
Criminal activity		Law Enforcement Online																							6	
		MAGLOCLEN RISS																							6	
		RISSNET																							7	
Criminal history	State criminal history	CHRIS																							13	
	National criminal history	IDACS/NCIC																							9	
	Local criminal history	ProLink																							11	
	Local criminal history	Software Unlimited																							10	
Criminal intelligence		IFC I2																							9	
		ISP I2																							10	

Prioritization: Heat Map

- Guiding Principles
- Ability to save time and create efficiencies
- Number of agencies benefiting from the exchange
- Quality of data, including validity and accuracy
- Ability to demonstrate security and privacy (defining publically accessible and non-accessible material)
- Ability to leverage existing NIEM IEPDs from the Clearinghouse

Legend			Criteria							Total	Priority			
High	Medium	Low	1. Ability to save time and create efficiencies	2. Number of agencies benefiting from the exchange	3. Quality of data, including validity and accuracy	4. Ability to demonstrate security and privacy (defining publically accessible and non-accessible material)	5. Ability to leverage existing NIEM IEPDs from the Clearinghouse	6. Other	7. Other	8. Other	9. Other	10. Other		
Category/Event	Sub-Data	System												
Offender information	All data	OD	High	High	High	High	High	High	High	High	High	High	18	High
Offender information	Offense release data	SPD/IT	High	High	High	High	High	High	High	High	High	High	14	High
MPV data	Unrecorded other data	MPV STARS	High	High	High	High	High	High	High	High	High	High	10	High
Court case records	Pre-arrest investigation	COCasey, without local OMS	High	High	High	High	High	High	High	High	High	High	10	High
Court case records	Indiapolis/Martin County	AJRTS	High	High	High	High	High	High	High	High	High	High	10	High
Criminal history	State criminal history	CHRS	High	High	High	High	High	High	High	High	High	High	10	High
Offender information	DOC parcels	OD	High	High	High	High	High	High	High	High	High	High	10	High
MPV data	Vehicle data	MPV STARS	High	High	High	High	High	High	High	High	High	High	10	High
Statutes and settings	Traffic citations & settings	ICDTS	High	High	High	High	High	High	High	High	High	High	10	High
Court case records	All data	COCasey, without local OMS	High	High	High	High	High	High	High	High	High	High	10	High
Court case records	Arrested of judgment	COCasey, without local OMS	High	High	High	High	High	High	High	High	High	High	10	High
Court case records	Divulge data	COCasey	High	High	High	High	High	High	High	High	High	High	10	High
Court data		INSD	High	High	High	High	High	High	High	High	High	High	10	High
Case management data		INARCIC	High	High	High	High	High	High	High	High	High	High	10	High
MPV data	MP vehicle data	MPV	High	High	High	High	High	High	High	High	High	High	10	High
Public safety systems		Network COPS/IS	High	High	High	High	High	High	High	High	High	High	10	High
MPV data	MPV photos	MPV photo database	High	High	High	High	High	High	High	High	High	High	10	High
Judicial statistics		INBA ECR	High	High	High	High	High	High	High	High	High	High	10	High
Offender information	Parole/probation data	OD	High	High	High	High	High	High	High	High	High	High	10	High
Registered sex offenders		Sex offender registry	High	High	High	High	High	High	High	High	High	High	10	High
MPV data	MPV	MPV STARS	High	High	High	High	High	High	High	High	High	High	10	High
Commercial vehicle records	All data	Transportation Safety Systems	High	High	High	High	High	High	High	High	High	High	10	High
Criminal intelligence		MP II	High	High	High	High	High	High	High	High	High	High	10	High
Response mobility reports		INSDS eMORT	High	High	High	High	High	High	High	High	High	High	8	High
Hot file		INSDS	High	High	High	High	High	High	High	High	High	High	8	High

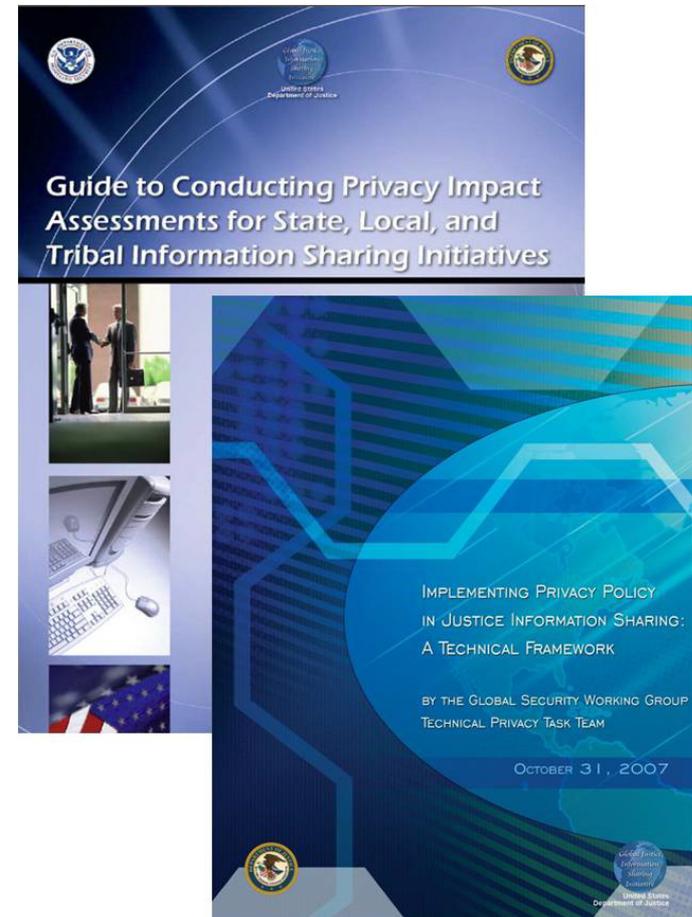
Primary Guiding Documents



“This is not rocket science, but it does represent a kind of discipline.”
-From: Crossing the Chasm, page 67, Geoffrey A. Moore

IDEx Privacy Policy

- Developed a Privacy Policy to support IDEx
- Received TA from BJA/IIR to draft the initial policy
- Leveraged best practices from fusion center policy development, Global publications, and other state information sharing policies including from Alabama and Hawaii



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ROI Overview

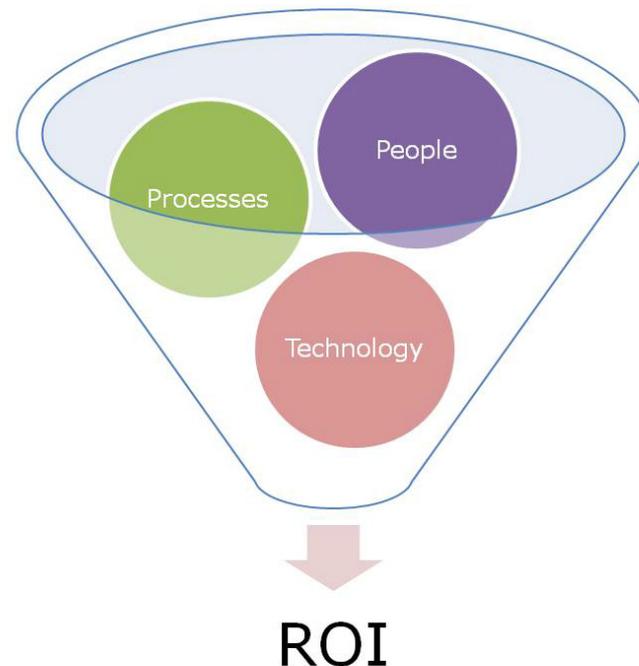
- Cost savings and cost avoidance

Thank You

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The Importance of a Demonstrable ROI

- Support for information sharing goes beyond the business case
- In today's economic climate, information sharing initiatives need to demonstrate a Return on Investment (ROI)
- Cost savings (spending less than previously spent) and cost avoidance (expenses that are no longer needed) can be demonstrated in three areas:
 - People
 - Processes
 - Technology



“You can’t allow tradition to get in the way of innovation.”
-From: Disney CEO, Robert Iger, HBR July/August 2011

Return on Investment – Approach

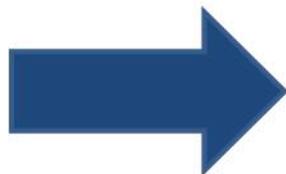
- The return on investment estimates the potential cost savings and cost avoidance achieved through standards-based information sharing using an enterprise data integration environment for the identified gaps/needs (350+)
- Focus on two components:

Cost Savings

- Cost savings is spending less than previously spent or less than quoted options.

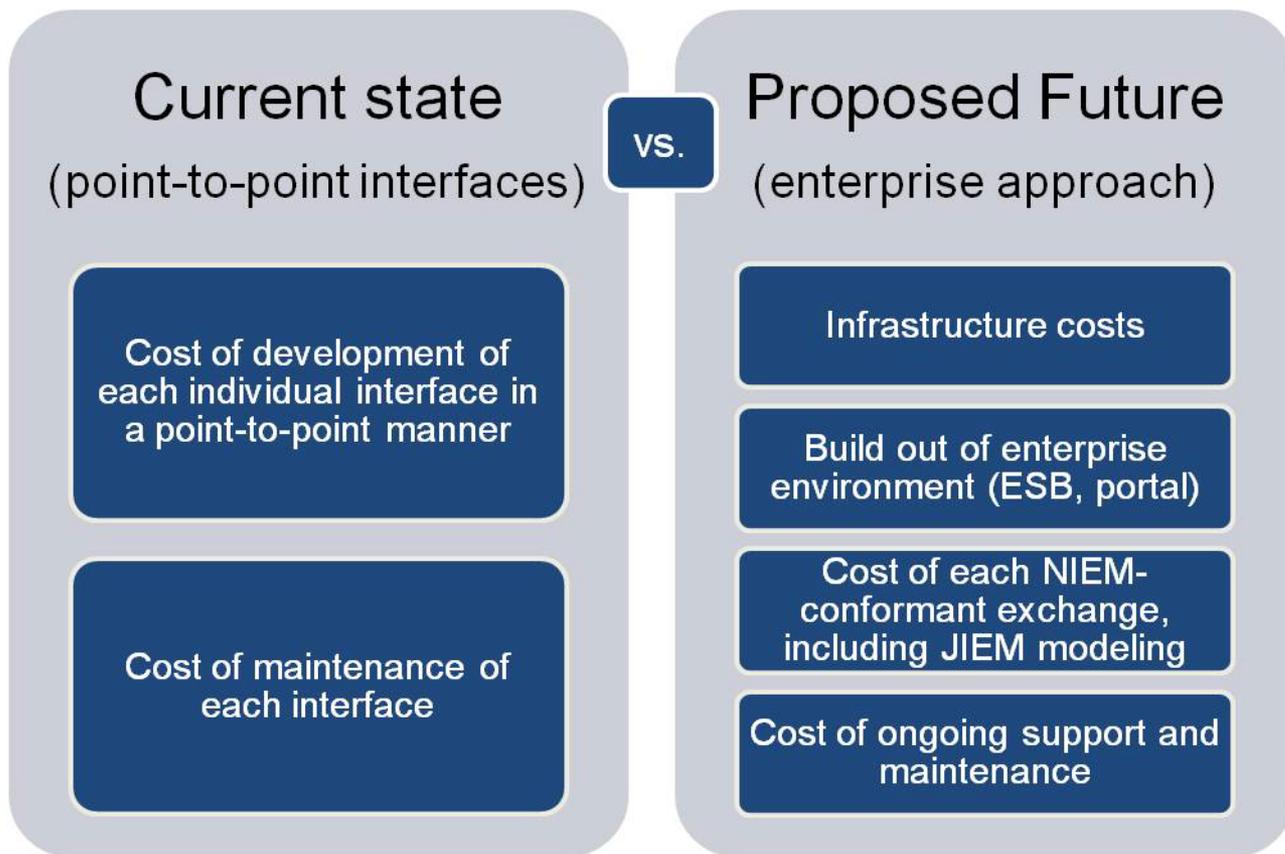
Cost Avoidance

- Cost avoidance is used to communicate the expenses that will no longer be incurred as a result of an increase in efficiencies.



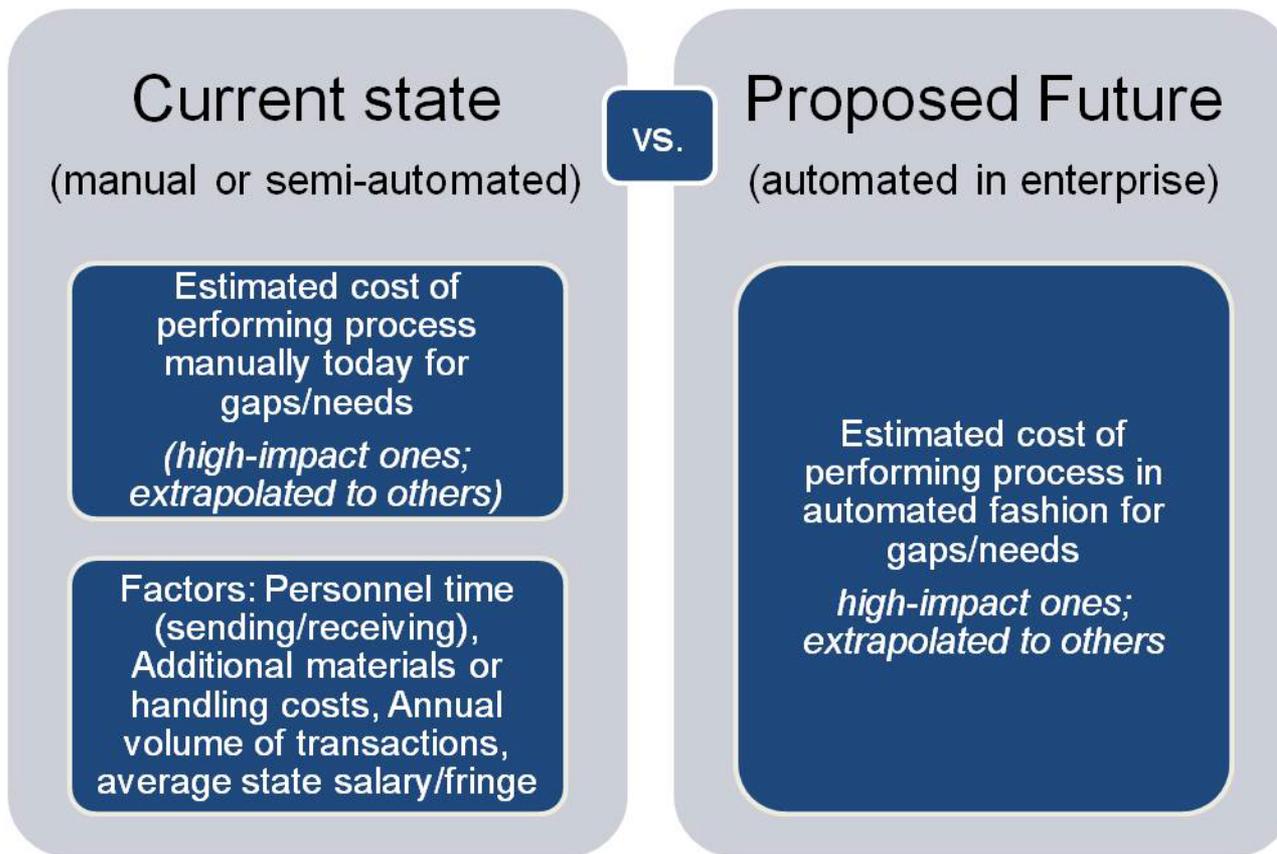
ROI looked to the **enterprise data sharing environment and leveraged national information sharing models** including JIEM, NIEM, GRA and GFIPM.

Approach: Estimated Cost Savings (Current vs. Future)



- Estimated current vs. proposed future for 350+ data sharing gaps/needs
- Savings exists when more than two agencies desire access to same data set
- Results indicated a savings of over 13% to develop all desired exchanges in the enterprise environment
 - Range as high as 35-40% for some exchanges (multi-agency, multi-domains)

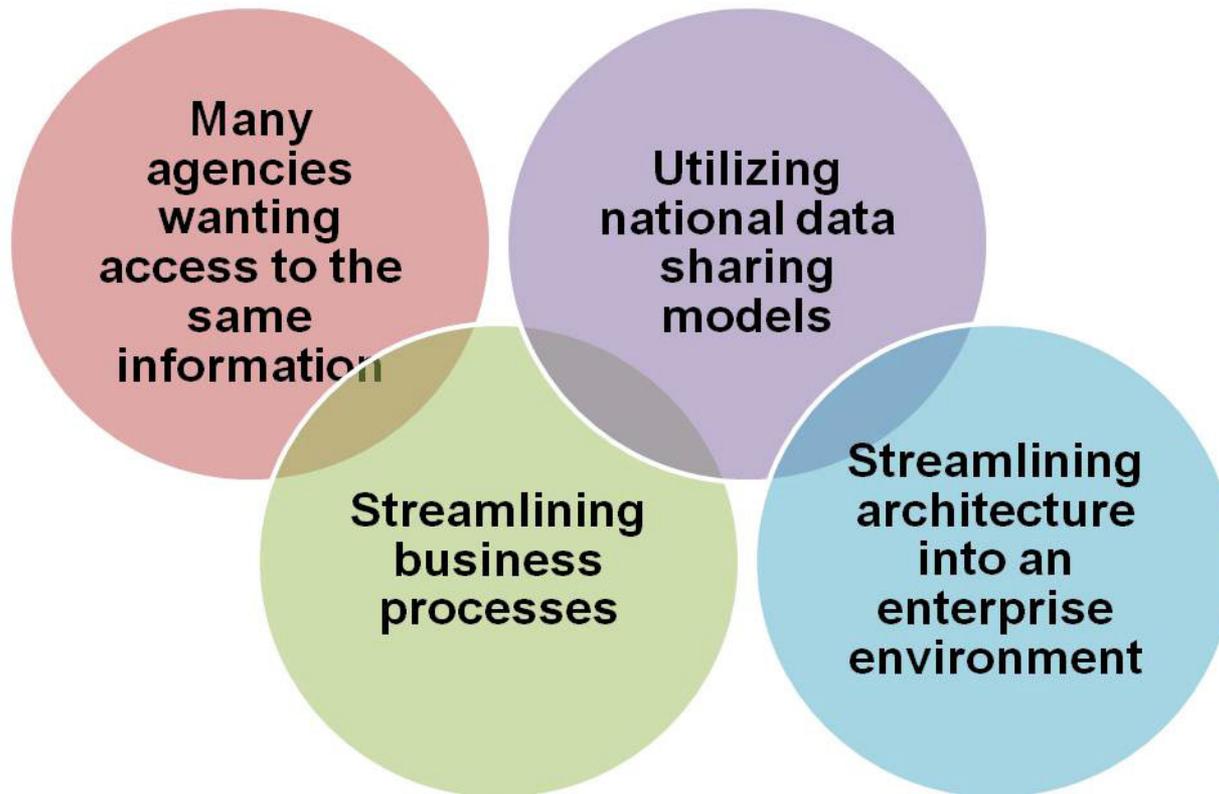
Approach: Estimated Cost Avoidance (Current vs. Future)



- Estimated process cost for current vs. proposed future for 350+ data sharing gaps/needs were
- Results indicated a savings of over \$3 million annually from gained process efficiencies

Findings

- The demonstrated ROI is a result of the following combination of items:



"Gentlemen, we have run out of money. Now we must think."

-Winston Churchill

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