



Indiana Interoperable Communications Conference
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The Future of Data Interoperability is Now

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Discussion Topics



- Leveraging Indiana's Success in Interoperable Communications
- The Move From Analog to Digital Networks
- Data Interoperability/Information Sharing Concept
- Business Needs for Integrating Public Safety & Justice Agencies
- What's Going On in the World of Information Sharing
- Indiana's Data Interoperability Future

Indiana's Successful Statewide Network



- **Project Hoosier SAFE-T**



- » Revolutionize Indiana public safety communications by building an interoperable statewide network.
- » Deliver a vital public safety need for the least possible cost and maximum local involvement.
- » Coordinate local, state, and federal public safety resources, tear down agency and geographical boundaries, and foster cooperation between Police, Fire, EMS, and other Hoosier first responder and public safety agencies.

Indiana's Successful Statewide Network



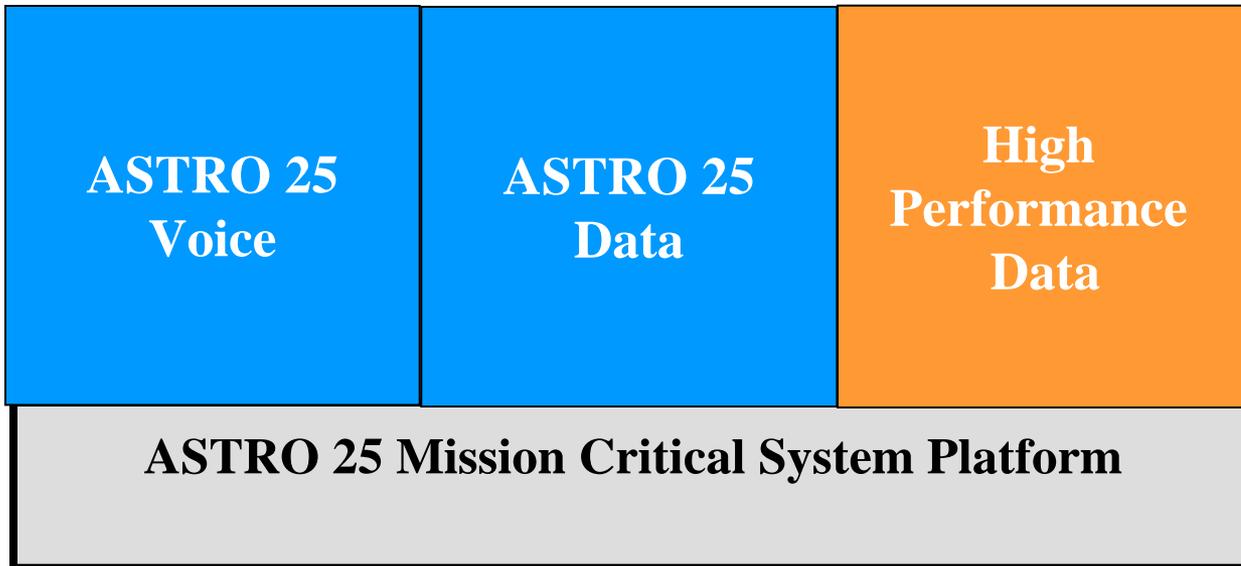
- **Project Hoosier SAFE-T**



- **SAFE-T By The Numbers**

- » Project Hoosier SAFE-T System Users (12/01/07)
- » 40,000 Voice System Users
- » 700 Mobile Data System Users
- » 131 sites
- » Project Hoosier SAFE-T Users By Agency Type
- » 17 State Agencies
- » 64 County Sheriff's Offices
- » 290 local law enforcement agencies
- » 92 County EMA agencies
- » 52 County EMS Services
- » 399 local fire departments/services
- » 3 Federal Agencies
- » 21 School Districts
- » 68 Hospitals
- » 29 Universities

The Future for Wireless Networks



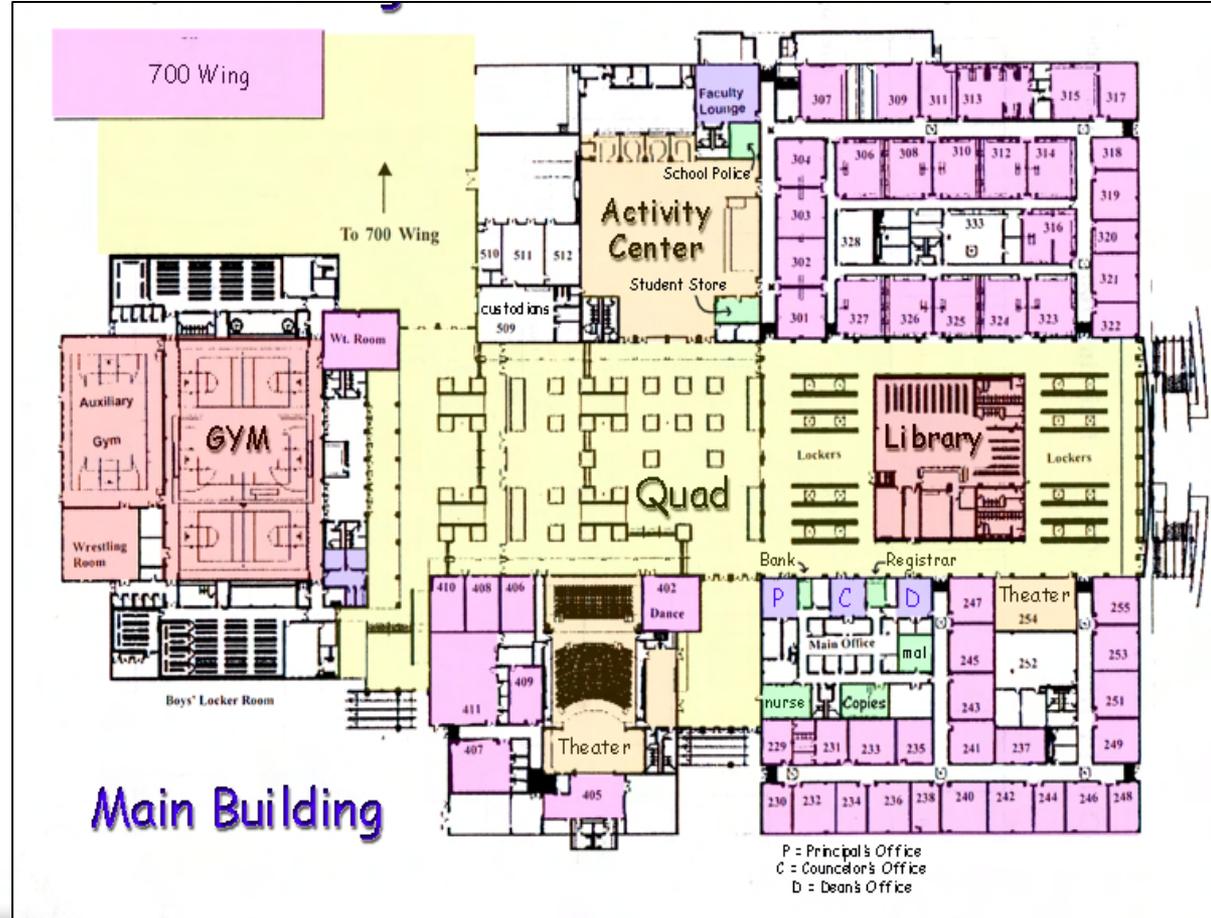
The Future of Wireless Networks



Same Applications as Integrated Data

Plus

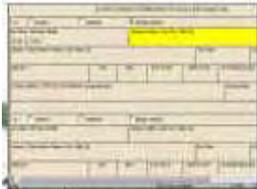
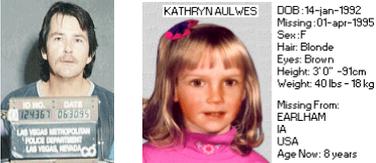
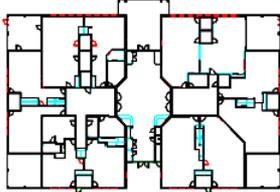
- » Graphics
- » Building Maps
- » Internet / Intranet
- » Enhanced AVL
 - » More Users
 - » Faster Updates
- » Mug Shots
- » e-mail



The Future of Wireless Networks



High Performance Data Applications

<h3>Facial Recognition</h3> <ul style="list-style-type: none"> Facilitates Capture and Conviction 	<h3>Report Writing</h3> <ul style="list-style-type: none"> Rapid Info Sharing Increased Accuracy 	<h3>Surveillance</h3> <ul style="list-style-type: none"> Control of sensor networks 	<h3>Still-Image Sharing</h3> <ul style="list-style-type: none"> Fast Incident Response Time
			
<h3>Fingerprint</h3> <ul style="list-style-type: none"> Positive Identification 	<h3>AMBER Alert BOLO*</h3> <ul style="list-style-type: none"> Fast Identification and Capture / Recovery 	<h3>Intranet Access</h3> <ul style="list-style-type: none"> Visual Aids for Responders Increased Street Time 	<h3>And More</h3> <ul style="list-style-type: none"> Validated Applications
	 <p>* "Be On the Lookout"</p>	 <ul style="list-style-type: none"> Daily Briefings Training Tip Sheets Policy Manuals Ordinances 	<p>Through Motorola's Applications Validation Lab</p>

What is Data Interoperability?

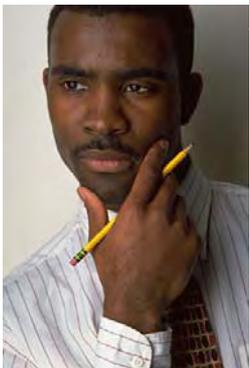


- **Enabling specialized legacy systems to work together as a single enterprise**
 - » **Sharing information to gain efficiencies**
 - » Minimizes re-entry
 - » Increases timeliness and accuracy of information
 - » Increases access and correlation
- **Information sharing can make an entire enterprise more efficient**
 - » It's like enabling people who speak different languages, with different customs and cultures to work together more effectively

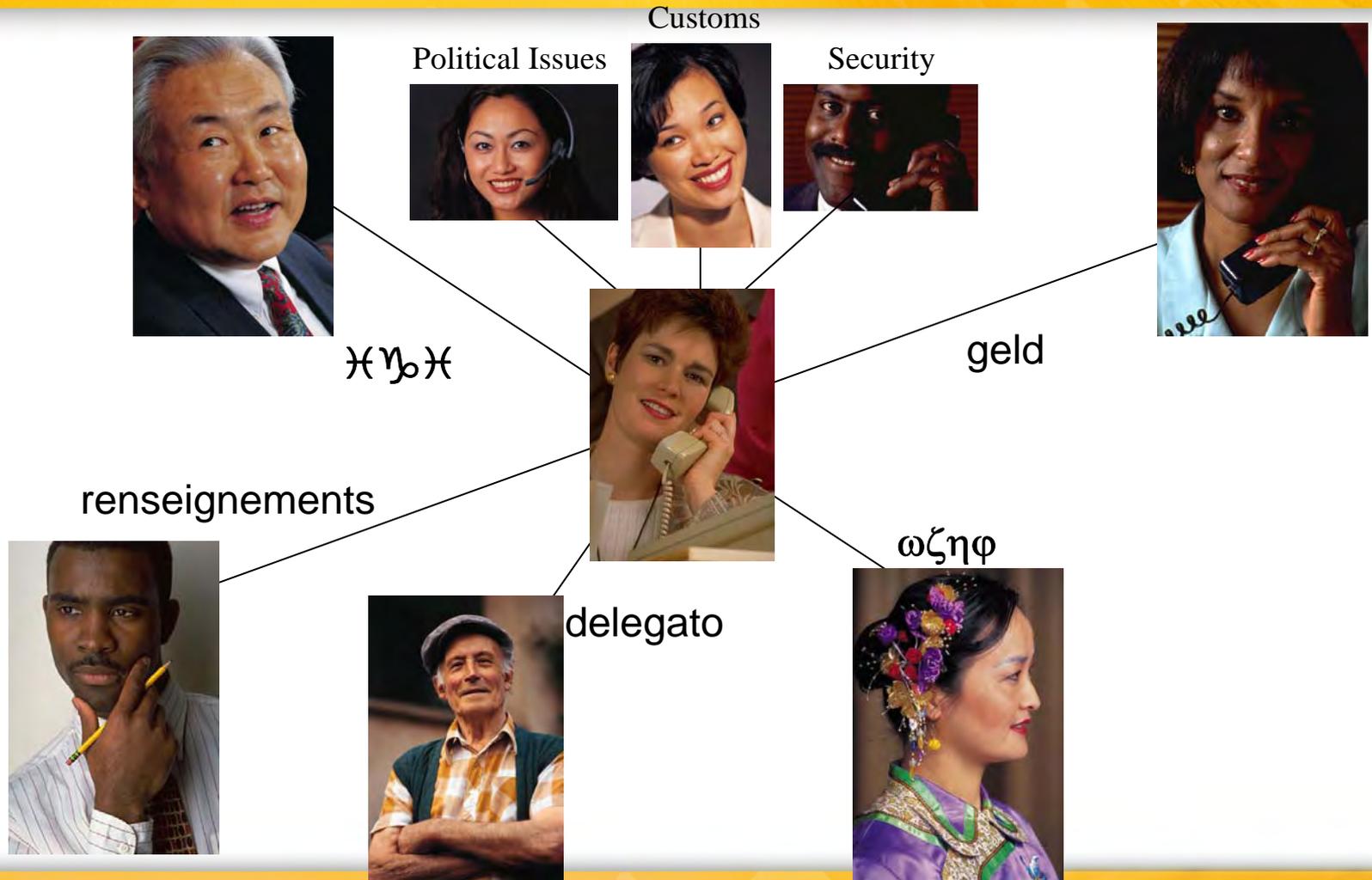
This becomes a very complex network with lots of possibilities for breakdowns and miscommunications



This simplifies the network but the translator becomes inefficient when he/she must ensure cultural and native language unique concerns are addressed



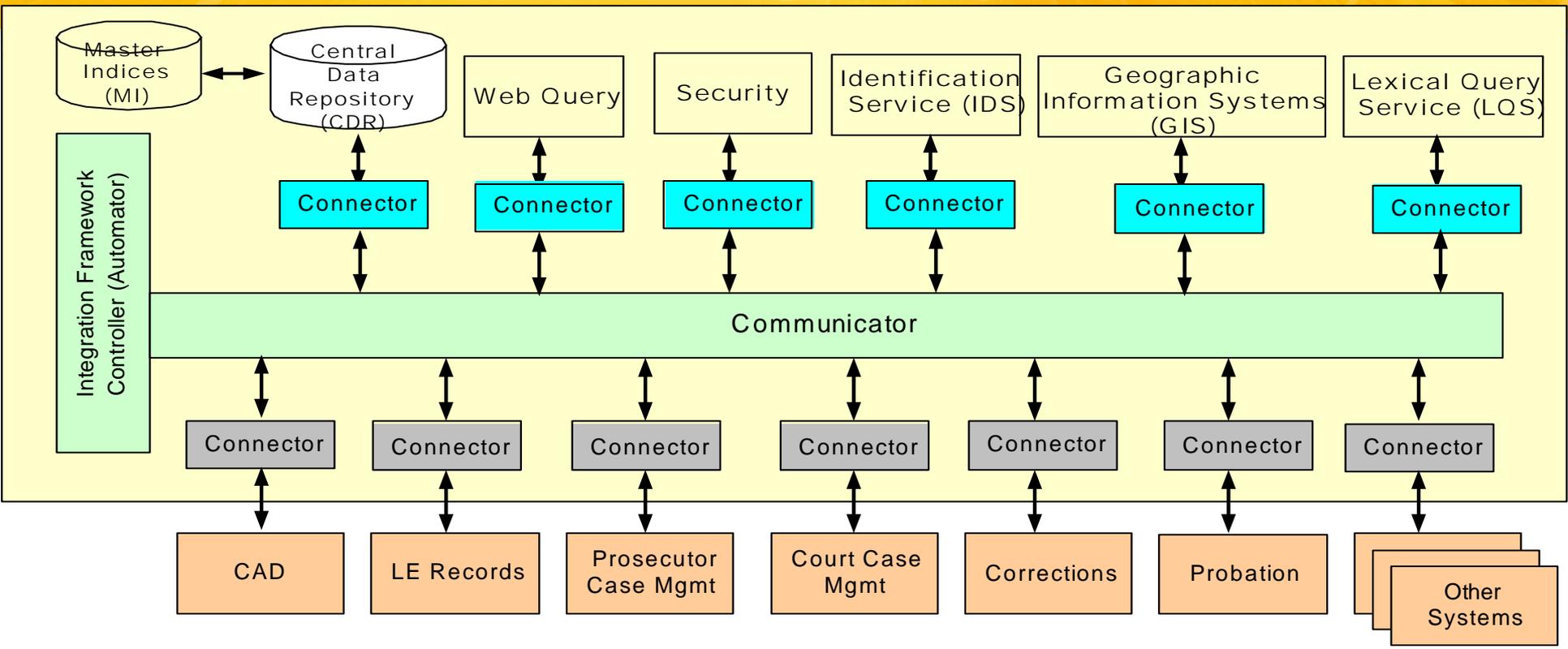
Leverage is gained from the Service Experts, but Native Language and lack of process limits Communications



Integrated Solution with a Common Language, Shared Services, and Process Management enables Efficient & Effective Communications

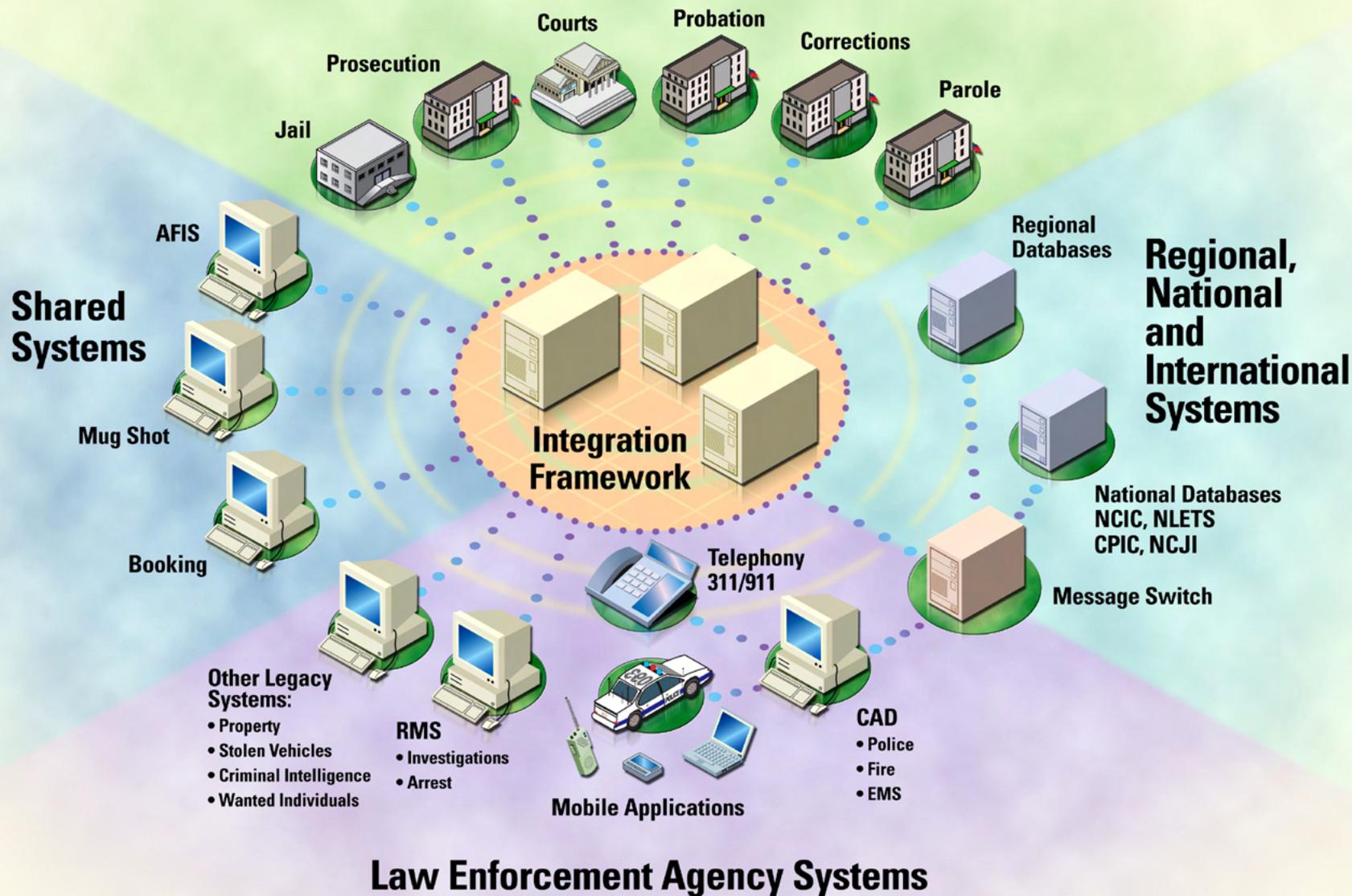


Multiple Systems - One "Information Sharing Architecture"

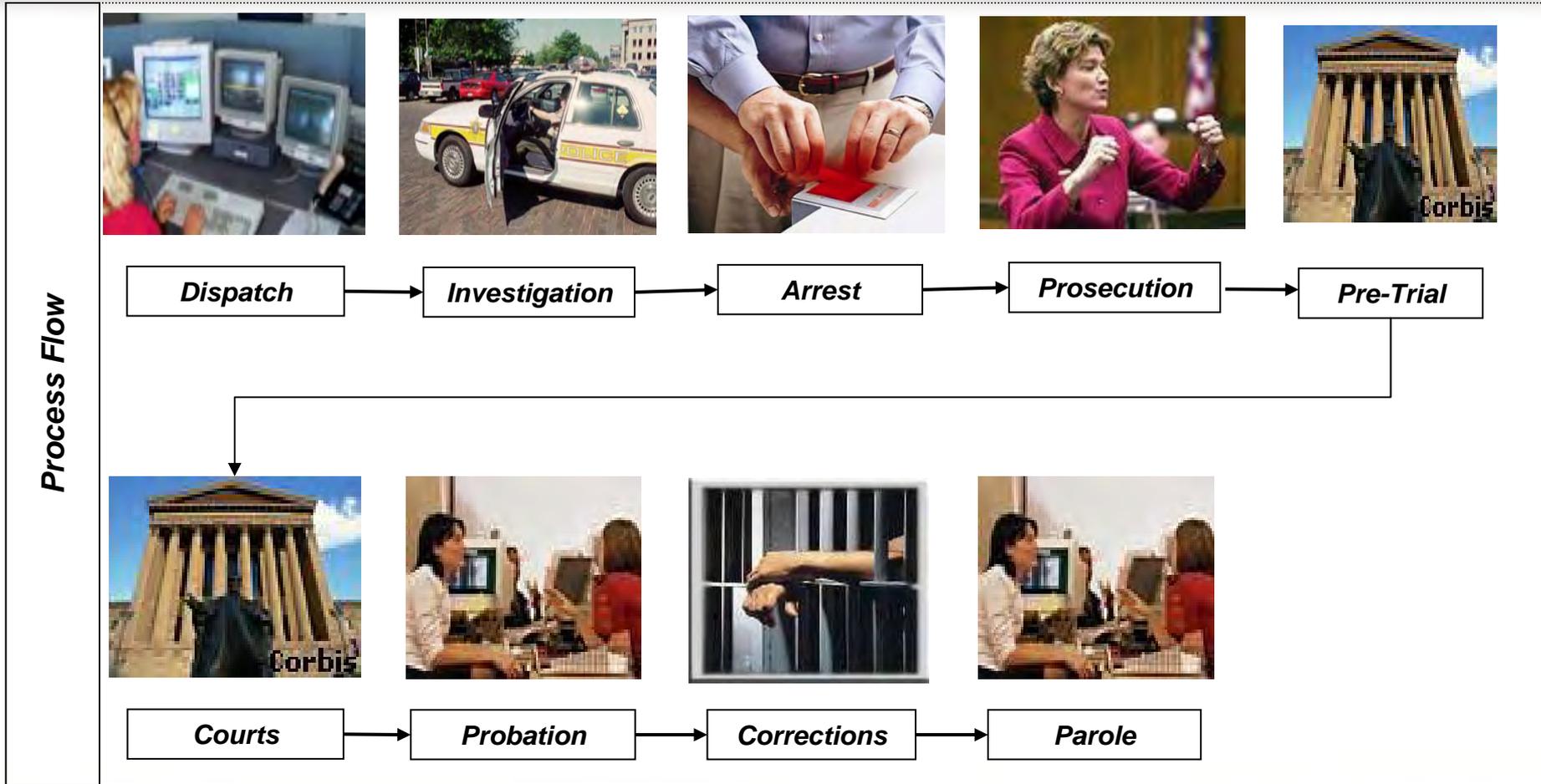


Note:
 External connector
 Internal connector

Justice Agency Systems



Public Safety & Justice Data Interoperability Business Need



National Information Sharing Organizations



Leaders

- » **International Association of Chiefs of Police (IACP) Law Enforcement Information Technology Standards Council (LEITSC) (www.iacp.org)**

- » Represents the nation's Chief's of Police in developing standards for software applications and information sharing



- » **Department of Justice (DOJ) Global (it.ojp.gov/global)**

- » Global is a group comprised of practitioners from across the country



**United States
Department of Justice**

National Information Sharing Organizations



Leaders

» Integrated Justice Information Systems (IJIS) Institute (www.ijis.org)

- » Partner with DOJ Bureau of Justice Assistance
- » Brings industry partner expertise to help practitioners plan and implement information sharing



» SEARCH (The National Consortium for Justice Information and Statistics) (www.search.org)

- » Provides best practices for practitioners



National Models, Standards & Programs



- **Information Sharing Process**
 - » Justice Information Exchange Model (JIEM)
- **Data**
 - » Messaging Models
 - » Global Justice XML Data Model (GJXDM)
 - » National Information Exchange Model (NIEM)
 - » Messaging Exchanges
 - » Information Exchange Package Document (IEPD)
- **Programs**
 - » Next Generation 9-1-1
 - » National Data Exchange (N-DEx)
 - » Fusion Centers
 - » Justice Reference Architecture (JRA)

National Models, Standards & Programs



- **Information Sharing Process**

- » Justice Information Exchange Model (JIEM)

- » User centered requirements gathering
- » Gathers dimensions of exchanges between agencies
- » Levels playing field from consultant to developer
- » Bottom Line – More easily understood way to define the exchange of data between systems. Bridges the comprehension divide between users, designers and developers.

National Models, Standards & Programs



- **Data**
 - » **Messaging Models**
 - » Provides a common way to refer to data (terminology and data relationships) between systems regardless of how each defines and stores data
 - » **Evolution**
 - » Data Dictionary (GJXDD)
 - » Data Models (GJXDM, NIEM & LEXS)
 - » Model Implementation Schema's (IEPD)
 - » **Bottom Line – Models can make it easier, less risky, less costly, using less time to share information between disparate systems**

National Models, Standards & Programs



- **Programs**

- » Next Generation 9-1-1

- » Federal Program – Department of Transportation – RITA/ITS
- » Goal - Enable text, data, images and video to be transmitted to PSAP's and then to CAD's. Will provide more sophisticated communication from public and better enable public safety response to incidents.
 - » Evolve to internet (IP) based networks
 - » Communicate with personal and other devices
 - » Automated crash notification and health alert monitors
 - » Alerts to public
- » Bottom Line – Technology and information revolution better enabling first preventers to respond to events and for the public to communicate more effectively

National Models, Standards & Programs

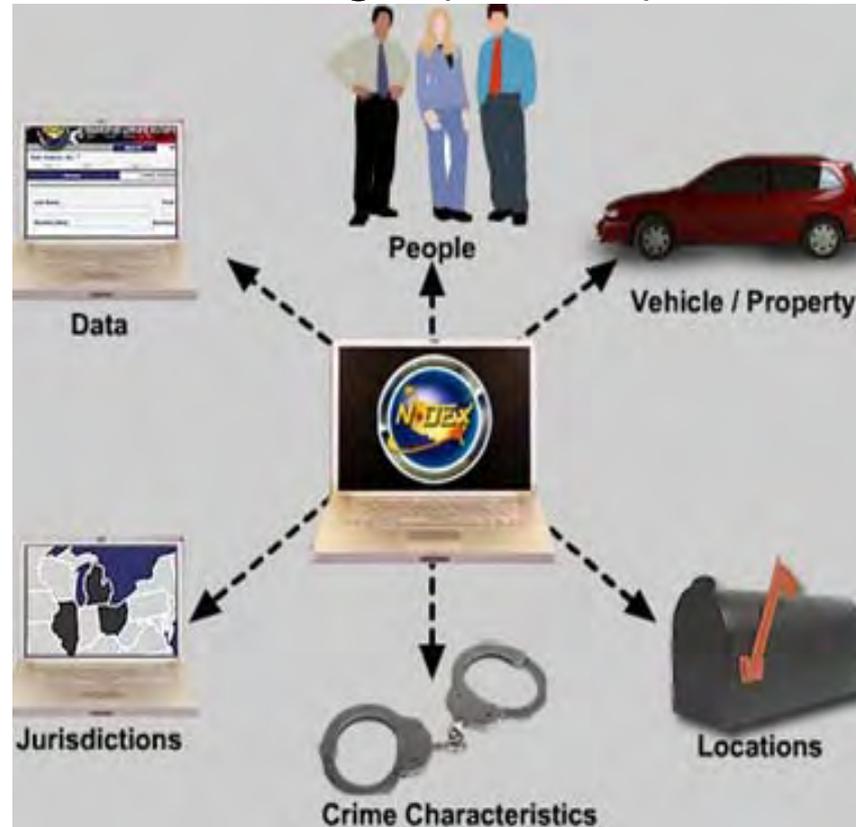


- **Programs**
 - » National Data Exchange (N-DEx)
 - » FBI program
 - » Goal – Provide better, more comprehensive and quicker access to information from the public safety and justice communities and provide tools to better correlate and make sense of this information across the country
 - » Law enforcement records initially
 - » Not Intel
 - » Expanding to corrections, probation, parole in future
 - » Bottom Line – N-DEx has the potential to make previously unavailable or un-actionable information available to those who need it in a timely fashion enabling the interdiction of more criminal & terrorist activity.

National Models, Standards & Programs



» National Data Exchange (N-DEx)



Courtesy of the FBI

National Models, Standards & Programs



- **Programs**
 - » Fusion Centers
 - » DOJ and DHS Program in concert with State/Local/Tribal
 - » Evolution of Intel Centers at State/Local
 - » Nineteen domain partners
 - » All Crimes-All Hazards-Terrorism Prevention
 - » Fifty-six exist to date
 - » Goal - Leverage the capabilities, resources, and information of the LE, Public Safety and Private Sectors to provide more comprehensive access to actionable information enabling a more effective, proactive approach to preventing and responding to crime and terrorism activity
 - » Bottom Line – Fusion Centers have the potential to effectively cross jurisdictional, domain and agency boundaries to keep the nation safer

National Models, Standards & Programs



- **Programs**
 - » Justice Reference Architecture (JRA)
 - » Global program
 - » Goal – Provide a model or reference architecture based upon the Service Oriented Architecture (SOA) and create a best practice for the justice and public safety community
 - » Bottom Line – The JRA will help consolidate the various SOA typologies into a common architecture reference model that will better enable the private and public sectors to speak from a common terminology relative to enterprise architecture

The Future



- **Indiana's Past Voice Success Can Propel it into its Data Future**
 - » **SAFE-T**
 - » Developed a structured, collaborative working environment across all levels of government, agencies and the State
 - » **INData**
 - » Can use that structure and great working relationship between Indiana's public safety and justice partners to plan and implement a comprehensive statewide information program to help all of the Indian's Public Safety and Justice community be safer and provide better services to the communities in which they work.

Questions?

