

Implementing SOA and GJXDM at Maricopa County

GJXDM Users
Conference
June 8-10, 2005



Maricopa County, AZ

“The Valley of the Sun”



- Population -- over 3 million
- Grew by 50% in the 1990's
- 3rd largest county in the U.S.
- Fastest growing large county in the U.S.
- 60% of the state's population live in Maricopa County -- Phoenix, Scottsdale, Tempe, Mesa, etc.



Challenges

- *Five Justice Agencies – classic local politics!*
 - ***Sheriff; County Attorney; Courts; Clerk; Public Defender***
- *Agencies have an internal business focus*
- *Conflicting goals and priorities*
- *Competing budgets*
- *Diverse IT infrastructures*
- *Many ad hoc interfaces*
- *Replicated functions and forms*

Maricopa County Justice IT Infrastructure

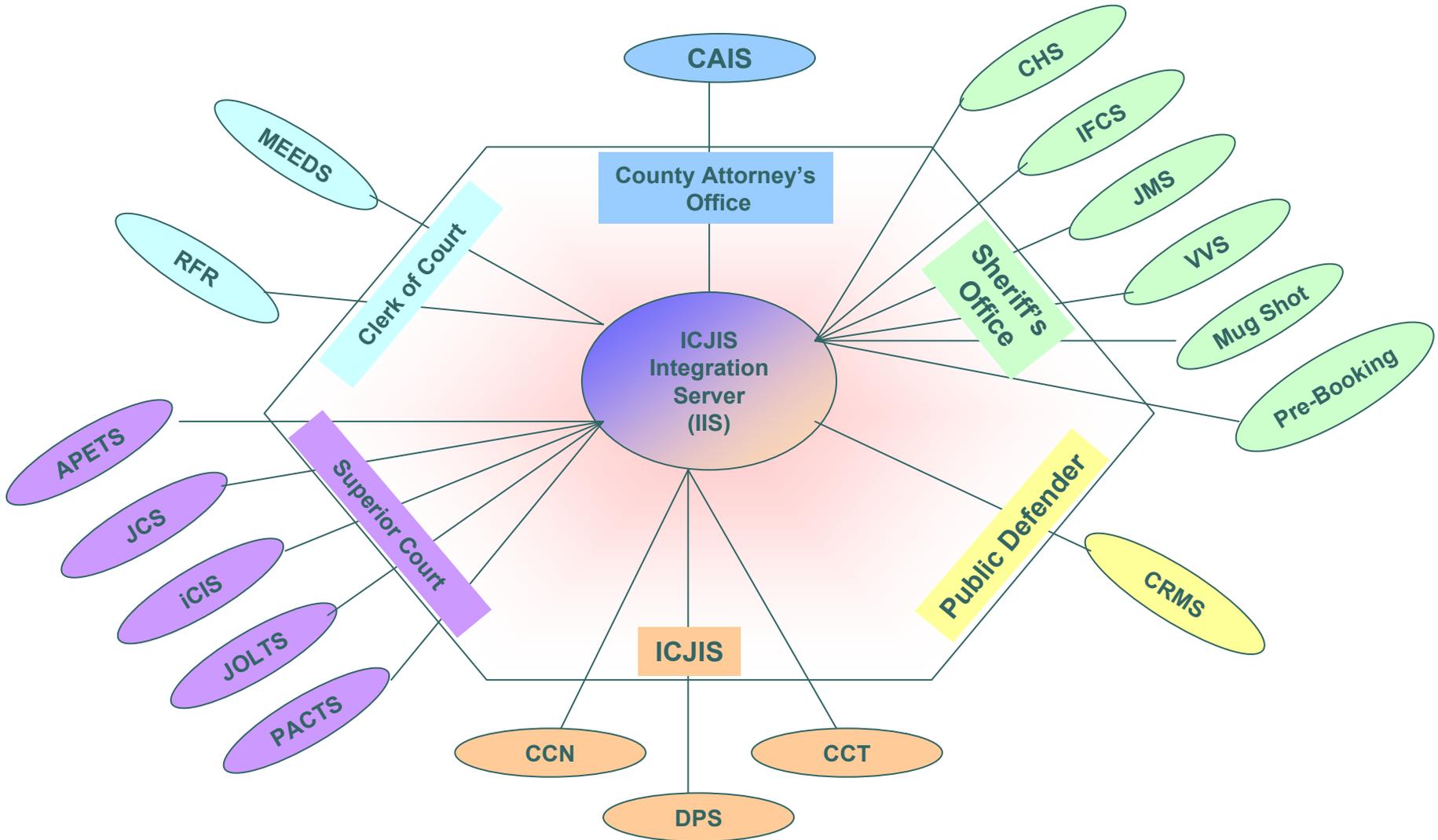
-- *Where We Started* --



Host/Server Hardware Platforms	Operating Systems	Application Development Languages	Application Architectures	Database	Presentation Layer
Bull Mainframe Compaq/DEC/VAX Compaq/DEC/Alpha Sun HP-Compaq RS/6000 AS/400 HP-Compaq Intel based	GCOS8 VMS OpenVMS Sun Solaris HP-UX AIX OS/400 Win NT NetWare	COBOL Datatrieve PacBase Powerbuilder Delphi Visual Basic ASP VMS Basic C Informix Fourgen	Terminal to Host Microsoft DNA Client/server	RMS/ISAM IDS-II Informix Sybase SQL Server DB2 Access Paradox	Terminal emulation Terminal Client/Server Browser

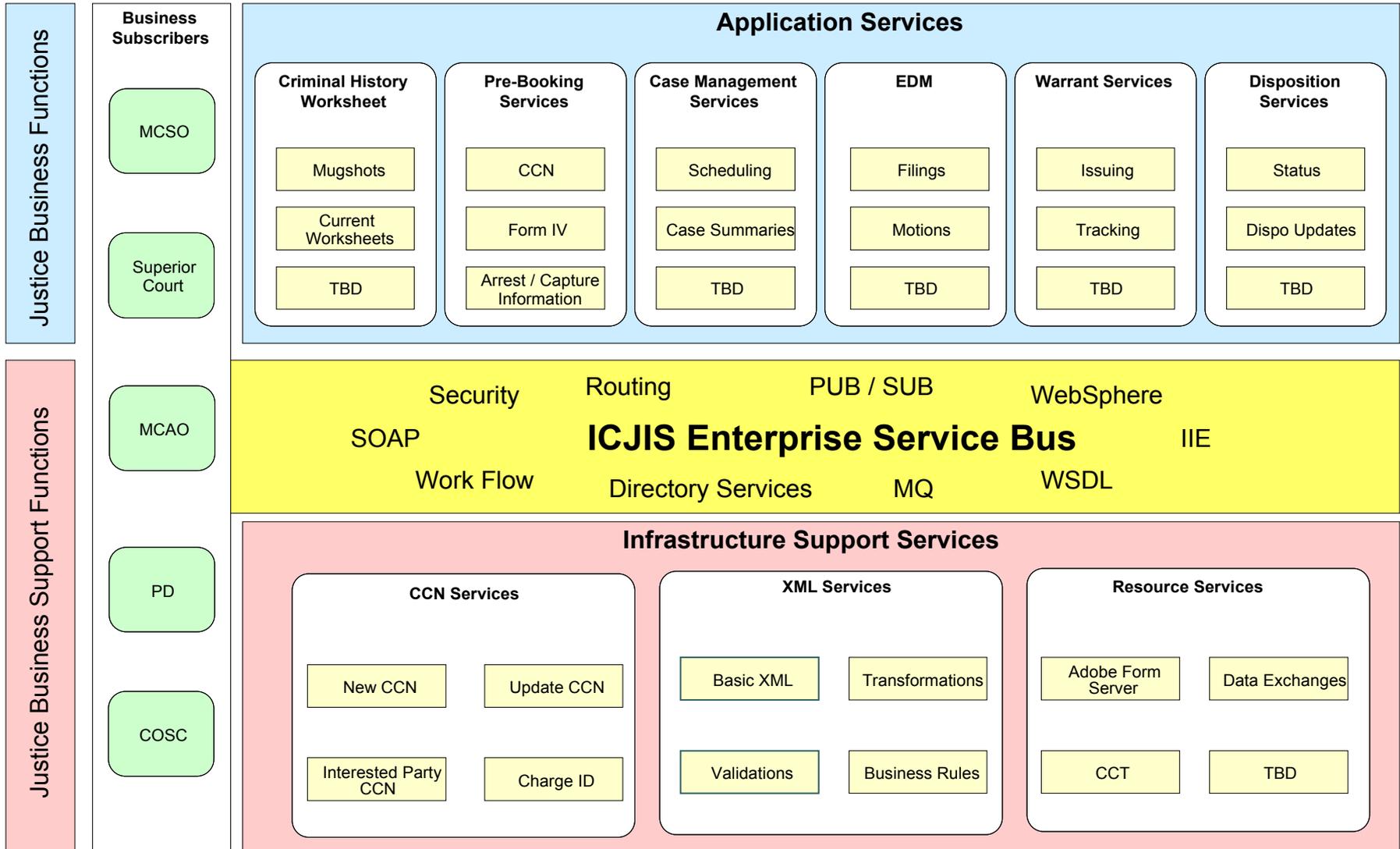
Electronic Exchange Infrastructure

-- Our Middleware Era --



ICJIS Service Oriented Architecture Roadmap

-- Our Target Domain --



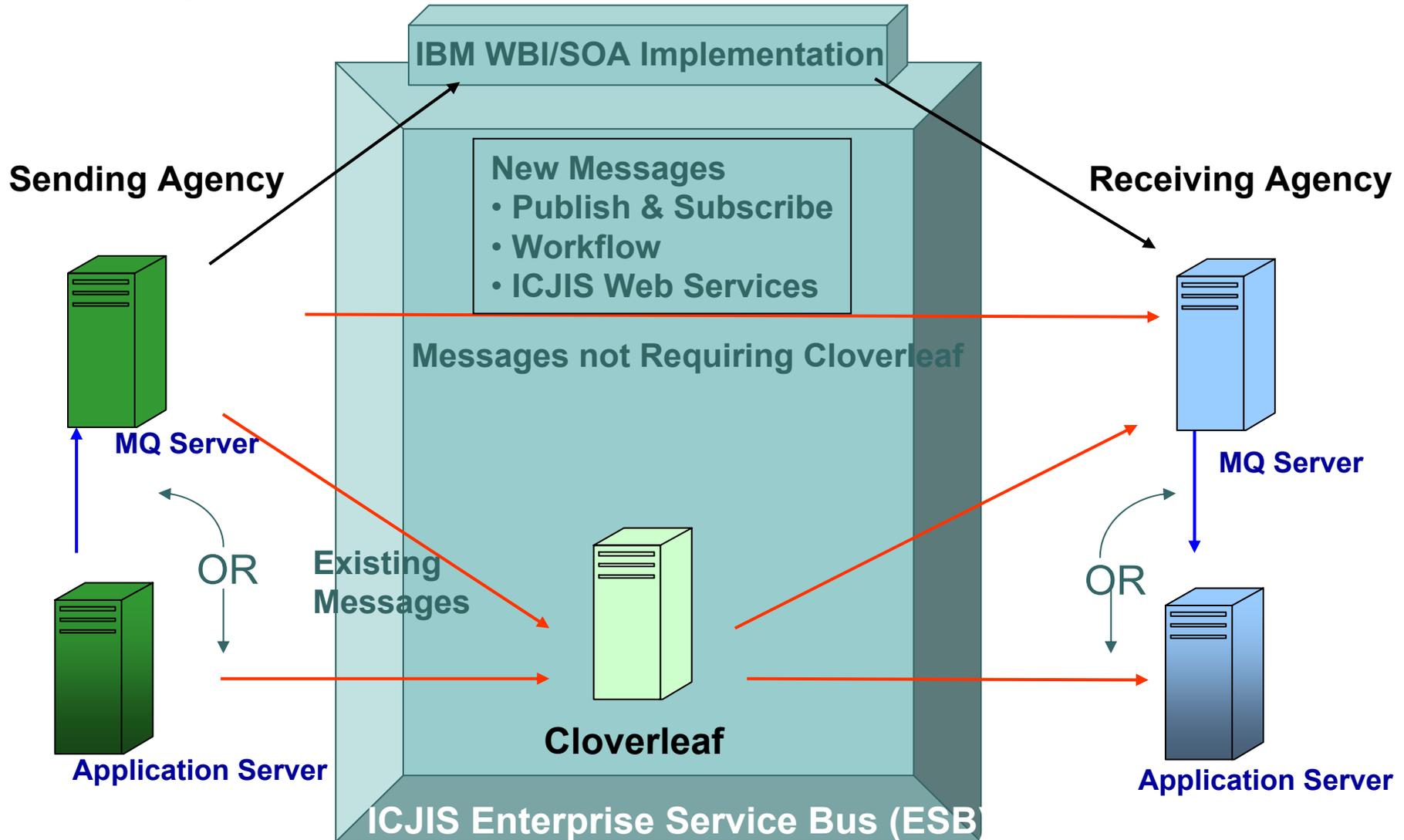


SOA's Benefits

- **Reduced integration expense** with loosely coupled interfaces.
 - E.g., asynchronous vs. synchronous
- **Increased asset reuse** by creating new business processes and composite applications from existing services.
 - E.g., Form IV; Adobe
- **Increased business agility** by delegating some of the business process flows to parts of the organizations.
 - E.g., Consolidated EDM support
- **Reduced business risk and exposure** by providing better visibility into business operations.
 - E.g., statute changes; inmate status

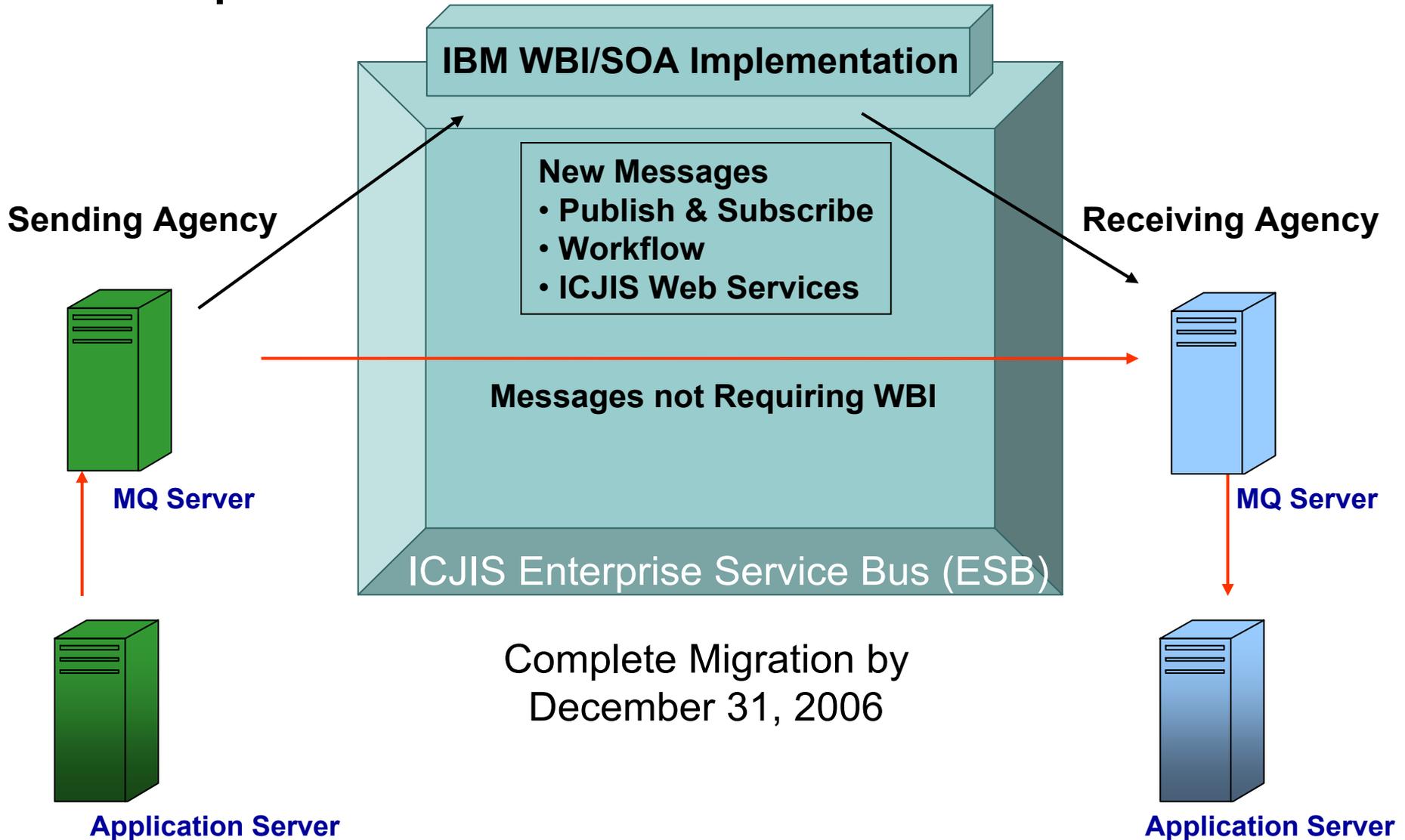


SOA Migration Strategy





SOA Migration Strategy

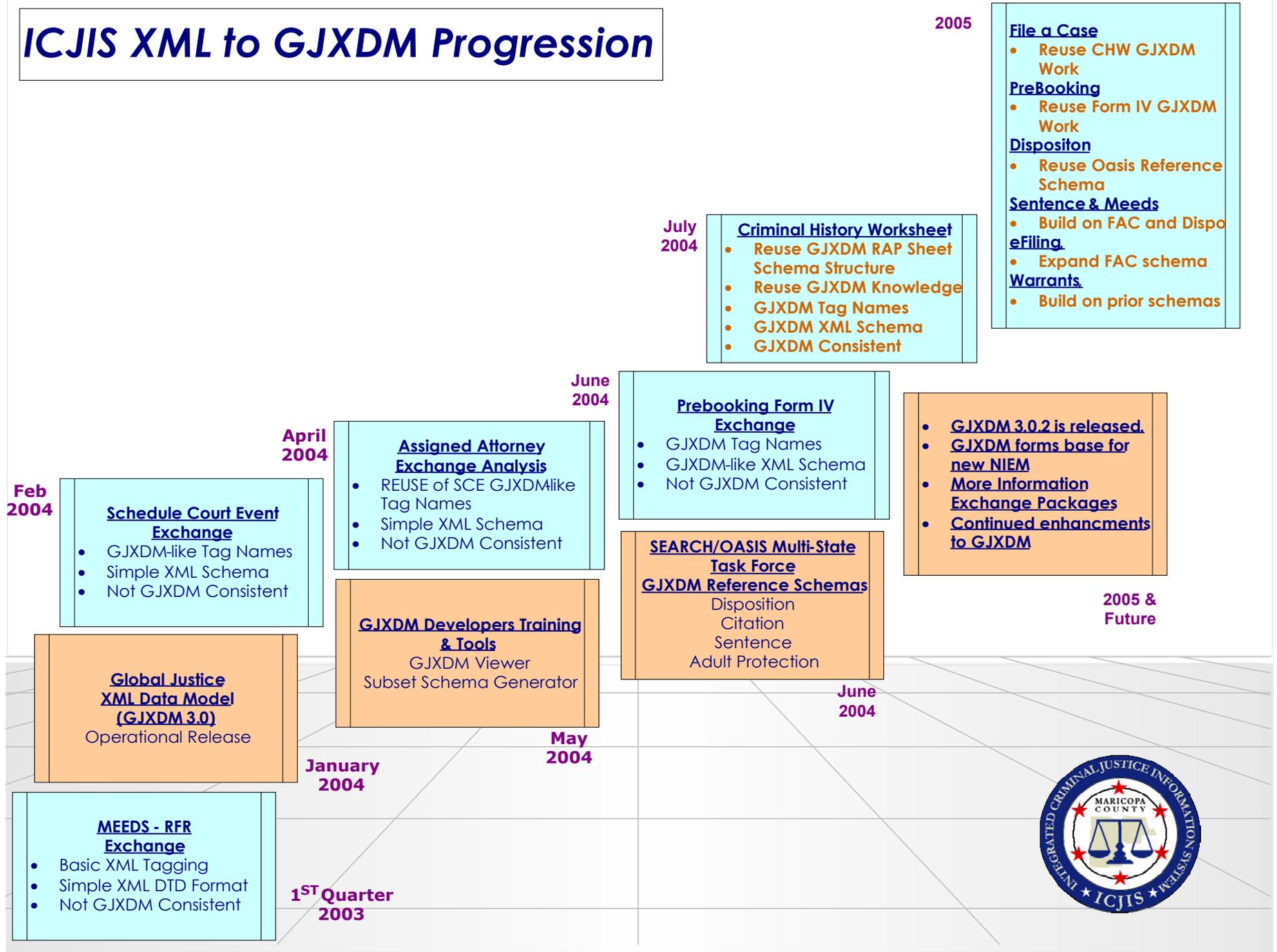


Maricopa County's Path to GJXDM



- Common Data Dictionary
- XML & GJXDM Education
- Set goal of incorporating GJXDM without impacting project deadlines.
- Started using GJXDM-like tags until we understood how to build GJXDM conformant schemas.
- Decided to follow the GJXDM 'rules' and 'schema architecture.'
- Building smaller, reusable GJXDM based schemas (i.e. Case, Charge, CaseParticipant, etc)

ICJIS XML to GJXDM Progression



GJXDM-Enabled Projects and Value



On-Line

- Assign Attorney – timely attorney assignment information among Justice Agencies
- Schedule Court Event – real-time case and court calendar information.
- Form IV – Probable cause and release statement for Initial Appearance Court
- File A Case – timely notification of cases filed within the Courts.

Under Development

- Criminal History Worksheet – dynamic retrieval and formatting of a subject's criminal history record.
- Warrants – automate the creation, issuance and tracking of bench and arrest warrants.
- E-Dispo – on-line disposition reporting between the State, County Attorney and Clerk of the Court.
- Sentencing & Disposition – provide timely and accurate disposition and sentencing information to Arizona State disposition repository.



Lessons We Are Learning

- *GJXDM – just get started!*
- *GJXDM – follow the rules!*
- *GJXDM – strive for interoperability and reuse!*
- *Avoid multiple ‘defendants’ in a single schema. This leads to ‘relationship’ problems.*
- *Track how you map data to the GJXDM. There are options. Be consistent as you build new schemas.*
- *Leverage the GJXDM Listserv. Ask for samples, suggestions.*
- *Visit www.it.ojp.gov regularly for new information.*

County / Statewide Arrest and Booking Systems



Project Goals

- County and Statewide consistency for arrest information capturing
- Reduced paperwork and administrative requirements in the arrest process
- Officer friendly user interface with extensive help
- Wide-ranging data validation to deliver quality information
- Single point of entry with integration to
 - **Jails**
 - **Courts**
 - **Prosecutors**
 - **State Criminal History**
- GJXDM enabled
- Web based entry supporting remote system access
- Arrest Reports and Form IV Reports electronically generated and distributed



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