# Justice Tracking Information System (JUSTIS) Roadmap Executive Briefing

**City and County of San Francisco** 

February 28, 2019



Future State Vision
Roadmap and Initiatives
Investment and Staffing Estimates
Implementation Plan
Appendix

#### Major Activities and Outputs

Gartner's approach for developing the JUSTIS 5-Year Roadmap began with establishment of the baseline Current State Assessment. The future state vision was then built in collaboration with key agency and program stakeholders considering consensus needs, technology trends and Integrated Justice Information Systems (IJIS) leading practices.

Working with agency stakeholders and JUSTIS leadership, Gartner formulated initiatives designed to realize the Future State Vision and used prioritization and dependencies to create the five year Roadmap.



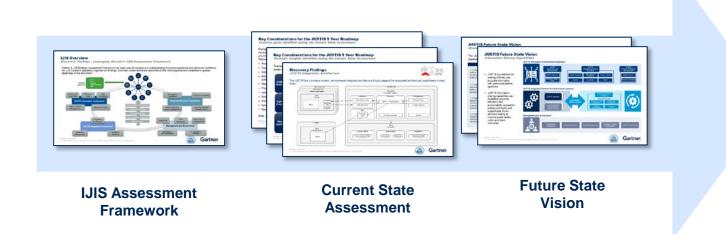
Final Stage

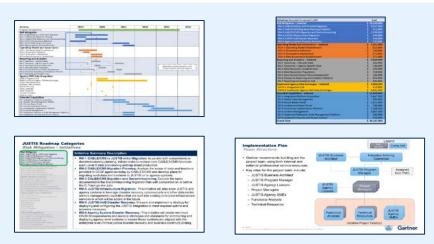




#### Roadmap Development Process

- ✓ **Defines the initiatives, schedule, costs, and recommended implementation plan** that will deliver the JUSTIS 5-Year Roadmap to enhance JUSTIS systems and provide 21<sup>st</sup> century capabilities to the Juvenile and Criminal Justice Agencies to help them achieve their missions and better serve the community.
- ✓ Is consensus driven and based on input from executives, operational and technical stakeholders across CCSF.
- ✓ Considered perspectives on best practices, technology trends and market capabilities.
- ✓ Defines accountability among leadership and delivery groups with transparent links between business objectives and technology priorities.





JUSTIS 5 Year Roadmap
Initiatives, Schedule, Costs and Implementation Plan



**Future State Vision** 

Schedule and Initiatives
Investment and Staffing Estimates
Implementation Plan
Appendix

### **JUSTIS Future State Vision**

#### Key Challenges

JUSTIS agencies within San Francisco face multiple challenges which are not fully addressed by the current JUSTIS platform or the multiple stakeholder agency core system replacement projects currently underway. Examples include:

- Technical obsolescence and lack of extensibility of current CABLE/CMS and agency systems
- Superior Court transition to a new case management system
- Lack of system capabilities to prevent operational lapses with the potential for public safety issues or liability exposure
- Inability to evaluate the effectiveness of programs (social, criminal justice, others) for which the City invests significant sums
- Inability to track complex crimes where multiple incidents are associated with a single event
- Barriers to track and analyze criminal justice outcomes by race, ethnicity or crime type; inability to track recidivism across
  arrest, charging, trial, incarceration and reentry
- Inability to identify frequent criminal offenders so as to focus resources on the offenders most responsible for serious criminal offenses and quality of life issues
- Inability to create a holistic view of an individual's interaction with public safety partners and to correlate with agency interactions focused on public health, mental health and homelessness
- Inability to track the consistency and effectiveness of charging decisions against case dispositions and sentencing outcomes

The **Future State Vision** describes transformed and new JUSTIS capabilities that will enable CCSF to apply data driven processes to overcome challenges and constraints present today



# **Objectives**

### **JUSTIS Future State Vision**

#### Vision Statement and Drivers

JUSTIS will provide a platform for sharing of timely and accurate information with justice and partner agencies. JUSTIS information sharing capabilities will leverage modern technology to: improve the quality and consistency of criminal and juvenile justice data, enable the sharing of data between JUSTIS agencies in real-time whenever applicable, deploy robust reporting capabilities regarding the complete life cycle of the local criminal justice<sup>1</sup> system, and drive improvements in public safety outcomes through transparency and inter-agency collaboration.



**Data driven decisions** and processes with direct and measurable impact on public safety and quality of life imperatives



Improve and expand **collaboration** between partner agencies and community based organizations to improve outcomes and reduce recidivism



Enhanced levels of **transparency and accountability** to all facets of the criminal and juvenile justice processes including **equitable treatment**, **privacy**, **and required confidentiality** for all impacted individuals





Improved **process efficiencies** enabling and reduction of paper based processes thereby enabling staff to focus on high impact interaction with clients and the public



Enablement of CCSF to fully realize the benefits of current and future technology innovations in a fiscally responsible and cost-effective manner.



A resilient, secure and reliable foundation for CCSF data sharing

**Justice Lifecycle Data Consistency**: Enable the understanding of criminal and juvenile justice information across the enterprise

**Reporting**: Modernize, improve or establish (as required) JUSTIS analytics & reporting

**CABLE/CMS**: Define and develop an approach to fully replace existing CABLE/CMS functionality

**Platform Optimization**: Expand usage of the integration platform standards to align with data sharing business needs

**Operating Model**: Provide organizational, resource and change management structures to ensure continuous JUSTIS service

**Governance**: Refresh and establish governance structures to manage inter-agency decisions and responsibilities

1. Criminal justice is in inclusive of both adult and juvenile justice systems and agencies.



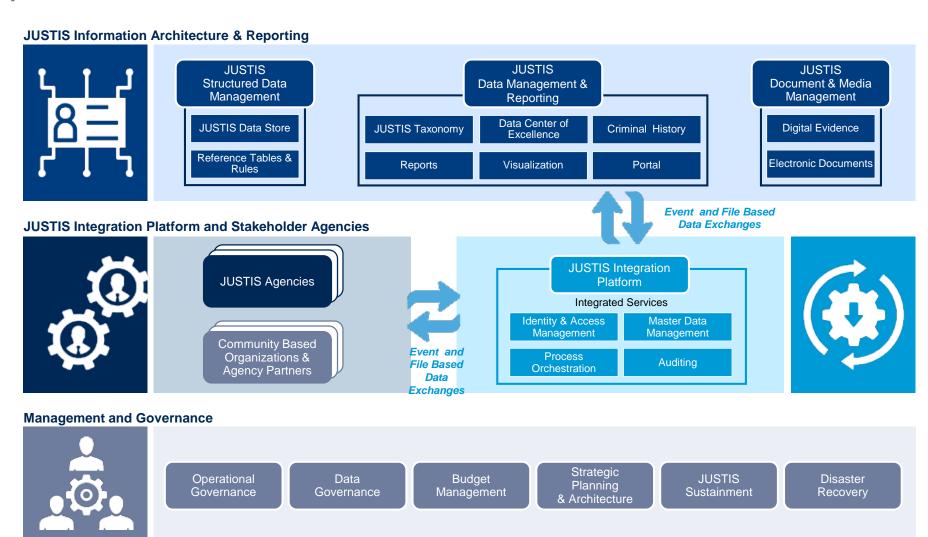


### **JUSTIS Future State Vision**

### Information Sharing Capabilities

The JUSTIS Future State Vision promotes information sharing by providing the following capabilities:

- Shared definitions. standards, data stores and reporting access
- Common infrastructure for resiliency and integration capabilities serving JUSTIS and partner stakeholders
- Foundational management structures to govern and oversee architectural and operational decisions for current and future JUSTIS needs





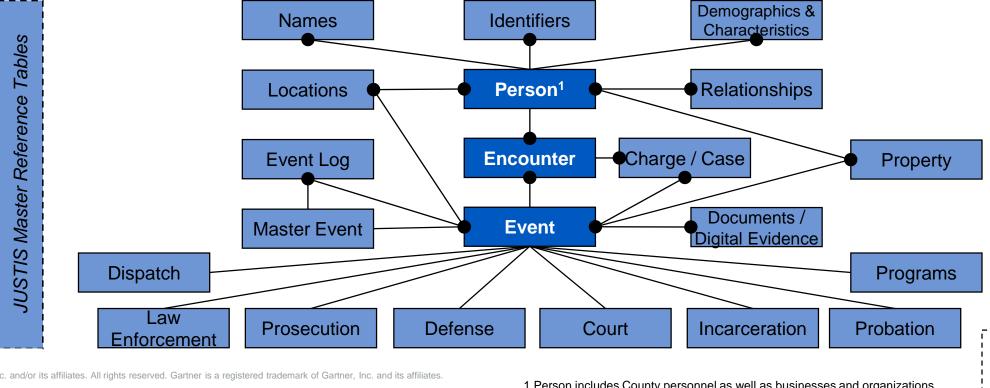
JUSTIS Lifecycle Data Consistency

**JUSTIS** Information **Architecture** 

Justice Lifecycle Data Consistency – Establish and sustain a common taxonomy, shared reference data structures and common identifiers to facilitate consistent representation and understanding of criminal justice information across the enterprise

JUSTIS will provide a common vocabulary (i.e., taxonomy) for CCSF criminal justice information across all stakeholder agencies. The JUSTIS Future State Vision also includes a Conceptual Data Model for managing information that will be retained centrally and be made available for JUSTIS Reporting Services. JUSTIS Data Governance will govern the long term evolution of the model and compliance with standards (e.g.,

NIBRS).



Cardinality

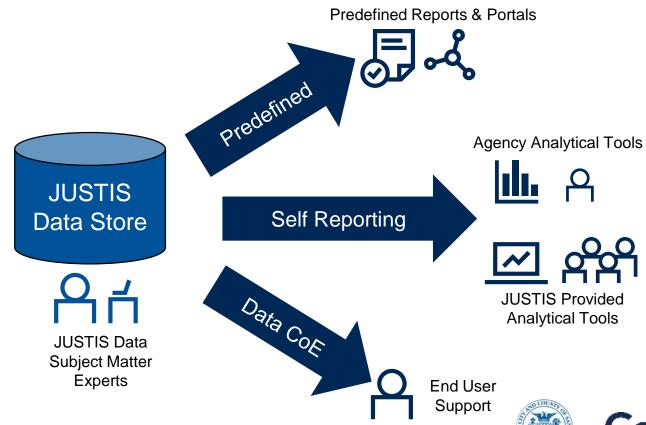
many

Reporting

Integrated
Business
Capabilities

<u>Reporting</u>– Modernize, improve or establish (as required) JUSTIS analytics & reporting to derive insights, data driven decisions and improve transparency, efficiency and accountability across the stakeholder agencies.

- JUSTIS reporting services will provide reporting and analytics on inter-agency data accessible in the JUSTIS data store
- Specifically JUSTIS would provide the following reporting methods and access to agency stakeholders and CCSF leadership:
  - Predefined JUSTIS Reports
  - Agency Self Reporting
  - Data Center of Excellence (CoE) Consultative Services







CABLE/CMS Replacement

JUSTIS Integration Architecture <u>CABLE/CMS</u> Replacement – Define and develop an approach to fully replace existing CABLE/CMS functionality and provide an extendable platform for future shared functional and data requirements; develop the decommissioning plan and interim solution that assures daily operations for stakeholder agencies are not negatively impacted and stakeholder agency system implementations are not delayed

- The future vision for CABLE/CMS Replacement includes implementation of TR C-Track for court case management
- Replacement of current non-court CABLE/CMS functionality will be provided by a combination of extended capabilities provided by JUSTIS and functions of the other new agency systems
- Upon completion of the transition of non-court CABLE/CMS functionality and implementation of C-Track, CABLE/CMS will be decommissioned
- Contingency plans would be developed for the possibility of CCSF system retrofit activities extending past the C-Track go live date

Develop inventory of functions with corresponding systems that are dependent on CABLE/CMS and require retrofit

Implement CABLE/CMS current shared functionality within agency systems and the JUSTIS integration platform

Deploy Criminal Court C-Track in production

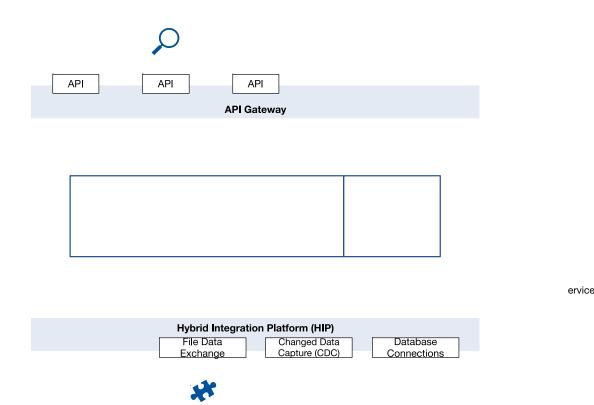
Archive data and decommission CABLE/CMS



Target State Integration Hub Architecture

JUSTIS Integration Architecture

<u>Platform Optimization</u> – Expand usage of the integration platform and support organization to align with data sharing business needs and to leverage current integration technology available in the marketplace including potential replacement of integration infrastructure components



- The Integration Hub architecture is successfully used by large inter-agency justice organizations to facilitate data exchanges and consolidated data access.
- A similar design, the *Digital Integration Hub* is increasingly used by other organizations to enable high-scale API access while minimizing workload and dependency on systems of record, and deliver additional value via analytics.
- The architecture consists of:
  - An API Gateway to interact with agencies, partners and the community. This includes criminal history inquiries.
  - Data stores to support consolidated data access without directly accessing systems of record, metadata management to enable common data understanding and consistent usage and data analytics across broad data sets representing the justice lifecycle.
  - A Hybrid Integration Platform to exchange data with agencies through event-based exchanges and periodic data ingestions of broad data sets outside of exchanges.
- The architecture must also support capabilities to "fill the gap" between the legacy CMS and replacement applications.



Adapted from: Innovation Insight: The Digital Integration Hub Turbocharges Your API Strategy, Massimo Pezzini and Eric Thoo (26 June 2018 - ID G00360082)

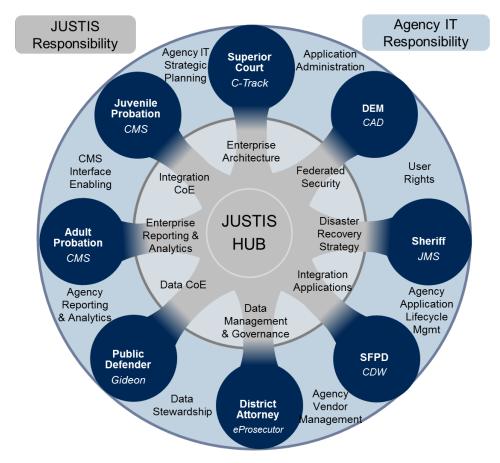
JUSTIS Operating Model

Management and Governance

<u>JUSTIS Operating Model</u> - Provide organizational, resource and change management structures to ensure continuous JUSTIS service levels to all stakeholder agencies; provide an operating model for the JUSTIS Technology Support Team with necessary capacity and access and support

Responsibilities for the JUSTIS Technology Support Team, in addition to the services provided today, will include:

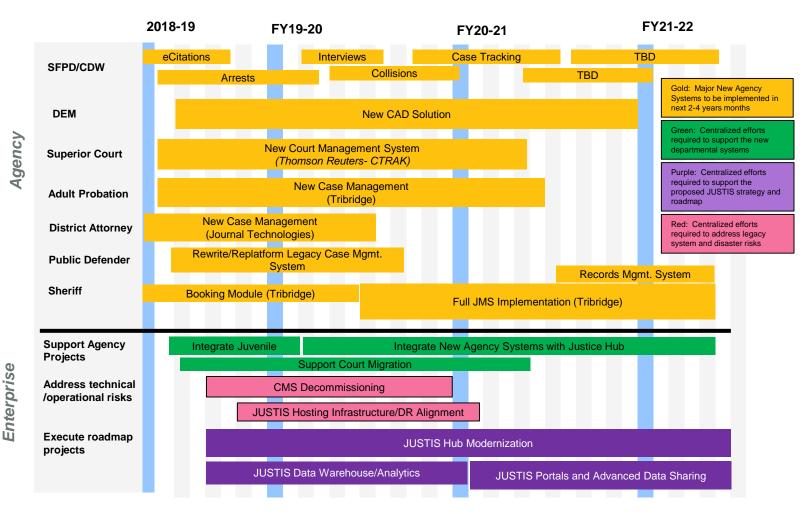
- Establish, sustain and extend the JUSTIS architecture and standards including integrating Juvenile Probation's CMS into the JUSTIS Hub
- Administer and operate the integration platform (i.e., JUSTIS Hub), including monitoring of queues and other operational mechanisms
- Provide an Integration Center of Excellence (CoE) which consults with agency level IT and/or third party vendors when designing interfaces and establishing interface contracts
- Document and configure platform level components for specific interfaces and support testing, including providing test harnesses where appropriate
- Provide a Data Center of Excellence to support JUSTIS reporting and query development
- Common infrastructure for criminal justice applications will be managed consistent with CCSF, state and federal standards and protocols



Note: agency applications shown are representative examples

## The JUSTIS Roadmap needs to consider both Agency Driven and Shared Initiatives

- Nearly every JUSTIS agency is in the midst of replacing their core case management system.
- Each new system will need to be thoughtfully integrated with JUSTIS
- Significant effort will be required to decommission CABLE/CMS
- Infrastructure and DR issues need to be addressed
- The modernized, real-time JUSTIS data exchange and comprehensive enterprise level reporting and data analytics capability must be implemented



Jartner.

Having the right governance over the JUSTIS and the transformation program is foundational and must be addressed at the very beginning of the program

Governance

# Management and Governance

<u>Governance</u> - Refresh and establish governance structures to manage inter-agency decisions and responsibilities pertaining to budget, data, policy, operations, technical planning/execution, security and privacy

The level of governance that is needed is highly dependent on what is actually being governed



No JUSTIS

JUSTIS
Maintenance &
Operations

JUSTIS
System
Transformation
Governance

Coordinated
Justice System
Governance

(D)

Coordinated
Justice
Strategies

(E)

Centralized
Justice IT

No centralized data exchange (pt.to pt. interfaces)

Agency specific data-stores and reporting/data analytics

Data exchange (e.g. hub) operations

Governance

Web applications development & support

Integration of new CMS systems with JUSTIS

CABLE3/CMS decommissioning Infrastructure resiliency and DR

planning

5 Year JUSTIS Transformation Program

- Modern, Real-time
   Data Exchange
- Enterprise Data Warehouse
- Reporting and Analytics
- JUSTIS information portals
- Digital Content Management

Bi-Annual City-wide Criminal Justice IT Strategy & Planning

Bi-annual Criminal Justice Agency level IT Strategy Coordination/ Alignment

Enterprise Architecture for Criminal Justice IT Systems

Major IT Project Oversight and Risk Management Inter-Agency Business and Operational Processes Optimization, Governance and Performance Metrics

Business level (vs. IT) cross-departmental strategic planning

Partially or fully consolidated IT functions for all Justice agencies

Centralized funding and/or staffing of key projects and systems

Governance

### Management and Governance

Governance - Refresh and establish governance structures to manage inter-agency decisions and responsibilities pertaining to budget, data, policy, operations, technical planning/execution, security and privacy

#### Increasing Transparency and Lower Cost



### JUSTIS Maintenance & **Operations** Governance

### JUSTIS System **Transformation** Governance





- **Advantages** Agencies in full
  - Does not require a
- City CIO fully accountable for results &
- Agencies can appeal CIO
- Governance body makes key
- Collective accountability for
- City CIO responsible for program execution & results
- Collective accountability for PS&J-wide IT strategic plans
- Agencies may not fully cooperate with planning &
- Potential to become overly
- Requires pro-active leadership



### Coordinated Justice **Strategies**

Final decision making regarding priorities is vested in the Executive Board.

Collective governance body focused on business processes and outcomes vs. IT.

Same benefits as Option D

Requires pro-active leadership that brings both city-wide perspective and authority to the table

Leadership must have specific PS&J acumen and experience to be credible to Stakeholders

### Centralized Justice IT

#### Challenges

- No single source of
- Funding &

- Agencies have no formal
- Potential over-focus on
- Limited collective
- Little Agency IT initiative
- No collective responsibility
- Governance limited to
- Provides no additional

Governance

### Management and Governance

Governance - Refresh and establish governance structures to manage inter-agency decisions and responsibilities pertaining to budget, data, policy, operations, technical planning/execution, security and privacy

- While there is not a single model that guarantees success, there are some key best practices present in optimal governance systems
  - Involved executive sponsor the required authority, knowledge and stature/reputation
  - Active participation by the senior most Agency executives
  - Well defined and layered governance structure that pushes decision making to the right level
- To address current gaps establish the following governance bodies:
  - **Executive Sponsor: City Administrator**
  - **Executive Board: Agency Executive Directors**
  - A dedicated Office of Justice Technology within the Department of Technology with a Program Officer and staff
  - Focused Committees which support inter-agency coordination and the ongoing use and evolution of criminal justice technology and systems



#### **Executive Sponsor**

City Administrator

Chairs & Facilitates



#### **New Executive Board**

Adopts/Rejects Recommendations



**New Office of Justice Technology New Program Officer** 

Supports and Facilitates



#### **Justice Operations Information Network Committees**

Tactical Operations & Maintenance

Strategic Technology Architecture & Planning

Information and Data Sharing

Oversight and Performance Monitoring

Governance Organization

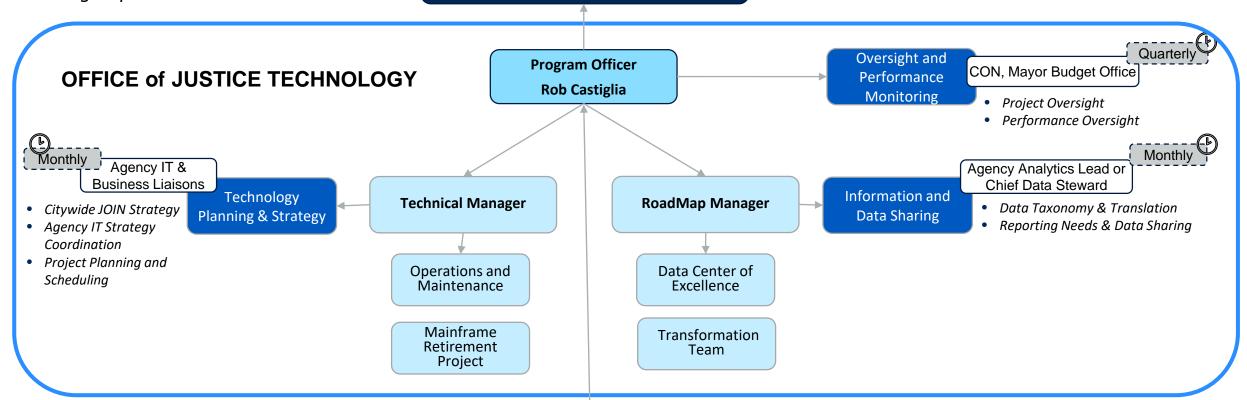
Organizational Relationship for the Board, Program Officer, Managers and Workgroups.

**EXECUTIVE BOARD** 

Executive Management

**Advisory Workgroup** 

Office Resource Team



**Department of Technology** 

Finance, Infrastructure, Data Management, Project Management



#### **JUSTIS Future State Vision**

#### Strategic Objectives

The JUSTIS 5 Year Roadmap will facilitate achievement of the following strategic objectives. These strategic objective(s) will be used to ensure the Roadmap initiatives are aligned with the Future State Vision described herein and as a baseline to measure effectiveness of the Roadmap's implementation.

#### **Innovations**

- 1.1 Establish a common taxonomy and comprehensive criminal justice conceptual data model, aligned across all JUSTIS member agencies and where possible with state and federal standards.
- 1.2 Deploy a city wide criminal justice data store that includes 'index level' data from all criminal justice agencies, covering the complete criminal and juvenile justice lifecycle, aligned to the common taxonomy.
- 1.3 Deploy an enterprise reporting analytics platform which enables stakeholder agencies, the JUSTIS Technology Support Team, and community partners to create dashboards, queries, and standard reports.
- 1.4 Deploy and/or re-architect the current JUSTIS integration platform with a lighter weight, secure and scalable architecture that encourages increased levels of data sharing.

- 1.5 Deploy data exchanges consistent with the needs and data sharing opportunities presented by the implementation of new juvenile and criminal justice agency systems over the next 24 months.
- 1.6 Deploy a platform for sharing electronic documents and managing digital evidence.
- 1.7 Deploy a collaboration platform for awareness and communication with health care and social services agencies to improve both individual and population level outcomes.
- 1.8 Extend JUSTIS to include Juvenile data and transactions with required access controls.
- 1.9 Rebrand and transform JUSTIS inclusive of the Roadmap strategic objectives to define the next generation public safety and social system for CCSF.

#### **Sustainment and Risk Mitigation**

- 2.1 Decommission CABLE/CMS including removal of dependencies on CABLE/CMS from all other CCSF criminal justice applications.
- 2.2 Complete CCSF planning and integrations to support the Superior Court go-live<sup>1</sup> on criminal C-Track without disrupting the partner agency operations.

1. Planned for late 2019

- 2.3 Establish a DR strategy that aligns interdependent resiliency levels across stakeholder agency systems and with the JUSTIS Hub, and justice environment.
- 2.4 Establish security mechanism which manages enterprise access to agency data through JUSTIS.
- 2.5 Establish governance for the funding, prioritization, expansion, and implementation of transformative technology projects and data management which impact the CCSF Criminal & Juvenile Justice landscape.



**Approach and Methodology Future State Vision** 

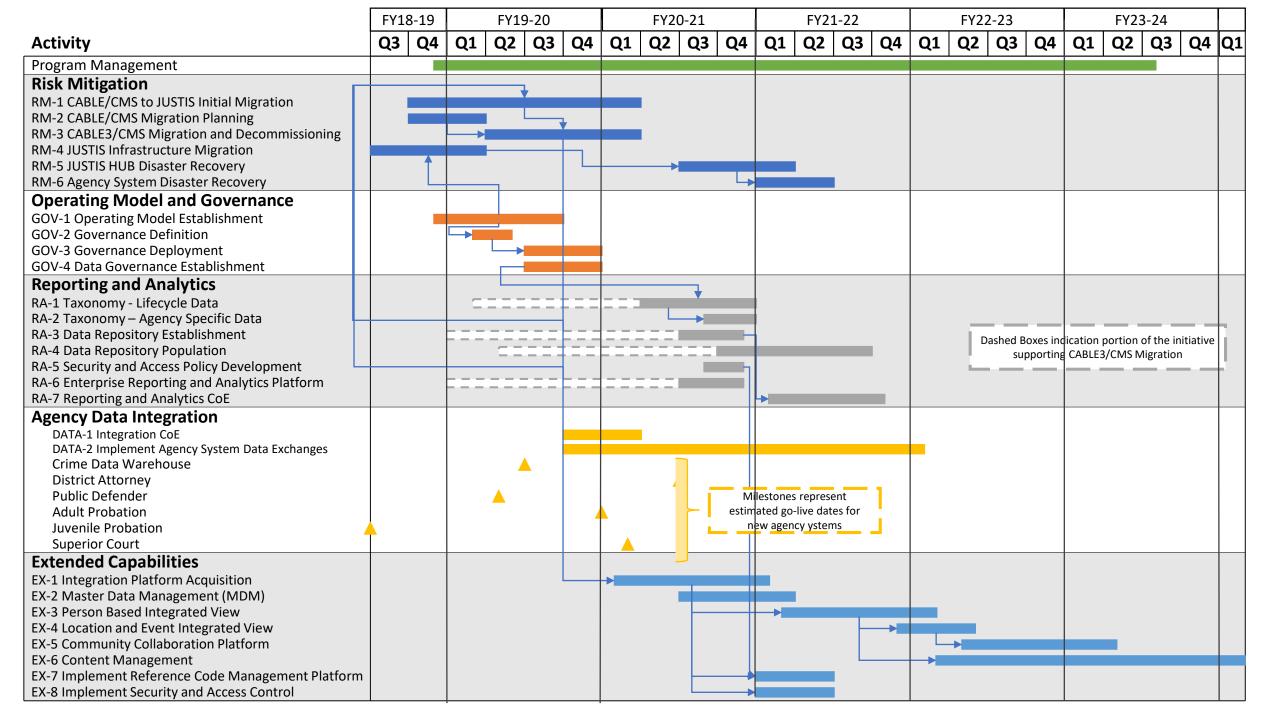
**Schedule and Initiatives** 

Investment and Staffing Estimates
Implementation Plan
Appendix

### **JUSTIS 5 Year Roadmap** Introduction







### Risk Mitigation - Primary Outcomes

#### Risk Mitigation

RM-1 CABLE/CMS to JUSTIS Initial Migration

RM-2 CABLE/CMS Migration Planning

RM-3 CABLE3/CMS Migration and Decommissioning

RM-4 JUSTIS Infrastructure Migration

RM-5 JUSTIS HUB Disaster Recovery

RM-6 Agency System Disaster Recovery

#### **Operating Model and Governance**

GOV-1 Operating Model Establishment

**GOV-2 Governance Definition** 

GOV-3 Governance Deployment

GOV-4 Data Governance Establishment

#### **Reporting and Analytics**

RA-1 Taxonomy - Lifecycle Data

RA-2 Taxonomy – Agency Specific Data

RA-3 Data Repository Establishment

RA-4 Data Repository Population

RA-5 Security and Access Policy Development

RA-6 Enterprise Reporting and Analytics Platform

RA-7 Reporting and Analytics CoE

#### Agency CMS Data Integration

DATA-1 Integration CoE

DATA-2 Implement Agency CMS Data Exchanges

Crime Data Warehouse

Booking / JMS Interface

District Attorney

Public Defender

Adult Probation

Juvenile Probation

Superior Court

#### **Extended Capabilities**

EX-1 Integration Platform Acquisition

EX-2 Master Data Management (MDM)

EX-3 Person Based Portal

EX-4 Location and Event Portal

EX-5 Community Collaboration Platform

EX-6 Content Management

EX-7 Implement Reference Code Management Platform

EX-8 Implement Security and Access Control

### **Primary Outcomes**

- JUSTIS implementation of operational and statistical reports provided to the agencies by CABLE3/CMS
- Detailed Plan to remove all dependencies by CCSF agencies on CABLE3/CMS
- Specifications for migrating CCSF CABLE3/CMS functionality into JUSTIS or agency systems
- Removal of dependency between JUSTIS and CABLE3/CMS
- Decommissioning CABLE3/CMS
- Resilient infrastructure inclusive of disaster recovery and cybersecurity protections
- Same or similar levels of infrastructure services and responsiveness
- Implemented systems recovery capabilities and business continuity management procedures for JUSTIS
- Overall IT Disaster Recovery Strategy and Plan

### Risk Mitigation - Initiatives

#### Risk Mitigation

RM-1 CABLE/CMS to JUSTIS Initial Migration

RM-2 CABLE/CMS Migration Planning

RM-3 CABLE3/CMS Migration and Decommissioning

RM-4 JUSTIS Infrastructure Migration

RM-5 JUSTIS HUB Disaster Recovery

RM-6 Agency System Disaster Recovery

#### **Operating Model and Governance**

GOV-1 Operating Model Establishment

GOV-2 Governance Definition

GOV-3 Governance Deployment

GOV-4 Data Governance Establishment

#### **Reporting and Analytics**

RA-1 Taxonomy - Lifecycle Data

RA-2 Taxonomy – Agency Specific Data

RA-3 Data Repository Establishment

RA-4 Data Repository Population

RA-5 Security and Access Policy Development

RA-6 Enterprise Reporting and Analytics Platform

RA-7 Reporting and Analytics CoE

#### **Agency CMS Data Integration**

DATA-1 Integration CoE

DATA-2 Implement Agency CMS Data Exchanges

Crime Data Warehouse

Booking / JMS Interface

District Attorney

Public Defender

Adult Probation
Juvenile Probation

Superior Court

#### **Extended Capabilities**

EX-1 Integration Platform Acquisition

EX-2 Master Data Management (MDM)

EX-3 Person Based Portal

EX-4 Location and Event Portal

EX-5 Community Collaboration Platform

EX-6 Content Management

EX-7 Implement Reference Code Management Platform

EX-8 Implement Security and Access Control

#### **RM-1 CABLE/CMS to JUSTIS initial Migration**

• Replace already identified core CABLE3/CMS functions such as Level II data provisioning and rap sheet production.

#### **RM-2 CABLE/CMS Migration Planning**

• Fully analyze data and functions provided by CABLE3/CMS and develop plans for migrating JUSTIS or to agency systems.

#### **RM-3 CALBE/CMS Migration and Decommissioning**

• Execute the Decommissioning Migration Plan with completion on or before the Court go-live.

#### **RM-4 JUSTIS Infrastructure Migration**

 Leverage disaster recovery, cybersecurity and other data center capabilities to ensure continuous operations.

#### **RM-5 JUSTIS HUB Disaster Recovery**

• Implement a strategy for configuring the JUSTIS Integration to meet required uptime and recovery measures.

#### **RM-6 Agency System Disaster Recovery**

• Create strategies and standards for agency level systems to ensure alignment with the enterprise level DR/BCM.

### Operating Model and Governance - Primary Outcomes

#### **Risk Mitigation**

RM-1 CABLE/CMS to JUSTIS Initial Migration

RM-2 CABLE/CMS Migration Planning

RM-3 CABLE3/CMS Migration and Decommissioning

RM-4 JUSTIS Infrastructure Migration

RM-5 JUSTIS HUB Disaster Recovery

DM & Aganay System Disaster Passyon

#### **Operating Model and Governance**

GOV-1 Operating Model Establishment

**GOV-2 Governance Definition** 

GOV-3 Governance Deployment

GOV-4 Data Governance Establishment

#### Reporting and Analytics

RA-1 Taxonomy - Lifecycle Data

RA-2 Taxonomy – Agency Specific Data

RA-3 Data Repository Establishment

RA-4 Data Repository Population

RA-5 Security and Access Policy Development

RA-6 Enterprise Reporting and Analytics Platform

RA-7 Reporting and Analytics CoE

#### Agency CMS Data Integration

DATA-1 Integration CoE

DATA-2 Implement Agency CMS Data Exchanges

Crime Data Warehouse

Booking / JMS Interface

District Attorney

Public Defender Adult Probation

Juvenile Probation

Superior Court

#### **Extended Capabilities**

EX-1 Integration Platform Acquisition

EX-2 Master Data Management (MDM)

EX-3 Person Based Portal

EX-4 Location and Event Portal

EX-5 Community Collaboration Platform

EX-6 Content Management

EX-7 Implement Reference Code Management Platform

**EX-8 Implement Security and Access Control** 

### **Primary Outcomes**

- Responsibility matrix for all agencies
- Updated operating agreement for JUSITS/DT
- Enhanced governance design and domain charters
- Functioning governance and working groups.
- Administrative code updates
- Established data governance function

### Operating Model and Governance - Initiatives

#### **Risk Mitigation**

RM-1 CABLE/CMS to JUSTIS Initial Migration

RM-2 CABLE/CMS Migration Planning

RM-3 CABLE3/CMS Migration and Decommissioning

RM-4 JUSTIS Infrastructure Migration

RM-5 JUSTIS HUB Disaster Recovery

DM 6 Agonay System Disaster Desayory

#### **Operating Model and Governance**

GOV-1 Operating Model Establishment

**GOV-2 Governance Definition** 

GOV-3 Governance Deployment

GOV-4 Data Governance Establishment

#### Reporting and Analytics

RA-1 Taxonomy - Lifecycle Data

RA-2 Taxonomy – Agency Specific Data

RA-3 Data Repository Establishment

RA-4 Data Repository Population

RA-5 Security and Access Policy Development

RA-6 Enterprise Reporting and Analytics Platform

RA-7 Reporting and Analytics CoE

#### Agency CMS Data Integration

DATA-1 Integration CoE

DATA-2 Implement Agency CMS Data Exchanges

Crime Data Warehouse

Booking / JMS Interface

District Attorney

Public Defender

Adult Probation

Juvenile Probation

Superior Court

#### **Extended Capabilities**

EX-1 Integration Platform Acquisition

EX-2 Master Data Management (MDM)

EX-3 Person Based Portal

EX-4 Location and Event Portal

EX-5 Community Collaboration Platform

EX-6 Content Management

EX-7 Implement Reference Code Management Platform

EX-8 Implement Security and Access Control

#### **GOV-1 Operating Model Establishment**

• Formalize roles and responsibilities between JUSTIS and agency teams

#### **GOV-2 Governance Definition**

 Document specific areas to be governed, governance bodies with defined responsibility and authority

#### **GOV-3 Governance Deployment**

• Incrementally establish and build agency adoption of the enhanced JUSTIS governance.

#### **GOV-4 Data Governance Establishment**

• Establish processes and structure for management of the consistency, accessibility and accuracy of criminal justice data.

### Reporting and Analytics - Primary Outcomes

#### **Risk Mitigation**

RM-1 CABLE/CMS to JUSTIS Initial Migration

RM-2 CABLE/CMS Migration Planning

RM-3 CABLE3/CMS Migration and Decommissioning

RM-4 JUSTIS Infrastructure Migration

RM-5 JUSTIS HUB Disaster Recovery

RM-6 Agency System Disaster Recovery

#### **Operating Model and Governance**

GOV-1 Operating Model Establishment

**GOV-2 Governance Definition** 

GOV-3 Governance Deployment

GOV-4 Data Governance Establishment

#### Reporting and Analytics

RA-1 Taxonomy - Lifecycle Data

RA-2 Taxonomy - Agency Specific Data

RA-3 Data Repository Establishment

RA-4 Data Repository Population

RA-5 Security and Access Policy Development

RA-6 Enterprise Reporting and Analytics Platform

RA-7 Reporting and Analytics CoE

#### Agency CMS Data Integration

DATA-1 Integration CoE

DATA-2 Implement Agency CMS Data Exchanges

Crime Data Warehouse

Booking / JMS Interface

District Attorney

Public Defender Adult Probation

Juvenile Probation

Superior Court

#### **Extended Capabilities**

EX-1 Integration Platform Acquisition

EX-2 Master Data Management (MDM)

EX-3 Person Based Portal

EX-4 Location and Event Portal

EX-5 Community Collaboration Platform

EX-6 Content Management

EX-7 Implement Reference Code Management Platform

EX-8 Implement Security and Access Control

### **Primary Outcomes**

- Community-wide criminal justice data model
- Definitions and common terms to describe the core criminal justice lifecycle, from the call for service to disposition and post-disposition actions.
- Data dictionary aligned with the JUSTIS Data Repository and Taxonomy
- Identification of the appropriate source system for each element
- Data Security roles and policies
- Implemented reporting and analytics tools
- Operational charter for the Data Center of Excellence

### Reporting and Analytics - Initiatives

#### **Risk Mitigation**

RM-1 CABLE/CMS to JUSTIS Initial Migration

RM-2 CABLE/CMS Migration Planning

RM-3 CABLE3/CMS Migration and Decommissioning

RM-4 JUSTIS Infrastructure Migration

RM-5 JUSTIS HUB Disaster Recovery

RM-6 Agency System Disaster Recovery

#### **Operating Model and Governance**

GOV-1 Operating Model Establishment

GOV-2 Governance Definition

GOV-3 Governance Deployment

GOV-4 Data Governance Establishment

#### Reporting and Analytics

RA-1 Taxonomy - Lifecycle Data

RA-2 Taxonomy - Agency Specific Data

RA-3 Data Repository Establishment

**RA-4 Data Repository Population** 

RA-5 Security and Access Policy Development

RA-6 Enterprise Reporting and Analytics Platform

RA-7 Reporting and Analytics CoE

#### Agency CMS Data Integration

DATA-1 Integration CoE

DATA-2 Implement Agency CMS Data Exchanges

Crime Data Warehouse

Booking / JMS Interface

District Attorney

Public Defender

Adult Probation
Juvenile Probation

Superior Court

#### **Extended Capabilities**

EX-1 Integration Platform Acquisition

EX-2 Master Data Management (MDM)

EX-3 Person Based Portal

EX-4 Location and Event Portal

EX-5 Community Collaboration Platform

EX-6 Content Management

EX-7 Implement Reference Code Management Platform

**EX-8 Implement Security and Access Control** 

#### **RA-1 Taxonomy – Lifecycle Data**

Create a shared vocabulary for core criminal justice events and data

#### RA-2 Taxonomy – Agency Specific Data

• Extend the taxonomy for agency specific and juvenile justice data

#### **RA-3 Data Repository Establishment**

• Establish a centralized repository of shared criminal and civil justice data

#### **RA-4 Data Repository Population**

• Create processes to populate agency data into the JUSTIS Common Data Repository

#### **RA-5 Security Access Policy Development**

 Refine Identity Access Management (IAM) and data security policies aligned with evolved data sharing capabilities

#### **RA-6 Enterprise Reporting and Analytics Platform**

Adopt and implement a shared JUSTIS level reporting and data visualization platform

#### **RA-7 Reporting and Analytics CoE**

 Establish consultative capabilities to support agency created reporting and data understanding

### Agency Data Integration - Primary Outcomes

#### **Risk Mitigation**

RM-1 CABLE/CMS to JUSTIS Initial Migration

RM-2 CABLE/CMS Migration Planning

RM-3 CABLE3/CMS Migration and Decommissioning

RM-4 JUSTIS Infrastructure Migration

RM-5 JUSTIS HUB Disaster Recovery

RM-6 Agency System Disaster Recovery

#### **Operating Model and Governance**

GOV-1 Operating Model Establishment

GOV-2 Governance Definition

GOV-3 Governance Deployment

GOV-4 Data Governance Establishment

#### **Reporting and Analytics**

RA-1 Taxonomy - Lifecycle Data

RA-2 Taxonomy – Agency Specific Data

RA-3 Data Repository Establishment

RA-4 Data Repository Population

RA-5 Security and Access Policy Development

RA-6 Enterprise Reporting and Analytics Platform

#### Agency CMS Data Integration

DATA-1 Integration CoE

DATA-2 Implement Agency CMS Data Exchanges

Crime Data Warehouse

Booking / JMS Interface

District Attorney

Public Defender Adult Probation

Juvenile Probation

Superior Court

#### **Extended Capabilities**

EX-1 Integration Platform Acquisition

EX-2 Master Data Management (MDM)

EX-3 Person Based Portal

EX-4 Location and Event Portal

EX-5 Community Collaboration Platform

EX-6 Content Management

EX-7 Implement Reference Code Management Platform

**EX-8 Implement Security and Access Control** 

### **Primary Outcomes**

- Expanded charter outlining roles and responsibilities of the CoE team
- Estimated resource levels and skills required to support to JUSTIS agencies
- Published data hub integration standards
- Initial COE resources on boarded and available to work
- Master Integration Development Schedule
- Deployment and on-going support and enhancements of event driven data exchanges.

# JUSTIS Roadmap Categories *Agency Data Integration - Initiatives*

#### **Risk Mitigation**

RM-1 CABLE/CMS to JUSTIS Initial Migration

RM-2 CABLE/CMS Migration Planning

RM-3 CABLE3/CMS Migration and Decommissioning

RM-4 JUSTIS Infrastructure Migration

RM-5 JUSTIS HUB Disaster Recovery

RM-6 Agency System Disaster Recovery

#### **Operating Model and Governance**

GOV-1 Operating Model Establishment

GOV-2 Governance Definition

GOV-3 Governance Deployment

GOV-4 Data Governance Establishment

#### **Reporting and Analytics**

RA-1 Taxonomy - Lifecycle Data

RA-2 Taxonomy – Agency Specific Data

RA-3 Data Repository Establishment

RA-4 Data Repository Population

RA-5 Security and Access Policy Development

RA-6 Enterprise Reporting and Analytics Platform

#### Agency CMS Data Integration

DATA-1 Integration CoE

DATA-2 Implement Agency CMS Data Exchanges

Crime Data Warehouse

Booking / JMS Interface

District Attorney

Public Defender

**Adult Probation** 

Juvenile Probation

#### Superior Court

#### Extended Capabilities

EX-1 Integration Platform Acquisition

EX-2 Master Data Management (MDM)

EX-3 Person Based Portal

EX-4 Location and Event Portal

EX-5 Community Collaboration Platform

EX-6 Content Management

EX-7 Implement Reference Code Management Platform

**EX-8 Implement Security and Access Control** 

### **DATA-1 Integration CoE**

 Establishes consultative capabilities to support agencies (and their vendors) in the development of interfaces between criminal justice systems using the Criminal Justice Integration hub

## **DATA-2 Implement Agency CMS Data Exchanges**

• Utilizing the JUSTIS Integration Platform, design, develop and deploy data exchanges to interface new agency systems

### Extended Capabilities- Primary Outcomes

#### **Risk Mitigation**

RM-1 CABLE/CMS to JUSTIS Initial Migration

RM-2 CABLE/CMS Migration Planning

RM-3 CABLE3/CMS Migration and Decommissioning

RM-4 JUSTIS Infrastructure Migration

RM-5 JUSTIS HUB Disaster Recovery

RM-6 Agency System Disaster Recovery

#### **Operating Model and Governance**

GOV-1 Operating Model Establishment

GOV-2 Governance Definition

GOV-3 Governance Deployment

GOV-4 Data Governance Establishment

#### **Reporting and Analytics**

RA-1 Taxonomy - Lifecycle Data

RA-2 Taxonomy – Agency Specific Data

RA-3 Data Repository Establishment

RA-4 Data Repository Population

RA-5 Security and Access Policy Development

RA-6 Enterprise Reporting and Analytics Platform

RA-7 Reporting and Analytics CoE

#### Agency CMS Data Integration

DATA-1 Integration CoE

DATA-2 Implement Agency CMS Data Exchanges

Crime Data Warehouse

Booking / JMS Interface

District Attorney

Public Defender Adult Probation

Juvenile Probation

#### apenor court

#### **Extended Capabilities**

EX-1 Integration Platform Acquisition

EX-2 Master Data Management (MDM)

EX-3 Person Based Portal

EX-4 Location and Event Portal

EX-5 Community Collaboration Platform

EX-6 Content Management

EX-7 Implement Reference Code Management Platform

EX-8 Implement Security and Access Control

### **Primary Outcomes**

- Modernized integration platform components
- Implementation of the platform including at least one pilot integration deployed in production
- Integrated person, location, and event view
- Collaboration platform to serve community based organizations
- Specification and deployment of meta data management capabilities
- Content management system
- Security capabilities limiting user access to data

### Extended Capabilities - Initiatives

#### **Risk Mitigation**

RM-1 CABLE/CMS to JUSTIS Initial Migration

RM-2 CABLE/CMS Migration Planning

RM-3 CABLE3/CMS Migration and Decommissioning

RM-4 JUSTIS Infrastructure Migration

RM-5 JUSTIS HUB Disaster Recovery

RM-6 Agency System Disaster Recovery

#### **Operating Model and Governance**

GOV-1 Operating Model Establishment

GOV-2 Governance Definition

GOV-3 Governance Deployment

GOV-4 Data Governance Establishment

#### **Reporting and Analytics**

RA-1 Taxonomy - Lifecycle Data

RA-2 Taxonomy – Agency Specific Data

RA-3 Data Repository Establishment

RA-4 Data Repository Population

RA-5 Security and Access Policy Development

RA-6 Enterprise Reporting and Analytics Platform

RA-7 Reporting and Analytics CoE

#### **Agency CMS Data Integration**

DATA-1 Integration CoE

DATA-2 Implement Agency CMS Data Exchanges

Crime Data Warehouse

Booking / JMS Interface

District Attorney

Public Defender

Adult Probation

Juvenile Probation

#### **Extended Capabilities**

EX-1 Integration Platform Acquisition

EX-2 Master Data Management (MDM)

EX-3 Person Based Portal

EX-4 Location and Event Portal

EX-5 Community Collaboration Platform

EX-6 Content Management

EX-7 Implement Reference Code Management Platform

EX-8 Implement Security and Access Control

### **EX-1 Integration Platform Acquisition**

 Provide lighter weight, agile integration tooling that promotes information sharing and reduces barriers to integration

#### **EX-2 Master Data Management (MDM)**

 Establish tools and processes for managing shared single records for core data such as person, case and location

#### **EX-3 Person Based Integrated View**

 Create a user interface to present all information from all agency systems about a single person

#### **EX-4 Location and Event Integrated View**

 Create a user interface to present all information from all agency systems about a single location or case

### Extended Capabilities - Initiatives (continued)

#### **Risk Mitigation**

RM-1 CABLE/CMS to JUSTIS Initial Migration

RM-2 CABLE/CMS Migration Planning

RM-3 CABLE3/CMS Migration and Decommissioning

RM-4 JUSTIS Infrastructure Migration

RM-5 JUSTIS HUB Disaster Recovery

RM-6 Agency System Disaster Recovery

#### **Operating Model and Governance**

GOV-1 Operating Model Establishment

GOV-2 Governance Definition

GOV-3 Governance Deployment

GOV-4 Data Governance Establishment

#### **Reporting and Analytics**

RA-1 Taxonomy - Lifecycle Data

RA-2 Taxonomy – Agency Specific Data

RA-3 Data Repository Establishment

RA-4 Data Repository Population

RA-5 Security and Access Policy Development

RA-6 Enterprise Reporting and Analytics Platform

RA-7 Reporting and Analytics CoE

#### Agency CMS Data Integration

DATA-1 Integration CoE

DATA-2 Implement Agency CMS Data Exchanges

Crime Data Warehouse

Booking / JMS Interface

District Attorney

Public Defender

Adult Probation

Juvenile Probation

#### apenor court

#### **Extended Capabilities**

EX-1 Integration Platform Acquisition

EX-2 Master Data Management (MDM)

EX-3 Person Based Portal

EX-4 Location and Event Portal

EX-5 Community Collaboration Platform

EX-6 Content Management

EX-7 Implement Reference Code Management Platform

EX-8 Implement Security and Access Control

#### **EX-5 Community Collaboration Platform**

 Establish capabilities to share information and workflows with community based organizations

#### **EX-6 Content Management**

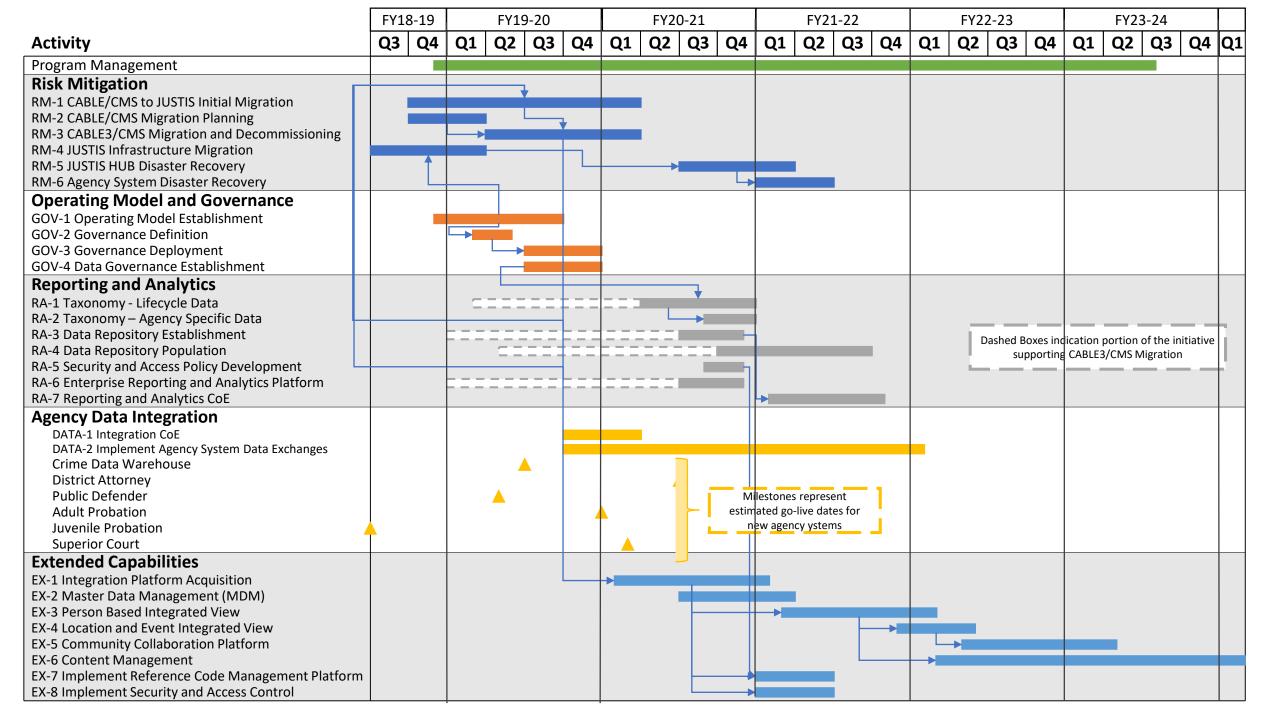
• Implement a platform for the sharing of non-structured content (e.g., documents, videos, digital evidence, etc.)

#### **EX-7 Reference Code Management Platform**

 Implement capabilities to support the use of consistent sets of reference codes

#### **EX-8 Implement Security and Access Control**

• Implement the Identity Access Management and Data Security Policy and integrate such capabilities as necessary with agency systems



Approach and Methodology
Future State Vision
Schedule and Initiatives
Investment and Staffing Estimates
Implementation Plan
Appendix

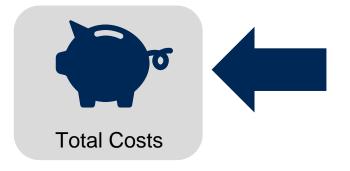
### **Cost Estimate Methodology**

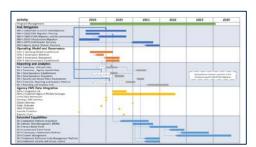
- Rough Order of Magnitude (ROM) Cost was calculated using the following key drivers.
  - Hardware Costs: Anticipated cost of any computers, server, or other hardware associated with an initiative. Costs are applied to the initiative in the first month.
  - Software Costs: Estimated software licensing costs. Costs are applied the first scheduled month of an initiative
  - Other Resources: Resources contracted to deliver an entire initiative or a portion of it. The cost was estimated by multiplying the total work hours to complete and initiative by the industry rates for the required resources. Cost are allocated monthly over the length of the initiative.
- Existing resources were forecasted to build a staffing model, however, no incremental cost was applied as they have already been accounted for internally.





Software & Hardware Costs





Timing and Prioritization





Specialized Resources



#### **Estimated Initiative Costs**

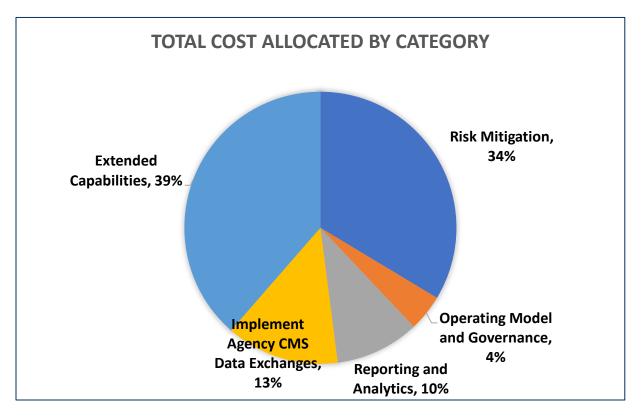
Total estimated hardware, software and labor costs for each initiative are shown.

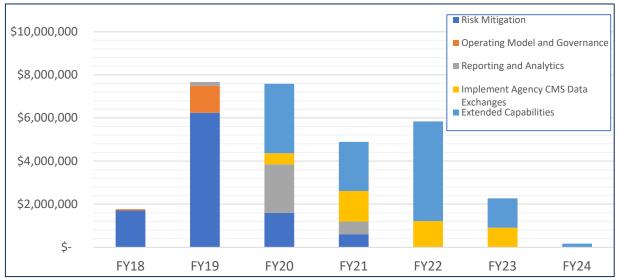
- Internal CCSF resources were included in the effort estimates, however, no incremental cost was applied as these resources are already budgeted
- The model does not include ongoing maintenance or support costs
- Estimates do not include cost contingencies; best practice is to include a 20-25% contingency for technology projects similar to those in the Roadmap

GOV-1 Operating Model Establishment \$ 612,000 GOV-2 Governance Definition \$ 156,000 GOV-3 Governance Deployment \$ 271,000 GOV-4 Data Governance Establishment \$ 403,000 GOV-4 Data Governance Establishment \$ 146,000 GOV-4 Data Repository Establishment \$ 359,000 GOV-4 Data Repository Population \$ 718,000 GOV-4 Data Repository Population \$ 156,000 GOV-4 Data Repository Population GOV-4 Data Repository Population \$ 156,000 GOV-4 Data Repository Population GOV-4 Data Repository Population \$ 156,000 GOV-4 Data Repository Population GOV-4 Data Repository Popula	Category	Initiative	Ir	nvestment	Sub Total
RM-3 CABLE3/CMS Migration and Decommissioning \$ 2,298,000 RM-4 JUSTIS Infrastructure Migration \$ 244,000 RM-5 JUSTIS HUB Disaster Recovery \$ 416,000 rM-5 JUSTIS HUB Disaster Recovery \$ 192,000 \$ 1		RM-1 CABLE/CMS to JUSTIS Initial Migration	\$	6,327,000	
Risk Mitigation   RM-4 JUSTIS Infrastructure Migration   \$ 244,000   RM-5 JUSTIS HUB Disaster Recovery   \$ 416,000   RM-6 Agency System Disaster Recovery   \$ 192,000   \$ 10,149,000   \$	Risk Mitigation	RM-2 CABLE/CMS Migration Planning		671,000	
Risk Mitigation   RM-4 JUSTIS Infrastructure Migration   \$ 244,000   RM-5 JUSTIS HUB Disaster Recovery   \$ 416,000   RM-6 Agency System Disaster Recovery   \$ 192,000   \$ 10,149,000   \$		RM-3 CABLE3/CMS Migration and Decommissioning	\$	2,298,000	
RM-5 JUSTIS HUB Disaster Recovery		RM-4 JUSTIS Infrastructure Migration		244,000	
RM-6 Agency System Disaster Recovery   \$ 192,000		RM-5 JUSTIS HUB Disaster Recovery		416,000	
GOV-1 Operating Model Establishment \$ 612,000 GOV-2 Governance Definition \$ 156,000 GOV-3 Governance Deployment \$ 271,000 GOV-4 Data Governance Establishment \$ 403,000 GOV-4 Data Governance Establishment \$ 146,000 GOV-4 Data Repository Establishment \$ 359,000 GOV-4 Data Repository Population \$ 718,000 GOV-4 Data Repository Population \$ 156,000 GOV-4 Data Repository Population GOV-4 Data Repository Population \$ 156,000 GOV-4 Data Repository Population GOV-4 Data Repository Population \$ 156,000 GOV-4 Data Repository Population GOV-4 Data Repository Popula		RM-6 Agency System Disaster Recovery		192,000	
Operating Model and Governance Definition  GOV-2 Governance Deployment GOV-3 Governance Deployment GOV-4 Data Governance Establishment  Reporting and Analytics  Reporting and Analytics  RA-1 Taxonomy - Lifecycle Data RA-2 Taxonomy - Agency Specific Data RA-3 Data Repository Establishment  RA-4 Data Repository Population RA-5 Security and Access Policy Development RA-6 Enterprise Reporting and Analytics Platform RA-7 Reporting and Analytics CoE  S3,019,000  Implement Agency System Data Exchanges  PATA-1 Integration CoE DATA-2 Implement Agency System Data Exchanges  S4,060,000  Extended Capabilities  Find Management EX-5 Community Collaboration Integrated View EX-5 Content Management EX-7 Implement Reference Code Management Platform EX-8 Implement Reference Code Management Platform EX-8 Implement Reference Code Management Platform EX-8 Implement Security and Access Control  \$ 156,000 \$ 403,000 \$ 146,000 \$ 359,000 \$ 3,641,000  \$ 3,641,000 \$ 4,060,000  \$ 4,060,000  EX-6 Content Management EX-7 Implement Reference Code Management Platform EX-8 Implement Reference Code Management Platform EX-8 Implement Security and Access Control  \$ 11,649,000					\$10,149,000
Operating Model and Governance Definition GOV-2 Governance Deployment GOV-3 Governance Deployment GOV-4 Data Governance Establishment  Reporting and Analytics RA-1 Taxonomy - Lifecycle Data RA-2 Taxonomy - Agency Specific Data RA-3 Data Repository Establishment RA-4 Data Repository Population RA-4 Data Repository Population RA-5 Security and Access Policy Development RA-6 Enterprise Reporting and Analytics Platform RA-7 Reporting and Analytics CoE  S3,019,000  Implement Agency System Data Exchanges  DATA-1 Integration CoE DATA-2 Implement Agency System Data Exchanges DATA-2 Implement Agency System Data Exchanges DATA-2 Implement Agency System Data Exchanges DATA-2 Integration Platform Acquisition EX-2 Master Data Management EX-3 Person Based Portal EX-4 Location and Event Integrated View EX-5 Community Collaboration Integrated View EX-5 Content Management EX-6 Content Management EX-7 Implement Reference Code Management Platform EX-8 Implement Security and Access Control \$156,000 \$3,019,000 \$3,019,000 \$4,060,000		GOV-1 Operating Model Establishment	\$	612,000	
Operating Model and Governance GOV-4 Data Governance Establishment  Reporting and Analytics  Reporting and Analytics  Reporting and Analytics  RA-1 Taxonomy - Lifecycle Data RA-2 Taxonomy - Agency Specific Data RA-3 Data Repository Establishment  RA-4 Data Repository Population RA-5 Security and Access Policy Development RA-6 Enterprise Reporting and Analytics Platform RA-7 Reporting and Analytics CoE  S3,019,000  Implement Agency System Data Exchanges DATA-1 Integration CoE DATA-2 Implement Agency System Data Exchanges DATA-2 Implement Agency System Data Exchanges  Extended Capabilities  Extended Capabilities Extended Capabilitie				156,000	
Analytics  Reporting and Analytics  RA-1 Taxonomy - Lifecycle Data RA-2 Taxonomy - Agency Specific Data RA-3 Data Repository Establishment  RA-4 Data Repository Population RA-5 Security and Access Policy Development RA-6 Enterprise Reporting and Analytics Platform RA-7 Reporting and Analytics Policy Development RA-7 Reporting and Analytics Platform RA-7 Reporting and Analytics Platform RA-7 Reporting and Analytics Platform RA-1 Integration CoE DATA-2 Implement Agency System Data Exchanges  EX-1 Integration Platform Acquisition EX-2 Master Data Management EX-3 Person Based Portal EX-4 Location and Event Integrated View EX-5 Community Collaboration Integrated View EX-6 Content Management EX-7 Implement Reference Code Management Platform EX-8 Implement Reference Code Management Platform EX-8 Implement Security and Access Control  \$ 1,511,000 \$ 2,647,000 \$ 335,000  \$ 1,268,000 EX-6 Content Management EX-7 Implement Reference Code Management Platform EX-8 Implement Security and Access Control  \$ 335,000	_	GOV-3 Governance Deployment	\$	271,000	
Reporting and Analytics Reporting and Analytics RA-4 Data Repository Population RA-5 Security and Access Policy Development RA-6 Enterprise Reporting and Analytics Platform RA-7 Reporting and Analytics CoE  Say,000  Implement Agency System Data Exchanges  Extended Capabilities  Extended Capabilities  RA-2 Taxonomy – Agency Specific Data RA-3 Data Repository Establishment Say,000 RA-4 Data Repository Population Say,000 RA-5 Security and Access Policy Development Say,000 RA-6 Enterprise Reporting and Analytics Platform Say,019,000 RA-7 Reporting and Analytics CoE Say,000 Say,019,000 Say,01	and Governance	GOV-4 Data Governance Establishment		271,000	
Reporting and Analytics Reporting and Analytics RA-4 Data Repository Population RA-5 Security and Access Policy Development RA-6 Enterprise Reporting and Analytics Platform RA-7 Reporting and Analytics CoE  Say,000  Implement Agency System Data Exchanges  Extended Capabilities  Extended Capabilities  RA-2 Taxonomy – Agency Specific Data RA-3 Data Repository Establishment Say,000 RA-4 Data Repository Population Say,000 RA-5 Security and Access Policy Development Say,000 RA-6 Enterprise Reporting and Analytics Platform Say,019,000 RA-7 Reporting and Analytics CoE Say,000 Say,019,000 Say,01					\$1,311,000
Reporting and Analytics Reporting and Analytics RA-4 Data Repository Population RA-5 Security and Access Policy Development RA-6 Enterprise Reporting and Analytics Platform RA-7 Reporting and Analytics CoE  Say,000  Implement Agency System Data Exchanges  Extended Capabilities  Extended Capabilities  RA-2 Taxonomy – Agency Specific Data RA-3 Data Repository Establishment Say,000 RA-4 Data Repository Population Say,000 RA-5 Security and Access Policy Development Say,000 RA-6 Enterprise Reporting and Analytics Platform Say,019,000 RA-7 Reporting and Analytics CoE Say,000 Say,019,000 Say,01		RA-1 Taxonomy - Lifecycle Data	\$	403,000	
Reporting and Analytics RA-4 Data Repository Population RA-5 Security and Access Policy Development RA-6 Enterprise Reporting and Analytics Platform RA-7 Reporting and Analytics CoE  S3,019,000  Implement Agency System Data Exchanges  EX-1 Integration Platform Acquisition EX-2 Master Data Management EX-3 Person Based Portal EX-4 Location and Event Integrated View EX-5 Community Collaboration Integrated View EX-6 Content Management EX-7 Implement Reference Code Management Platform EX-8 Implement Reference Code Management Platform EX-8 Implement Reference Code Management Platform EX-8 Implement Security and Access Control  \$ 359,000 \$ 718,000 \$ 5654,000 \$ \$ 451,000  \$ 3,641,000  \$ 4,060,000  \$ 4,060,000  \$ 4,060,000  EX-6 Content Management EX-7 Implement Reference Code Management Platform EX-7 Implement Reference Code Management Platform EX-8 Implement Security and Access Control  \$ 359,000 \$ 419,000  \$ 4,060,000  \$ 4,060,000  EX-6 Content Management EX-7 Implement Reference Code Management Platform EX-8 Implement Security and Access Control  \$ 359,000  \$ 419,000  \$ 4419,000  \$ 4,060,000  \$ 4,060,000  EX-6 Content Management EX-7 Implement Reference Code Management Platform EX-8 Implement Security and Access Control  \$ 359,000  \$ 419,000  \$ 4419,0				146,000	
Reporting and Analytics RA-4 Data Repository Population RA-5 Security and Access Policy Development RA-6 Enterprise Reporting and Analytics Platform RA-7 Reporting and Analytics CoE  \$ 3,019,000  Implement Agency System Data Exchanges  Extended Capabilities  RA-4 Data Repository Population RA-5 Security and Access Policy Development \$ 156,000 \$ 584,000 \$ 3,019,000  \$ 419,000  \$ 419,000  \$ 4,060,000  \$ 4,060,000  EX-2 Integration Platform Acquisition EX-2 Master Data Management EX-3 Person Based Portal EX-4 Location and Event Integrated View EX-5 Community Collaboration Integrated View EX-6 Content Management EX-7 Implement Reference Code Management Platform EX-7 Implement Reference Code Management Platform EX-8 Implement Security and Access Control  \$ 11,649,000  \$ 11,649,000				359,000	
Analytics RA-5 Security and Access Policy Development RA-6 Enterprise Reporting and Analytics Platform RA-7 Reporting and Analytics CoE \$ 584,000    RA-7 Reporting and Analytics CoE   \$ 584,000    Say,019,000    Implement Agency System Data Exchanges	Reporting and	RA-4 Data Repository Population		718,000	
RA-6 Enterprise Reporting and Analytics Platform RA-7 Reporting and Analytics CoE  \$ 584,000  \$ 584,000  \$ \$3,019,000  Implement Agency System Data Exchanges    DATA-1 Integration CoE   DATA-2 Implement Agency System Data Exchanges   DATA-2 Implement Agency System Data Exchanges   DATA-2 Implement Agency System Data Exchanges   S4,060,000   EX-1 Integration Platform Acquisition   EX-2 Master Data Management   EX-3 Person Based Portal   EX-4 Location and Event Integrated View   EX-5 Community Collaboration Integrated View   EX-6 Content Management   EX-7 Implement Reference Code Management Platform   EX-7 Implement Reference Code Management Platform   EX-8 Implement Security and Access Control   S11,649,000		RA-5 Security and Access Policy Development		156,000	
RA-7 Reporting and Analytics CoE  \$ 584,000    Implement Agency System Data Exchanges	,	RA-6 Enterprise Reporting and Analytics Platform		654,000	
Implement Agency System Data Exchanges  EX-1 Integration Platform Acquisition EX-2 Master Data Management Extended Capabilities  Extended Capabilities  Extended Capabilities  Extended Capabilities  Extended Capabilities  DATA-1 Integration CoE DATA-2 Implement Agency System Data Exchanges  \$ 419,000 \$ 3,641,000  \$ 4,060,000  \$ 2,647,000 EX-2 Master Data Management \$ 830,000 EX-3 Person Based Portal EX-4 Location and Event Integrated View EX-5 Community Collaboration Integrated View EX-5 Content Management EX-7 Implement Reference Code Management Platform EX-7 Implement Reference Code Management Platform EX-8 Implement Security and Access Control  \$ 1,268,000 EX-8 Implement Security and Access Control  \$ 335,000		RA-7 Reporting and Analytics CoE		584,000	
Agency System Data Exchanges  EX-1 Integration Platform Acquisition EX-2 Master Data Management EX-3 Person Based Portal EX-4 Location and Event Integrated View EX-5 Community Collaboration Integrated View EX-6 Content Management EX-7 Implement Reference Code Management Platform EX-7 Implement Security and Access Control  \$ 3,641,000 \$ 4,060,000 \$ 2,647,000 \$ 830,000 \$ 1,511,000 \$ 756,000 \$ 1,268,000 \$ 4,007,000 \$ 2,600,000 \$ 1,268,000 \$ 1,268,000 \$ 2,600,000 \$ 335,000 \$ 1,268,000 \$ 1,268,					\$3,019,000
Agency System Data Exchanges  EX-1 Integration Platform Acquisition EX-2 Master Data Management EX-3 Person Based Portal EX-4 Location and Event Integrated View EX-5 Community Collaboration Integrated View EX-6 Content Management EX-7 Implement Reference Code Management Platform EX-7 Implement Security and Access Control  \$ 3,641,000 \$ 4,060,000 \$ 2,647,000 \$ 830,000 \$ 1,511,000 \$ 756,000 \$ 1,268,000 \$ 4,007,000 \$ 2,600,000 \$ 1,268,000 \$ 1,268,000 \$ 2,600,000 \$ 335,000 \$ 1,268,000 \$ 1,268,	Implement	DATA-1 Integration CoE	\$	419,000	
Data Exchanges  EX-1 Integration Platform Acquisition  EX-2 Master Data Management  EX-3 Person Based Portal  EX-4 Location and Event Integrated View  EX-5 Community Collaboration Integrated View  EX-6 Content Management  EX-7 Implement Reference Code Management Platform  EX-8 Implement Security and Access Control  \$ 1,511,000  \$ 756,000  \$ 1,268,000  \$ 4,007,000  \$ 295,000  \$ 335,000  \$ 11,649,000		DATA-2 Implement Agency System Data Exchanges		3,641,000	
Extended Capabilities  Extended Capabilities  EX-2 Master Data Management \$ 830,000 \$ 1,511,000 \$ 1,511,000 \$ 756,000 \$ 1,268,					\$4,060,000
Extended Capabilities  Extended Capabilities  EX-2 Master Data Management \$ 830,000 \$ 1,511,000 \$ 1,511,000 \$ 756,000 \$ 1,268,		EX-1 Integration Platform Acquisition	\$	2,647,000	
EX-3 Person Based Portal  EX-4 Location and Event Integrated View  EX-5 Community Collaboration Integrated View  EX-6 Content Management  EX-7 Implement Reference Code Management Platform  EX-8 Implement Security and Access Control  \$ 1,511,000  \$ 756,000  \$ 1,268,000  \$ 4,007,000  \$ 295,000  \$ 335,000  \$ 11,649,000		·			
Extended Capabilities  EX-4 Location and Event Integrated View  EX-5 Community Collaboration Integrated View  EX-6 Content Management  EX-7 Implement Reference Code Management Platform  EX-8 Implement Security and Access Control  \$ 756,000  \$ 1,268,000  \$ 4,007,000  \$ 295,000  \$ 335,000  \$ 11,649,000		•			
EX-5 Community Collaboration Integrated View \$ 1,268,000   EX-6 Content Management \$ 4,007,000   EX-7 Implement Reference Code Management Platform \$ 295,000   EX-8 Implement Security and Access Control \$ 335,000   \$11,649,000		EX-4 Location and Event Integrated View		756,000	
EX-6 Content Management \$ 4,007,000 EX-7 Implement Reference Code Management Platform \$ 295,000 EX-8 Implement Security and Access Control \$ 335,000 \$11,649,000		EX-5 Community Collaboration Integrated View		1,268,000	
EX-8 Implement Security and Access Control \$ 335,000 \$11,649,000				4,007,000	
\$11,649,000		EX-7 Implement Reference Code Management Platform	\$	295,000	
		EX-8 Implement Security and Access Control	\$	335,000	
					\$11,649,000
	Grand Total				

# **Investment Summary** *Key Observations*

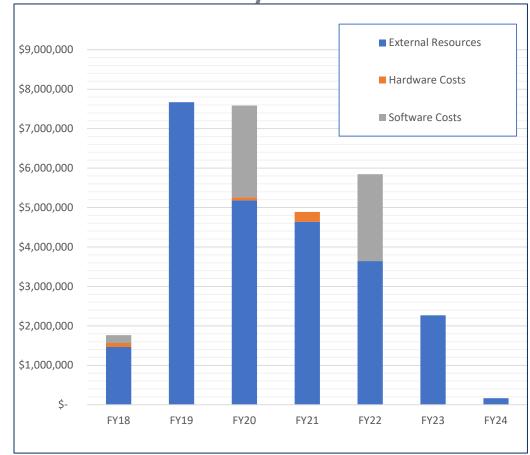
- Estimated cost for the Roadmap is \$30M over the five year Roadmap, with resources being the primary cost driver. Costs can be allocated to future years to address budget limits.
- Risk Mitigation and Extended Capability
   Development represent almost 70% of the total investment associated with the Roadmap.
- Risk Mitigation is high priority and will be the primary focus of the roadmap in the first two years. These initiatives will address system support risks identified in the Current State Assessment Report, and will remove CCSF's dependency on the pending Superior Court transition away from CABLE3/CMS.
- Reporting and Analytics, while comprising only 10% of the overall costs, will provide high value capabilities for CCSF.

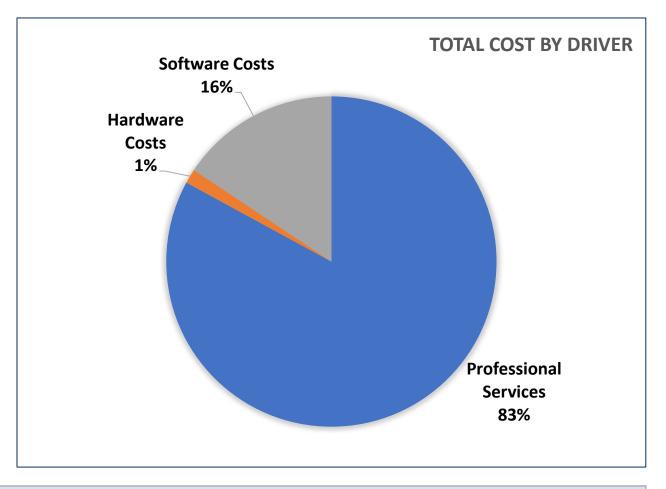




## **Investment Summary**

New Resource Requirements





Rounded to nearest 1,000	FY18	FY19	FY20	FY21	FY22	FY23	FY24	<b>Grand Total</b>
Hardware Costs	\$ 100,000	\$ -	\$ 75,000	\$ 250,000	\$ -	\$ -	\$ -	\$ 425,000
Software Costs	\$ 200,000	\$ -	\$ 2,325,000	\$ -	\$ 2,200,000	\$ -	\$ -	\$ 4,725,000
Resources	\$ 1,466,000	\$ 7,669,000	\$ 5,183,000	\$ 4,639,000	\$ 3,643,000	\$ 2,270,000	\$ 167,000	\$ 25,037,000
<b>Grand Total</b>	\$ 1,766,000	\$ 7,669,000	\$ 7,583,000	\$ 4,889,000	\$ 5,843,000	\$ 2,270,000	\$ 167,000	\$ 30,187,000

## **Investment Summary** *Internal Resource Requirements*

- In addition to the costs identified, successful implementation of these the Roadmap will require resources be assigned from both JUSTIS Agencies and DT.
- Costs associated with these internal resources were not factored into the overall Roadmap cost estimate, as these costs are already accounted for in current budgets.

Estimated resource allocation for each of the 7 Justice Agency (averages)									
	FY18	FY19	FY20	FY21	FY22	FY23	FY24		
JUSTIS Agency Resources	0.6	2.7	3.1	5.4	4.7	3.3	0.3		
Agency Application Engineer	0.1	0.8	1.3	2.1	1.8	1.2	0.1		
Agency Functional SME	0.5	1.9	1.8	3.3	2.9	2.2	0.2		

Estimated resource allocation for DT								
	FY18	FY19	FY20	FY21	FY22	FY23	FY24	
JUSTIS ISD Staff	1.9	5.8	6.5	6.3	5.0	4.2	0.2	
Architect / Specialist	0.1	0.2	1.5	1.1	0.5	0.3	0.1	
Infra-structure Engineer	0.5	0.5	0.6	0.8	0.4	0.3	0.1	
JUSTIS Application Engineer	1.3	3.1	2.4	2.4	2.2	1.5	0.0	
JUSTIS Roadmap Project Manager	0.0	1.0	1.0	1.0	1.0	1.0	0.0	
JUSTIS Program Manager	0.0	1.0	1.0	1.0	1.0	1.0	0.0	

Approach and Methodology
Future State Vision
Schedule and Initiatives
Investment and Staffing Estimates
Implementation Plan
Appendix

## **Implementation Plan**

### **Objective**

- The Implementation plan provides a recommended approach to executing the Roadmap and is focused on the Execution, Monitoring, and Control portions of the PMBOK project lifecycle
- Key components of the implementation plan include:
  - Team Structure
  - Staffing Plans
  - Governance
  - Change Control
  - Project Management Planning
  - Key Performance Metrics
  - Risk Management



### Implementation Plan

### JUSTIS Completion and Renaming

- The initial objective of the JUSTIS project has been completed, specifically:
  - "The intention of the original JUSTIS Architecture, as documented over 5 years ago, was to replace the integrated legacy system (CABLE) with an integration of a data warehouse, various client/server point solutions for departments and some new web applications for query and reporting. The primary integration method considered for this plan was replication of data among the constituent parts using Oracle technology." JUSTIS Vision-Charter 2003, pg7
- Over the last 15 years JUS.T.I.S. succeeded in:
  - Mapping the Computer Assisted Bay Area Law Enforcement Legacy System (CABLE3/CMS) to a modern Oracle Database
  - Creating a Criminal Justice Data Hub Infrastructure that facilitates data sharing and transformation in real time.
  - Creating a secure infrastructure to aggregate, transmit and store criminal offender records and detail.
  - Supporting the implementations of the criminal justice agencies modern case management systems.
  - Providing a Notification System to the criminal justice agencies based on critical events.
- Given that this work has been completed a new Program should be established, which is comprised of the contents of this Roadmap
- With a new Program, comes a new name. What do you think we should call this new Program!!



### Implementation Plan

#### JUSTIS Charter and Memorandums of Understanding

- > Create the JUSTIS Program Governance Charter between the City Administrator and Justice Agencies:
  - Strategic Responsibilities
  - Annual Planning and Budgeting Priorities
  - Operational Responsibilities
  - Executive Board Membership
- > Remove Chapter 2A Article IV from the Admin code (JUSTIS project governance)
- > Develop Memorandum of Understanding between the Department of Technology and Justice Agencies:
  - Service Level Agreement on infrastructure performance and support
  - Security and operational process
  - Service Desk response and support



## **Implementation Plan** JUSTIS Next Steps

- Conduct a meeting of the Executive Board to:
  - a) Formally adopt the 5 Year Roadmap
  - Outline the Charter
  - Review 2019/2020 budget priorities
  - Review the CABLE3/CMS Decommission budget and schedule
- Organize and institute the Gartner recommended governance workgroups to begin in March 2019 to move forward on the RoadMap initiatives – specifically CABLE3/CMS Decommissioning.
- Create and fill the Program Officer position.
- Request the Program Officer to coordinate the development of a Service Level Agreement between the Justice Agencies and the Department of Technology.
- Finalize the CABLE3/CMS Decommission Plan and immediately start the project.



## **Thank You!**

Thank you to each of the agencies for your contributions to the Roadmap





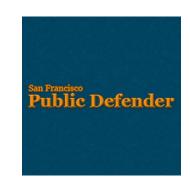






















Approach and Methodology
Future State Vision
Schedule and Initiatives
Investment and Staffing Estimates
Implementation Plan
Appendix

## **Appendix** Roadmap Documents

Gartner 5 Year Roadmap documents are located on the project Sharepoint site:

- 1. Project Initiation Document
- **Current State Assessment**
- Future State Vision
- Roadmap Initiatives and Implementation Plan
- **Executive Presentation**



## Contacts

#### Joe Siegel

Vice President **Gartner Consulting** Telephone: +1 310 713 6300 joe.siegel@gartner.com

#### Jon Kashare

Sr. Managing Partner **Gartner Consulting** Telephone: +1 917 882 3274 jonathan.kashare@gartner.com

#### **Kirk Kirkpatrick**

Sr. Managing Partner **Gartner Consulting** Telephone: +1 201 417 7824 kirk.kirkpatrick@gartner.com

#### **Brian Avants**

**Associate Director Gartner Consulting** Telephone: +1 408 623 0888 brian.avants@gartner.com

#### **Ernst Rampen**

Sr. Director **Gartner Consulting** Telephone: +1 203 316 1745 ernst.rampen@gartner.com

