Regional Data Sharing

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**Heather Crondahl,** Enterprise Architect and Open Government Strategist, GCTC Civic Data Hub and Service Delivery Platform Project

**Heidi Lengdorfer,** Chief Data Officer, Alaska Department of Health and Social Services

**Raimundo Rodulfo,** Director of Information Technology/Chief Innovation Officer, City of Coral Gables, FL

**Lan Jenson,** Chief Executive Officer, Adaptable Security Corp

**Jerry Power,** Chief Executive Officer, I3 Systems
Speakers

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Chief Executive Officer, Adaptable Security Corp; GCTC CPAC Co-Chair
A data sharing strategy is not something that can be done off the shelf, but is baked with key ingredients like a pie.
GCTC Civic Data Hub & Service Delivery Platform Project
Heather Crondahl, Enterprise Architect & Open Government Strategist

Alaska Department of Health and Social Services
Heidi Lengdorfer, Chief Data Officer
Open Resources, Open Standards, Open Market

Open Possibilities

- Standardized open data resources ready for service development
- Standardized technology layer eases entry to market for microservice developers and service developers
- Low-to-no systems integration
- Scalable plug-and-play cyberinfrastructure
- Data and functionality on one platform
- Security and governance built into every application
- Load balancing, audit logging, configuration management and mobile device management
- Collaboration across government and civic entrepreneurs
- Improved distribution channels, and value to constituents
- Reduced cost of government, economic development
- Project oversight for optimized service success rates

Data and Infrastructure

Platform

Services

Open Civic
Architectural Framework
www.opencivicframework.org
Universal Challenges

- Subjective and limited data sharing between programs
- Manual and paper-based business process to compensate for disparate systems
- Ineffective service delivery to vulnerable and at-risk populations

Universal Solutions

- Use ontologies to standardize data sharing based on legal imperatives, including federal regulations like HIPAA, 42 CFR Pt. 2, and state law
- Use semantic technologies and master data management to deduplicate collected data

Universal Outcomes

- Improved service delivery for clients
- Better, faster data
- Less public funds spent on unnecessary, subjective tasks
- Strengthen data infrastructure for the next pandemic
City of Coral Gables, FL
Raimundo Rodulfo
Director of Information Technology/Chief Innovation Officer
GCTC Data Supercluster Co-Chair
Our Smart City Engineering Framework implements Interconnected & Interoperable elements:

- **Smart City Hub** → Value, Transparency, Open Data, Business Intelligence
- **Data Platforms** → Data Aggregation, Integration, Correlation. Predictive Analytics, AI/ML
- **Horizontal Integration** → Systems Engineering Model, Data Governance, Best Practices
- **Internet of Things** → Real-time Cyber-Physical Urban & Environmental Visibility
- A robust and resilient cyberinfrastructure with high-speed communications
BENEFITS:

- Free open data/analytics from traffic & environmental IoT sensors -> design business strategies (retail, service, marketing), public services, first responders
- Digital services, mobile apps and applications -> residents, businesses and their customers (transportation, parking, public safety, customer services connect)
- Transparent government data -> all constituents: property tax, public records, business data, vendor services, open bids, demographics, dashboards, legislative
- Tools that engage citizens and attract visitors and customers -> social media, news, events, attractions, City virtual tours, community recreation services
- Open GIS mapping data and Open APIs -> residents, researchers, data partnerships, developers, real estate agents, contractors and businesses in general
- Actionable Information from business directories and other databases; among other features that foster economic growth and business innovation
Adaptable Security Corp
Lan Jenson
Chief Executive Officer
GCTC Cybersecurity and Privacy Advisory Committee Co-Chair
Trust. Cybersecurity. Privacy.

SMART SECURE SOCIETIES

AFFORDABLE

FAST

GOOD


TRUST
• Independent, non-commercial
• Transparent, Up-to-date
• Intuitive

CYBERSECURITY
• Compliant
• Forward-looking, Risk-based
• Integrated security

PRIVACY
• Modular
• Legally defensible
• Integrated with security

AKA Cybersecurity and Privacy Advisory Committee. A member of NIST GCTC
**SMART SECURE SOCIETIES**

- **Affordable**
  - $0 cost guidebook
  - Rights-inclusive
  - Economy of scale with partners

- **Good**
  - Risk-based, Legally-defensible
  - Latest, Actionable intel
  - Vetted & trusted resources

- **Fast**
  - Reuse
  - Minimum bureaucracy
  - Faster user experience

I3 Systems
Jerry Power
Chief Executive Officer
Co-founder GCTC I3 Consortium
I3 for IOT Network Management

Create an IoT data management hub so that as the IoT network grows, it can be managed centrally by a team of coordinated experts.

Build the data management framework so that the system can be operated in a federated operational environment which includes multiple IT departments, partners, and customers.

Make it easy for applications to find and connect to data sources they need and make it easy for devices to connect to many applications on demand.

Provide tools that facilitate the exchange of data policies, contracts, incentives, and trust ratings so participants can confidently exchange data with increased transparency.

Structure the System for growth. A modularized technology and business model that allows people to start small and grow as the demand for data increases.
Intelligent Video Systems

- Many communities have departmental cameras on city vehicles supporting specific application
- But the data represents an untapped that can be used across all departments.
- Data should be treated as a city asset that supports the entire city.

Graffiti ➔

Objects ➔
Parking Finder Project

• There are many parking options in the Los Angeles region.

• Data comes from different parking management technologies and is used to support a specific parking lot.

• Integration of data allows the creation of an area-wide parking solutions.

• People look at parking as a regional issue – not a parking lot specific issue.

Video Analytics to Detect Open Parking
Link to Traffic Nav System (e.g. Waze)
The following are the points of contact for those interested in participating in the GCTC clusters focused on specific aspects of smart cities systems that embrace inter organizational data sharing:

**Data Hub Group**
- People interested in data sharing between smart city applications
- Heather Crondahl
  <heather.crondahl@gmail.com>
- Heidi Lengdorfer
  <heidi.lengdorfer@alaska.gov>

**Smart City Hub Public Platform**
- People interested in the customer experience of data sharing apps
- Raimundo Rodulfo
  <rrodulfo@coralgables.com>

**Secure Cloud Architecture**
- People interested in security rules and requirements that reach across systems
- Lan Jenson
  <lan@adaptablesecurity.org>

**I3 Consortium**
- People interested in data flow management in cross-organizational systems
- Jerry Power
  <Jerry.power@i3-iot.com>

*For an electronic copy of these slides, send an email request to jerry.power@i3-iot.com*