

# **NCDIT Data Division Enabling Data-Driven Government**

Christie Burris, State Chief Data Officer

Director, Government Data Analytics Center

## Vision

Government that strategically leverages technology for an equitable, prosperous, healthier, and educated North Carolina.

## Mission

Enable trusted business-driven solutions that meet the needs of North Carolinians.

## Priorities

Broadband/Connectivity • Cybersecurity & Privacy • Digital Transformation

## Guiding Principles

Collaboration • Innovation & Creativity • Transparency • Accountability • Agility • Integrity • Customer Focus

# Statewide IT Strategic Plan

**Leverage data assets and analytics to further advance a data-driven government**

## Statewide Goals

### Foster a connected NC to improve opportunities and outcomes for all North Carolinians

- Provide resources to our partners in the private, not-for-profit, and public sectors to expand broadband and increase digital equity
- Collaborate with partners to establish guidance and policy to improve the digital landscape
- Develop better data mapping of served, unserved, and underserved populations
- Enhance 911 capabilities across the state
- Support improved health outcomes through the adoption of innovative technologies
- Improve access to online learning opportunities for all of NC's students while ensuring data privacy
- Foster and promote digital government

### Transform the delivery of services

- Enhance service management by improving transparency, and streamlining and securing day-to-day operations
- Adopt broker service model and supporting capabilities
- Improve our ability to forecast the needs of our customers
- Develop and implement a new funding model for IT in the state
- Develop scalable services that meet the current and emerging needs of our customers
- Invest in modern authentication services to support the state's current and future needs

### Optimize and secure the state's IT and application portfolios

- Leverage the Enterprise Portfolio Management Tool to identify technology convergence opportunities across the state
- Implement enterprise IT governance to optimize IT investments
- Develop a statewide resiliency and security plan for critical applications for all levels of government
- Make strategic decisions about our portfolio based on the needs of the business
- Modernize state infrastructure to broadly include cloud and on-demand models and supporting capabilities
- Develop an application modernization program

### Promote an inclusive and innovative workforce

- Attract, develop and retain a skilled and diverse workforce
- Establish a culture of empowerment and collaborative thinking
- Invest in people through increased training and education opportunities
- Develop and implement advancement opportunities for our employees
- Create a succession strategy for IT staff to ensure continuity of service across the enterprise
- Improve communication and transparency with employees

- Provide data analytics and insights for more informed decision-making
- Execute enterprise data governance strategies to promote data sharing while ensuring data privacy and security
- Inventory critical data assets across the enterprise
- Implement an enterprise data management program that addresses data standards, quality and accessibility
- Expand the use of modern data visualization capabilities to track performance and impacts

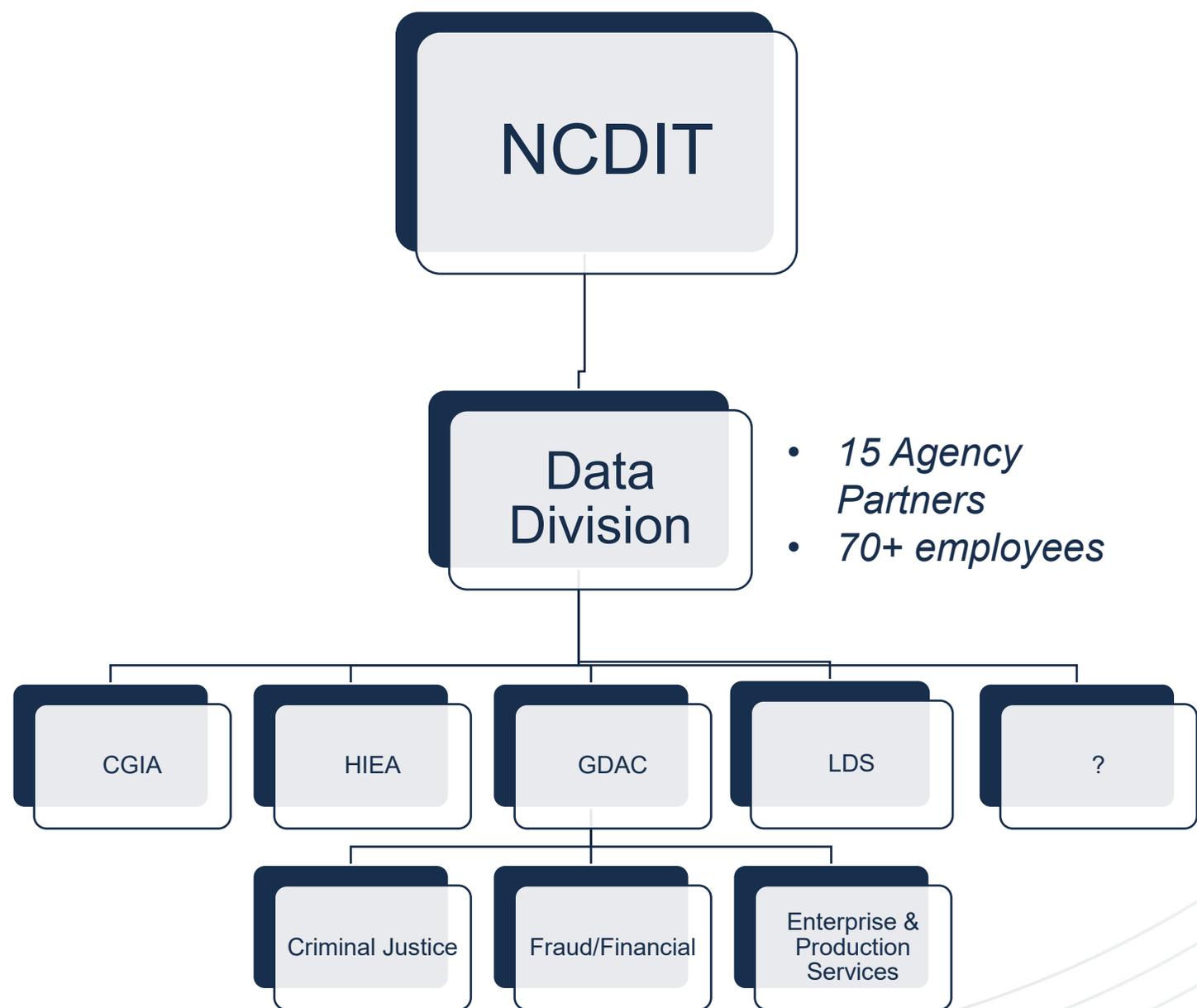
# NCDIT Data Division

## Vision

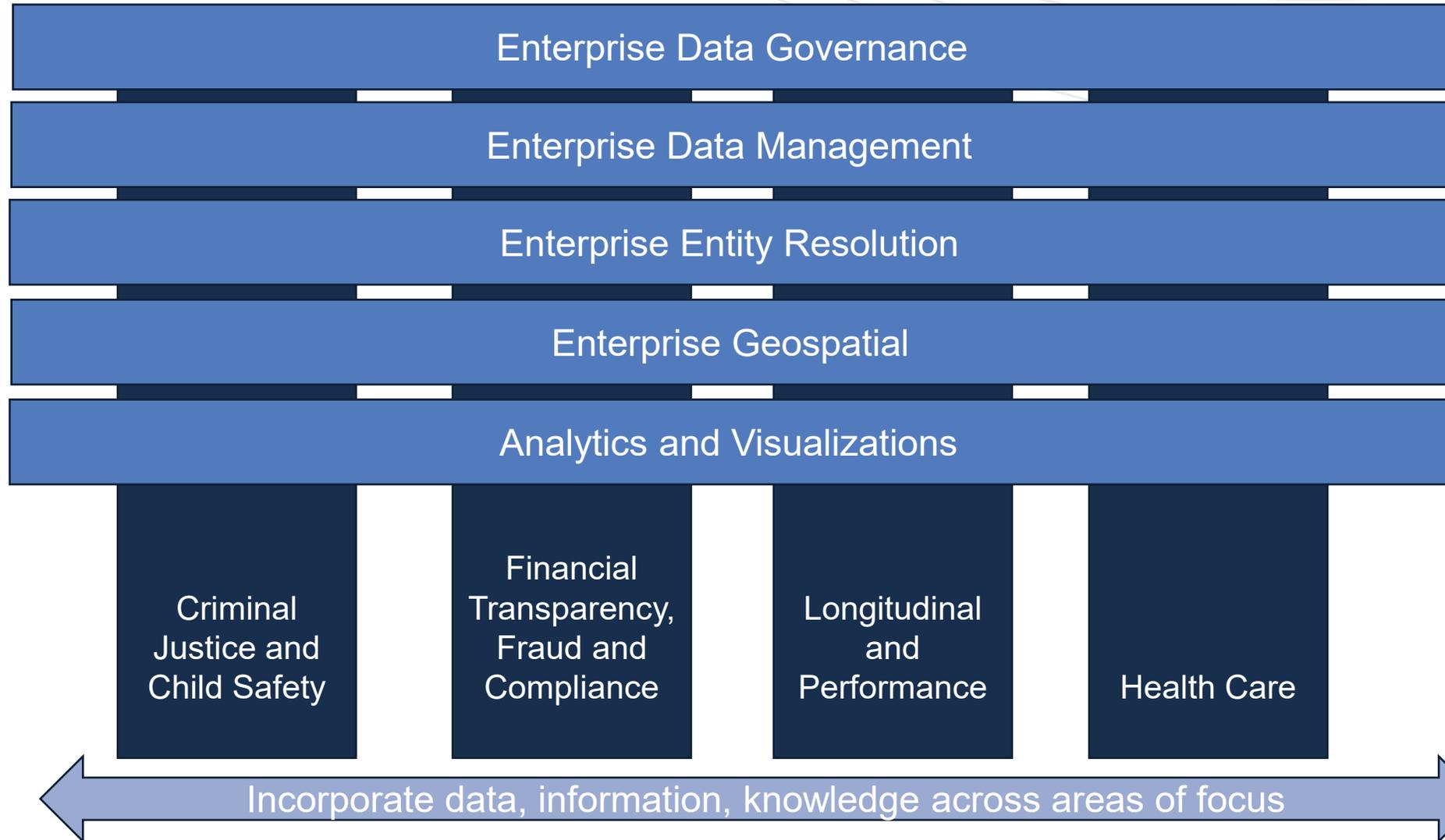
- Trusted partner and leader for enabling the sharing of data assets

## Mission

- Transform data into information to facilitate decision support, increase operational efficiencies, and improve outcomes for the citizens of North Carolina by integrating and sharing data assets.



# Organizational Focus



# Guiding Principles



# **Government Data Analytics Center Enabling Data-Driven Government**

Nitya Ganapathy  
Analytics Director

# Government Data Analytics Center (GDAC)

A key function of the GDAC is the management of data sharing and integration initiatives, including “identifying opportunities where data sharing and integration can generate greater efficiencies and improved service delivery” by state agencies, institutions and departments.

## Services:

- Data Integration
- Data Reporting - Analytics as a Service, Fraud/Compliance Reporting, Forecasting
- Warehouse Analytics Environment
- Data Integration Portals
- Case Management Systems
- Entity Resolution – NC eLink

# GDAC - Criminal Justice and Public Safety Portfolio

- **CJLEADS** – secure search application with a centralized database of comprehensive and up-to-date information helps state and local government public safety professionals reduce risk and increases safety in our communities
- **Department of Adult Corrections (DAC)** – Violent Risk Model for inmates providing risk score along with Prison Alerts, Housing Analysis, Threat Group Analysis
- **Department of Justice Consumer Protection Division** – Implements a case management solution to intake consumer complaints from citizens
- **NC Department of Insurance's Fraud Control Group** – a secure environment for investigation case management, robust reporting and analytics, and data integration with other systems

# GDAC - Financial, Fraud, & Child Well-Being (FFC) Portfolio

- **Division for Employment Security with the Dept. of Commerce** – leverages the NCFACS fraud framework for identity theft, claimants, tax fraud alerting for DES unemployment insurance
- **Dept. of Public Safety Division of Juvenile Justice and Delinquency Prevention** – Implemented and currently maintaining the service directory portal and data linking/matching support for multiple research projects
- **DOA, OSBM, OSC** – Cross agency initiative: OpenBudget, eProcurement and HUB report migration/update from NCAS to NCFS data
- **NC Integrated care for Kids** – cross-agency collaboration with DHHS, DPI and DACJJ with Duke team leading the program
- Additional analytics projects with the **Department of Agriculture, Alcohol Beverage Control Commission**

# **Center for Geographic Information & Analysis** **Enabling Data-Driven Government**

Tim Johnson, State Chief Geographic Information Officer  
Director, CGIA

# N.C. Center for Geographic Information & Analysis



**NCGICC**

For over forty years, the CGIA's mission has been to advance the use of geographic information systems (GIS) technology as a tool for better decision-making in North Carolina. We accomplish this by coordinating statewide geospatial initiatives through the NC Geographic Information Coordinating Council (NC GICC), resulting in cost-effective ways to create, access, and apply geographic data and technology.

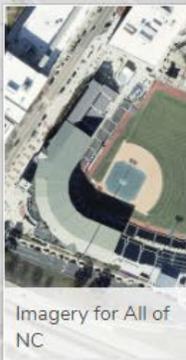
**March 19-21 – Winston-Salem – Save the Date!**

<https://it.nc.gov/about/boards-commissions/gicc/cgia>



## Statewide Data Initiatives

Learn how statewide efforts are creating data for a better North Carolina



Imagery for All of NC

### Orthoimagery in NC

Funded by the NC911 Board, the NC Orthoimagery Program collects high-resolution orthophotography for a quarter of the state each year. This imagery can be used as a background for maps and visualizations or as a reference to create data such as buildings, roads, or open spaces - virtually anything visible in the image.



[Preview and download the most recent imagery.](#)



High Speed Access

### Broadband

Mapping broadband in North Carolina identifies current access and adoption. This allows state and local governments to dedicate resources necessary for economic development, closing the homework gap, and enhancing emergency communications. Accurate mapping ensures that funding is targeted to areas in need.



[High-speed internet access for North Carolina.](#)



Standard Attributes

### NC Parcels

The NC Parcels project transforms parcel data from all 100 counties and the Eastern Band of the Cherokee Indians into a statewide data set with standardized attributes. Parcels supports a number of key industries such as economic development and emergency management.



[Browse parcels from the mountains to the coast.](#)



911 Response

### Next Generation 911

NC DIT and the 911 Board are working to bring NG911 to North Carolina, featuring the ability to send emergency responders directly to the 911 caller's exact location, even if the person is calling or texting with from cell phone. There are multiple benefits to this technology and GIS plays a role.



[Learn more about Next Generation 911.](#)

# **Longitudinal Data Service Enabling Data-Driven Government**

Trip Stallings

Executive Director

# A Quick Overview of the North Carolina Longitudinal Data Service

## I. What is the NC Longitudinal Data Service?

- A data exchange and research **strategic partnership** of data-contributing state agencies and organizations;

NCLDS is a data **connector**, *not* a data holder—NCLDS *links* data from two or more data-holders

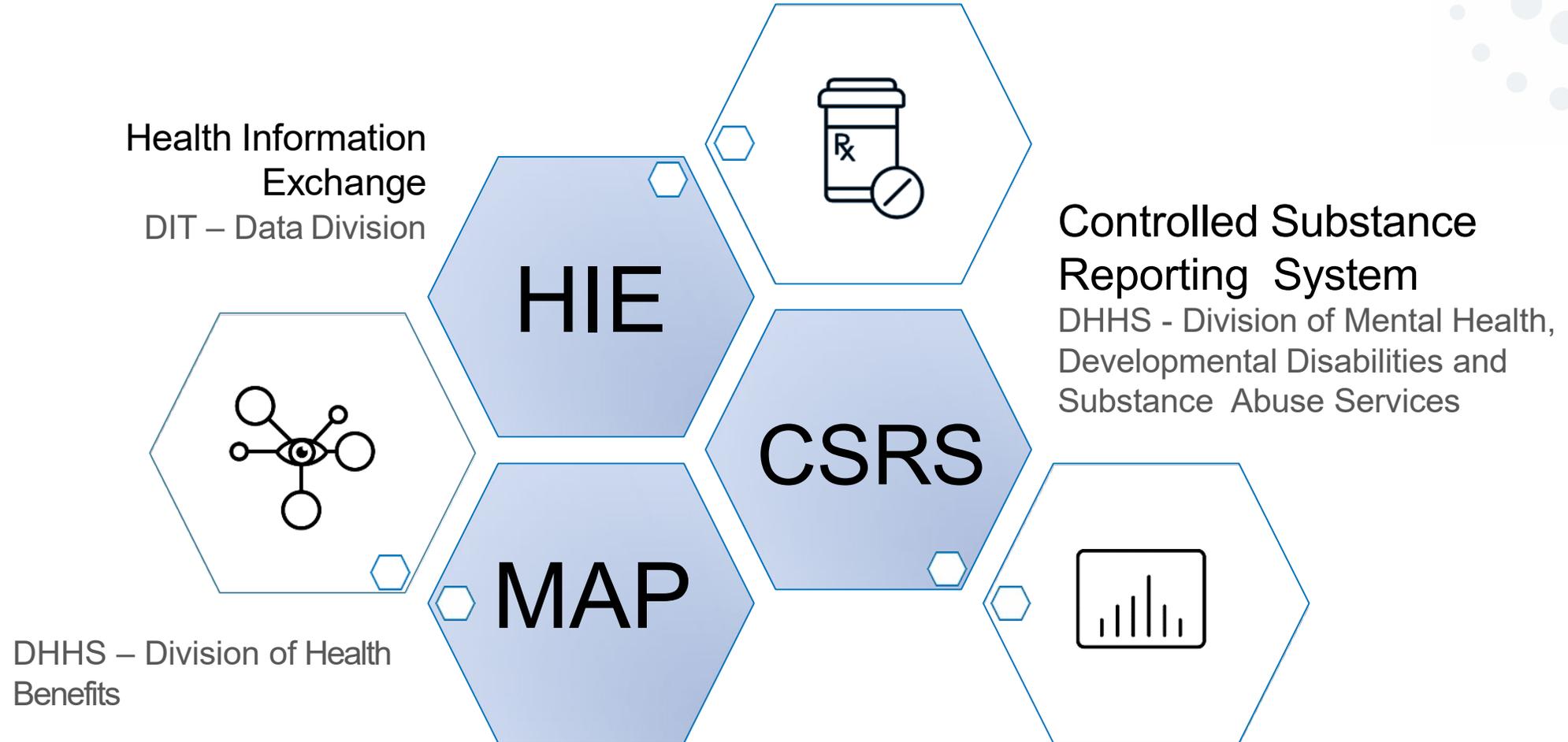
- A **process** for linking, de-identifying, and packaging cross-sector data;
- A **tool** for securely delivering those data to Partners, other State Entities, Researchers, and Practitioners for research, evaluation, decision-making, & reporting; and
- A **common space** for coordinating cross-sector, longitudinal learning goals for NC.

**Current Partners:** DHHS, NCDPI, NCCCS, NCICU, UNC, Commerce

# Health Information Exchange Authority Enabling Data-Driven Government

Sam Thompson  
Executive Director

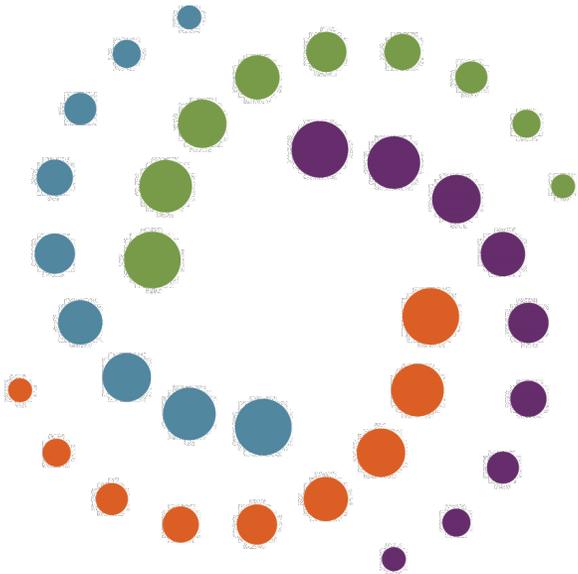
# Health Care Portfolio



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# NC HealthConnex by the Numbers

**We connect health care providers to safely and securely share health information through a trusted network to improve health care quality and outcomes for North Carolinians.**



## NC HealthConnex by the Numbers:

- 60,000+ providers with contributed records
- Thousands of health care facilities live submitting data, including 145 hospitals
- 6,000+ health care facilities in onboarding
- 150 million+ continuity of care documents (CCDs)
- 14 million+ unique patient records with clinical documents
- 80 Electronic Health Record (EHR) vendors live
- 25+ border and interstate HIEs connected via the eHealth Exchange and the Patient Centered Data Home, including connections to the VA and DoD

# NC HealthConnex Value-Added Services

## Exchange

Discover new opportunities to exchange patient records and improve patient outcomes through the NC HealthConnex Clinical Portal.

## NC\*Notify

Gain significant insights into patients' health care activity across North Carolina. NC\*Notify is a subscription-based service that notifies providers as their patients receive services across the care continuum.

## Controlled Substance Reporting System

NC HealthConnex is working with the N.C. Department of Health and Human Services and Appriss Health to combat the opioid epidemic in North Carolina.

## Promoting Interoperability & Meaningful Use

NC HealthConnex helps providers meet specific requirements and measures set by the Centers for Medicare and Medicaid Services.

## Public Health Reporting

Access reporting through the N.C. Immunization Registry, Diabetes Registry and Electronic Lab Reporting.

## Direct Secure Messaging

This encrypted email tool allows clinicians to send patients' protected health information through a secure network.

## Data Quality

The NC HIEA places strong emphasis on NC HealthConnex's data quality.

## Training

NC HIEA offers training for using the clinical portal, direct secure messaging and other HIE features.

## NC HealthConnex Suite of Services

Foundation

Exchange

Notifications

Pop Health & Analytics

# Enabling Legislation

## Supporting a Statewide Data Strategy

- **Government Data Analytics Center – N.C.G.S. 143B-1385**
  - Manage and coordinate enterprise data integration efforts
  - [GS\\_143B-1385.pdf \(ncleg.gov\)](#)
- **Health Information Exchange Authority - N.C.G.S. Chapter 90-414**
  - Statewide health information exchange network for the secure electronic transmission of health information
  - [Article\\_29B.pdf \(ncleg.gov\)](#)
- **Educational Longitudinal Data System - N.C.G.S. Chapter 116 E**
  - Linkage of student data and workforce data
  - [Chapter\\_116E.pdf \(ncleg.gov\)](#)
- **Geospatial Data - N.C.G.S. Chapter 143B-1420**
  - Center for Geographical Information Analysis

# Looking Ahead

- Formation of an Enterprise Data Coordinating Council
- Focus on people and processes needed to mature data governance and ensure data is “AI ready”
- Procurement of tool/set of tools to enable data discovery, inventory, classify, and catalog for improved visibility, enhanced security, privacy protections/regulations, and empowered business users
- Administration transition preparation

“Data is shared at the speed of trust.”



# Thank You!