

CONNECTED DMV

a smart region movement

Region Forward Coalition Connected DMV Briefing

January 24, 2020

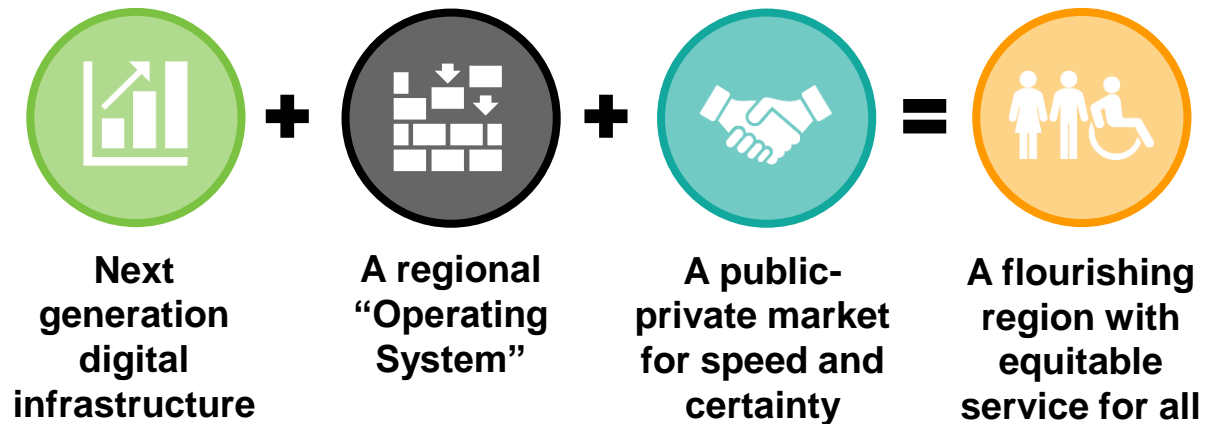


What is CONNECTED DMV ?



The most significant public-private-academia collaboration defining how regions will thrive for the next 100 years

Interoperable, trusted, secure, expedited, innovative, standardized, at scale



INDUSTRY PARTNERS

CONNECTED DMV GOVERNING MEMBERS

Industry



GREATER WASHINGTON
Board of Trade

300+ companies & organizations

Government



Metropolitan Washington
Council of Governments

24 jurisdictions

Academia



Consortium of Universities of the
Washington Metropolitan Area

17 colleges & universities

Regional Transit & Assets



Washington
Metropolitan Area
Transit Authority
(WMATA)

Regional Security & Resilience



Military District of
Washington /
JFHQ – National
Capital Region

PUBLIC SECTOR PARTNERS

COMMUNITY & REGIONAL PARTNERS

ACADEMIA PARTNERS

Global Cities Team Challenge (NIST, NTIA, DHS)



Smart Cities Week Conference (Smart Cities Council)



WeDC Futures Forum (Wash. DC Economic Partnership)



- Connected DMV Team & Booth
- Facilitated GCTC Smart Regions Visioning Session

- Jack McDougle, GWBOT
- Chuck Bean, MWCOCG
- Shyam Kannan, WMATA

- Connected DMV Solution Group Chairs (MedStar, Pepco, Virginia Tech, Capital Area Food Bank)

“The DMV Smart Region Movement is at the leading edge of regional governance. Issues like data sharing and aggregating demand for improved financing are key to creating a smart region.”

–Philip Bane, Managing Director, Smart Cities Council

Potential Benefits

- Narrow the digital divide
- Establish standards for interoperability
- Realize economies of scale
- Extend public budgets with private financing
- Leverage domain and technical expertise
- Enhance regional collaboration
- Improve resident & visitor experiences
- Drive jobs and economic development

Unique Elements

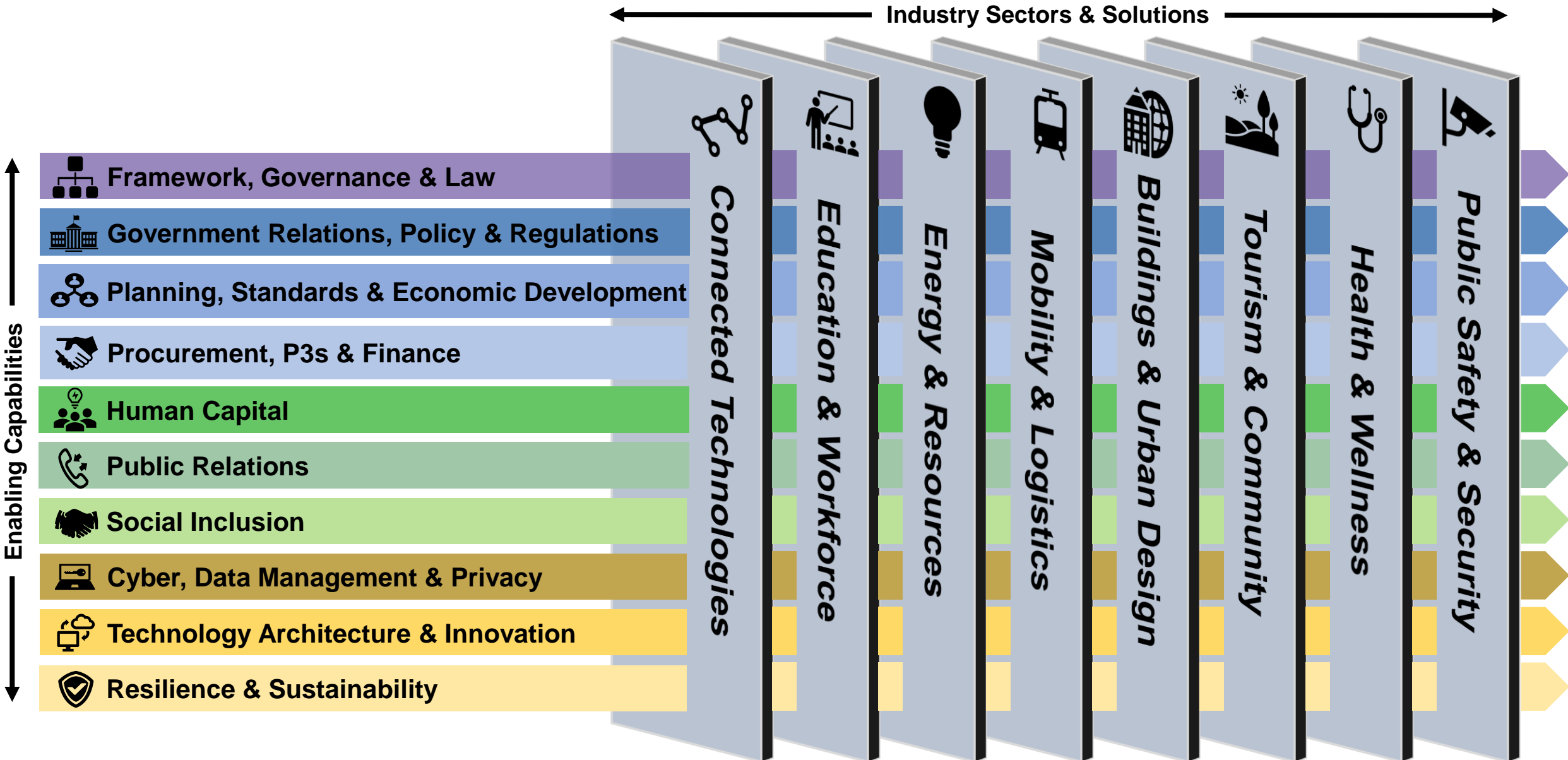
- Broad public-private-academic collaboration
- Integrated regional framework
- Public sector shared service capabilities
- Connectivity as one means to lift the region
- Resident-centric perspective
- Comprehensive view of inclusivity
- Consortium of 17 colleges and universities

A Socially Inclusive Smart Region

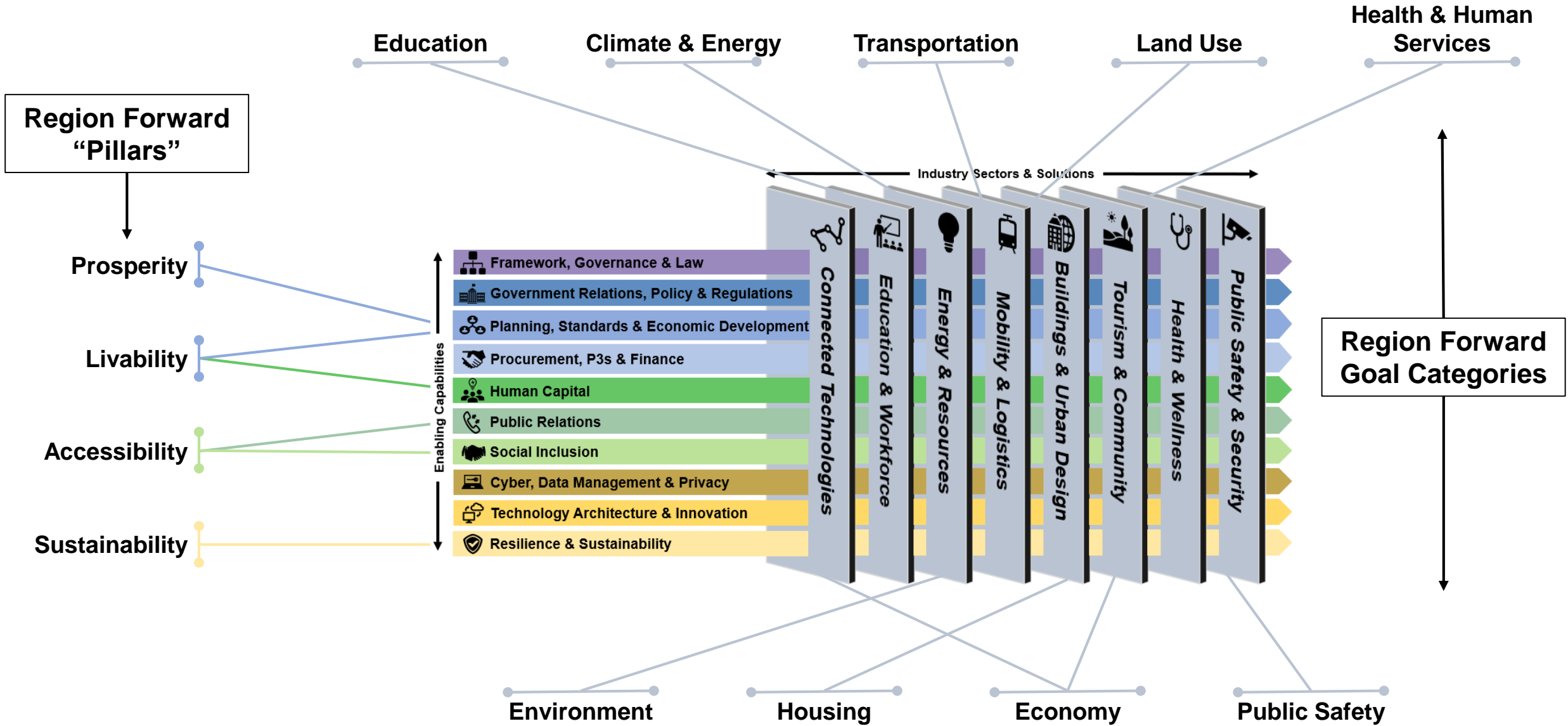
Enhancing connectivity, inclusive economic growth, and livability for all



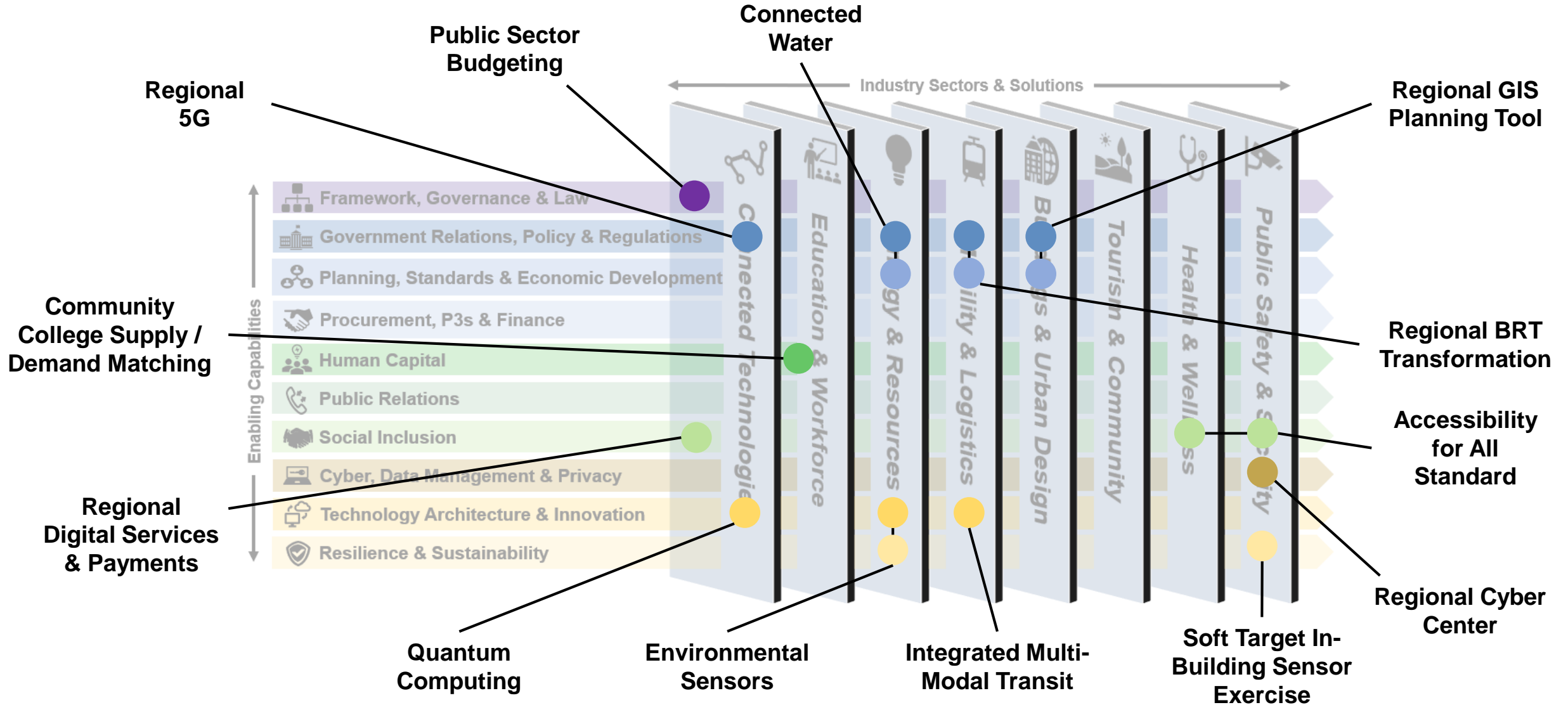
Regional Framework



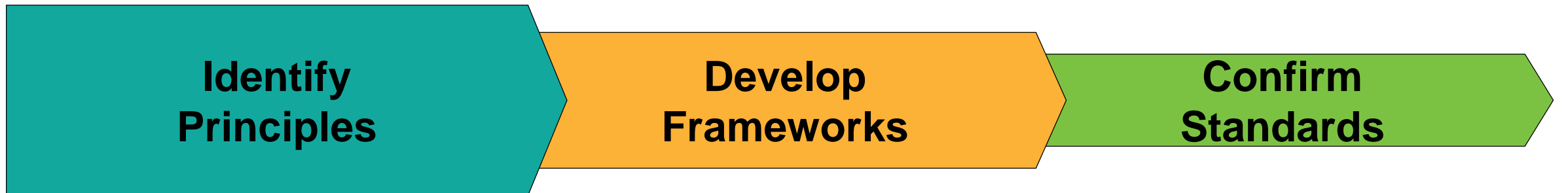
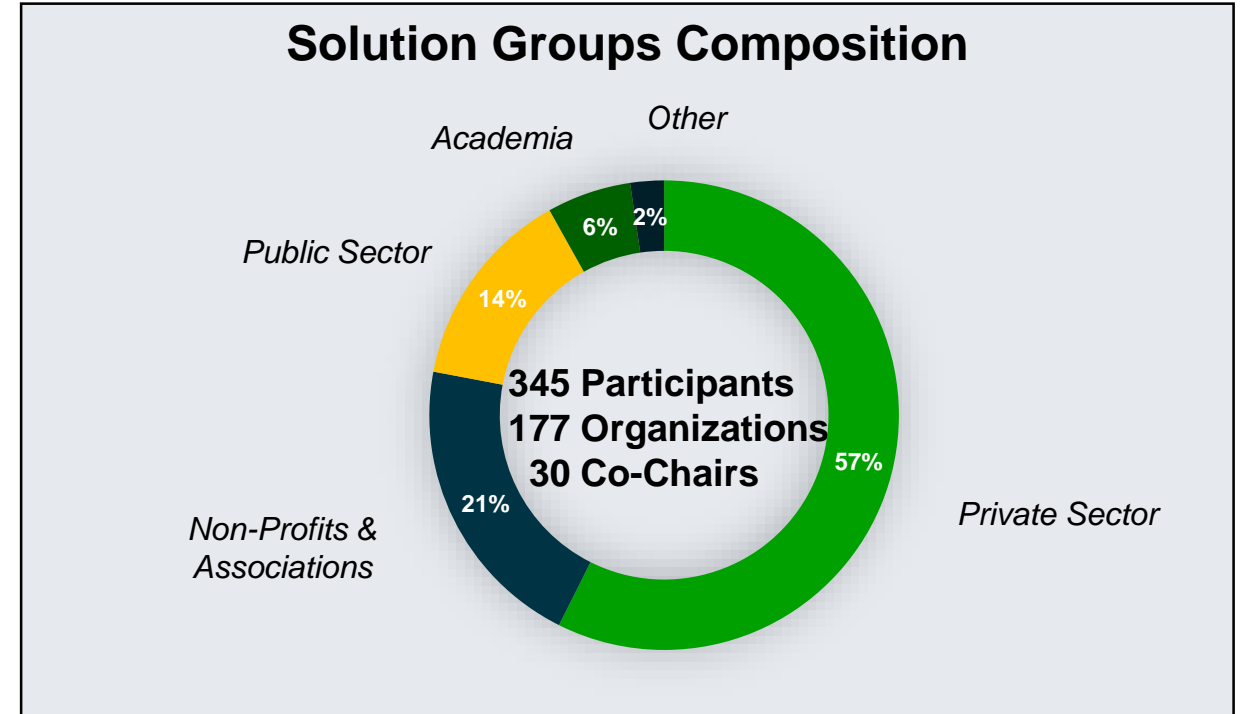
Alignment with Region Forward Goals



Representative Projects



Engagement Model	Solution Groups
Objectives	<ul style="list-style-type: none"> • Engagement • Design Input • Momentum
Governance	Marketplace Co-Chairs



- Presented Guiding Principles and Reference Architecture Framework to COG CIO Committee
- Confirmed support from COG CIO Committee
- Identified action plan to receive and incorporate COG CIO Committee feedback (in progress)

Identify Principles

Develop Frameworks

Confirm Standards

Technology Architecture

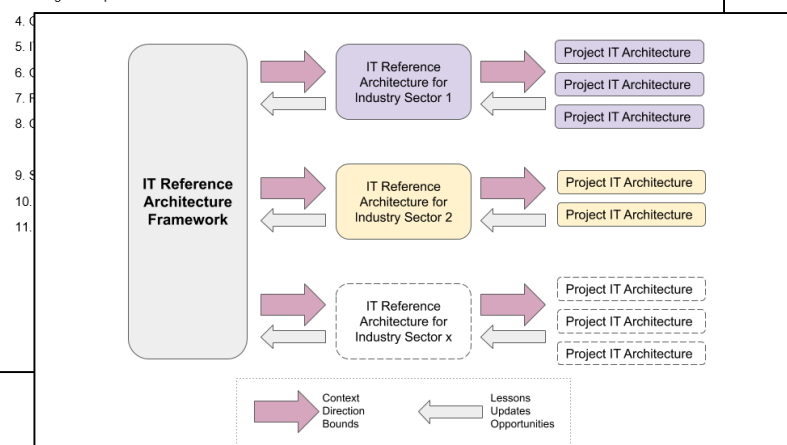
- WHEREAS** Connected DMV was launched to shape a robust and responsible strategy to establish Greater Washington as the nation's leading digital region;
- WHEREAS** Connected DMV's vision is to enable an inclusive, trusted, secure and sustainable digital environment for our region that improves how we live, work, learn, connect and prosper;
- WHEREAS** Connected DMV fosters broad-scale collaboration among public sector institutions, businesses, academia, community and regional organizations with all key constituencies represented to achieve its mission and vision;
- WHEREAS** The Greater Washington Board of Trade, the Metropolitan Washington Council of Governments, the Consortium of Universities of the Washington Metropolitan Area, the Washington Metropolitan Area Transit Authority, and the Military District of Washington form the core of the comprehensive public-private-academia collaboration;
- WHEREAS** Life and commerce happen regionally in Greater Washington, Connected DMV seeks to protect the uniqueness and integrity of our individual jurisdictions as we enable an aligned and durable digital infrastructure for all;
- NOW, THEREFORE**, we, the undersigned, as representatives of the Connected DMV initiative, do hereby proclaim our support for these **Technology Architecture Principles** in order to establish a unified Information Technology Reference Architecture Framework that drives the standardization, consistency, and interoperability of regional digital solutions:
- **Modular and Scalable.** System components will be designed in a modular way so they can be replaced as new needs emerge and/or new technologies become available.
 - **Distributed.** The technology architectures will include distributed fog/mesh/edge architecture with self-healing and fault tolerance to provide highly available services.
 - **Multi-Vendor.** Technology choices will avoid being overly dependent upon single vendor, to the extent possible and consistent with achieving efficiency, and will seek to use open standards-based resources.
 - **Reliable.** Service providers and solution operators should have business plans that demonstrate an ability to deliver their services or solutions over an appropriate time horizon and should account for technology innovation, decommissioning, and replacement, as appropriate.
 - **Secure.** Privacy and security protocols will be designed in, and integrated from, the outset.
 - **Interoperable.** The technology architecture will be designed to provide for regional resilience and interoperability.
 - **Integrated.** Regional data and services will be shared as appropriate to obtain the efficiencies and benefits of a high-performing region.



IT Reference Architecture Framework Version 2.0

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Level 1: Strategic. Standards that provide guidance to city leadership and other bodies on the “process of developing a clear and effective overall smart city strategy”.

Level 2: Process. Standards focused on procuring and managing smart city projects, and in particular those that cross both organizations and sectors.

Level 3: Technical. Standards that cover the myriad technical specifications that are needed to actually implement smart city products and services so that they meet the overall objectives.

- “Connected DMV” is helping to improve and extend public services
- It is about regional outcomes -- technology is a vehicle
- Our region requires an *integrated* operating system
- The region is already collaborating at scale
- We are progressing from Strategy into Design
- The approach anticipates emerging technologies
- Solution Groups are our engagement and support mechanism
- This should become the national standard

Better Together

CONNECTED

DMV a smart region movement

Thank you!

