

VIRGINIA'S I-64 INNOVATION CORRIDOR: RICHMOND REGION AND HAMPTON ROADS

The World's Next Global Internet Hub

I-64 INNOVATION CORRIDOR

A handful of locations around the world make the world wide web work. They are called Global Internet Hubs, and all are thriving cities. But this is about to change.

The world's next Global Internet Hub isn't a single city but rather an area from the Richmond region to Hampton Roads. Known as the I-64 Innovation Corridor, located just two hours south of Washington, D.C., this 8,000 square mile megaregion has a combined population of 3 million-plus residents, placing it among the top 20 largest U.S. regions.

Global Internet Hubs have seven core interrelated components that define their world-class digital infrastructure. As highly collaborative neighboring localities, Richmond and Hampton Roads have all seven of these components and more, putting the I-64 Innovation Corridor on the global interconnection hub map while delivering the fastest, most reliable, and cost-effective digital services to everyone who calls this corner of the world home.

1 Reliable and Sustainable Power
 Dominion Energy

- 23% of Dominion Energy's output powers data centers today
- Dominion Energy has the capacity to support digital infrastructure growth for years to come
- Dominion Energy is committed to achieving net zero emissions by 2050

RICHMOND REGION
 (1.3 million residents)

3 Internet Exchanges (IXs)

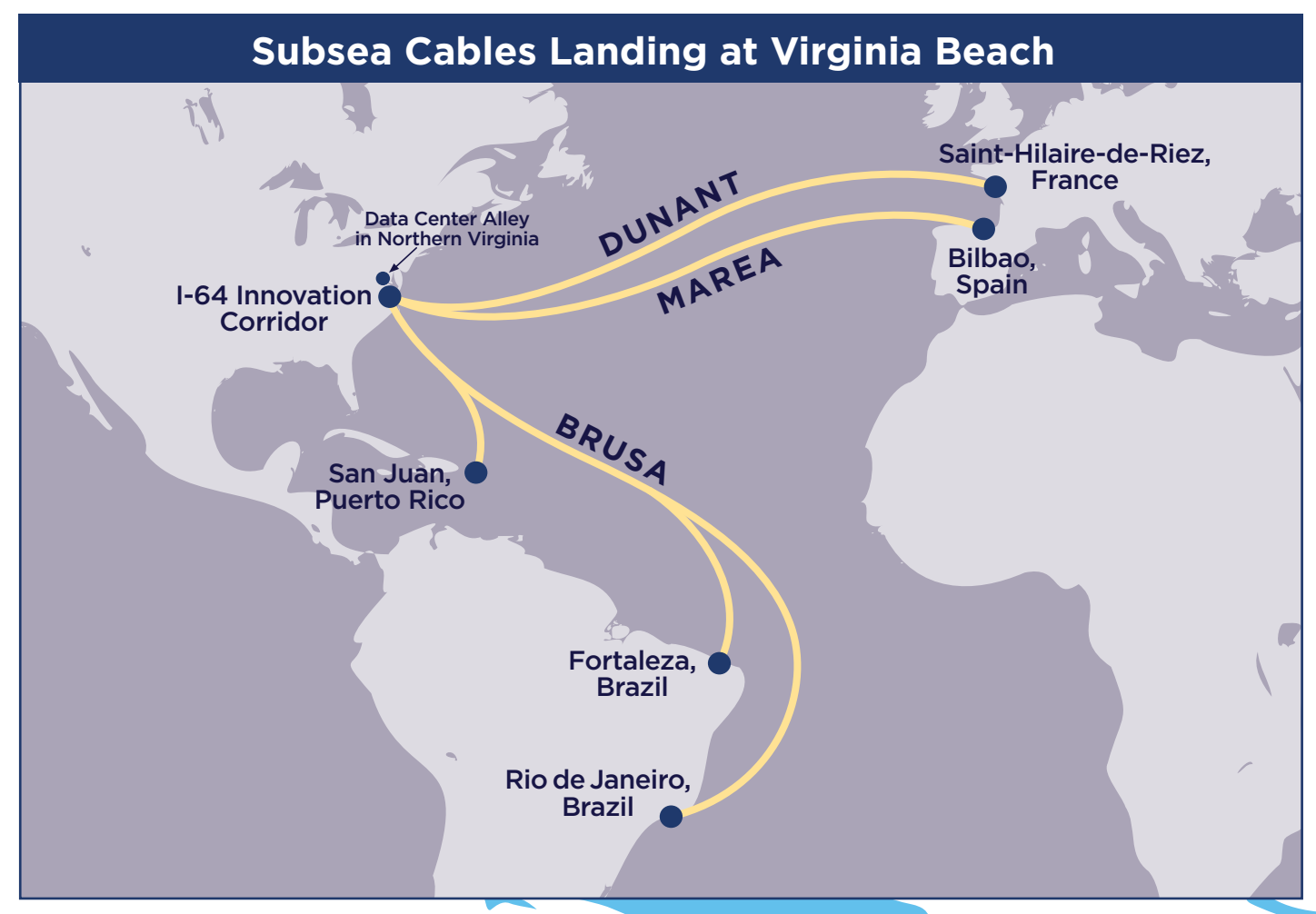
- One Internet Exchange - DE-CIX - in Richmond area
- DE-CIX connects carrier and data center neutral Internet Exchanges in the U.S. - New York, Dallas, Chicago, Phoenix and Richmond - and connects to 40 IXs worldwide, 3,000-plus networks, and 500-plus data centers

4 Growing Number of Data Centers

- 12 data centers operate in the megaregion
- More data centers are planned
- Two world-class data centers

10 Largest Global Internet Hubs
 (Defined as Metropolitan Markets for International Internet Bandwidth)

1. Frankfurt
 2. Singapore
 3. London
 4. Amsterdam
 5. Paris
 6. Hong Kong
 7. Marseille
 8. Stockholm
 9. Miami
 10. Vienna
- Source: TeleGeography



Cybersecurity Expertise

The I-64 Innovation Corridor stands as a beacon of cybersecurity excellence, bolstered by its rich history of military and defense expertise. This megaregion seamlessly integrates advanced digital safeguards with its expansive digital infrastructure. Tens of thousands of experienced cyber security and national security employees work in the I-64 Innovation Corridor, one of the greatest concentrations of cyber experts in America. For instance, the Richmond area is home of the Federal Reserve's National IT organization - a nationwide team delivering technology solutions and support across the Federal Reserve System including cybersecurity/cyber intelligence positions.

Virginia's I-64 Innovation Corridor Digital Assets	
Data Centers	Innovation Center
Data Center and DE-CIX Internet Exchange	
Digital Assets	
Power	

The Megaregion's Educational Assets		
The I-64 Innovation Corridor is home to many universities, community colleges, and trade schools:		
Brightpoint Community College	Hampton University	Tidewater Community College
Bryant & Stratton College	Norfolk State University	University of Richmond
Camp Community College	Old Dominion University	Virginia Commonwealth University
Centura College	Randolph-Macon College	Virginia Peninsula Community College
Christopher Newport University	Regent University	Virginia State University
Eastern Shore Community College	Reynolds Community College	Virginia Union University
ECPI	Richard Bland College	Virginian Wesleyan University
Fortis College	South University	William & Mary

Megaregion Digital Infrastructure Providers

1 Energy: Dominion Energy

2 5 Network Carriers and Communications Providers: AOC CONNECT, allied, ALL POINTS BROADBAND, Arelion, AT&T, cogent, COMCAST, COX, CROWN CASTLE, glofiber, GTS, GLOBAL TECHNICAL SYSTEMS, GTT, Hosted BACKBONE, HURRICANE ELECTRIC INTERNET SERVICES, LUMEN, LUMOS, Megaport, METRO FIBER NETWORKS, INC., Mid-Atlantic BROADBAND, orange, PACKETFABRIC, SEGRA, Spectrum, SummitIG, TELCOM SYSTEMS, TELXIOUS, T-Mobile, THE LINK, UNITAS GLOBAL, Uniti Fiber, verizon, SkyWire, windstream, zayo

4 Data Centers in Richmond: BANK OF AMERICA, CHIRISA, edgeconnex, FLEXENTIAL, INFOTEL, LUMEN, Meta, PIXEL FACTORY, QTS

4 Data Centers in Hampton Roads: edgeconnex, GLOBALINX, ZONE5

3 Internet Exchange: DE-CIX

Software-Defined Networking Providers: Megaport, MOX, PACKETFABRIC

7 Subsea Cables: BRUSA, DUNANT, MAREA

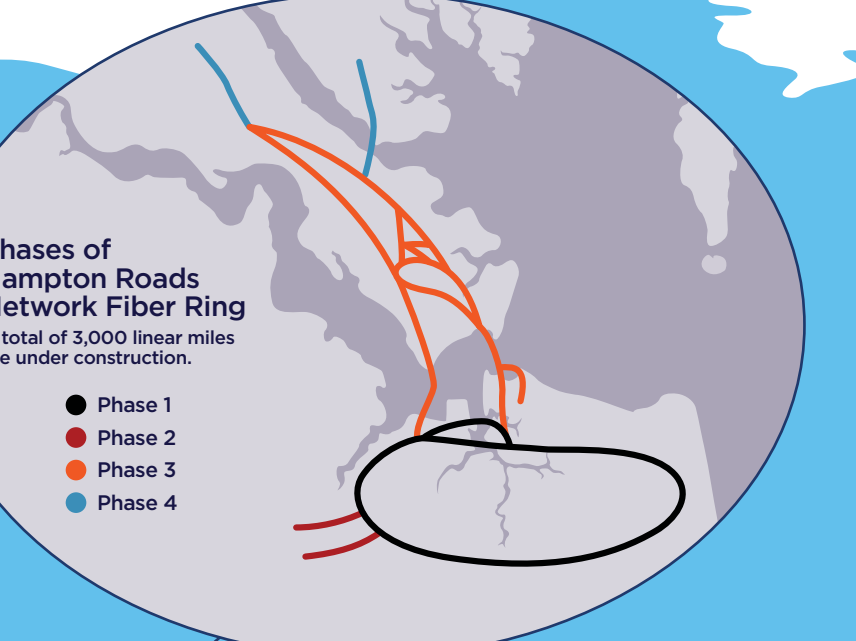
WILLIAMSBURG

HAMPTON ROADS REGION

(1.8 million residents)

6 Network Ring

- Virginia Beach, Chesapeake, Portsmouth, Norfolk, and Suffolk are building a 119-mile fiber ring (managed by the Southside Network Authority) that is expected to be completed in the summer of 2024. An extension also is under construction to Isle of Wight and Southampton counties (administered by the Hampton Roads Planning District Commission).
- Includes eventually connecting all 17 cities and counties in Hampton Roads
- Connects government centers, universities, health systems, and large business parks
- Supports "last mile" service to underserved neighborhoods



7 Access to Subsea Cables

- Three subsea cables come ashore in the Camp Pendleton area of Virginia Beach:
 - MAREA (connects to Spain; opened May 2018)
 - BRUSA (connects to Brazil and Puerto Rico; opened August 2018)
 - DUNANT (connects to France; opened January 2021)
- Capacity for a fourth subsea cable at Camp Pendleton
- The City of Virginia Beach has approved a planned second landing site in the Sandbridge area for four subsea cables

RVA757 connects For more information, contact Gregory Gilligan at Greg.Gilligan@rva757connects.com

Dominion Energy's Planned Offshore Wind Project (Construction planned to begin in 2024 and be completed in 2026)