

# **Board of Directors** & MIC Meeting

• • •

Sept. 15, 2021



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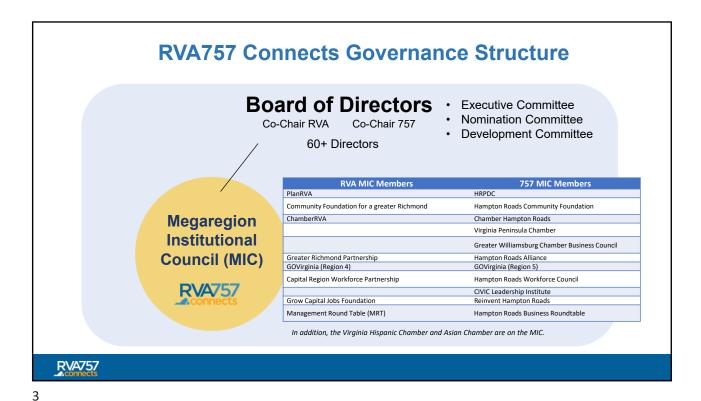
# Welcome

Theodore L. Chandler, Jr.

5 Minutes



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### Recall Our New Arrivals: June 2021 New Board Members





Monique Adams, Executive Director, 757 Angels



Glenn DuBois, Chancellor, Virginia's Community Colleges (VCCS)



Javaune Adams-Gaston, President, Norfolk State University



Stephen A. Edwards, CEO & Executive Director, The Port of Virginia



Robby Demeria, Chief of Staff, Phlow Corporation

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# Now Let's Welcome Our Newest Directors and MIC Members

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5

# Welcome New MIC Member

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Makola M. Abdullah
President
Virginia State University



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Calvin W. "Woody" Fowler, Jr.
Partner
Williams Mullen



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7

# **Welcome New Director**

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Greg Garrett
Senior Partner/CEO
Garrett Realty Partners



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William R. Harvey
President
Hampton University



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9

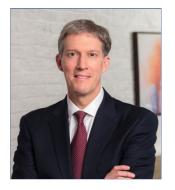
# **Welcome New Director**

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Todd P. Haymore

Managing Director

Hunton Andrews Kurth



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Brian O. Hemphill
President
Old Dominion University



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11

# Welcome New MIC Member

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Maurice A. Jones
Chief Executive Officer
OneTen



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Alan Witt
Dean
Luter School of Business
Silas O. and Myrtle S.
Jennings Professor of
Business



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13

# Welcome Aboard & Thank You

Nominating Committee Executive Committee

# **How We Can Fuel Our Early Momentum**

- 1. Continue your commitment
- 2. Continue your intellectual and financial support
- 3. Engage in your area of interest



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15

### Participate in very short (1 Min.) follow-up survey after this meeting:

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What areas would you like more information on and be part of as we move forward?

### **2021 Priorities**

**Advance** Innovation Corridor positioning

**Implement** Talent Pipeline Study

**Accelerate** understanding of digital connections

Showcase member initiatives

**Increase** research and development collaboration

**Support** Virginia Capital Trail completion

**Remove** passenger barriers on rail services

Advocate for widening of I-64

### **Initiatives**

Advance RVA757 Connects' communications efforts

Advance new wave of Grant Applications:

- · Apprenticeships
- Industry Clusters
- Global Internet Hub

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# **Our Agenda**

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**Welcome –** Theodore L. Chandler, Jr. 5 Minutes

**Development Committee Report** – Jim Kibler and Mitch Haddon 5 Minutes

Quick Updates – John Martin 10 Minutes

**Becoming a Global Internet Hub** – Invited Experts 45 Minutes

Breakout Session – Small Groups 40 Minutes

**Group Report Outs and Next Steps** – Thomas R. Frantz 15 Minutes

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**Our Goal** 

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\$500K

**Annual** goal to become self-sustaining\*

\*Community Foundations' support is start-up related

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# **Our Development Committee**

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Jim Kibler (Next Paradigm Advisors, LLC) - Co-Chair (757)

Mitch Haddon (ColonialWebb Contractors Company) - Co-Chair (RVA)

Shawn Avery - Hampton Roads Workforce Council

Anne Conner - TowneBank

**Dawna Ellis - Harvey Lindsay Commercial Real Estate** 

**Ross Grogg - Kemper Consulting** 

Brad Hulse - Hourigan

Martin Joseph - 360 IT Partners

Brian Rountree - Bank of America

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21

# **2021** Fundraising Success (so far)

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Dominion: \$75K Bank America: \$10K ColonialWebb: \$10K

HRCF: \$100K Stihl: \$10K Hourigan: \$5K

CFgR: \$50K Virginia Port Authority: \$25K Harvey Lindsay: \$2.5K

VNG: \$25K Franklin Johnston Group: \$10K Individuals: \$12.5K

LifeNet: \$10K

\$345K

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22

# **Immediate Next Steps**

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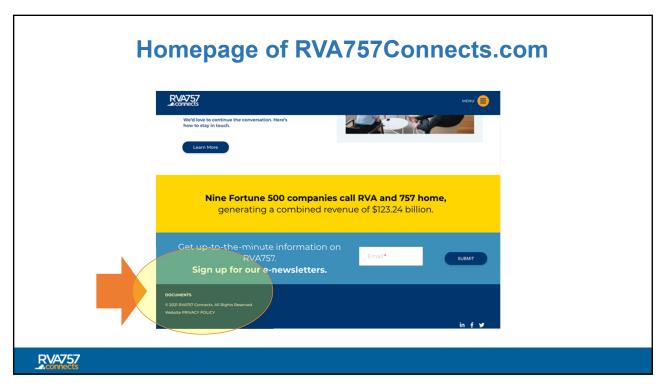
- Continue to approach and engage board and MIC members.
- Add new members to our outreach.
- Lock in 2022-2023 funding recall all gifts are annual commitments for 3 years.
- Formulate plans to go beyond board and MIC.
  - Corporate
  - Foundational

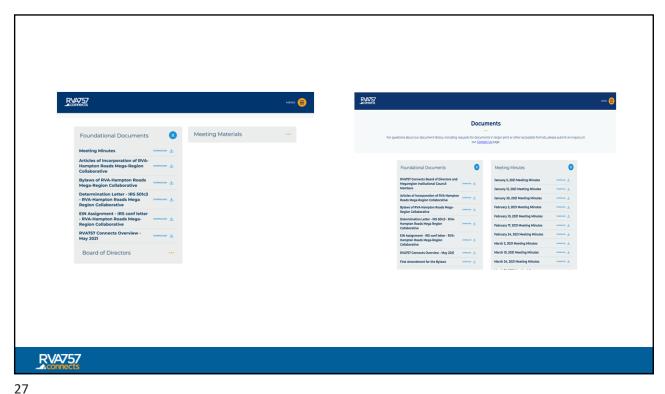
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23

















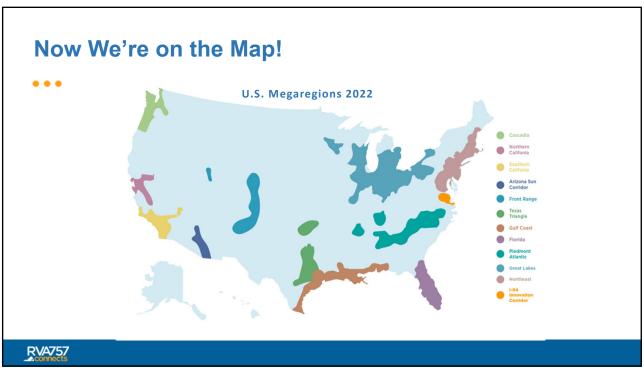
https://www.youtube.com/watch?v=8IAPr1QFPCY

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29









I-64 Talent & Industry Study: Today & Tomorrow

# I-64 Talent Pipeline Study: Today & Tomorrow



- Profile the RVA757 Connects megaregion's industries and occupations today. (Report #1)
  - Total megaregion talent profile
  - Understand where talent comes from and goes to
  - Current gaps
  - Support areas that need greater attention
- Identify the megaregion's industries and occupations of tomorrow. (Report #2)
  - COVID-19 lasting trends and related impacts
  - Impact of distributed workforce
  - Talent needs of the future
  - Support areas that need greater attention
- Identify way to make the RVA and 757 regions even more competitive in the war for talent and targeted industry growth.

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35

# **Process - Timeline**



#### 1ST Quarter 2021 (JAN - MARCH 2021)

Establish Project's Research Council

Finalize the Work Plan and Detailed Calendar

Identify Project's Key Stakeholders & Audiences for the Final Reports (e.g., Workforce Industry, Economic

Development Partners, Educational Institutions, and RVA-757 Connects' Audiences)

Identify and Inventory Relevant Pre-existing Studies and Reports

Identify and Inventory Relevant Third-party Active Research Projects (For example: the Virginia Bio-tech Initiative)

### 2nd Quarter 2021 (April - June 2021)

Mine Pre-existing Studies, Reports and Active Third-party Research

Conduct Primary Research (If Research Council Feels This Is Needed)
Identify Major Insights and Implications

### 3rd Quarter (July - Sept 2021)

Prepare Initial Drafts of Report 1: Current Talent Pipeline

Prepare Initial Drafts of Report 2: Future Talent Pipeline Trends and Needs

Share Draft Reports and Get Feedback From a Sample of Representatives from Project's Key Stakeholders & Audiences

### 4th Quarter (Oct - Dec 2021)

Finalize and Package Reports 1 and 2 with RVA-757 Connects' branding

Share Final Reports with all of the Project's Key Stakeholders & Audiences

Submit to GO Virginia RVA-757 Connects' Recommendations on the Future Strategy for the I-64 Innovation Corridor Talant Pineline (not part of this grant request)

Corridor Talent Pipeline (not part of this grant request)

Finish all GO Virginia's Grant Obligations

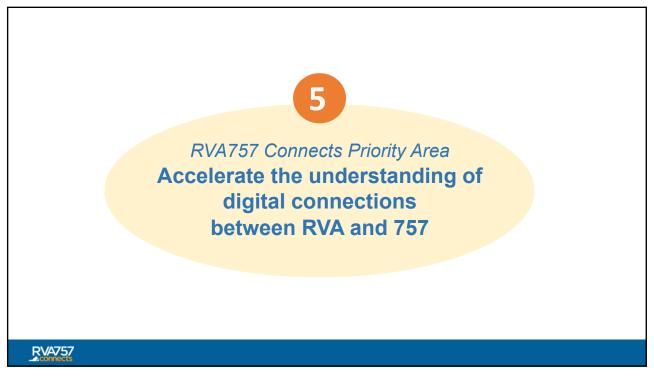
We are here in this overall process

We will present findings at the Oct. 27 Chambers' CONVERGENCE 2021 event.

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#### **National Security/Cyber Security** Nashville Current 5,908 37,895 9,516 28,202 9,673 100,126 11,815 4,953 3,893 10,839 13,683 3,859 20,620 12,691 Cluster Empl Current LQ 5.04 0.63 0.81 LQ 2030 3.43 2.02 4.73 0.98 0.69 0.66 1.77 1.09 0.63 0.55 1.35 0.73 0.87 **RVA757**

37

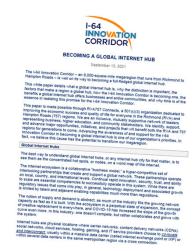


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RVA757 Connects' Draft Concept Paper:

# Becoming a Global Internet Hub

5 Things to Know



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39

# 1. There are many internet hubs.



Internet hubs are physical locations where carrier networks, content delivery networks (CDNs), social networks, cloud services, hosting, gaming, and IT service providers

choose to <u>co-locate and</u> <u>interconnect</u>, usually within a massive data center (called internet exchange point or IXP) or within several data centers in the same metropolitan region via a cross connection.

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### 2. Internet hubs deliver many advantages.

### **Business Advantages:**

- · Lower internet costs
- · Enhanced communication ability
- Competitive advantage to conduct business at the speed of light
- Edge Computing
- Larger tech talent pool

#### **Community Advantages:**

- Municipal / County budget funding
- · Increased access to high-speed internet
- Improved public safety and transportation infrastructure
- Enhanced educational opportunities
- Improved healthcare
- Increased work-from-home opportunities
- Enhanced locational appeal for remote workers
- Growing economic development advantages
- · Growing economy

#### Future-proofing the Community:

Help a community remain relevant in the future with next gen capabilities.

Every "next generation" of technology adds new functionality, capacity, and performance, often by an order of magnitude.

In this industry, a generation is one to three years. The leading-edge hubs and users will have digital resources, tools, and capabilities that are not widely accessed to others - - real-time massive data acquisition / analytics, use of augmented intelligence and creation of new, highly beneficial knowledge.

All of this will drive the winning companies and organizations of tomorrow... and future economic growth and prosperity.



41

# 3. Super large hubs become known as and are officially designated as a *global internet hub*.

Currently, the top ten global internet hubs (as ranked by TeleGeography), based on international capacity, are:

- 1. Frankfurt, Germany
- 2. London, United Kingdom
- 3. Amsterdam, Netherlands
- 4. Paris, France
- 5. Singapore, Singapore
- 6. Hong Kong, China
- 7. Stockholm, Sweden
- 8. Miami, United States
- 9. Marseille, France
- 10. Los Angeles, California

Notably, eight out of the top ten global hubs have direct access to subsea cables.

4. Becoming a global internet hub doesn't happen by accident. The industry has identified ten key factors of success.

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- Access to international deep-sea cables
- · Data centers
- Robust network of local fiber optic cables
- · Relatively Inexpensive land
- Inexpensive power and/or access to renewable sources of energy

- · Proximity to large populations
- · Low risk of natural disaster
- · Tech-savvy workforce
- · Economic incentives
- Committed Regional Business and Governmental Leaders

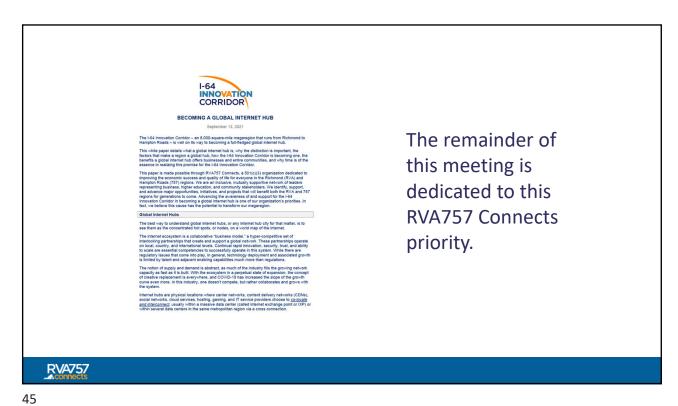
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43

5. This is our transformational opportunity to build the backbone of our sustainable 21st century economy.

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- Phase 1: Networks, like deep sea cables, attract data centers. As the data center hub grows and increases in importance, more networks establish themselves in the area. This growth leads to even more inter-connected networks – an internet ecosystem.
- Phase 2: A vibrant, growing internet ecosystem attracts tech talent, particularly related to applications development and commercialization.
- Phase 3: Companies are attracted to the growing pool of tech talent and major "exchange point" hubs, realizing the benefits of hyper-connectivity, digital speed, massive real-time data acquisition, and access to computing capabilities such as ML (machine learning) and AI (artificial intelligence).
- Phase 4: Success fuels momentum. More talent and companies are attracted to the region. Existing
  companies expand. New companies are started all supporting the companies and jobs of tomorrow.



Becoming a Global Internet Hub
45 Minutes

# **Our Speakers**

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Anthony Romanello, Executive Director, Henrico County Economic Development Authority

Vinay Nagpal, President, InterGlobix (consultant to Henrico County)

Taylor Adams, Deputy City Manager / Director of Economic Development, Virginia Beach

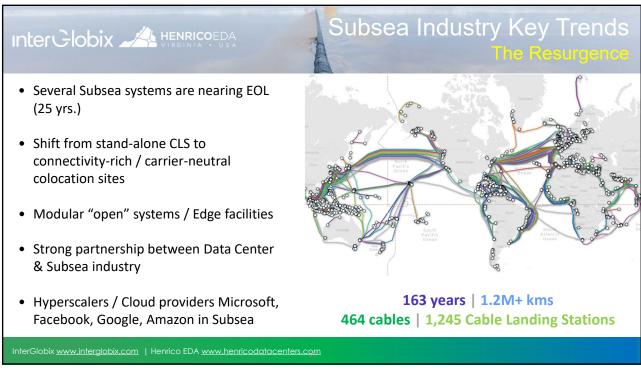
Stan Blackwell, Director, Customer Solutions & Strategic Partnerships, Dominion Energy

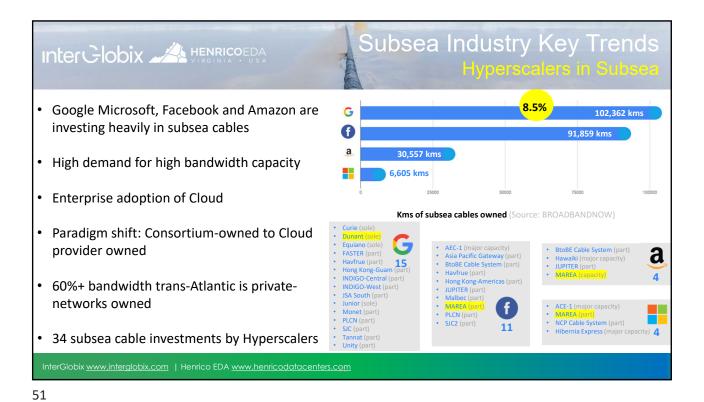
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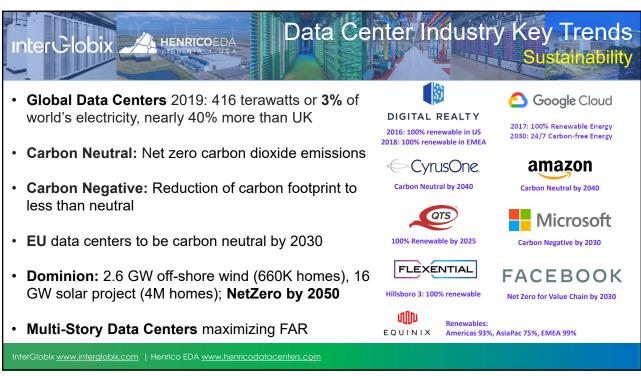
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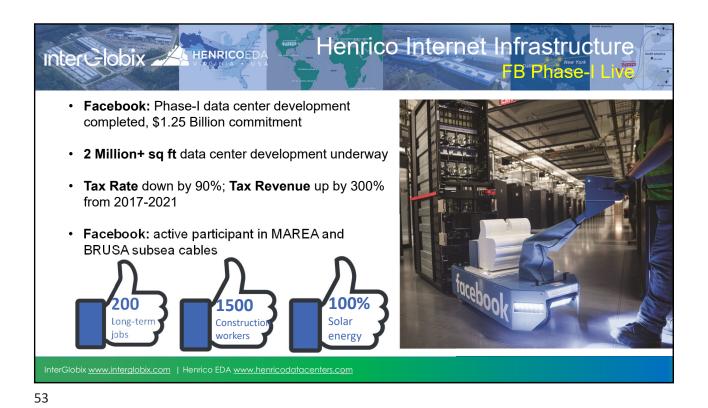


# **Inter**Globix The Data Explosion • Data Explosion: 90% of all data that exists today, created in last 2 years 99.7% of all data on subsea. 2016-2020: \$13.8B value-creation, 107 new cables • 2021-2023: \$8B in new development • \$10 Trillion daily transactions • Industry shift towards Hyperscalers in subsea By 2023 Global Data Center ► 4.1 Billion people Google wamazon Microsoft FACEBOOK 20-30 Billion devices \$174 Billion

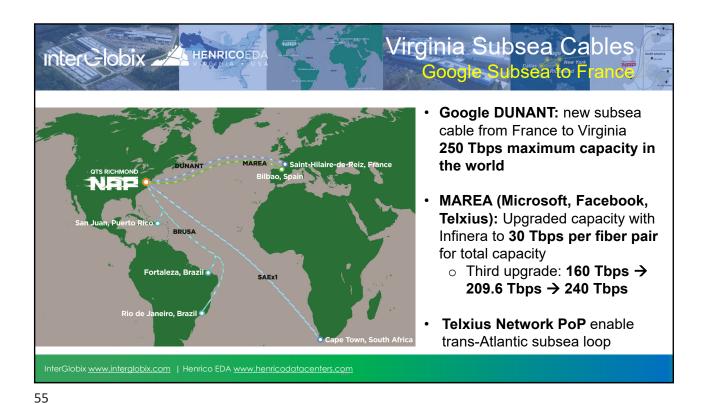


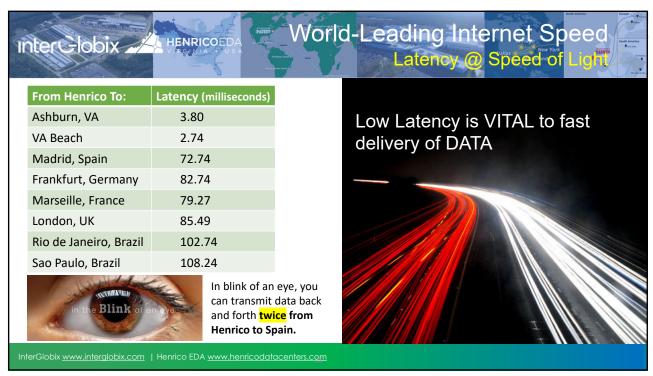


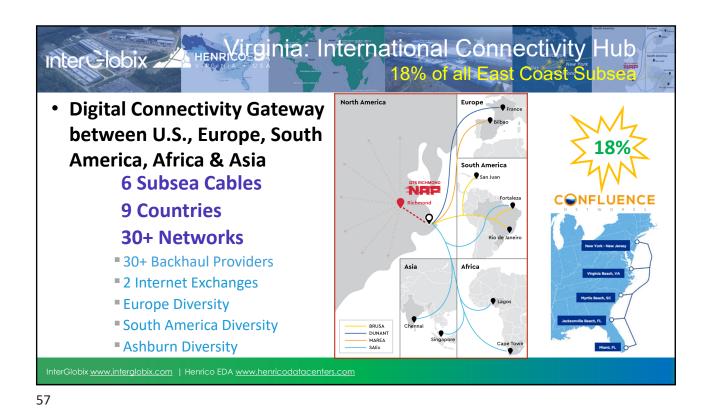


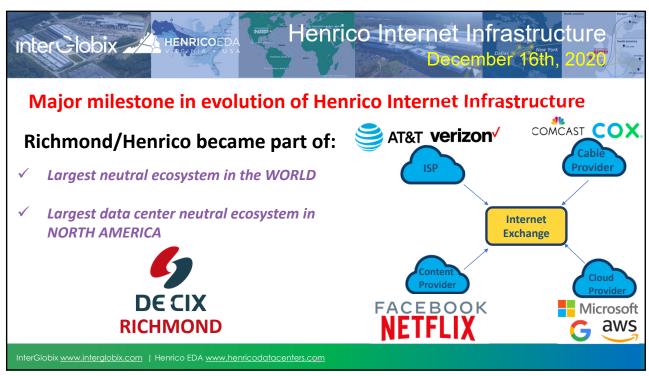


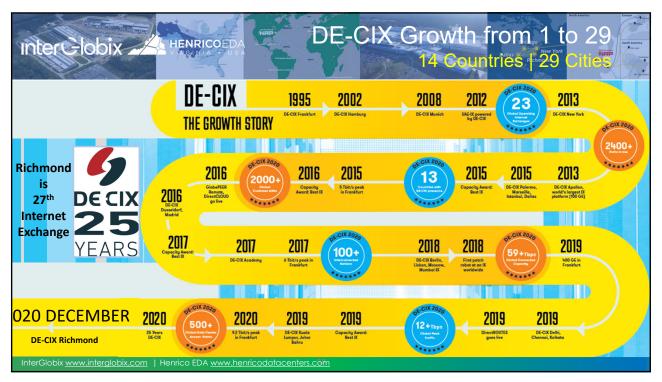


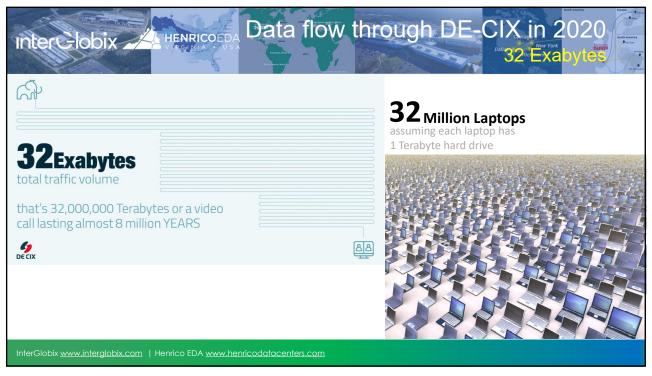


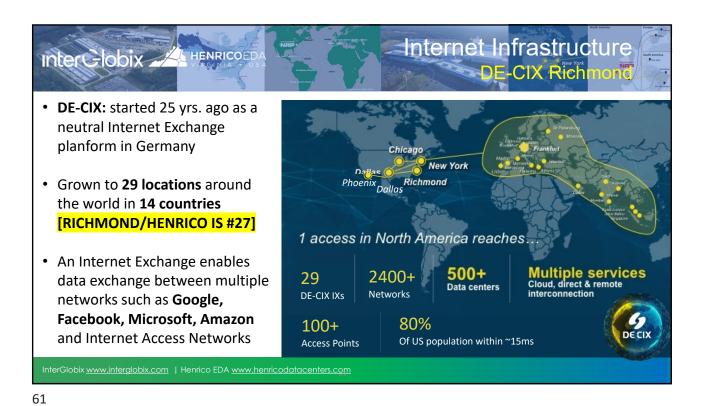




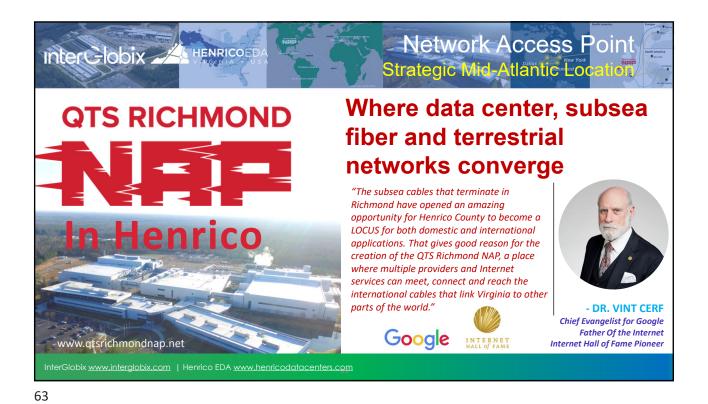








Internet Infrastructure inter clobix \_ St. Petersburg · North America's Chicago largest data New York center neutral Richmond ecosystem Dubai World's largest data centerand carrierneutral ecosystem 29 2,400+ 500+ 83+ data center Tbit capacity









# **Summary**



- Data Centers and Connectivity services will continue to experience exponential growth over next 3-5 years
- 3 Subsea cables live in Henrico connecting 3 continents
- QTS Richmond NAP globally recognized
- World's largest carrier-neutral and North America's largest data center-neutral Interconnection platform in Henrico
- GreenCity Project Connectivity

nterGlobix www.interglobix.com | L. Henrico FDA www.henricodatacenters.com

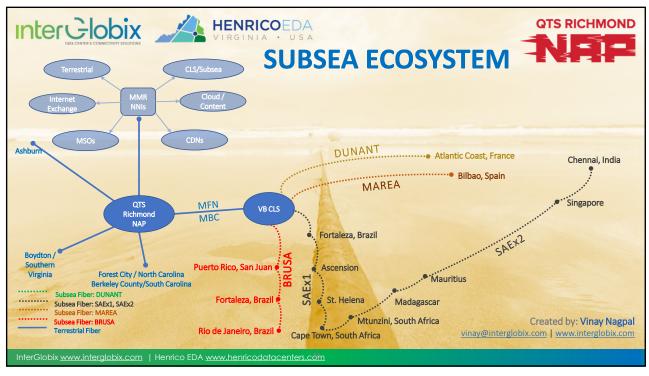






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# **Let's Hear From Our Other Speakers**

 $\bullet$   $\bullet$ 

**Anthony Romanello, Executive Director, Henrico County Economic Development Authority** 

Vinay Nagpal, President, InterGlobix (consultant to Henrico County)

Taylor Adams, Deputy City Manager / Director of Economic Development, Virginia Beach

Stan Blackwell, Director, Customer Solutions & Strategic Partnerships, Dominion Energy

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71

# **Taylor Adams**

Deputy City Manager / Director of Economic Development

Virginia Beach



# Stan Blackwell

Director, Customer Solutions & Strategic Partnerships

# **Dominion Energy**

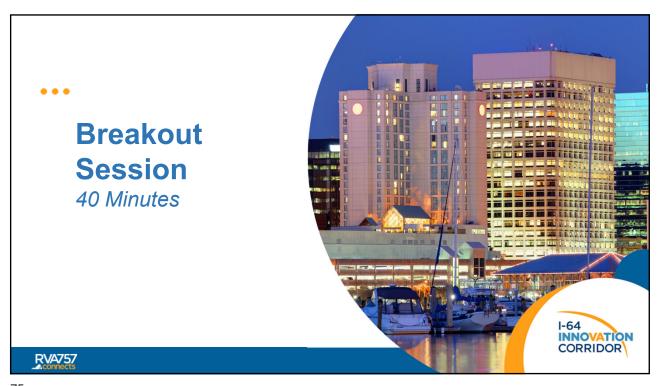


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73

# **RVA757 Connects' Next Steps**

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- Finalize and share this white paper with our stakeholders.
- Hold a webinar on this topic for RVA757 Connects' stakeholders: October 1 (with Civic Leadership Institute).
- Feature the global internet hub concept at the Convergence 2021 event: October 27 ChamberRVA and the Hampton Roads Chamber.
- Create a plan to drive our hub status faster: Apply for a 2022 GO Virginia planning grant to assess the 15 other global internet hubs and learn how they became a global internet hub. Use the insights gained to formulate a strategic plan.
- Continue outreach: Continue to build awareness of, familiarity with, and support for becoming a global internet hub. Showcase this cause through RVA757 Connects' marketing communications efforts.
- Build this topic into future scope of work: Identify ways to help advance the global internet hub concept throughout 2022.



# **Small Group Discussion 3 Topic Areas – 40 Minutes**

1. GHI:

Question #1: What are your biggest take-aways from today – The I-64 Innovation Corridor Becoming a Global Internet Hub?

Question #2: How should RVA757 Connects (our organization) help advance this cause – Making the I-64 Innovation Corridor a Global Internet Hub?

Question #3: What additional information do we need on Making the I-64 Innovation Corridor a Global Internet Hub? What would make our story even more compelling as we spread the word?

- 2. Comments / suggestions on this meeting.
- 3. Format of future meetings.



1. Make plans to attend this Webinar:



# October 1<sup>st</sup> 11:30 am – 12:30 pm Virtual Forum

How Collaboration Along I-64 Innovation Corridor Making Us a Global Internet Hub and How This Will Impact Every Business

2. Make plans to attend the ChamberRVA's and Hampton Roads Chamber's CONVERGENCE 2021 event:



# October 27<sup>th</sup> 10:00 am – 4:00 pm In Person and Virtual

Showcasing RVA757 Connects
Featuring International Speaker on

Global Internet Hubs

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70

3. Participate in a very short (1 minute.) follow-up survey after this meeting:

What areas would you like more information on and be part of as we move forward?

### **2021 Priorities**

**Advance** Innovation Corridor positioning

**Implement** Talent Pipeline Study

**Accelerate** understanding of digital connections

Showcase member initiatives

**Increase** research and development collaboration

**Support** Virginia Capital Trail completion

**Remove** passenger barriers on rail services

Advocate for widening of I-64

### <u>Initiatives</u>

Advance RVA757 Connects' communications efforts

Advance new wave of Grant Applications:

- Apprentices
- Industry Clusters
- Global Internet Hub

### 4. Support our communications efforts

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- Provide names for potential board directors.
- Provide "innovation" stories to Laura at least one per director and MIC member.
- Invite people to follow us your key employees and colleagues.
- Link to our social media.

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21

# **5. Join others in supporting RVA757 Connects**



























### 5. Join others in supporting RVA757 Connects

 $\bullet \bullet \bullet$ 

- Theodore L. Chandler, Jr.
- Wilson H. Flohr, Jr.
- Thomas R. Frantz
- Moses Foster
- Robbyn Gayer
- Mitch Haddon
- Bob Holsworth
- Martin A. Joseph

- Sarah Jane Kirkland
- · John W. Martin
- John Reinhart
- · Bernard Robinson, Sr.
- Douglas L. Smith
- James Spore
- Jim Ukrop

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83

# Thank You!



We are Adjourned.