District of Columbia Community Access Network
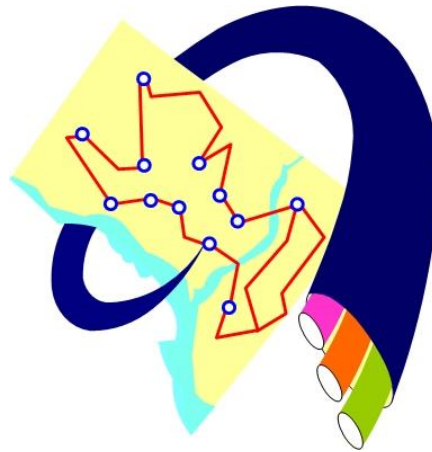

Ward 5 Town Hall

March 29, 2012

Benefits of Being Online

- *For the community…*
  - Technology platform useful for attracting and retaining businesses
  - Faster access to government services
  - Online access to health care and services
- *For residents…*
  - Distance learning opportunities
  - Career development – post resumes, search for jobs, apply online
  - Online banking and bill payment
  - Stay connected with family and friends
  - Express yourself through social media

Benefits of Being Online

- ***For businesses…***
  - Reach the global market place through web presence
  - Get better prices for supplies and wider selection range
  - Save time through online purchasing
  - Helps you recruit job seekers
- ***For nonprofits…***
  - Spread your message through website & social media to spread your message
  - Connect with volunteers
  - Network with other organizations and your target community

DC-Net Overview

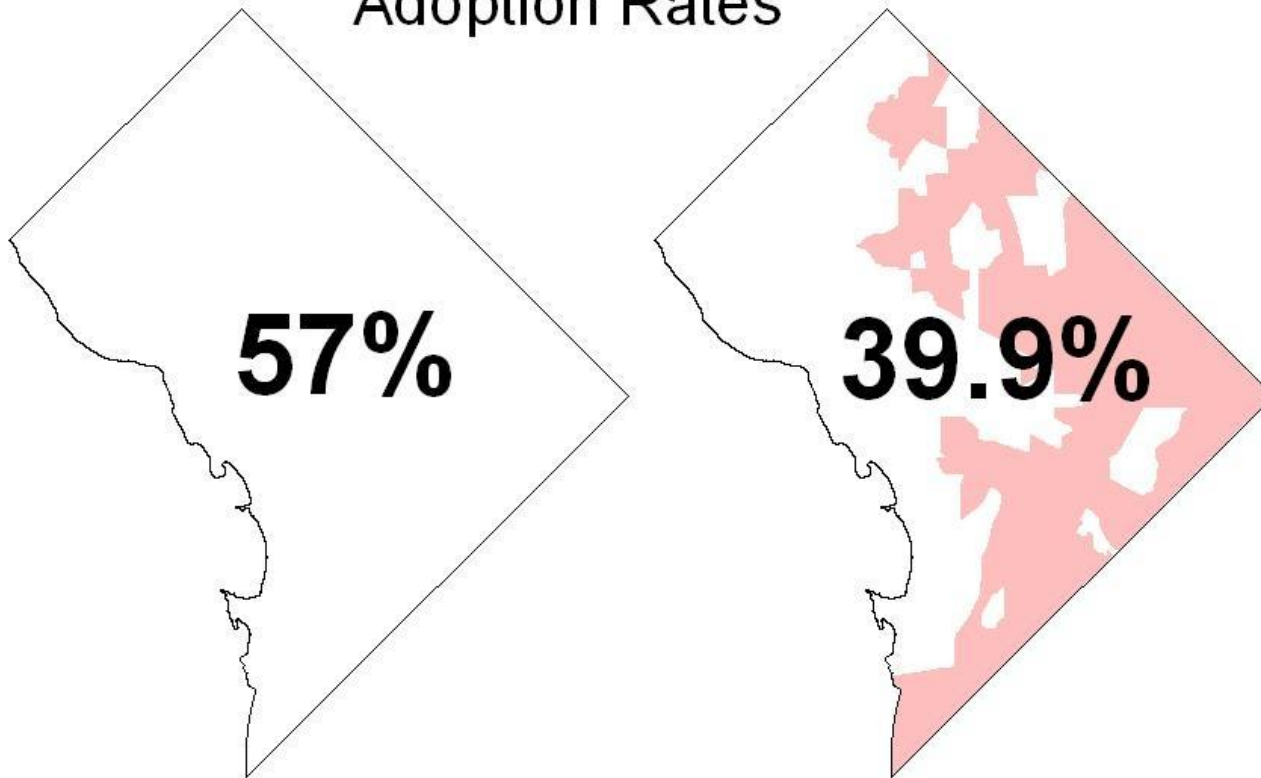|	
Service provider for government	Provides secure managed data, voice, video and wireless services for government and education institutions in DC
Extensive fiber network in DC	400+ mile fiber optic network providing core foundation and primary backbone for all DC government IT/Telecom services
Secure, reliable, proven	Serving over 30,000 users in more than 380 sites Route Diverse fiber paths 99.999% availability
Customized service offerings	Service networks in cloud computing environment UC Bundles and Triple play solutions at significant lower pricing

DC-NET
District of Columbia Government
Citywide Network

DC-CAN
District of Columbia Government
Community Access Network

DC-CAN Overview

- Broadband infrastructure project focusing primarily on Wards 5, 7 and 8 – underserved areas of the city

- Brings affordable broadband to over 250 community anchors

- Creates high-speed middle-mile open-access network for last mile service providers

- Spurs broadband adoption and economic development in underserved areas

- 3 year, $25 million project to be complete by June 2013

Underserved Areas

Adoption Rates *

57%
Entire District

39.9%
Underserved Service Area

* Based on 2009 carrier provided data from PSC

For Community Anchors…

- DC-CAN brings broadband to over 250 community anchor institutions, including:
  - Health Clinics
  - Senior Wellness Centers
  - Public Charter Schools
  - CCDC and UDC campuses
  - Early Childhood Learning Centers
  - Community Service Centers
  - Public Housing Locations
- Upgrades public libraries, FEMS and MPD stations
- Federal grant covers cost of capital build out to sites

What Does the Grant Cover?

- Fiber connectivity to the DC-CAN backbone network – a savings generally between $3,000 - $30,000

- Network edge equipment at the customer site – a savings of $7,500 per location

- District managed exterior wireless access point – a $5,500 value provided at no cost

Community Anchor Services

- Internet Access – 10 Mbps to 1 Gbps symmetrical
- Data Transport – 10 Mbps to 10 Gbps
- Voice services
  - VoIP
  - Web conferencing services
- Wireless LAN access for voice, data, and video services
- Video conferencing and recording

Internet Service Features

- Fully dedicated bandwidth – the bandwidth you buy is what you get, no "up to" speeds

- Fully symmetrical upload and download speeds

- Dependable – backed by Service Level Agreement

Who Benefits the Most from DC-CAN?

- Anchors using T1 or higher data services
  - DC-CAN 10 Mbps at $470 per month is about 7 times the capacity for price of a T1 circuit
  - DC-CAN 100 Mbps at $995 per month is about 60% cheaper than comparable commercial service
- Anchors with SIP-enabled IP-PBX phone system supporting 20 or more phone lines
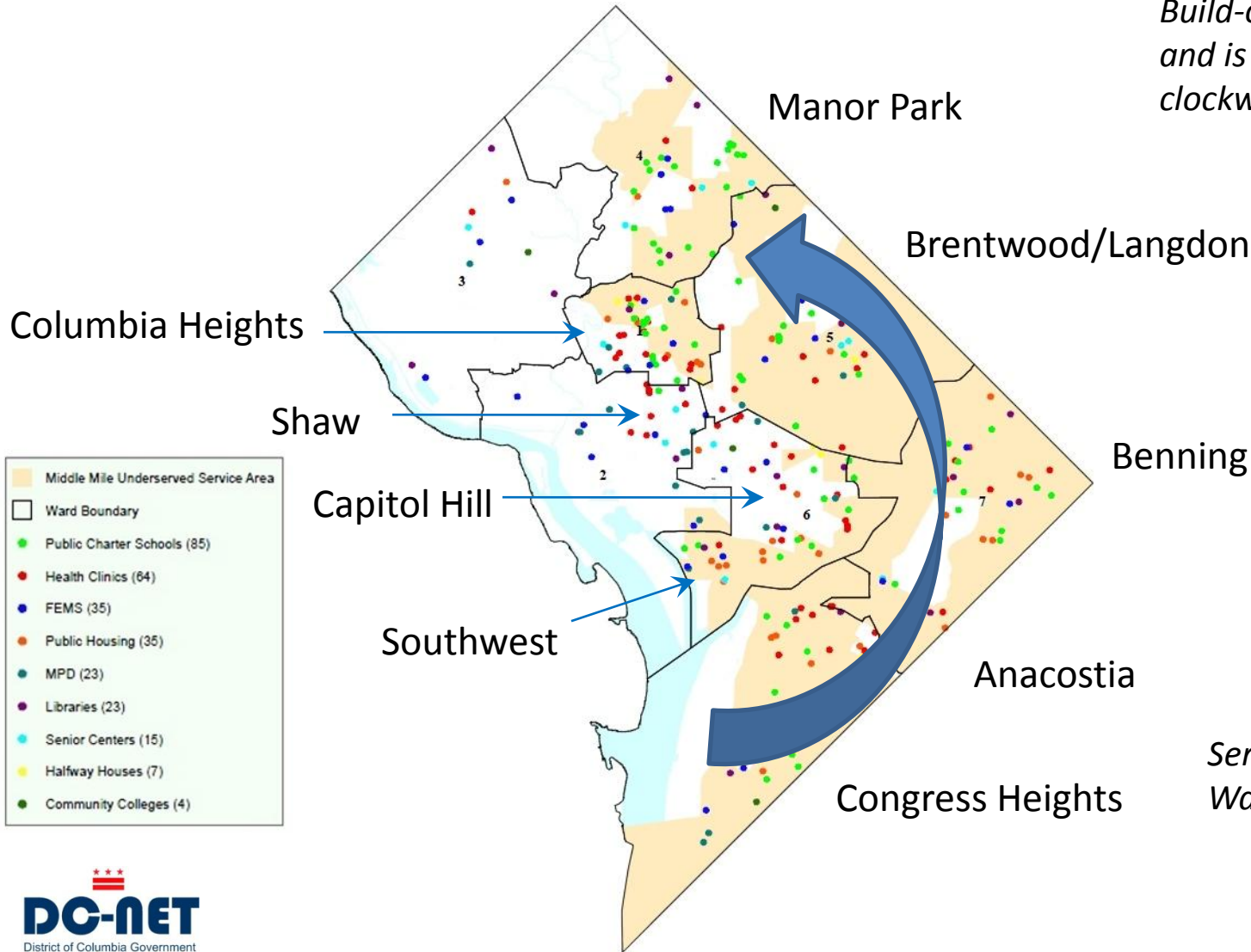
Benefits to Health Care Providers

- Dedicated bandwidth connections over a private network to mission critical applications (such as e-Clinic Works)

- Supports HIPAA-compliant transmission of electronic health records and access to applications for health providers in DC RHIO

- Cost effective Internet, data, voice, and wireless services – removes bandwidth, reliability, and affordability limitations

Benefits to Charter Schools

- All non-recurring charges covered by DC-CAN grant (fiber build out, setup, equipment)
- Affordable monthly recurring charges for services
- Access to UDC, CCDC, and local universities
- Future access to educational applications: Internet2, MAX, NLR, NPL research networks
- Outdoor wireless access points at community anchors

Community Anchor Build Out

Build-out started in Ward 8 and is proceeding counter-clockwise

Manor Park

Brentwood/Langdon

Columbia Heights

Shaw

Benning

Capitol Hill

Southwest

Anacostia

Middle Mile Underserved Service Area
Ward Boundary
Public Charter Schools (85)
Health Clinics (64)
FEMS (35)
Public Housing (35)
MPD (23)
Libraries (23)
Senior Centers (15)
Halfway Houses (7)
Community Colleges (4)

Congress Heights

Services available in Ward 8 as of June 2011

DC-NET
District of Columbia Government
Citywide Network

DC-CAN
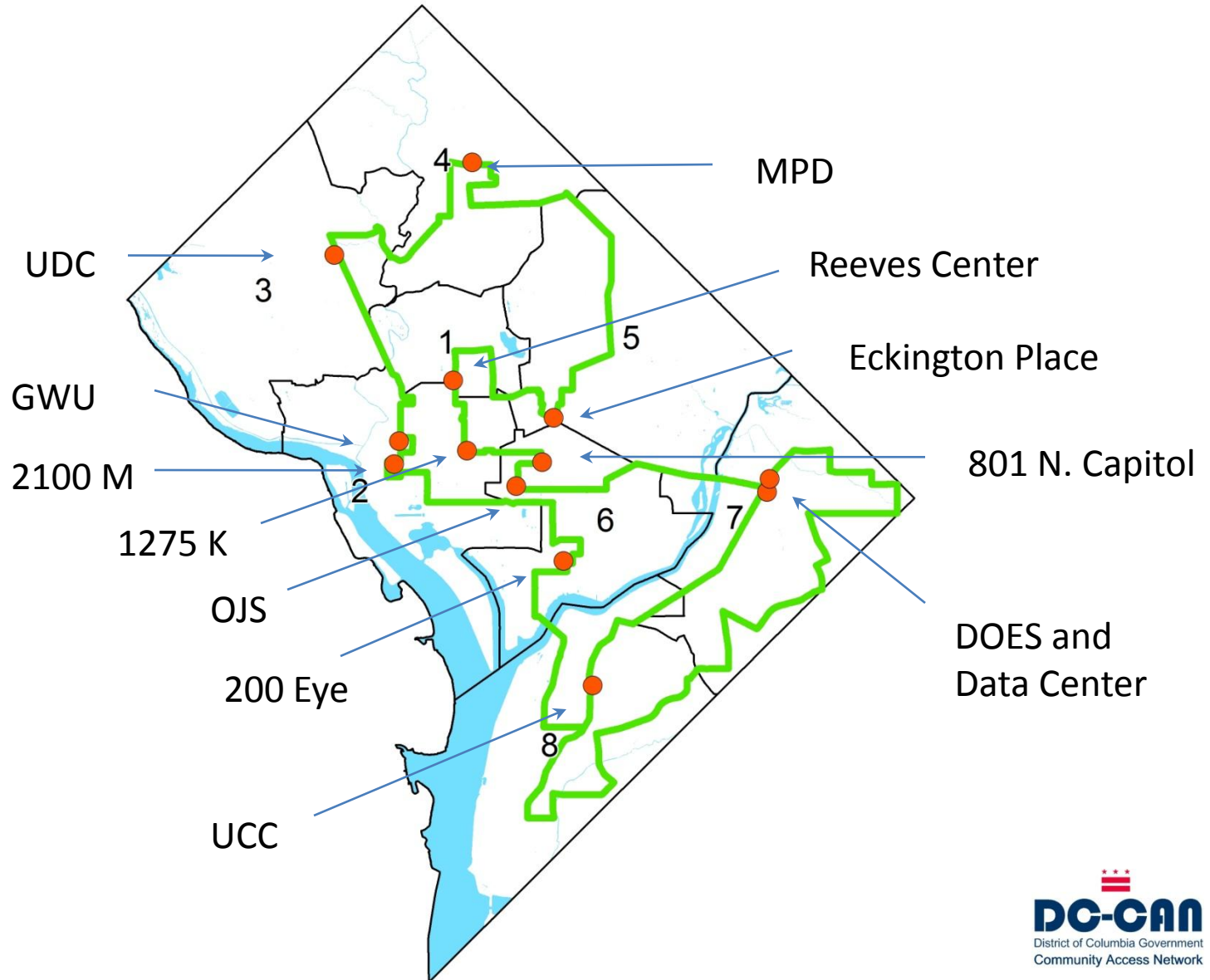District of Columbia Government
Community Access Network

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Ward 5 Community Anchors So Far…

- Center City PCS (Trinidad Campus)
- Family Health and Birth Center
- Washington Center for Aging Services
- William E. Doar Jr. PCS for the Performing Arts

For Service Providers…

- DC-CAN provides wholesale middle-mile broadband services over fiber optic infrastructure
  - In-kind support for build out in underserved areas
- Network open to any qualified service provider in the District
- Does not fund provider's last mile build out or other startup costs

DC-CAN Connection Points

Project Updates

- NTIA reviewing anchor site changes from original 223 in grant application

- Open slots available for additional anchors on first come first serve basis

- DC-Net can modify fiber routes and provider other NRC discounts for interested anchors

Next Steps

- Spread the word – inform community anchors in your area about DC-CAN services

- Check the DC-CAN website for service availability and information:

  www.dcnet.dc.gov/dc-can

Contact Information

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