# PALM BEACH COUNTY BOARD OF COUNTY COMMISSIONERS WORKSHOP SUMMARY

Meeting Date: May 25, 2021

**Department:** Information Systems Services **Submitted by:** Information Systems Services **Submitted for:** Information Systems Services

#### I. EXECUTIVE BRIEF

Title: Palm Beach County's Broadband Digital Inclusion Initiatives

**Summary:** Staff from the Information Systems Services Department (ISS), will provide an update to the County's Broadband Initiatives. Included in the presentation from ISS will be an overview of the County network, as well as, past, current and planned future efforts to address "The Digital Divide." <u>Countywide</u> (DB)

Background and Policy Issues: Established in 2006, through an inter-local agreement approved by the Board of County Commissioners, the Palm Beach County Broadband Coalition (Coalition) was created to leverage technology in the development of a digital inclusion program. The vision for the program was a countywide wireless network that would benefit to Palm Beach County citizens, governments, education institutions, health care agencies, business and visitors. It was thought to have important applications in the realms of public safety, economic development, education, and the bridging of "The Digital Divide." Since the establishment of the Coalition, some progress was made through implementation of pilot programs and the establishment of many inter-local agreements. The onset pandemic last year highlighted remaining digital divides for school aged students, while simultaneously CARES funding provided a potential source to address those underserved in Palm Beach County. ISS will provide an update on key metrics achieved with the CARES funding as well suggest next steps possible with ARPA funding.

#### Attachments:

1. Presentation

Recommended by:	At-	5/18/21
,	Department Director	Date
Approved by:		5/18/21
	Deputy County Administrator	Date

### II. FISCAL IMPACT ANALYSIS

### A. Five Year Summary of Fiscal Impact

Fiscal Years Capital Expenditures Operating Costs	<b>2021</b> \$0 \$0	<b>2022</b> 0 0	<b>2023</b> 0 0	<b>2024</b> 0 0	<b>2025</b> 0 0			
External Revenues Program Inc (County) In-Kind Match (County)	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0			
NET FISCAL IMPACT	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u><b>\$0</b></u>	<u>\$0</u>			
# Additional FTE Positions (Cumulative)	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>			
Is Item Included in Current Budget		Yes _	No					
Does this item include the use of federal funds? Yes No _								
Budget Account Number: Fur	nd	Dept	Unit	Object_				
B. Recommended Sources of Funds / Summary of Fiscal Impact								
There is no direct fiscal impact associated with this update								
C. Department Fiscal Review:								
III. REVIEW COMMENTS								
A. OFMB Fiscal and/or Contract Development & Control Comments:								
Tusc Mart 5/19/21 N/A								
OFMB みられる Contract Administration  MG 5/19/21								
B. Legal Sufficiency:  Behar 5/19/2021  Assistant County Attorney								
C: Other Department Review:								

THIS SUMMARY IS NOT TO BE USED AS A BASIS FOR PAYMENT.

Department Director





May 2021 Information Systems Services



# THE ACH COUNTY

## **Purpose**

- PBC Network Overview
- Initial Digital Inclusion Initiative
- Current Digital Inclusion Initiative
- Next Steps



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# PLORIDA P

## The PBC Network

- >1000 miles of fiber-optic cable
- 489 connected facilities
- Available bandwidth capacity for transporting data, voice, video, and images
- Skilled staff providing 24x7 coverage
- Secure, survivable, and highly redundant
- Supports the entire County government and over 40 external agencies

## Access to the Internet via FLR











# Palm Beach County Broadband Coalition







- Six member agencies
- Created via Interlocal agreement in 2006
- Leverage technology for the group and the community
- Digital inclusion program to provide computers and internet access from home









# **Collaborative Digital Inclusion Projects**

#### Where we started

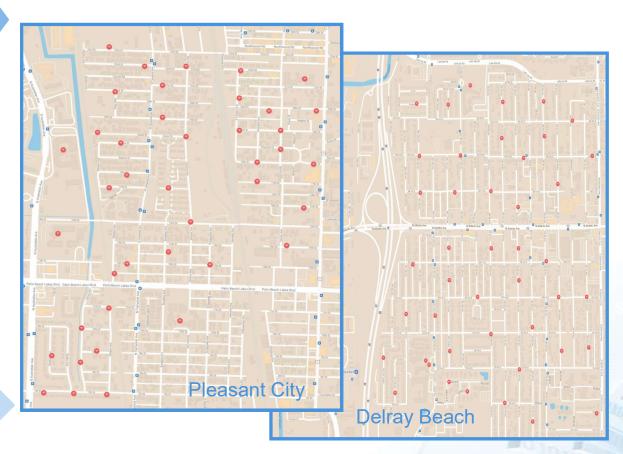
### Pilot Projects

## West Palm (Pleasant City)

- 3 Root Radios
- •40 Neighborhood Radios
- 1.25 Sq Miles
- •904 Students

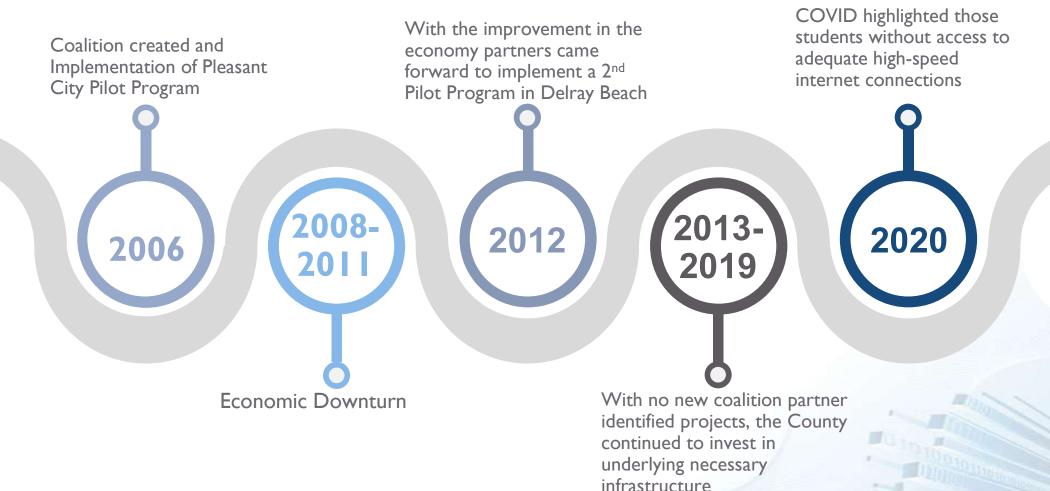
### • Delray Beach (East of 195)

- 4 Root Radios
- •41 Neighborhood Radios
- 1.5 Sq Miles
- •995 Students
- Community Partners



## The Steps on the Path to Digital Inclusion



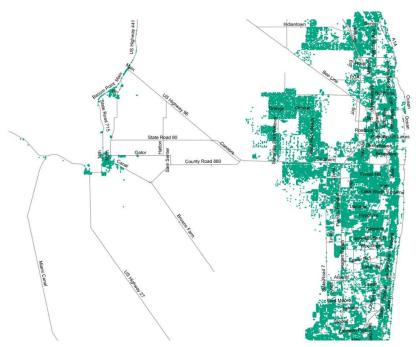




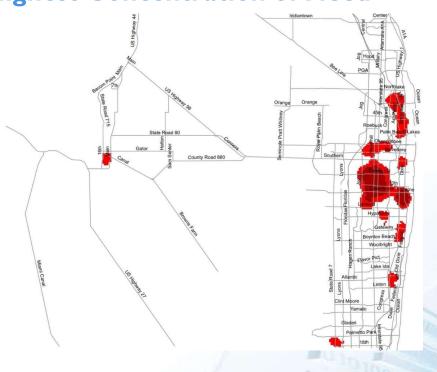


## What The Data Told Us

## Free and Reduced Lunch Students



## **Highest Concentration of Need**



## **Creating A Wi-Fi Mesh**



**Lay Fiber Optic Cable** 





**Connect Fiber to Root Radios** 



Root Radios Connect to Neighborhood Radios



Root & Neighborhood Radios Create Wifi Mesh



Wifi Extenders Access
Wifi Mesh Signal



Home Gains
Broadband Access



## **CARES Funding**

REACH COLUMN

#### Where we started

- Pilot Projects
  - West Palm (Pleasant City)
    - 3 Root Radios
    - •40 Neighborhood Radios
    - 1.25 Sq. Miles
    - 904 Students
  - Delray Beach (East of 195)
    - 4 Root Radios
    - 4 | Neighborhood Radios
    - 1.5 Sq. Miles
    - 995 Students
- •8 Community Partners

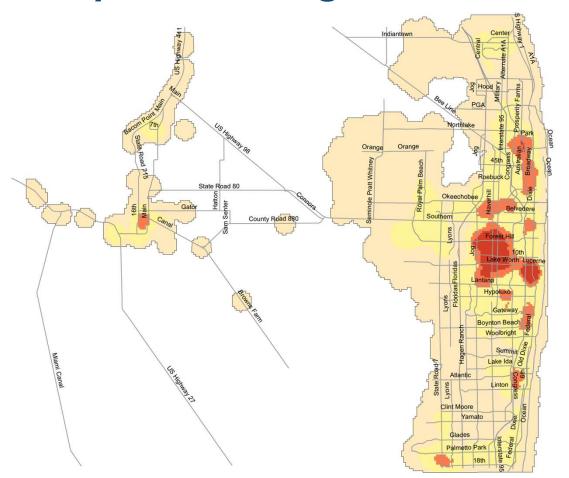
#### What we are Accomplishing (CARES)

- •25,000 students dark red on heat map
- •3000 radios covering 50 square miles
- >400 Miles fiber installed
- •98 schools part of the County network.
- 17 County Libraries
- 10 Boys and Girls Clubs
- •15 Community partners
- Increased capacity/ coverage on County owned infrastructures.
- •Funding \$15.75 Million





# **Countywide Coverage**





## **ARPA Funding**



#### Where we started

- Pilot Projects
  - West Palm (Pleasant City)
    - 3 Root Radios
    - •40 Neighborhood Radios
    - 1.25 Sq. Miles
    - 904 Students
  - Delray Beach (East of 195)
    - 4 Root Radios
    - 4 | Neighborhood Radios
    - 1.5 Sq. Miles
    - 995 Students
- •8 Community Partners

#### What we are Accomplishing (CARES

- •25,000 students dark red on heat map
- •3000 radios covering 50 square miles
- >400 Miles fiber installed
- •98 schools part of the County network.
- •17 County Libraries
- 10 Boys and Girls Clubs
- •14 Community partners.
- Increased capacity/ coverage on County owned infrastructures.
- Funding \$15.75 Million

#### **Future Goals (ARPA)**

- Extend network infrastructure to the areas as identified by the heat maps
- Connect 47 additional schools to the network
- Continue working with the Community Partners
- Increase coverage capability to 450 square miles with the capability of supporting approximately 11000 radios
- Install an additional 600 miles of fiber optics
- Estimate Cost of ~ \$40 Million

