NATIONAL CENTER FOR APPLIED TRANSIT TECHNOLOGY

E-Bikes' Role in a Mobility Network

NATIONAL CENTER FOR APPLIED TRANSIT TECHNOLOGY

- Walking small agencies through the technology landscape

- Producing resources on adopting emerging technologies
  - Zero-emission vehicles, green infrastructure, data management, new software decision-making
  - Lessons learned, trends, strategies

- Providing in-depth technical assistance to adopting new technologies
  - Strike Teams and State Summits
  - Enabling technology transfer

- Developing hands-on workshops to understand how different technologies can be applied
  - Data Management, Digital Tools for Redesigns

Find us at: n-catt.org

N-CATT STAFF

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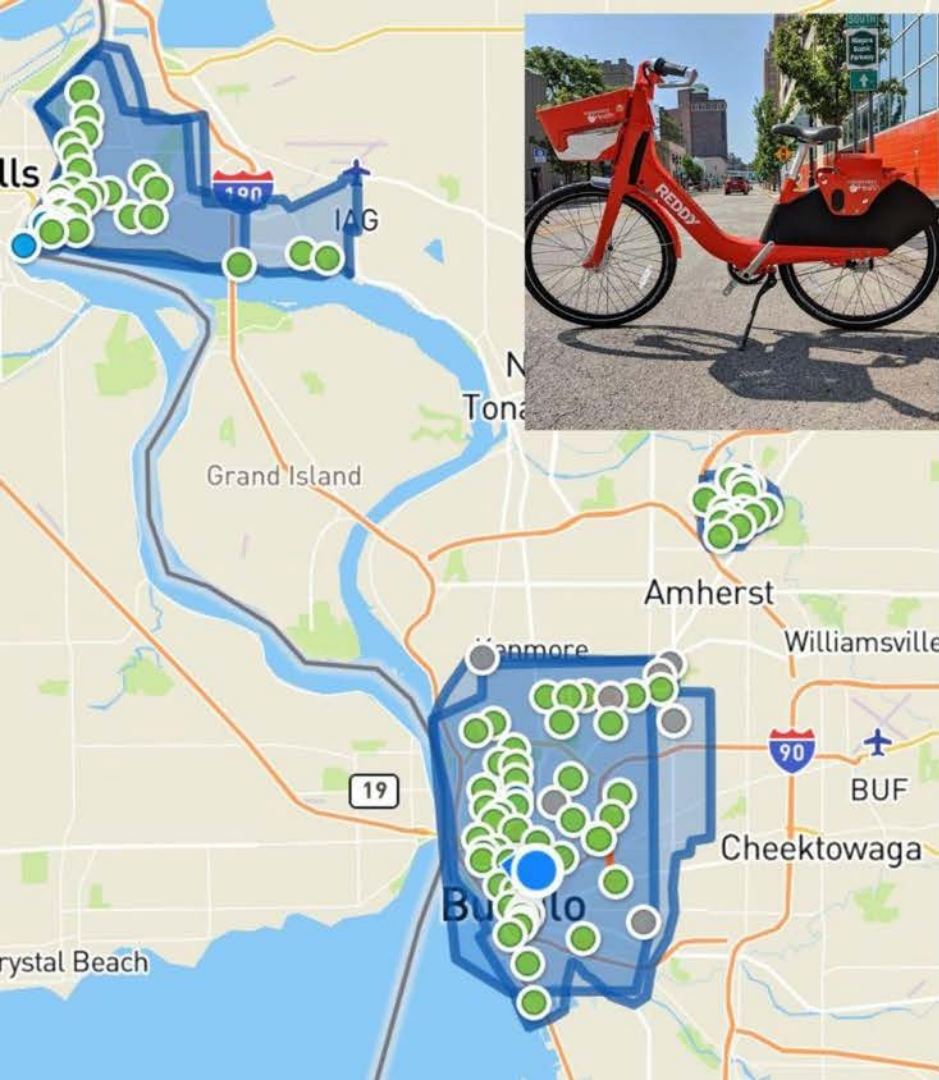Andrew Carpenter
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Shared Mobility

CREATING AND SUSTAINING COMMUNITY-CONTROLLED BIKESHARING

Feb. 28th, 2023   Mitch LaRosa - Chief Development Officer

REDD>> bikeshare

IN PARTNERSHIP WITH

Independent Health

BUFFALO & NIAGARA FALLS, NY

400 BIKES, 90 STATIONS

FIRST GPS ENABLED BIKESHARE IN NORTH AMERICA
- 2012 BUFFALO BIKESHARE PILOT WITH SOCIAL BICYCLES

KEY DATES:

- 2016: INITIAL BUFFALO LAUNCH
- 2018: UNIVERSITY AT BUFFALO EXPANSION
- 2019: NIAGARA FALLS EXPANSION
- 2022: PLANNED E-BIKE PILOT

Bike Features

GPS Enabled

QR Code to Unlock

App-Based with RFID access card capabilities

Flexible Parking with U-Lock

2022 Metrics

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13,875
Total Riders

Women made up 46%

4,045,172
Total Calories burned

Equivalent to 89,892 wings

102,489
Miles

4 times around Earth

89,178
Lbs. Carbon Offset

Equivalent to 6,311 garbage bags not in landfill!

2016 - 2022 Total System Impacts

56,692
Total Riders

15,292,411
Total Calories Burned

380,194
Miles

246,296.33
Lbs Carbon Offset

NFTA / Reddy Partnership

Stations co-located along Metro Rail LRRT corridor

Reddy passes offered to all NFTA employees

Group rides & engagement directly with staff

NFTA-METRO

Looking Ahead

LAUNCH OF 2 NEW BIKESHARE SYSTEMS (BOTH IN PARTNERSHIP WITH LOCAL TRANSIT PROVIDERS)

- **GO STOCKTON - STOCKTON, CA**
  - 100 E-BIKES @ 12 STATIONS
  - PARTNERED WITH SAN JOAQUIN REGIONAL TRANSIT DISTRICT (RTD)

- **CDPHP CYCLE! (RE-LAUNCH)**
  - 400-500 BIKES (MIX OF CLASSIC AND E-BIKES); NEW AND RETROFIT
  - PROGRAM LED BY CAPITAL DISTRICT TRANSPORTATION AUTHORITY (CDTA)

BOTH SYSTEMS TO UTILIZE DROP MOBILITY HARDWARE AND SOFTWARE

Ride On!

February 28, 2022

Public Transit and CDPHP Cycle! :
Moving the Capital Region Forward

CDTA

CDTA Overview

- 750 employees

- 2,300 sqm footprint, 3 divisions, 300+ vehicles

- $113M budget

- Fixed-route, BRT Lines, STAR (paratransit), Commuter, On Demand, CDPHP *Cycle!,* Seasonal services, *DRIVE*

- Regional Community Partner

Route Network

- 50+ Routes serving the Capital Region

- 10 Million Trips Annually

- 2017 Mid-Size Transit System of the Year

- Transit solutions for businesses, service providers, colleges and municipalities

- Growing platform of mobility services

Micro Mobility Options

- *FLEX* On Demand - CDTA ride-sharing service that offers curb-to-curb travel

- *DRIVE* – electric car sharing

- CDPHP *Cycle!* – Regional bike-sharing program with 500 bicycles at 100 stations

Meet CDPHP *Cycle!*

- 1st transit authority run bike share system

- Launched in 2017 with 80 bikes in 4 cities

- Now grown to 400+ pedal bikes in 8 cities as far north as Lake George and west as Amsterdam

Who rides *Cycle!* ?

- Commuting
  - Weekdays on main thoroughfares
  - First mile, last mile

- Recreation
  - Trails and bike paths

- Group rides
- Community Events

Universal Access

- Offers unlimited access to CDTA's network

- Employees/students access services by swiping their ID card, CDTA *Navigator* smart card or mobile ticket

- "Free" access a great incentive for customers to ride regularly

- Program paid for through an agreement with an annual fee

CDTA

What's Next For *Cycle!* ?

- Mobility Hubs:
- Multiple mobility options
- Construction expected to be complete mid-late 2023

Includes:

- Bus Rapid Transit
- Fixed Route
- CDPHP *Cycle!*
- *DRIVE* car share

E-Bike Excitement !!

- New partnerships in 2023 with Drop Mobility (product and technology and Shared Mobility Inc. (Operations)

- Fleet will combine current pedal bikes with 200+ pedal assist electric bikes

- Staggered deployment this Spring throughout the network

CONTACT US!

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