

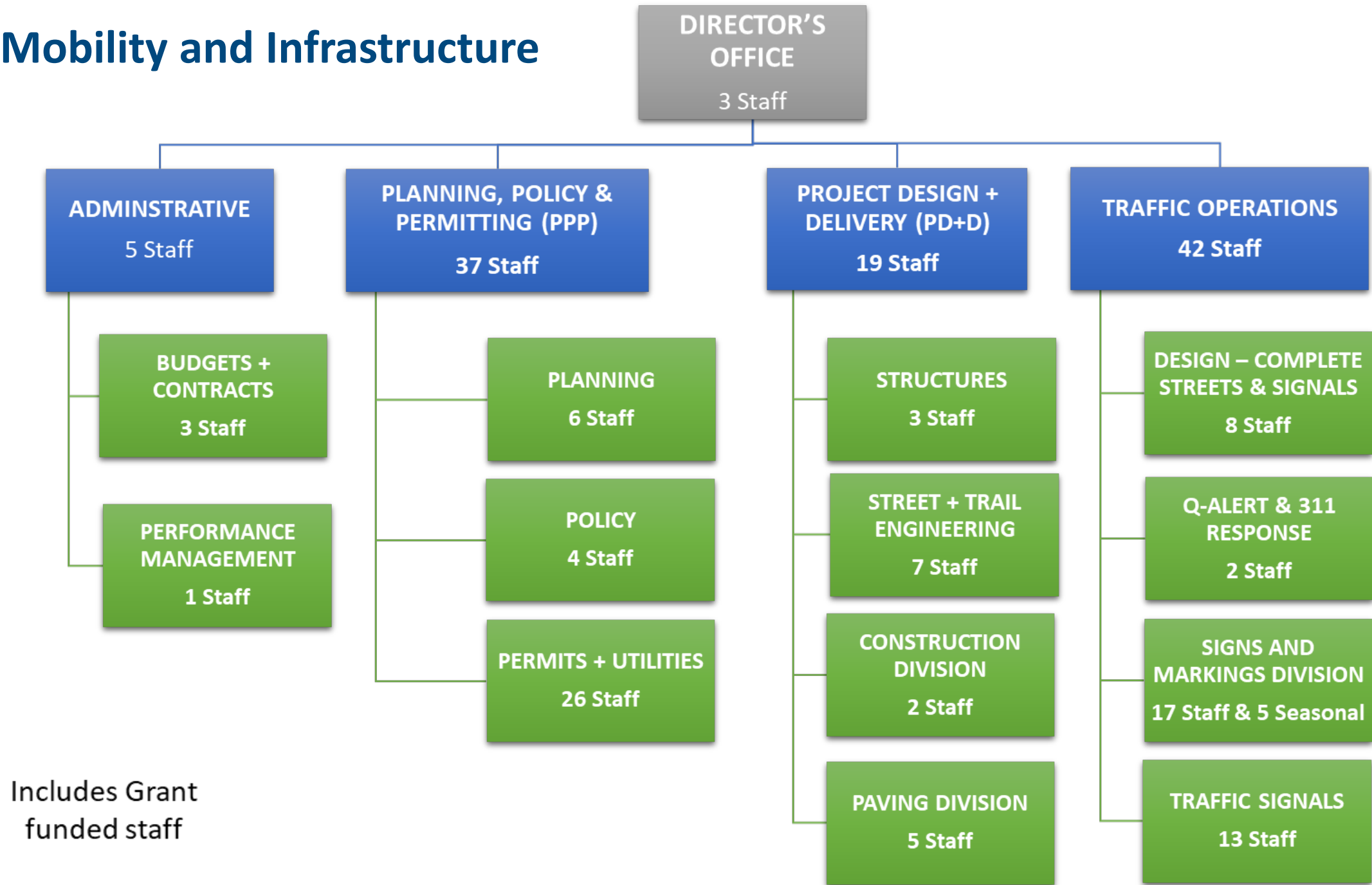
MOBILITY + INFRASTRUCTURE

BUDGET MEETING – DECEMBER 2021

2021 LOOK BACK | 2022 LOOK AHEAD



Mobility and Infrastructure



Includes Grant
funded staff

MISSION + GOALS

MISSION

Provide the physical mobility necessary to support the social and economic mobility of the people of Pittsburgh through the management, design, improvement, and operation of the public right of way.

GOALS

- No one dies or is seriously injured traveling on city streets.
- Every resident can access fresh fruits and vegetables within 20 minutes (without requiring a private vehicle).
- All trips less than 1 mile are easy and enjoyable by walk, roll or bike.
- No household must spend more than 45% of income on housing + transportation.
- Our streets reflect the values and pride of our city.



ASSETS TO MAINTAIN

- 1,060 linear miles of streets (890 asphalt, 90 concrete, 80 brick/blockstone)
- 2,423 lane miles of streets
- ~ 115 miles of bike infrastructure including 40 miles of dedicated on street bike lanes.
- Tens of thousands of crosswalks and pavement markings
- ~800 sets of steps covering 23.3 linear miles
- ~44,000 street lighting fixtures
- 613 signalized intersections + ~10,000 traffic control fixtures
- > 850,000 street signs
- ~33 miles of guiderail
- ~1,000 Bike racks





2021 ACCOMPLISHMENTS

2021 ACCOMPLISHMENTS

Maintenance & Operations

- **57** miles of street resurfaced
- **17** concrete, brick and blockstone streets repaired
- Painted **300** miles of center line and **3,600** crosswalks
 - Added hi-viz thermoplastic crosswalks to in-house services (savings of ~\$5k per intersection vs. Contractor)
- Reduced sign and paint-related 311 response times to **under 2 weeks** for majority of cases
- Improved signal timing at **80** intersections





Brick Street Repair – Ryolite Way



Critical sidewalk gaps – Fisher Street



Henderson Street Wall

2021 ACCOMPLISHMENTS

Maintenance & Operations

- Major maintenance on **5** bridges and advanced design for **6** more
- Landslide mitigation at **11** locations
- Total Sidewalk inverted-u bike rack installation - **250**
- Authorized 190 work orders totaling \$13.8M
- Approved payment on all projects (includes Paving) totaling ~ \$46.1M





Eads Street – Before and After



Cowley-Goettman Park slope stabilization

2021 ACCOMPLISHMENTS

Vision Plan /Transportation Plan

Pittsburgh's 2070 Mobility Vision Plan (Completed)

DOMI successfully completed Pittsburgh's 2070 Mobility Vision Plan, a long-range roadmap for the city, which aims to guide infrastructure investment and improve mobility justice over the next 50 years. The goal of this plan is to efficiently move a growing city towards a sustainable, climate friendly, active, and fun place to live.

Strip District Mobility Plan (Final public comment period closes 12/10)

The Strip District Mobility Plan envisions a transportation network that supports existing businesses and sustains growth by maximizing the use of limited space for safe, enjoyable multimodal travel. To support this vision, the Plan process evaluated existing and projected land use and travel patterns to identify a series of recommendations to improve access, safety, and comfort for all users of the transportation network to, through, and within the Strip District.



2021 ACCOMPLISHMENTS

Neighborhood Plan/Transportation Plan

- **Homewood Active Mobility Improvement Plan** (Final public comment period on- going)

This plan is built upon the comprehensive plan to improve mobility and safety, encourage physical activity, and provide better access to the public transportation along with local recreational, religious, educational, and business destinations. DOMI is working with DCP, PAAC, county (funding agency), and neighborhood stakeholders to identify future improvement projects.

- **The Oakland Plan- Mobility Elements** (Draft development)

DOMI is working with DCP, PAAC, and neighborhood stakeholders to identify the mobility goals and to craft implementation strategies along with potential transportation projects in the mobility section of the comprehensive plan.

- **Greater Hill District Master Plan- Transportation & Mobility Studies** (Draft development)

This is part of the Greater Hill Master Plan which focuses on the ability for users of all ages and abilities to easily and safely access jobs, schools, grocery stores, doctors, recreational opportunities, and other services that are essential to the function of any city. DOMI is working with DCP, PAAC, and neighborhood stakeholders in this plan development.



2021 ACCOMPLISHMENTS

Safety

- Neighborhood Traffic Calming program processed **~250 applications**, collected data at **195 sites**, and completed **13 projects** across the city
 - All aspects of project delivery from evaluation to inspection are handled by only 1.5 full time equivalents, one of which is an embedded consultant
- Successfully implemented **first raised crosswalk**
- Installed enhanced pedestrian crossings at more than **40** intersections
 - All aspects of project delivery from evaluation to inspection handled by approximately 1.5 full time equivalents while assisting with other duties
- Completed major signal upgrades at **6** intersections
 - Signal team concurrently leading four major corridor projects of note
- Safe Routes to School program (SRTS) began design for improvements at 4 schools and hosted first Walk to School Day with Golden Sneaker Award





Darlington Raised Crosswalk



Implementation of Manchester
Chateau Neighborhood Plan
recommendations- Pedestrian and
Bicycle Improvements



Safe Routes to School
outreach at OpenStreets
PGH



Pittsburgh Dilworth awarded
City's first Golden Sneaker
Award for Walk to School Day

2021 ACCOMPLISHMENTS

Complete Streets

- Completed **10 miles** of all ages and abilities bike(+) network
- Completed design for two additional projects ('22 construction)
 - Squirrel Hill East-West Connection Phase 1 and Melwood Connector.
- Design in final Stage - Aiken Ave. & Perrysville Ave. ('22 construction)
- Began design on three major projects:
 - Trolley Trail
 - Allegheny River Green Boulevard Trail (39th - 43rd Streets)
 - Davis Avenue Bicycle/Ped Bridge
- Supported design of more than **10 pedestrian safety projects**
- Completed Hatfield Connector design and construction **in-house**
- Installed first Parking Protected Bike Lane in July on Brighton Rd.





Brighton Road Climbing Lane



Davis Ave Bridge rendering



Negley Run Boulevard



Hatfield Connector, Lawrenceville Neighborway



Bus waiting platform – Biggs & Glenrose Streets

2021 ACCOMPLISHMENTS

Major projects

- Completed the I-579 cap project
- Completed the new West Ohio Street Bridge
- Started construction for Allegheny Circle conversion
 - (80% completed)
- Completed Vista Street steps
- Completed Lowrie Street Bridge
- Replaced Rialto Street steps





I-579 CAP



West Ohio Street Bridge

Vista Street Steps



Rialto Street Steps



2021 ACCOMPLISHMENTS

Public Space and ROW Management

- Issued more than **18,000 permits**
- Performed **50,000 inspections** for permits and 311 response
- Collected \$4.7 Million in permit revenue
 - Up from \$4.1 Million in 2020, \$2.9 Million in 2019, and \$2.7 Million in 2018
- Revisions to City Code to streamline encroachment permits (lower fees and limited City Council involvement) for minor & legacy encroachments
- Outdoor Dining and Retail - 107 commercial “streeteries” and sidewalk cafes; additional neighborhood slow streets, and curbside pick-up zones, 70 of which were renewed from 2020
 - Working to establish permanent program in 2022





2021 ACCOMPLISHMENTS

Bus Shelters and Streetlights

- Refurbished **28** existing shelters to like new condition
- Installed **15** new shelters
- City received **\$75,000** through bus shelter advertising contract and deposited those funds into the Shade Tree Trust Fund
- Responded to **1,425** streetlight maintenance requests from 311
- Installed 27 new ornamental streetlights on Walnut St.
- Completed artistic lights on 18th St. Steps

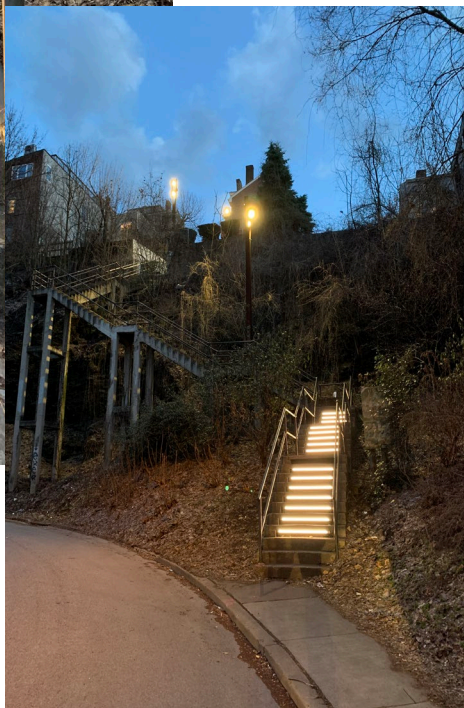
Chartiers Ave @ Middletown Rd



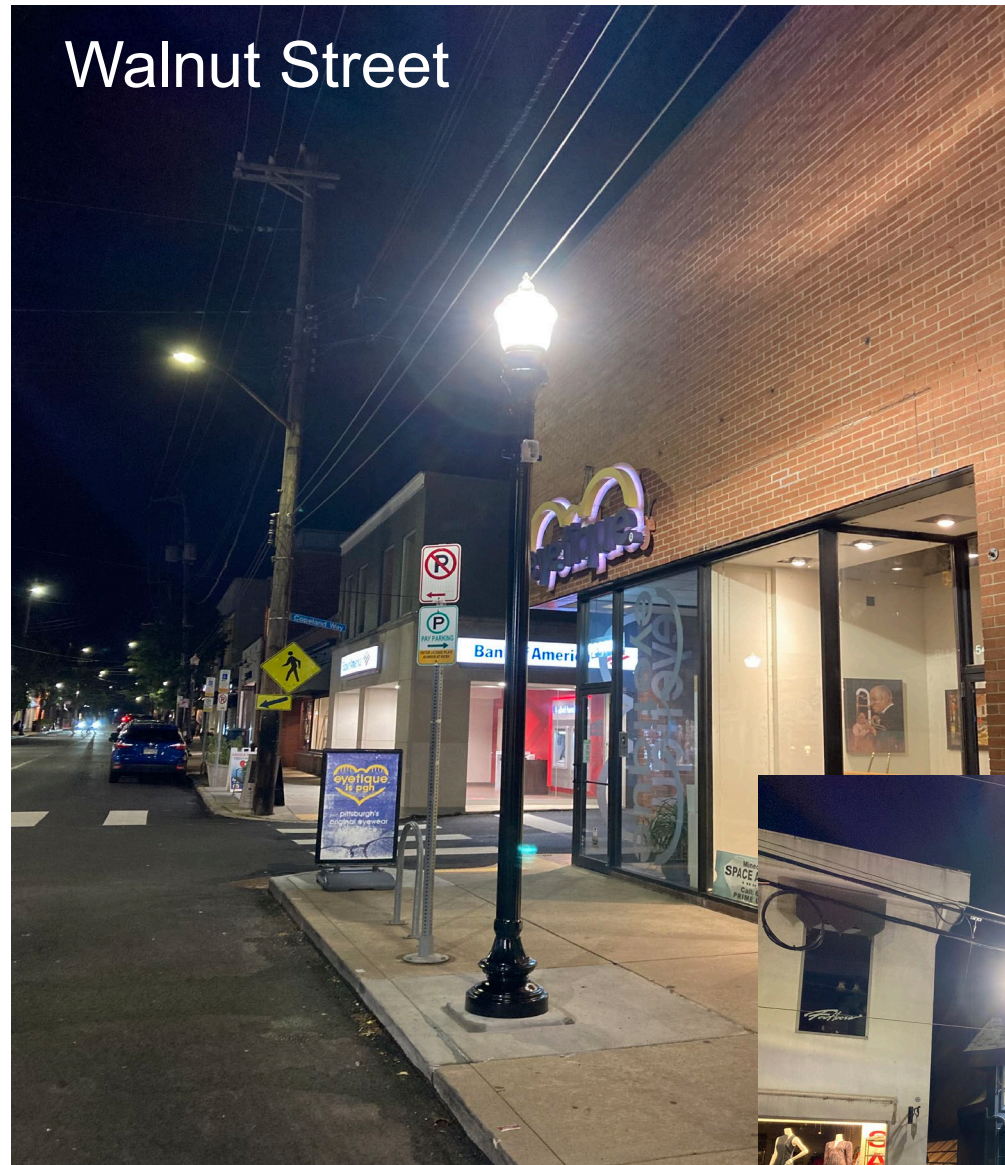
Butler St @ 39th St



18th Street Steps



Walnut Street



2021 ACCOMPLISHMENTS

Innovation

- Personal Delivery Device pilot with KiwiBot
- Leadership in Autonomous Vehicle testing
- Received grant and pursuing implementation of Smart Loading Zone pilot (Automotus)



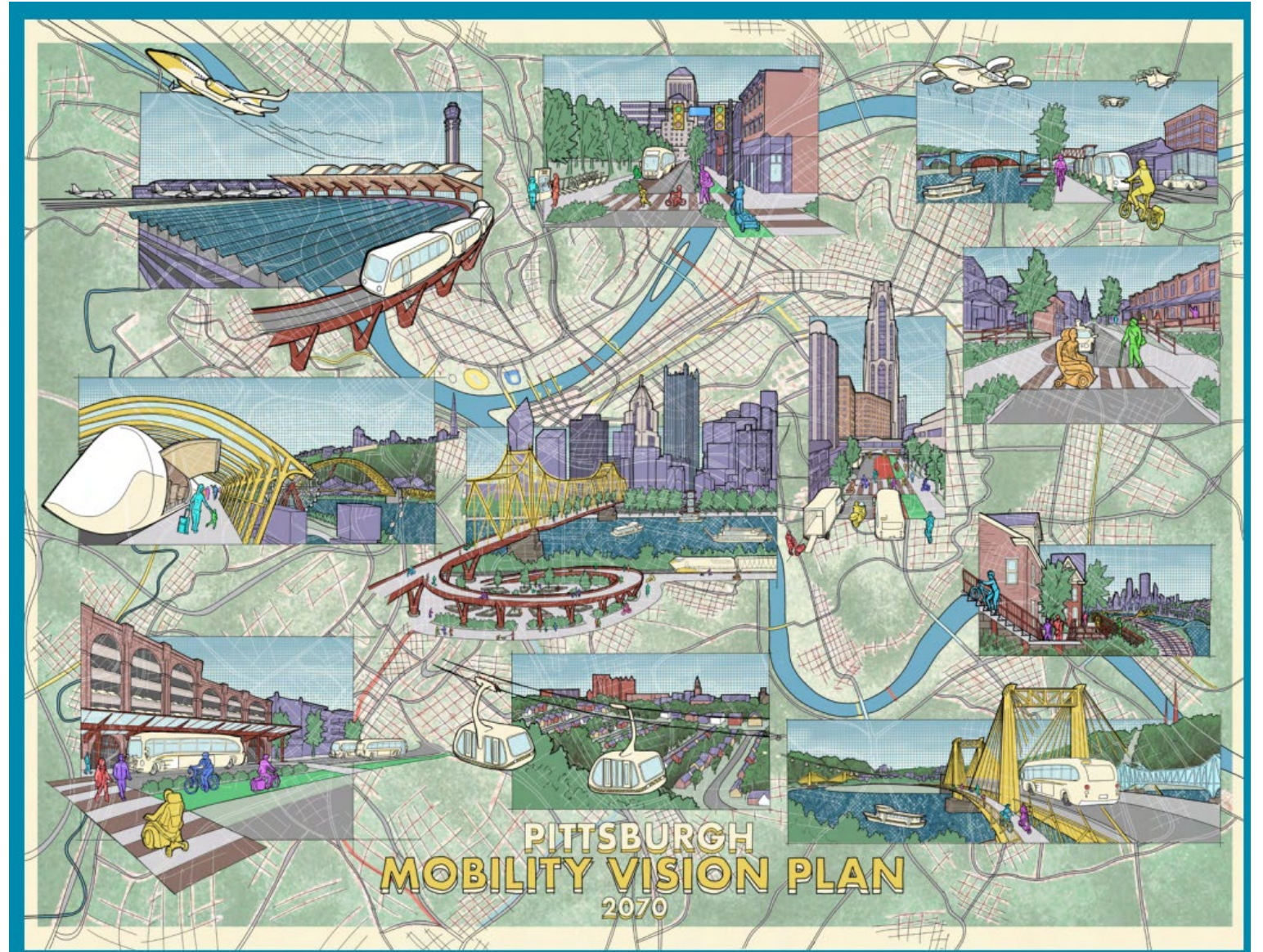
2021 ACCOMPLISHMENTS

Mobility Programs

- Launched MovePGH
 - **365,000** trips on SPIN scooters
 - **20** mobility hubs installed
 - **150** scooter hubs "corrals" installed
 - **7** Access Zones created
 - Providing discounts for scooter trips in Census Block Groups that rank high on equity criteria

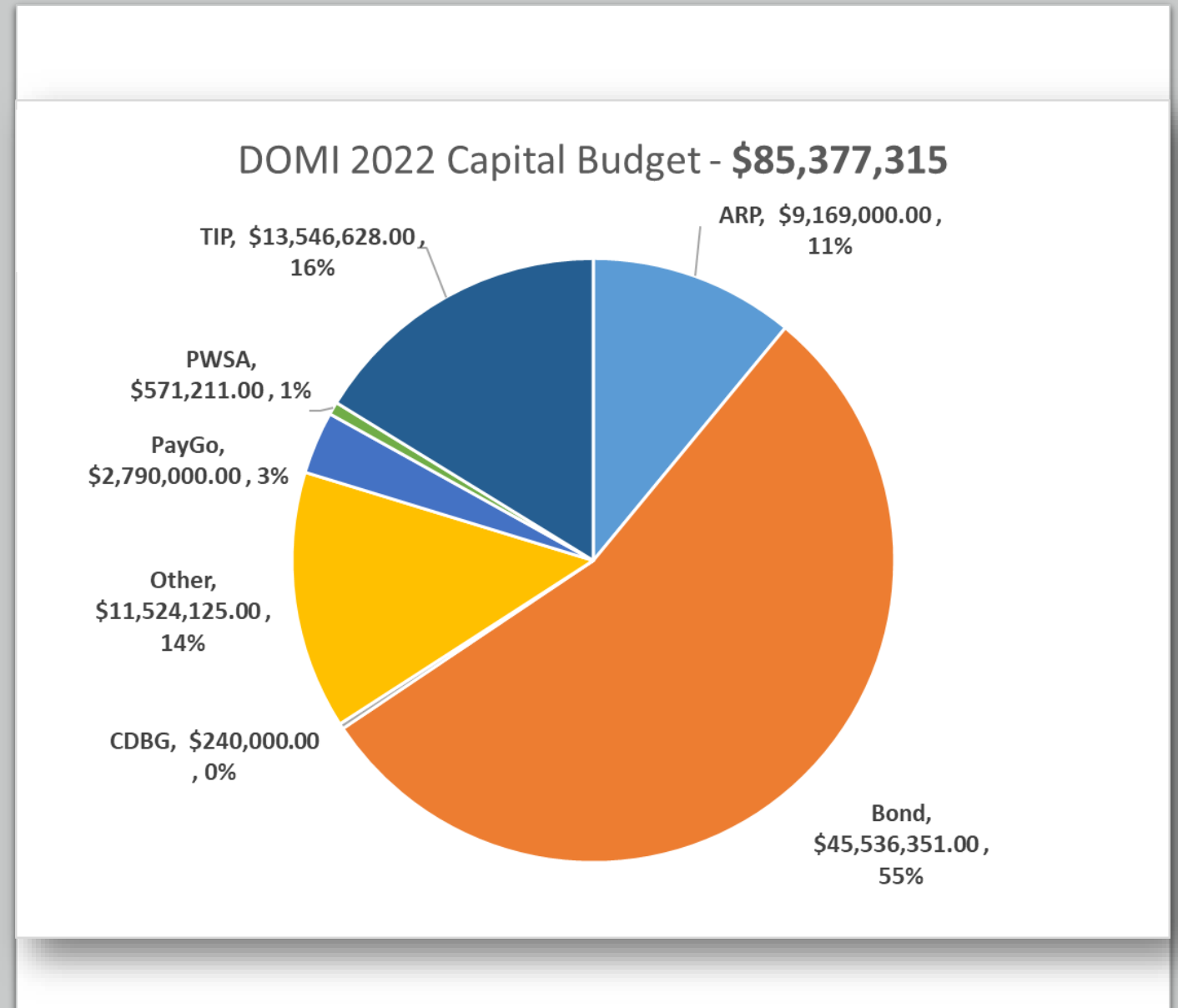


2022 ACTIVITIES + ACTION AGENDA



2022 CAPITAL BUDGET

- **57** unique projects
- 38% of the \$45.5M Bond funding is tied to Paving
- City receives project match funds equaling - \$35M
 - City contribution of \$31M
- Other major bond projects are:
 - LED Streetlight Upgrade - \$8M
 - Bus Rapid Transit - \$6.8M
 - Mt Washington PEMA Project - \$2.8M



SAFETY

2022 Priorities

- **(3)** corridor safety improvement projects
 - Anticipated streets include Hazelwood Ave, Virginia Ave, and Penn Ave
- **(2)** traffic calming projects per District
- **(3)** intersection safety improvements per District
- Minimum of **(6)** paint and bollard conversion projects
 - Upgrade existing locations with concrete
- Traffic Signal Corridor safety improvements
 - Liberty Avenue HSIP (9 signals), North Ave (7 signals), Frankstown Ave (8 signals)
- Continued Bike(+) Plan implementation
- Neighborhood Mobility Improvement Plan- East Liberty



ACCESS + RELIABILITY

2022 Priorities

- Critical sidewalk improvements
 - Irvine Street, Henderson Street, Broad Street, Thornton Street, and more...
- Additional connectivity projects (Trolley Trail, Allegheny Green River Blvd, Davis Avenue Bridge, Strip District connectivity, etc.)
- Signal enhancement projects (CBD signals Phase IV, 4 individual replacements citywide)
- East End – Oakland – Downtown bus rapid transit construction
- Mobility hub deployments (MovePGH)
- Healthy Ride bikeshare conversion to electric pedal assist
- Citywide Transportation Demand Management program
- Curb management



ADAPTABILITY + RESILIENCY

2022 Priorities

- Smart spines signal project (ATCMTD)
- Centralized Traffic Management Center
- Intelligent transportation system (ITS) network plan
- Electric vehicle charging infrastructure support
- Autonomous vehicle policy development and management
- Green infrastructure collaborations (21st Street Green Street, PWSA collaboration)
- Mt. Washington slope stabilization
- Wireless broadband management/digital equity
- LED streetlight conversion



PRESERVATION

2022 Priorities

- Street resurfacing
- Bridge projects
 - 28th Street Bridge, 30th Street Bridge, Swindell Bridge, Swinburne Bridge, Charles Anderson Bridge, S. Negley Avenue Bridge, priority bridge repairs, bridge maintenance program
- Signal projects
 - CBD signals, intersection upgrades
- Retaining wall maintenance
 - Ruthven Street, Fountain Street
- Slope stabilization
 - Oporto Street, Riverview Park, Brule Street, El Paso Street, etc.
- Flood mitigation
 - Rhine Street, East Woodford Street, Hornaday Road, etc.
- Steps projects
 - McCandless Ave, 57th Street, Frazier Street, Chauncey Street, Valonia Way, Halpin Street, Emerald Way, Monticello Street, Harding Way



CUSTOMER SERVICE

2022 Priorities

- Renewed focus on public engagement in our planning and project design process
- DOMI as a household name
- Increased transparency in policies and procedures by publishing more documents online
- Increased reporting and performance management
- Public-facing permit data and project updates



ORGANIZATIONAL CHANGE

2022 Priorities

- Staff development, retention, and overall support
- Enhancing and expanding planning function
- Improved public engagement + communications
- Process improvements
- Performance and Staff Development plans
- Improved internal communications



MOBILITY + INFRASTRUCTURE

THANK YOU STAFF!!!

