



DENVER
THE MILE HIGH CITY

DEPARTMENT OF TRANSPORTATION AND INFRASTRUCTURE

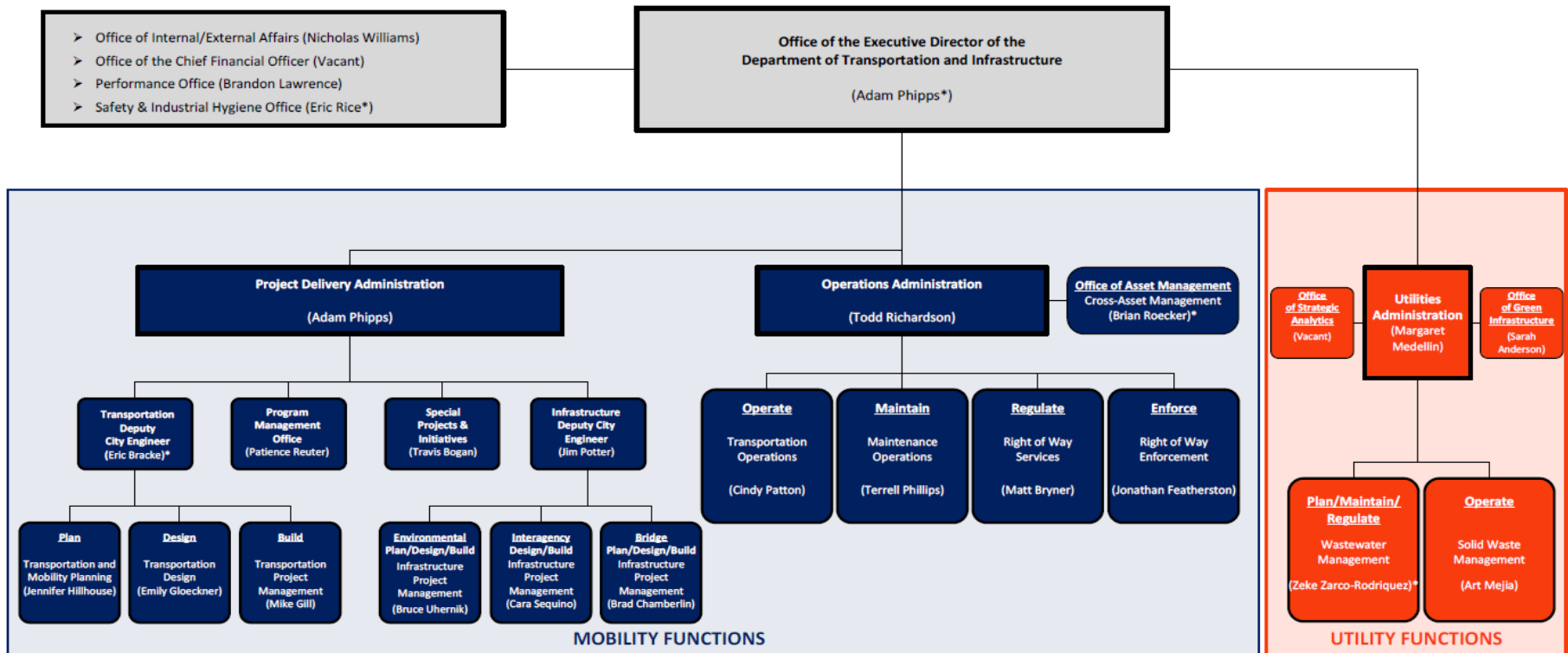
2022 Budget

Denver Department of Transportation and Infrastructure, through its employees, enhances the quality of life in Denver by efficiently delivering effective, high quality, safe, and equitable public infrastructure and services.



Department Organization Chart

DEPARTMENT OF TRANSPORTATION AND INFRASTRUCTURE ORGANIZATIONAL CHART



*Interim

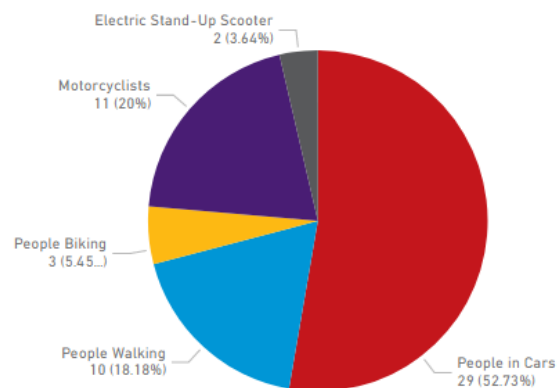
Distribution

July 19, 2021

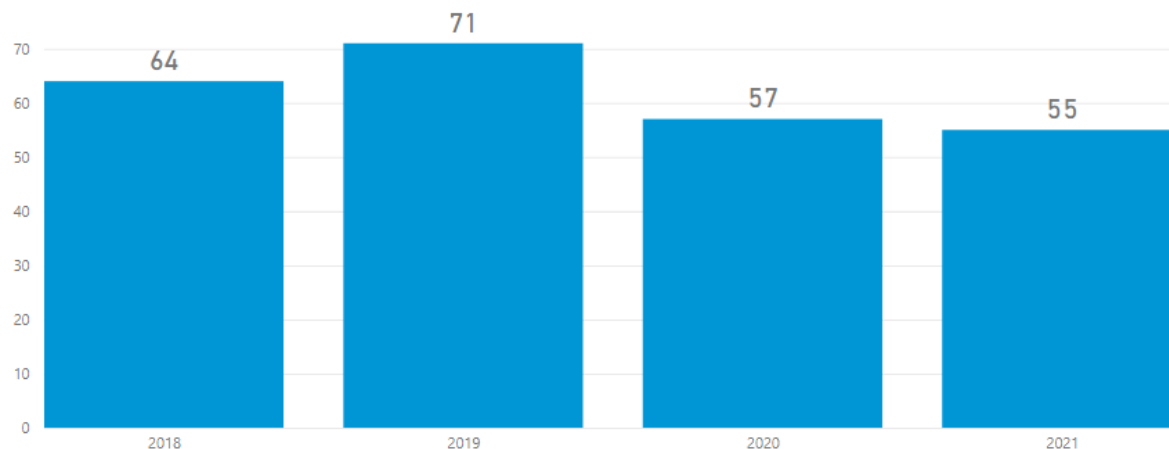
Vision	To be the ideal Department of Transportation and Infrastructure in the country.	
Mission	The Department of Transportation and Infrastructure, through its employees, enhances the quality of life in Denver by efficiently delivering effective, high quality, safe and equitable public infrastructure and services.	
Strategic Focus Areas	<ul style="list-style-type: none">• Invest in our People• Operate with Discipline• Use Data to Drive Decisions• Deliver Results	
Financial Resource Overview	<p>The Department of Transportation and Infrastructure is comprised of 5 Administrations and 16 Divisions utilizing various funding sources including:</p> <ul style="list-style-type: none">• General Fund• Wastewater Enterprise Fund• Compost Special Revenue Fund• Asphalt Plant Internal Service Fund• Neighborhood Sidewalk Repair Special Revenue Fund	

Key Strategic Metrics: Vision Zero - Fatality

2021 Year Traffic Fatalities by Mode

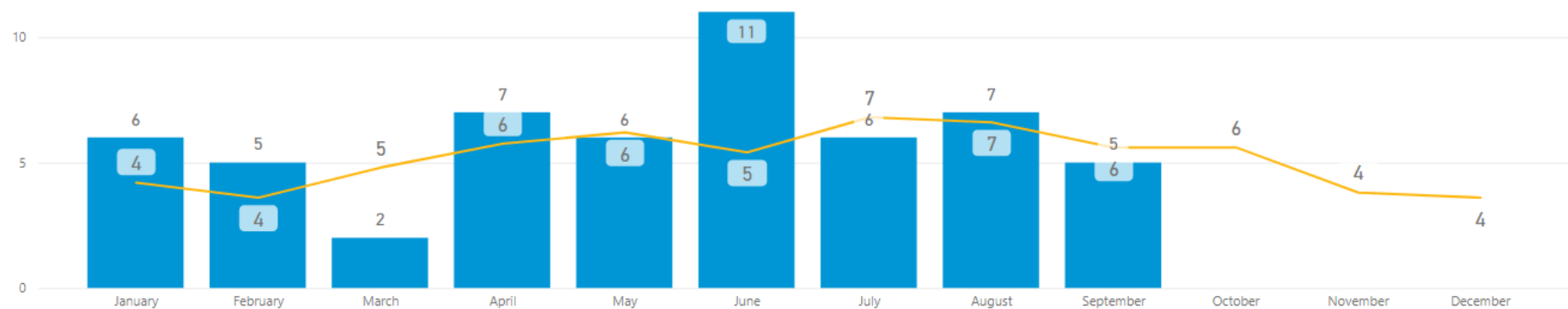


Traffic Fatalities by Year



Traffic Fatalities This Year and Prev 5 Year Average by Month

● Fatalis This Year FARS2 ● Prev 5 Yr Avg FARS2





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Equity Commitments and Investments



Key Equity Work and Accomplishments

DOTI's equity work and accomplishments are reflected in several areas:

- TALE Program and Investments- DOTI invests resources to expand recruitment outreach beyond traditional job postings to attract and recruit a talented and diverse workforce
- One Build Equity Considerations- DOTI applies an equity lens to all projects and programs during the 6-year planning process and again with each annual budget request

2022 Budget Expansion Equity Considerations

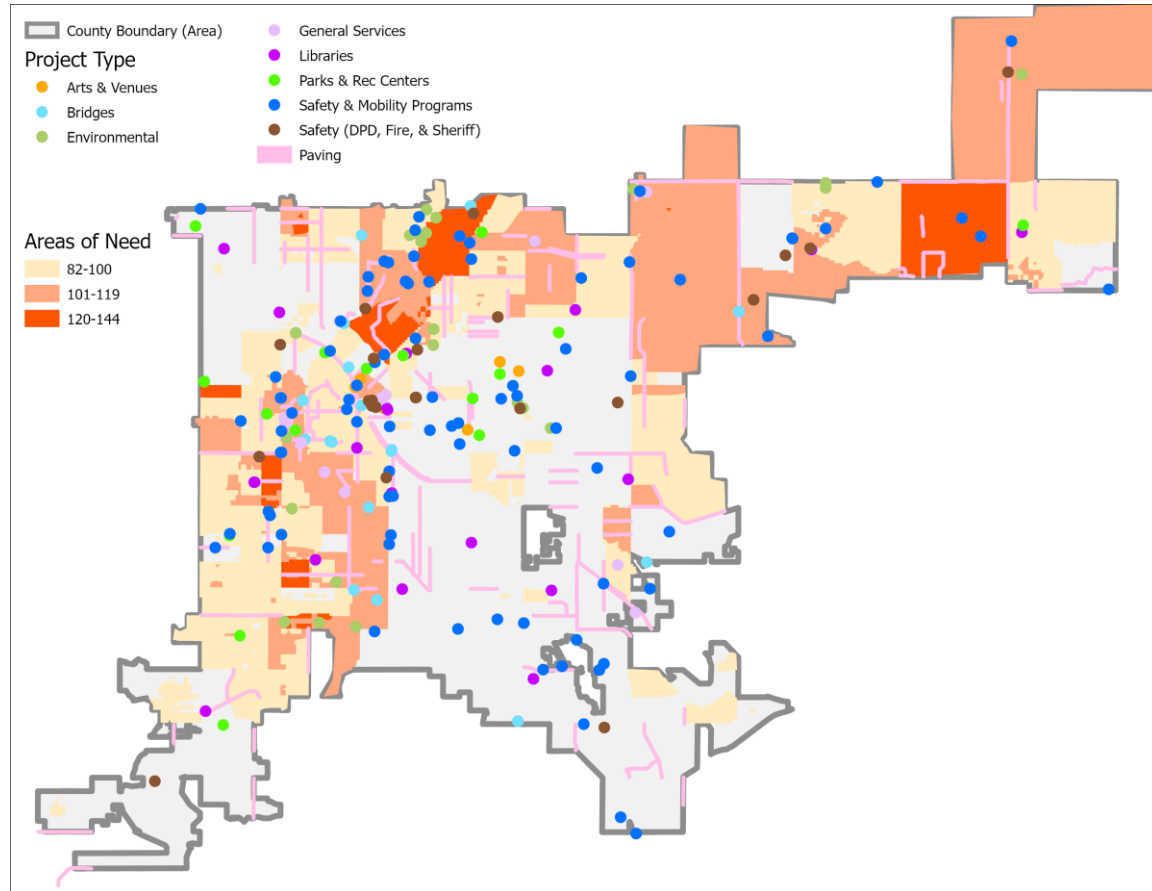
- Equitable Investments- Ensuring investments focus on bringing every area of the City up to the same standards
- Equitable Contracting- Utilizing SBE/MBE/WBE as suppliers whenever possible
- Equitable Workforce Development- Ensuring development opportunities are extended to all levels of the Department

Note: 82% of all projects are focused in areas of need

Equity Map

SPARK, RISE, 6-Year Plan

Equity Group	Project Type	Dollars Invested (millions)
82-100		
	Arts & Venues	\$2.2
	Bridges	\$22.3
	Environmental	\$136.4
	General Services	\$1.9
	Libraries	\$11.5
	Parks & Rec Centers	\$28.7
	Paving	\$21.9
	Safety & Mobility Programs	\$150.5
	Safety (DPD, Fire, & Sheriff)	\$0.6
	TOTAL	\$376.0
101-119		
	Arts & Venues	\$23.9
	Bridges	\$80.1
	Environmental	\$43.5
	General Services	\$48.4
	Libraries	\$0.2
	Parks & Rec Centers	\$9.5
	Paving	\$17.6
	Safety & Mobility Programs	\$89.1
	Safety (DPD, Fire, & Sheriff)	\$30.1
	TOTAL	\$342.5
120-144		
	Bridges	\$0.2
	Environmental	\$22.7
	Paving	\$4.5
	Safety & Mobility Programs	\$40.6
	Safety (DPD, Fire, & Sheriff)	\$0.2
	TOTAL	\$68.2
	TOTAL IN AREAS OF NEED	\$786.6
	TOTAL MAPPED	\$1,418.3
	PERCENT IN AREAS OF NEED	55.5%





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DOTI Budget



Budget Methodology



Keep our city running and our residents and visitors moving

Expanding or restoring positions related to delivery of essential city services

trash, street maintenance, City cleanliness, traffic ops

Support for infrastructure programs

Expansions to support interagency infrastructure backlogs and legal mandates

ADA, Elevate Denver Bond, SPARK, RISE



Greater use of professional services to improve customer experience

Consistent translation and interpretation services to communicate with Denver residents about all DOTI projects and programs



2022 DOTI Budget Philosophy

Prioritization Considerations

- Ensuring DOTI Delivers on the Mayor's \$1.6 Billion Dollar Capital Commitment
- Restoration of Essential Projects and Services to pre-Pandemic Levels Including Addressing Service Backlogs from Position Freezes and Vacancies
- Enhancing the Safety of our Employees and Residents
- Attracting and Retaining a Talented and Diverse Workforce

Equity Considerations:

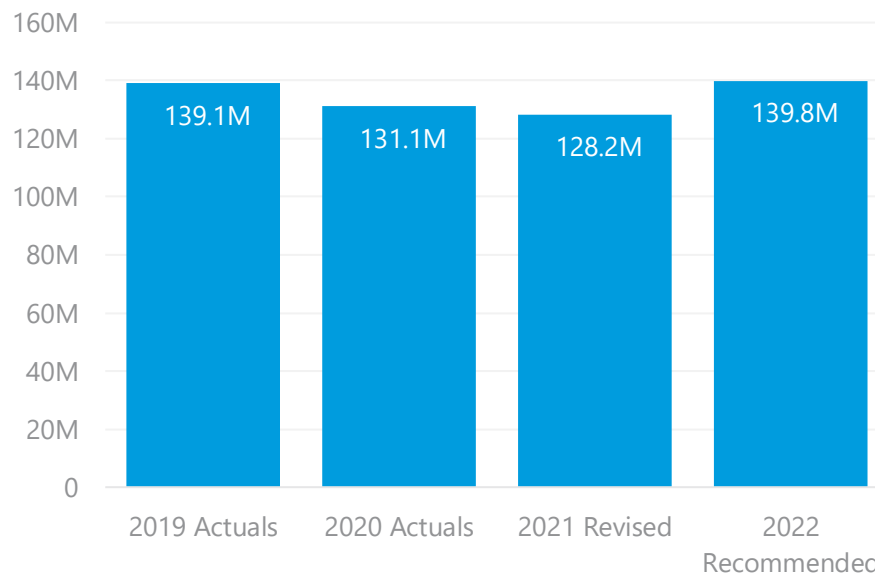
- Directing Economic Resources to Historically Marginalized Groups and Neighborhoods by Dedicating 82% of our Capital Investments to these Groups and Areas
- Organizing Partnerships by Utilizing DSBO's SBE Exemption to Procure Diverse Small Business Owners
- Shifting Vital Workflows to Address Concerns in Equity Neighborhoods

DOTI General Fund Expenses and FTEs

Total FTE

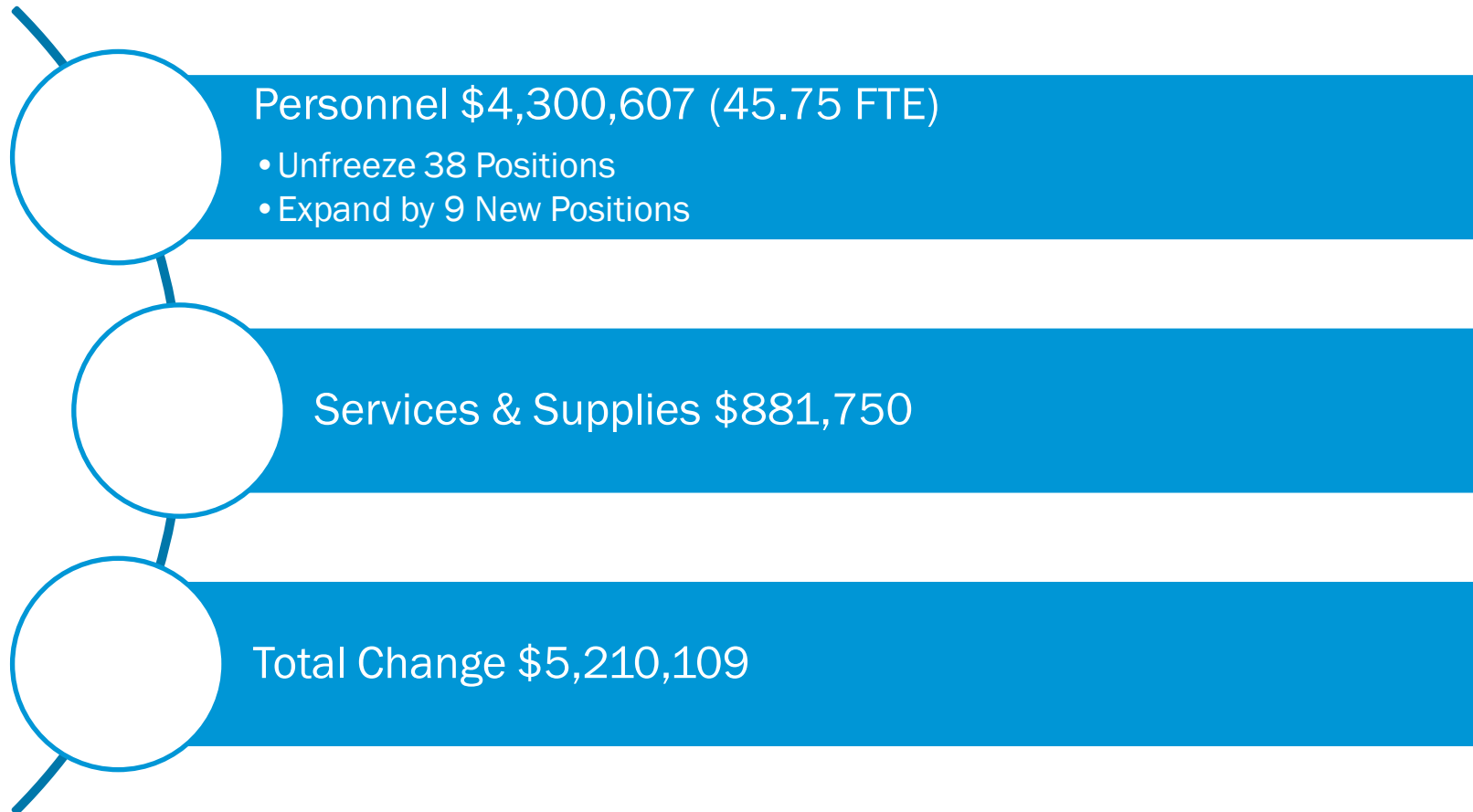


Total Expenses



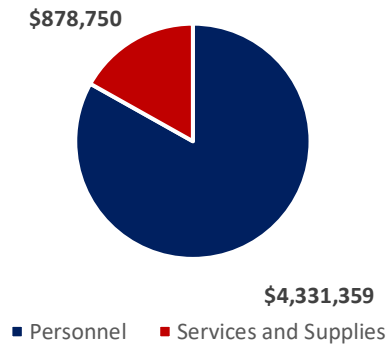
General Fund Change Summary

2022 NET CHANGE

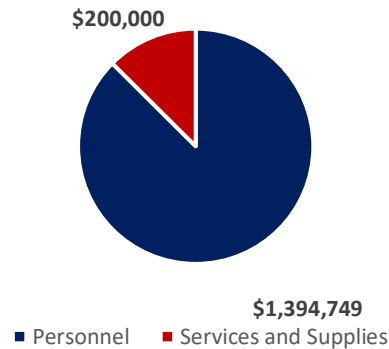


Expansions by Administration and Expense Category

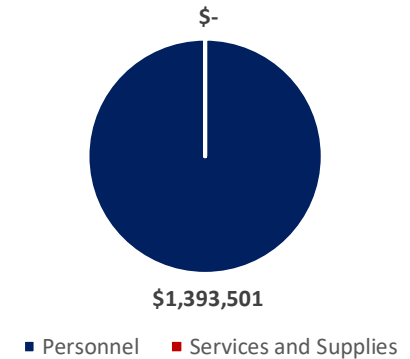
General Fund



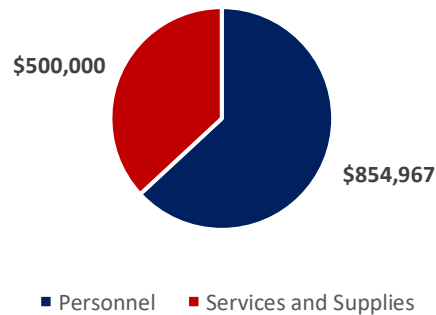
Project Delivery



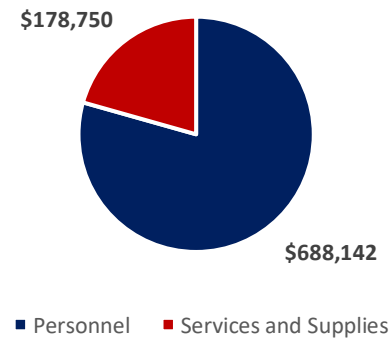
Operations



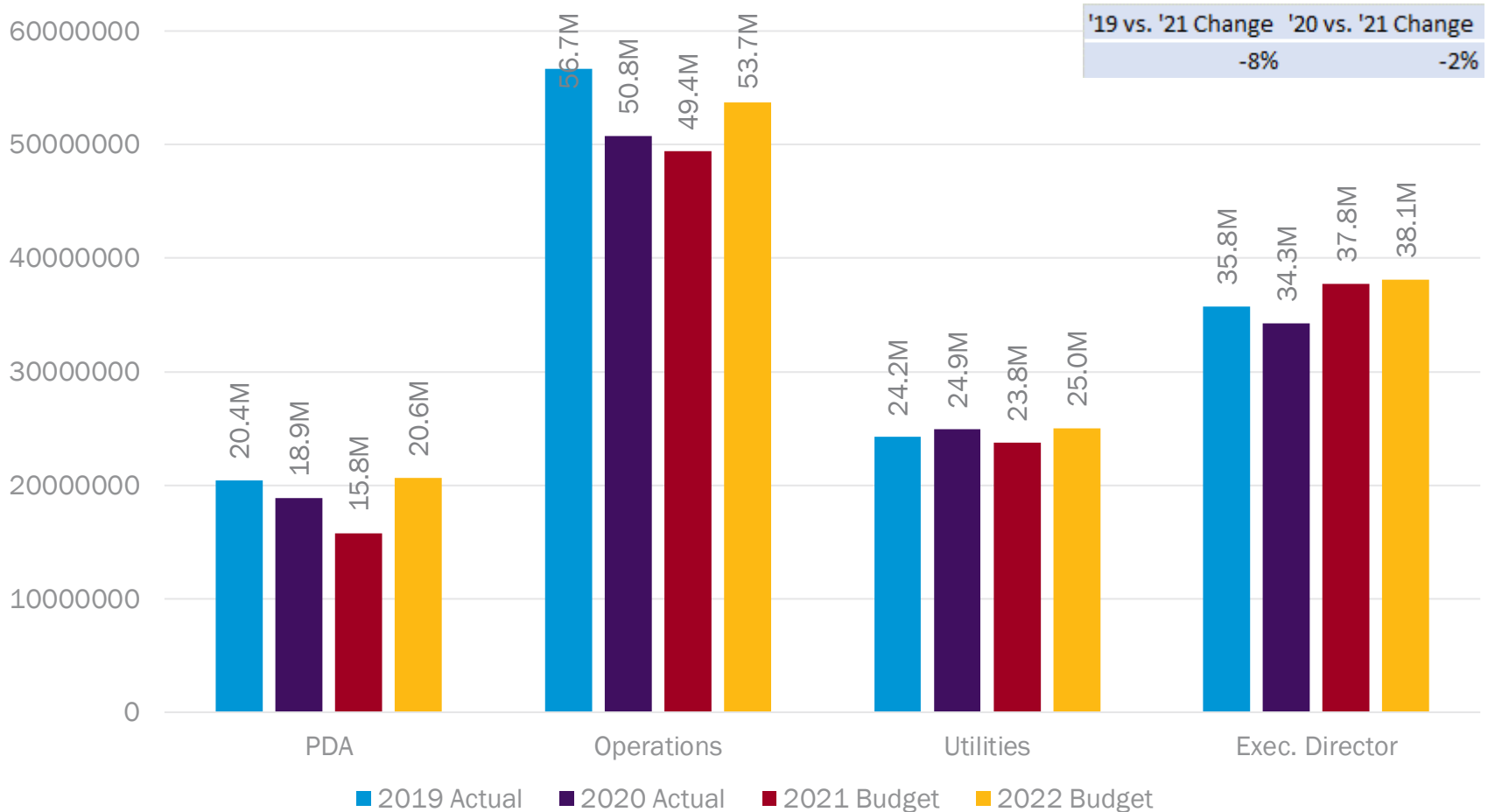
Utilities SWM



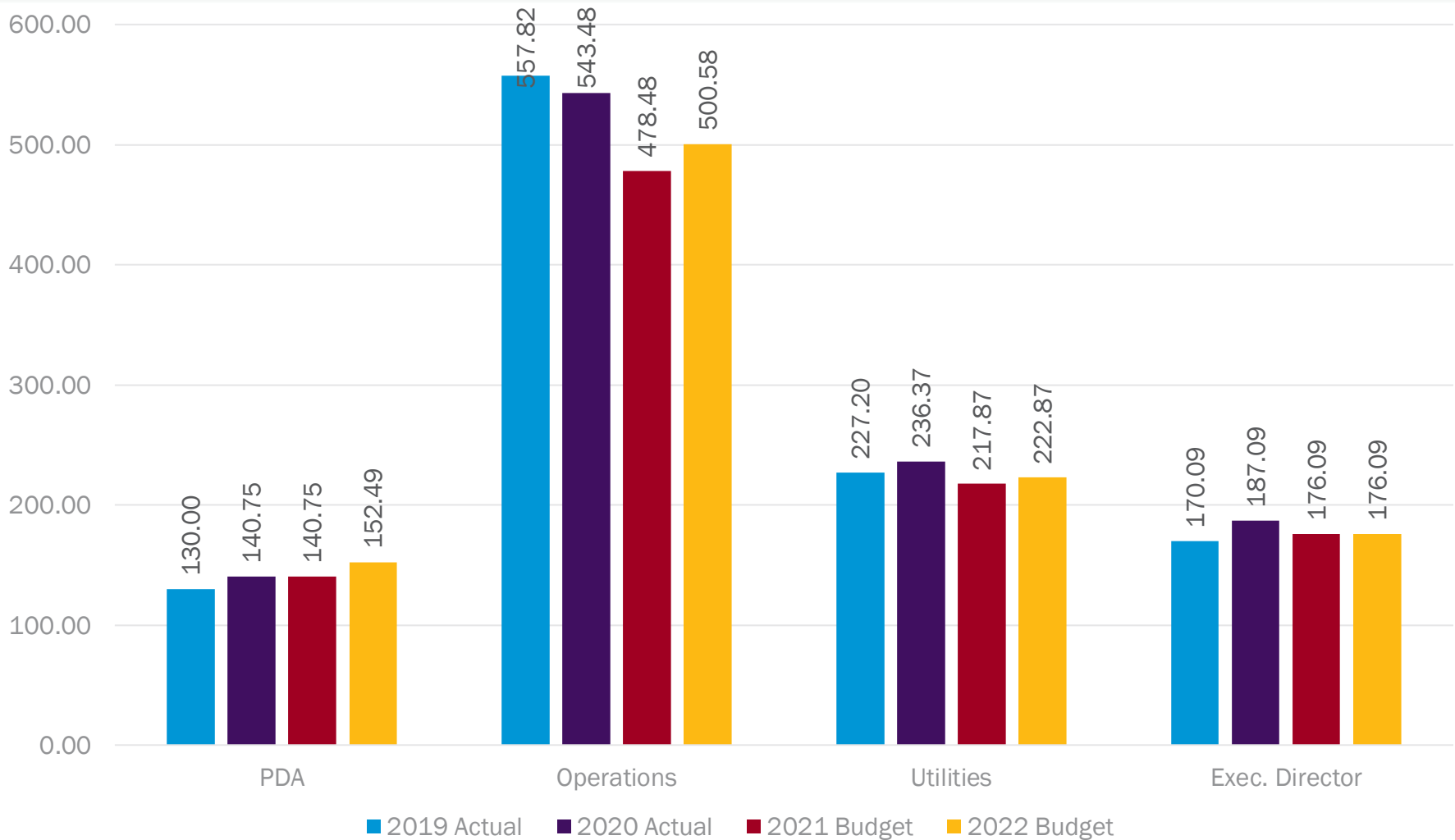
Executive Director



YOY General Fund Budget



YOY General Fund FTE



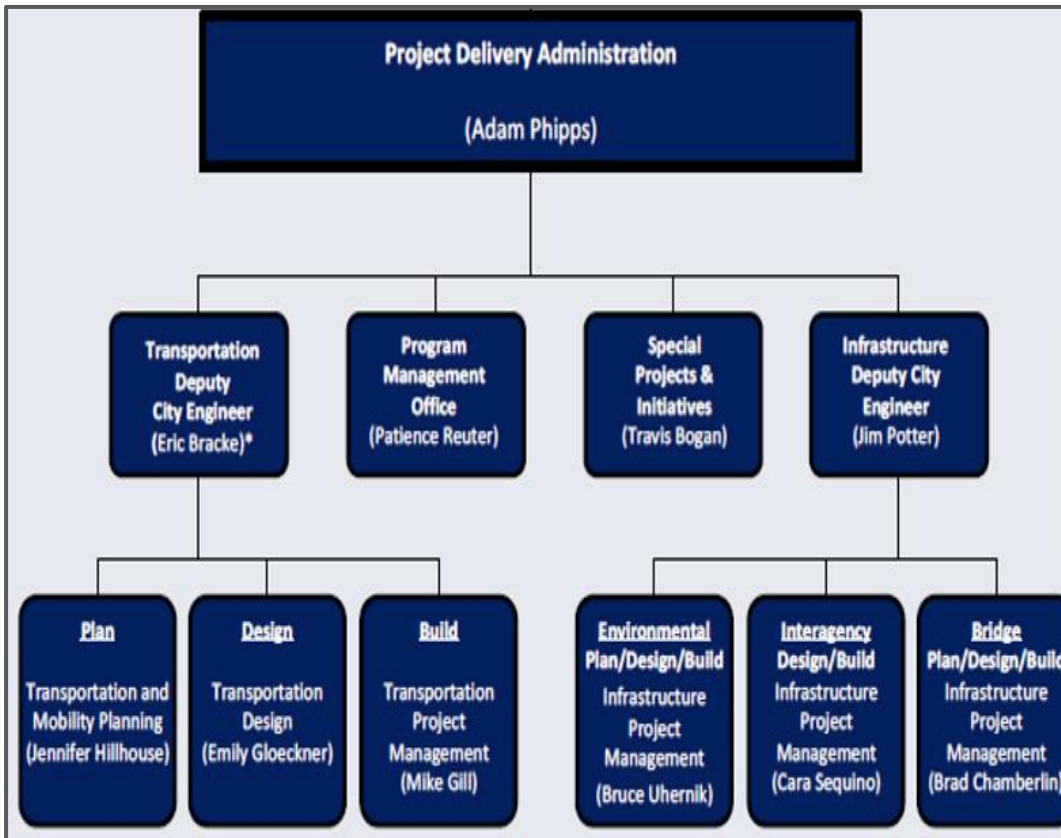


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Project Delivery Administration



Project Delivery Services and Challenges

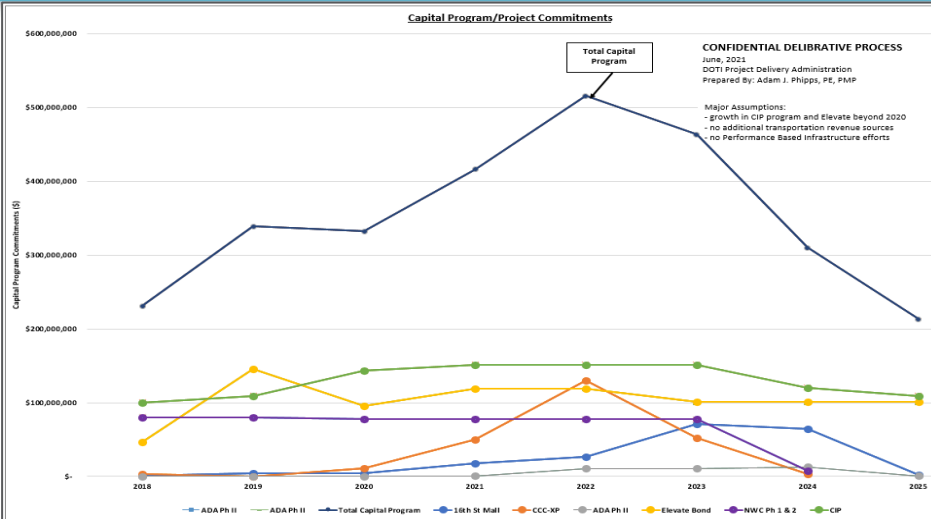


Fundamental Services

- Ensure safety for all modes of transportation, development and community requests
- Acceleration of capital projects
- Strategic planning efforts
- Citywide programmatic support
- Special Initiatives

Project Delivery

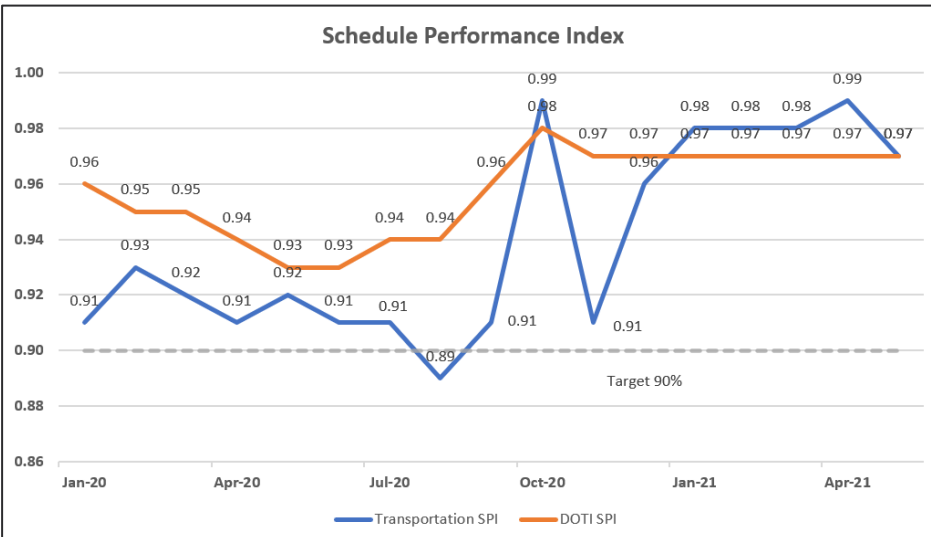
Key Strategic Metrics & Equity Framework



Budget Equity Framework Summary

The ADA is a federal law that protects the rights of people with disabilities. This law ensures equitable access to facilities and transportation.

All other initiatives support SPARK, RISE and citywide bridge infrastructure, which supports communities, neighborhoods and council districts citywide.



City Council Priority Summary

Priority 4: support recovery of our workforce and local businesses through infrastructure construction projects.

Priority 6: support multimodal transportation connections by maintaining our bridge infrastructure.

Project Delivery Build Personnel

Personnel + Services/Supplies	FTE
\$1,394,749	4.17* – Unlimited + 3.0 – Limited = 7.17

5 PMs, 1 Manager, and 1 Project Inspector to support the SPARK and RISE initiatives and the city's ADA settlement.

ADA Work is a City Legal Obligation Requiring Completion in 1-4 years

- ADA Phase II Dept of Justice Settlement
- Address ADA improvements at 18 city owned facilities
- ~\$53M, of which DOTI is expected to implement \$36M

Team Health (based on workload) is "At-Risk"

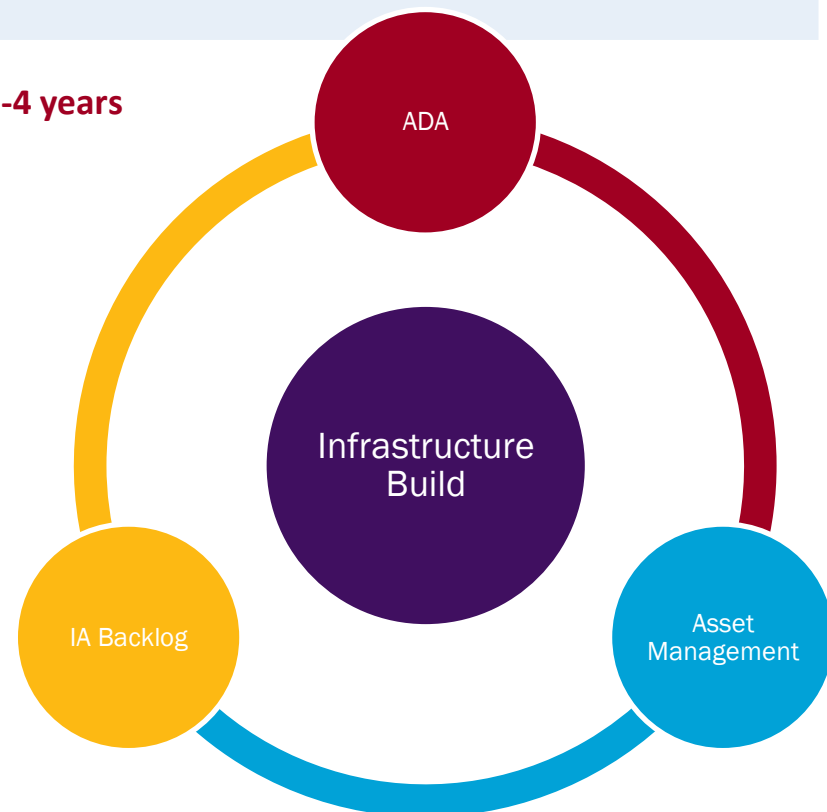
- \$241M in active project value
- 255 projects assigned
- 18 projects delivered by additional resources

Execution of Asset Management Projects

- Bridge inventory grown 50%+ since 2000 (399 to 608)

Execution of Transportation Projects

- The addition of these positions will also ensure that DOTI meets the transportation portion of our capital commitments.



* Two unlimited positions have June 2022 start date; thus, partial FTE count

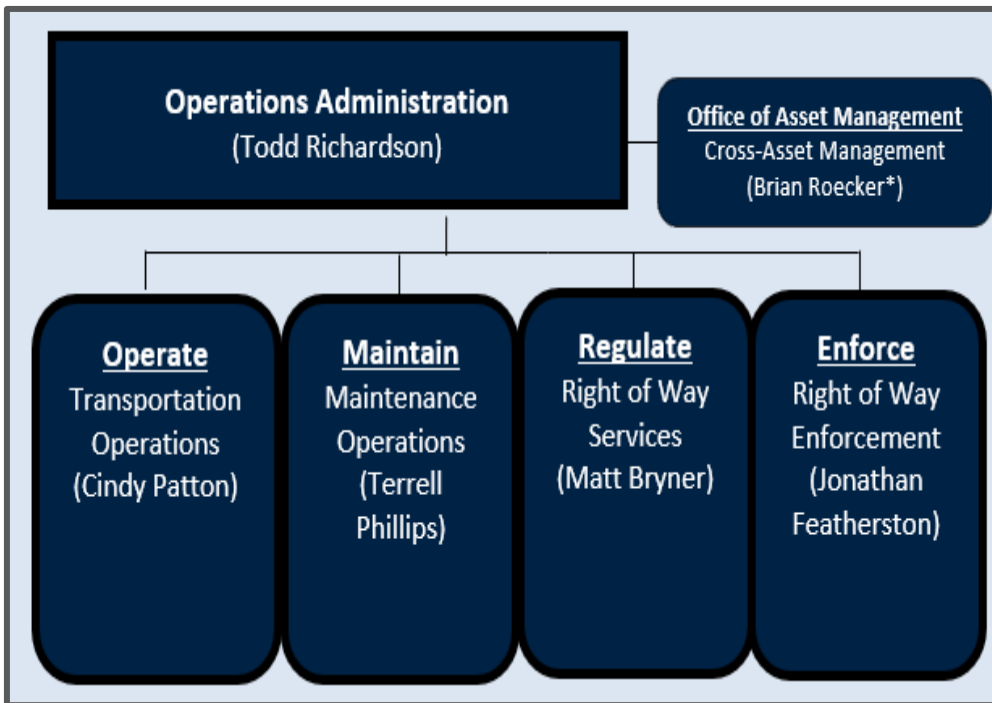


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Operations Administration



Operations Services and Challenges

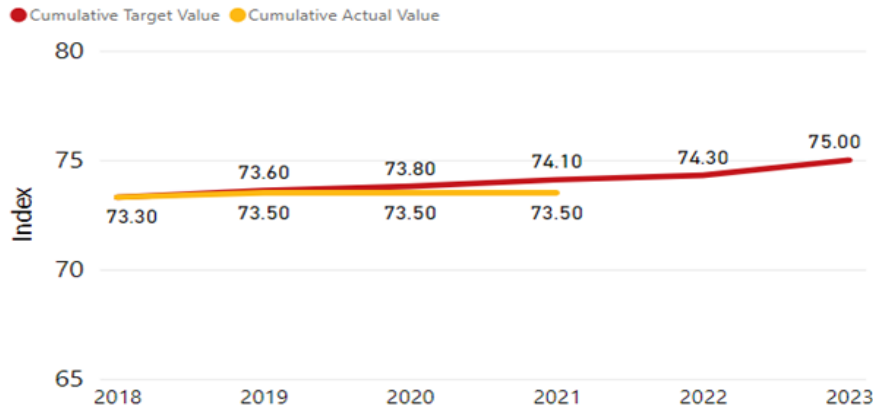


Fundamental Services

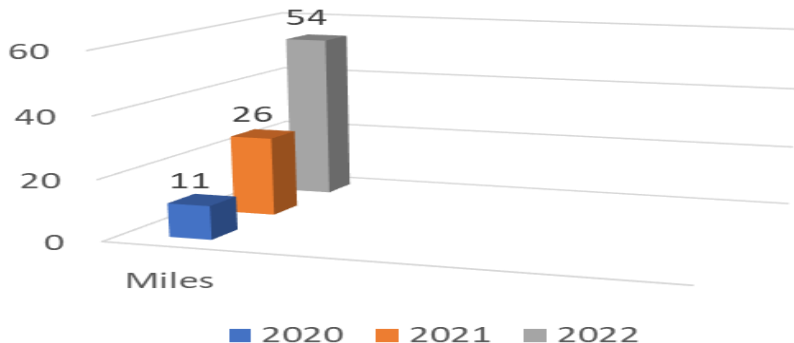
- Snow Removal, Paving, Sweeping
- Signal network ops / maintenance
- ROW development & construction
- ROW enforcement
- CIP Maintenance

Key Strategic Metrics & Equity Framework

Pavement Condition Index



Protected Bike Lanes



Budget Equity Framework Summary

Street Maintenance serves all communities within Denver keeping high standards for the maintenance of our city streets. Increasing our workforce is part of the Economic Recovery effort to keep our staff at operational levels.

As projects are developed in equity areas, the traffic count program will be essential to monitor utilization of new investments (i.e. bike facilities, shared streets, etc.). The count program can drive our investments, test our goals and demonstrate success or where additional attention is needed.

City Council Priority Summary

Priority 6: support multimodal transportation connections through maintaining current street assets and monitor the use of newly installed multimodal infrastructure.

Street Maintenance Personnel

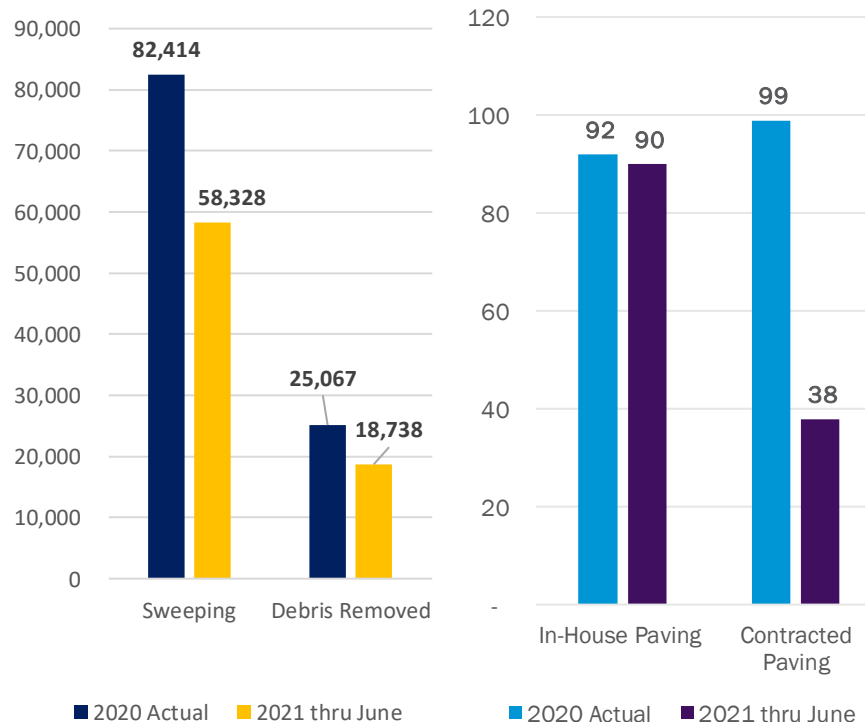
Personnel + Services/Supplies	FTE
\$838,479	11.0 – Unlimited

11 FTE restored to ensure the effective maintenance and levels of service for the Street Maintenance Snow and extensive patching programs for the City of Denver.

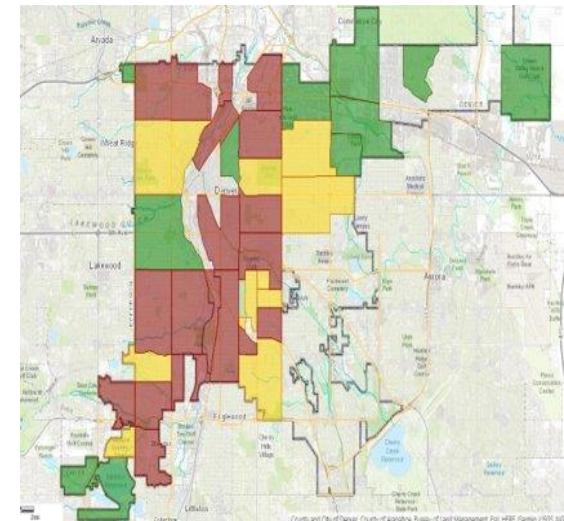
Requested Positions:

- 5 Equipment Operators
- 2 Semi-Tractor Trailer Operators
- 2 Operations Supervisors
- 2 Utility Workers

Unfreezing these positions will allow DOTI to begin to address a backlog of alley paving and to increase infrastructure maintenance. DOTI will also realize cost savings on installation of ~30 lane miles of street paving, currently installed by private vendors.



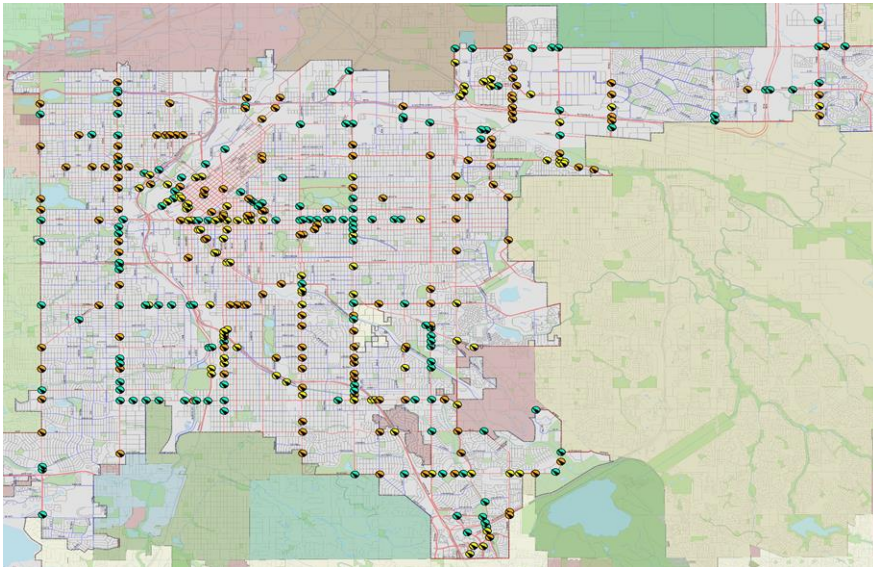
Sweeping Ratings; Green = Exceeds, Yellow = Meets, Red = Needs Improvement



Transportation Operations Personnel

Personnel + Services/Supplies	FTE
\$101,169	1.0 – Unlimited

This position is dedicated to managing the city's in-house vehicle/bike count program and was ran for 10+ years until that employee retired under SIP in 2020. The restoration of the position will allow the count program to resume, emergency signal maintenance/identification and continued monitoring of special programs, such as TRECS.



Teams are redirecting tens of thousands of dollars to plug the gap of this frozen position.

Currently Denver has a total of 328 devices in the field, with plans to install new devices and replace old devices on an annual schedule, upgrading/installing at least four intersections per year. There are currently 242 intersections which have Econolite devices installed, with 94 intersections slated to be upgraded with newer technologies.

Outsourced 24-hour counts can cost \$1,200/per location or more – 10x the in-house cost.

2021 ARPA Transfers to 2022

General Fund: Operations

Restoration/Supplemental Services	2022 Amount
Street Maintenance Overtime	\$89,400
ROWS Senior Engineer and Inspector (2 FTE)	\$223,031
ROWE Agent II and Boot Investigator (2 FTE)	\$142,422
Total	\$453,853

ARPA Budget Equity Summary

Services provides permitting and inspection services that ensure equitable construction services across the City. Maintenance and Transportation Operations serves communities within Denver keeping high standards for the maintenance of our city streets. Enforcement operations ensure the safety of our residents and visitors.

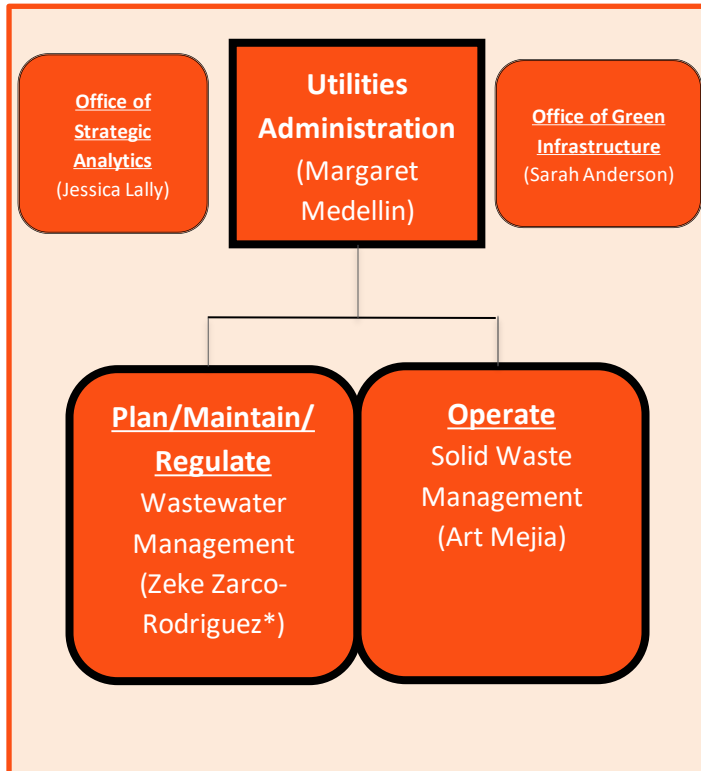


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Utilities Administration



Utilities Services and Challenges



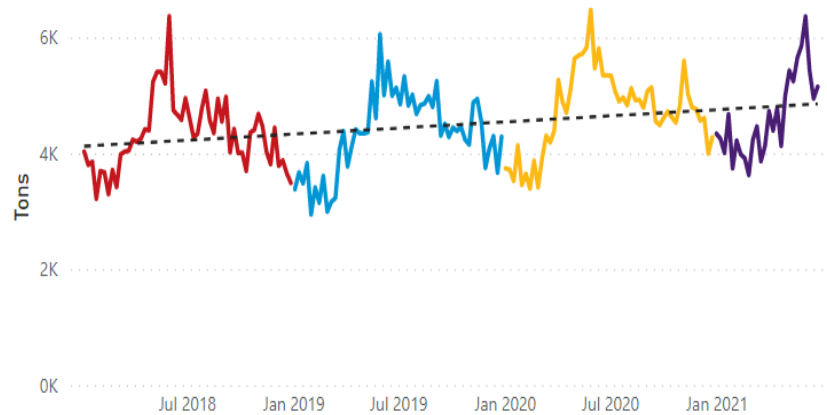
Fundamental Services

- Trash collection and community cleanup
- Compost, Recycle, Graffiti Programs
- Wastewater operations
- Green Infrastructure

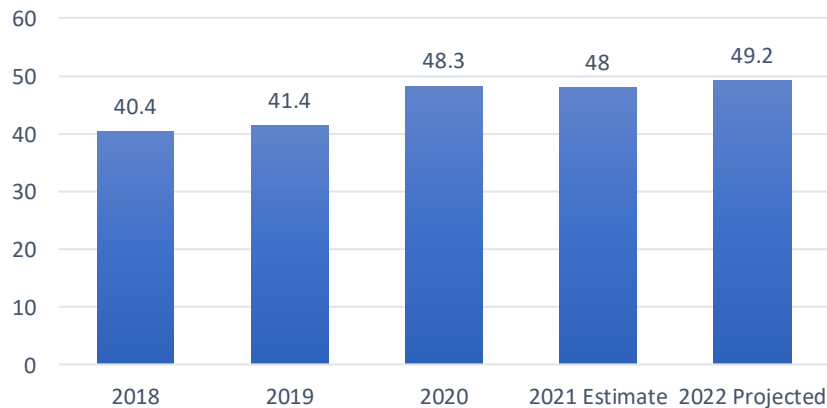
Key Strategic Metrics & Equity Framework

Total Tons (c) by Date and Calendar Year

Calendar Year ● 2018 ● 2019 ● 2020 ● 2021



Recycling Tons (thousands)



Budget Equity Framework Summary

Multiple areas in the city continue to need focused attention from SWM, while maintaining the proper level of safety & sanitation across all areas/city neighborhoods.

City Council Priority Summary

Priority 4: Prioritize recovery by restoring two frozen utility worker positions to re-instate monthly extra-trash services to mitigate the increase in illegal dumping.

Solid Waste Personnel

Personnel + Services/Supplies	FTE
\$521,719	8.0 – Unlimited

This team will restore large item/extra trash service as well as provide the services needed to keep the city safe and clean. This team is needed to maintain a consistent level of service as the demands for trash service has increased across the City.

Restoration

2 Utility Workers

for large item pickup/extra trash service

15% increase in illegal dumping since altering the large item/extra trash schedule

Benefits:

Restoration of Large Item Pick Up Schedule
Ensures the health and safety of assets in the ROW

Ensures overall City cleanliness

Expansion

2 Utility Workers
3 Equip Operators
1 Inspector



Solid Waste Services & Supplies

Professional Services

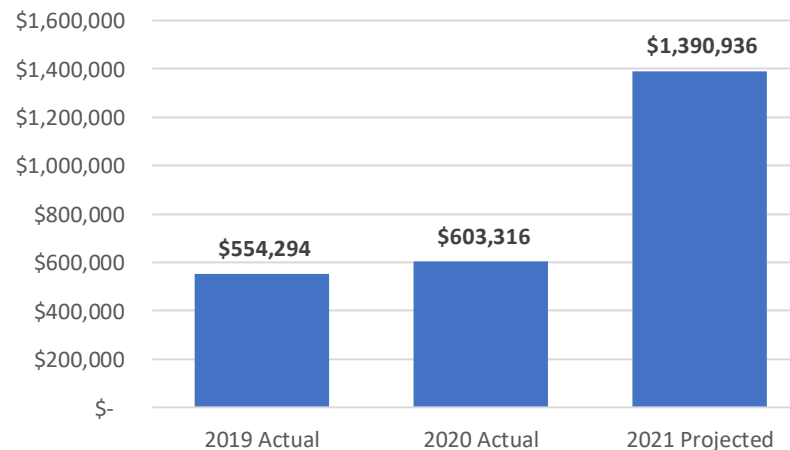
Expenditures	Duration
\$500,000	Permanent

This funding will guide mitigation plans to address illegal dumping and safety issues that have been increasing in the right of way and public spaces including as a result of unsanctioned homeless camping sites.

Rentals

Expenditures	Duration
\$200,000	Permanent

Covers the cost of supplies such as fencing & barricades to facilitate health and safety in right of way.



2021 ARPA Transfers to 2022

General Fund: Utilities

Restoration/Supplemental Services	2022 Amount
SWM Staff Unfreeze (5.0 FTE)	\$332,600
Total	\$332,600



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2022 American Rescue Plan Act Funding



2022 American Rescue Plan Act Funding

Restoration/Supplemental Services	2022 Amount
Fleet Management Fuel Budget	\$415,500
Logistics Equipment	\$375,806
SWM Customer Service Mailings	\$150,000
SWM Trash/Recycle Cart Replacement	\$300,000
SWM Professional Services	\$100,000
Build Transportation Professional Services	\$483,135
Transportation Operations Professional Services	\$340,218
Street Maintenance Snow Materials	\$315,000
Street Maintenance Construction Materials	\$100,000
ROWE Technology	\$250,000
Total	\$2,829,659



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Executive Director Administration

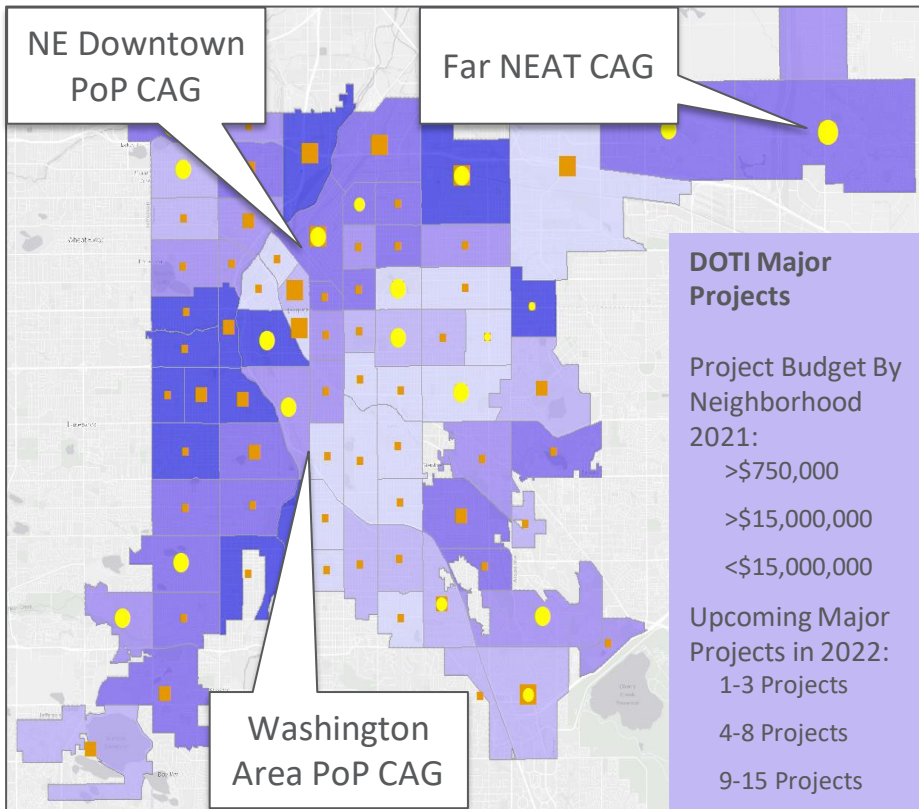




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Executive Director Administration

Key Strategic Metrics & Equity Framework



The DOTI Office of Community and Business Engagement (OCBE) has connected at 170 events reaching 5,400 residents

Budget Equity Framework Summary

Providing language services creates equitable outcomes at every level and in every part of Denver, especially in disproportionately underserved neighborhoods.

In order to provide services like Street Maintenance or Solid Waste collection, fleet vehicles need to be fueled and ready for deployment.

City Council Priority Summary

Priority 1: Evolving our community engagement and customer service through increased translation services.

Office of External Affairs

Language Access

Professional Services

Expenditures

\$75,000

Duration

Permanent

This request will provide for a consistent approach to language access (translation and interpretation) for all projects and programs across DOTI by creating a “one stop shop” within our Office of Community and Business Engagement, allowing DOTI to effectively engage and communicate with Denver residents.

Performance Metrics

of meetings (CAG, community, open houses) interpreted

of neighborhoods and small businesses supported using language services (RISE Denver priority)

of equity neighborhoods supported

of translated meeting and community surveys completed

of new DOTI programs utilizing OCBE help in engaging non-English speaking residents

Feedback on offering language services for 2022 programs

of words translated

Languages translated and interpreted

of public communications translated

2020 Actuals	2021 Budgeted	2022 Projected
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\$37,000	\$50,000	\$75,000
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Personnel Expenditures	FTE
\$74,255	1.0 – Unlimited

The Fleet Division is adding a Fleet Facility Maintenance Technician for the maintenance and operation of its 7 fuel locations, fuel islands, underground storage tanks, CNG stations, inspections and Federal & State compliance to ensure proper and safe fuel service for all city vehicles. Currently only 1 of 2 FMTs are filled, so when a tank needs to be inspected a fleet technician is redeployed, subsequently impacting fleet availability. However, a limited number of employees are certified in tank inspections.



Underground Storage Tanks

Reactive repairs

=

Higher R&M costs

Increased downtime

Lower fleet availability

Safety Concern

This position maintains hoses, nozzles, air compressors, and truck washes as well as vehicle lifts and lube systems.



Auto Supplies

Expenditures

\$103,750

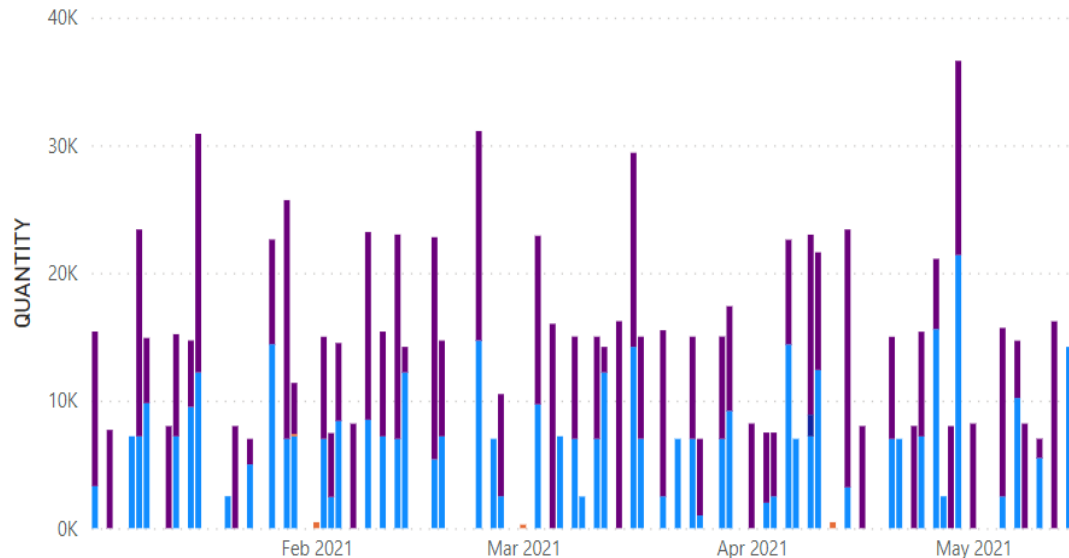
Duration

Permanent

Fuel budget needed based on anticipated contract fuel prices. After hitting a four-year low in 2020, the Energy Information Administration predicts that retail prices gasoline will increase in 2021 and 2022.

QUANTITY by DELIVERY DATE and PRODUCT

PRODUCT DSL E85 PRO UNL



U.S. Regular Gasoline Prices*(dollars per gallon)

	06/21/21	06/28/21	07/05/21	Change from week ago	Change from year ago
U.S.	3.060	3.091	3.122	↑ 0.031	↑ 0.945
East Coast (PADD1)	2.960	2.978	3.008	↑ 0.030	↑ 0.908
New England (PADD1A)	2.981	3.011	3.039	↑ 0.028	↑ 0.942
Central Atlantic (PADD1B)	3.086	3.111	3.133	↑ 0.022	↑ 0.894
Lower Atlantic (PADD1C)	2.878	2.887	2.924	↑ 0.037	↑ 0.909
Midwest (PADD2)	2.964	2.990	3.026	↑ 0.036	↑ 0.924
Gulf Coast (PADD3)	2.726	2.776	2.796	↑ 0.020	↑ 0.937
Rocky Mountain (PADD4)	3.268	3.356	3.434	↑ 0.078	↑ 1.109
West Coast (PADD5)	3.764	3.811	3.842	↑ 0.031	↑ 1.074
West Coast less California	3.391	3.445	3.495	↑ 0.050	↑ 0.982

2021 ARPA Transfers to 2022

General Fund: EDO

Restoration/Supplemental Services	2022 Amount
OCFO Fleet Overtime	\$107,294
OCFO Finance Procurement Staff Unfreeze (1.0 FTE)	\$99,001
OCFO Fleet Technician Staff Unfreeze (4.0 FTE)	\$308,591
OCFO Accounting Staff Unfreeze (1.0 FTE)	\$99,001
Total	\$613,887

ARPA Budget Equity Summary

In order to provide services like Street Maintenance or Solid Waste collection in the City (with an emphasis in equity neighborhoods), fleet vehicles need to be maintained and ready for deployment. Contract procurement and Accounting ensure financial and contract compliance along with equitable distribution of services across the City.



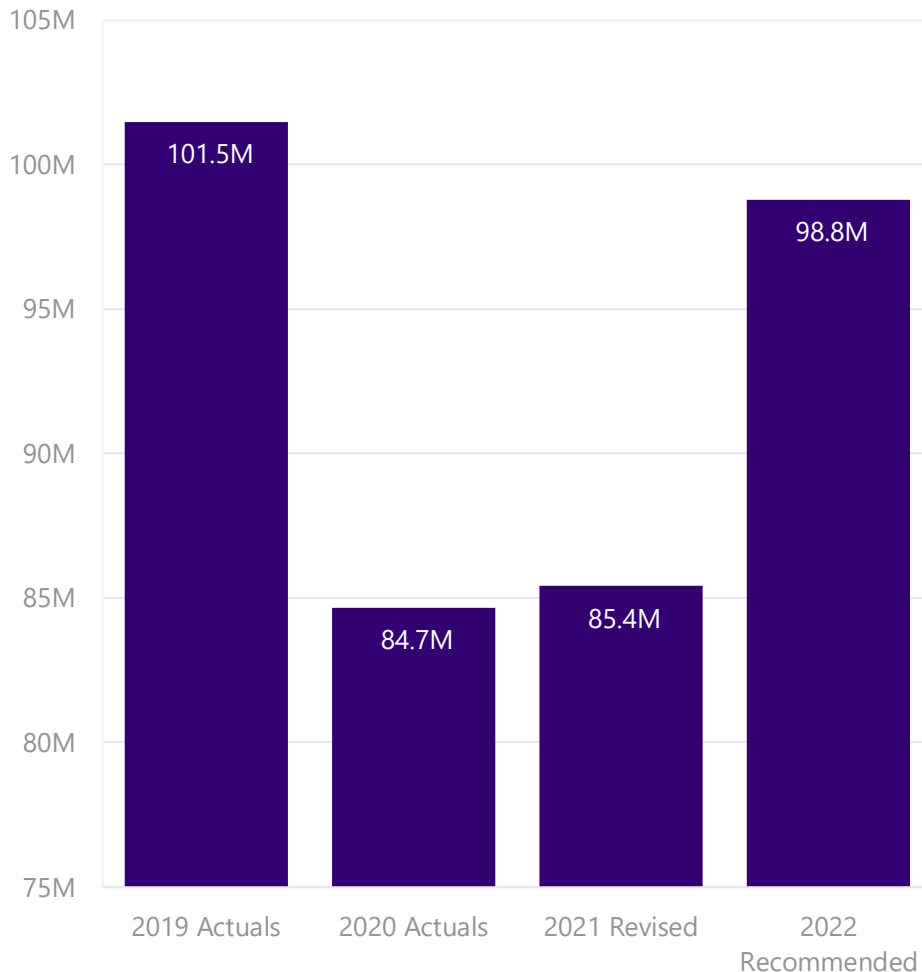
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General Fund Revenues



DOTI General Fund Revenue

Total Revenues



- DOTI Revenues include Parking Meters, Parking Lots, ROW Enforcement, Construction Permitting, Licensing and Inspections and Highway User Tax Fund
- Continued, limited commuter mobility associated with the Delta variant and work from home schedules
- Parking, Permitting, and Enforcement revenues anticipated to increase vs 2021
- Increase in 2022 is also attributable to increase in meter rates

Revenue Projection Framework

2020 & 2021 Year to Date Revenue Impact

In 2020, DOTI's revenue fell by \$17.1m year over year. This decrease was driven by:

- -\$4.1m year over year in Parking Lots driven by public safety orders, work from home, and the closure of the DPAC parking garage
- -\$5.3m year over year in Parking Meters driven by public safety orders, and the suspension of meter collections through the height of the pandemic
- -\$6.4m year over year in Parking Fines driven by the suspension of enforcement activities

Recovery Expectations

In 2021 and continuing into 2022, assuming all hard-hit components show recovery, though collections will remain below 2019 collection levels. Commuter mobility and economic conditions continue to improve and there is a staggered return to a “new normal” level of activity (i.e., public health threat subsides, prompting some return to workplace but there is residual work-from-home as well). Events resuming, parking revenue streams, as well as meter and parking fine collections. Enforcement resumes for certain violations that had been waived during pandemic (e.g., expired tags)

Name of revenue category	2020 actuals	2021 revised projection	2022 projections	Variance
Parking Meters	\$6,630,625	\$9,261,836	\$9,525,604*	3%
Parking Lots	\$3,854,898	\$5,973,951	\$6,348,779	9%
Parking Enforcement	\$14,867,321	19,384,836	\$24,532,768	26%

*Reflects General Fund (See Next Slide)

Distribution

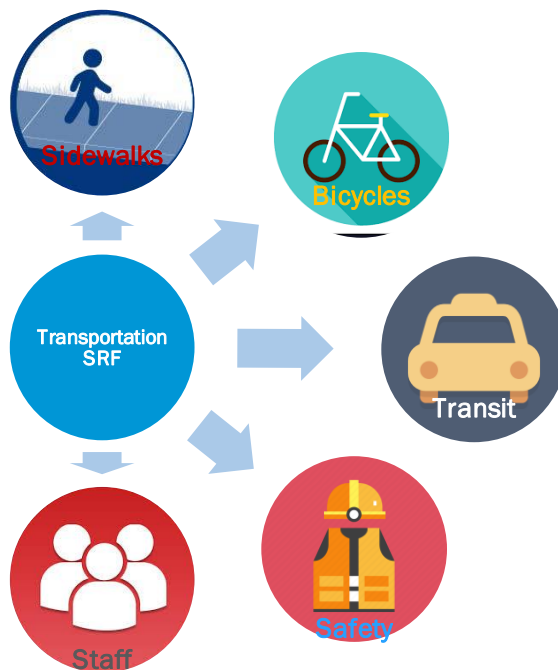
Parking Meter Increase: 2022 Transportation SRF Uses



Parking Meter Increase

Projected 2022 Revenue: ~\$9.5MM

Revenue Transfer



- These increases in transit are made possible by increases in parking meter rates
- This is the first meter rate increase in 20 years
- This increase in rates further accelerates the City's Mobility Action Plan

Transportation SRF Uses:

- **P0008 - Denver Moves Bicycles Implementation** - Funding will support an innovative approach to building bicycle infrastructure and accelerate the implementation of bikeways. **(20% or ~\$1.8MM)**
- **PR002 - Sidewalk Gaps and Safety Repair** - Funding for the construction and repair of sidewalks throughout the city with a focus near public facilities, educational facilities, transit, and other critical areas. **(20% or ~\$1.8MM)**
- **PQ015 - Vision Zero Implementation** - Funding for the implementation of the Vision Zero Action Plan including improvements at high-crash intersections, road crossing safety treatments, and signal modification. **(20% or ~\$1.8MM)**
- **PS006 - Denver Moves Transit Implementation** - Funding to support the implementation of Denver Moves Transit and joint projects with RTD including design and construction of a high frequency network **(40% or ~\$3.7MM)**
- **Operating - 2 FTE** - Funding supports an inspector and project manager related to Sidewalk Repair **(300k)**



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Capital Budget Overview



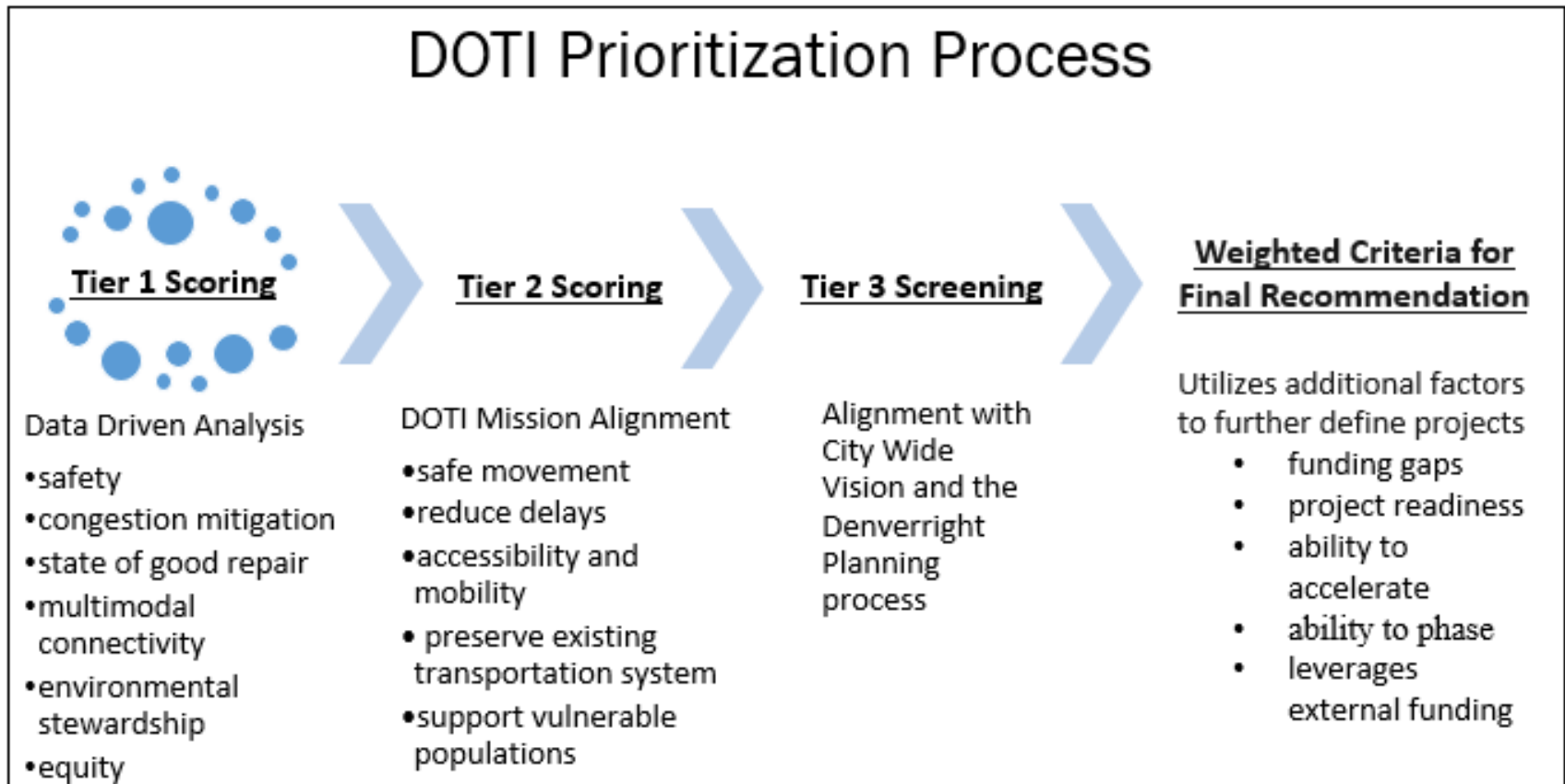
Capital Budget - Key Considerations

- External commitments
- Minimizing delay and accelerating project delivery
- Prioritizing equity
- Current workload

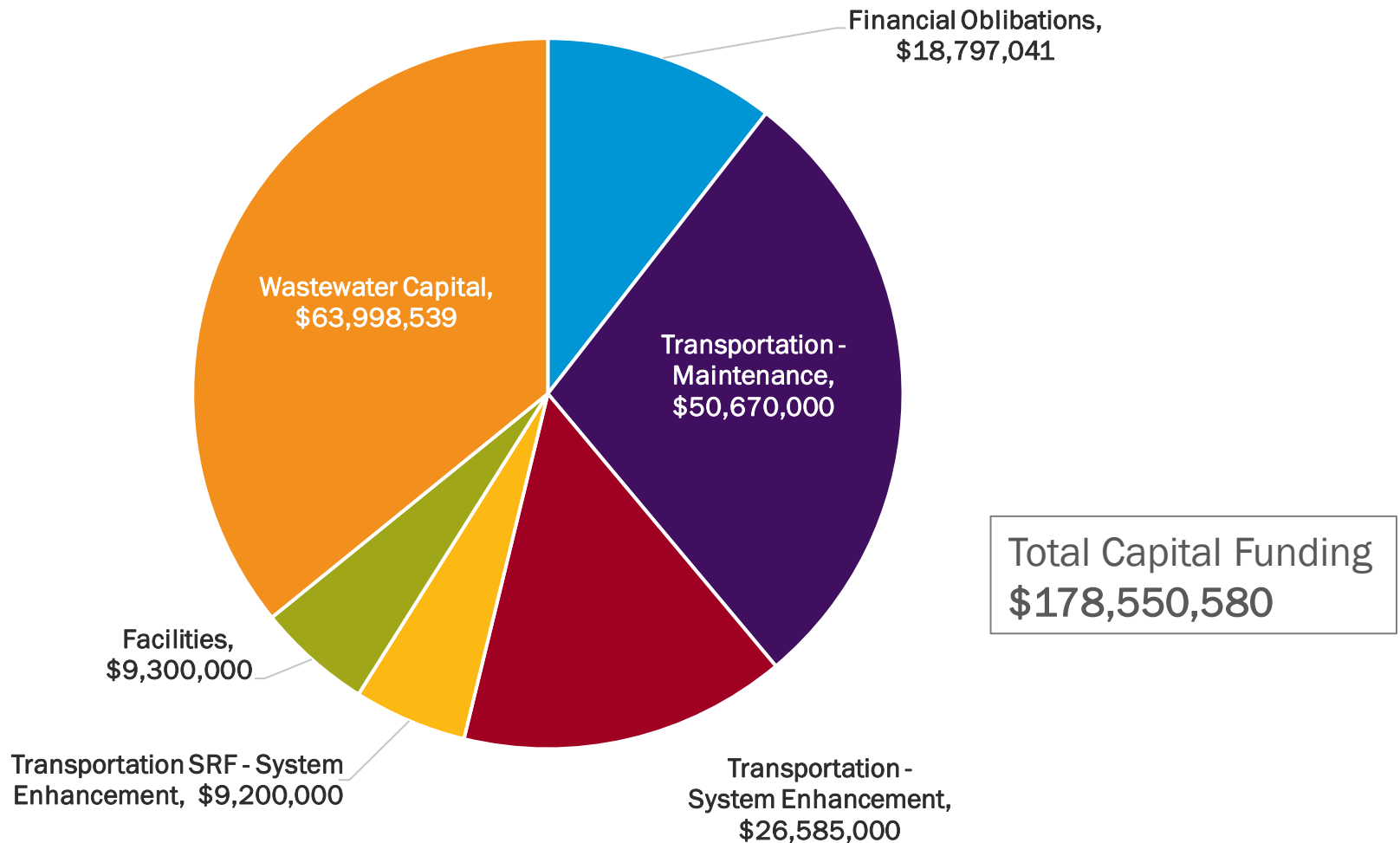
Project Delivery - Strategy

- To support resourcing needs (staffing & professional services)
- Align project scopes to identified capital stack
- Leverage grant dollars and continue to seek funding partners
- Prioritize projects and optimize cash flow

DOTI applies an equity lens to all projects and programs during the 6-year planning process and again with each annual budget request



DOTI 2022 CIP Funding Distribution



Transportation:

- **\$18.1M** for implementation of Denver Moves Everyone: Bikes, Peds, & Transit
- **\$3.6M** for capital improvements to address safety
- **\$1.0M** to update the Strategic Transportation Plan to better implement the goals outlined in the Mobility Action Plan
- **\$50.7M** to continue to maintain City assets to achieve a state of good repair

Facilities:

- **\$3.0M** for ADA improvements at public facilities
- **\$6.3M** for routine maintenance of City facilities



Wastewater:

- **\$59.0M** for storm, sanitary and water quality capital improvements and maintenance
- **\$5.0M** to complete Wastewater building restack

Transportation System Enhancements

Key Transportation Investments \$12.6M

- Strategic Transportation Plan - \$1.0M
- Alameda Underpass Design - \$4.0M
- Improved North Denver Connectivity - \$3.8M
- Gateway Infrastructure - \$1.8M
- Santa Fe Streetscape - \$1.5M
- I-25 Sound Mitigation Study - \$500k

Mobility & Safety Programs \$21.7M

- Bikes and Peds - \$7.4M
- Sidewalk Gap - \$4.8M
- Transit - \$5.7M
- Vision Zero - \$2.8M
- Safe Routes to School - \$500K
- Neighborhood Transportation Management Program - \$250K
- Mobility Innovation Program - \$250k

Capital Project Support \$1.5M

- Project Management Funding

Total Transportation System Enhancements - **\$35,785,000**

Transportation Capital Maintenance

Capital Projects \$6.9M

- 1 major and 3 minor bridge rehabilitations
- 130 bridge inspections
- Repair of fences, pillars, and minor structures

Street Maintenance \$27.9M

- 430 lane miles of street paving
- 35,000 linear feet of curb and gutter
- 8,000 square yards of concrete pavement repaired
- 550 of required 1,500 curb ramps

Transportation & Mobility \$15.9M

- New and rebuilt traffic signals
- Repair and replacement of city-owned streetlights
- Sign replacement in 6-8 neighborhoods
- Maintenance of 2 Traffic Management Centers
- Cameras, vehicle count, and traffic monitoring device installation
- Maintenance of city-owned parking garages and curbside parking

Total Transportation Capital Maintenance Program **\$50,670,000**

Project Name	City Council District	Jobs Provided*	Wages Provided*	Estimated Project Cost
5280 Trail Development	10	104	\$6,354,877	\$7,000,000
Bike Infrastructure Implementation	7,9,10	151	\$9,397,208	\$10,100,000
Morrison Road Reconstruction	3	187	\$11,605,854	\$13,010,000
Neighborhood Transportation Safety and Pedestrian Improvements	1,2,3,4,5,6,7,8,9,10,11	191	\$11,424,444	\$12,950,000
Peoria Multimodal Improvements	8,11	96	\$6,003,314	\$6,160,000
Sidewalk Construction	3, 5,7, 8,10	148	\$9,960,390	\$12,000,000
Transportation Total		877	\$54,746,088	\$61,220,000

**Job and wage figures are estimates produced by an economic model based on the anticipated full cost of project where additional funding sources have been identified to complete project.*

Storm Drainage \$33.2M

- Open channel & priority waterways improvements - \$13.3M
- Major 'backbone' system pipe upgrades - \$13.0M
- Local drainage system improvements (General Storm) - \$5.9M
- Planning and design of future capital storm projects - \$950k

Sanitary \$11.4M

- Capital replacement of deteriorated and failing sewers - \$6.0M
- Capital improvements for sewer facilities & pump stations - \$5.0M
- Planning and design of future capital sanitary projects - \$400k

Green Infrastructure \$8.3M

- Regional Water Quality Improvements in priority basins - \$6.0M
- Water Quality at Carpio-Sanguinette Park in Globeville - \$2.0M
- Green Infrastructure studies & special initiatives - \$300k

Capital Maintenance \$11.1M

- Citywide rehabilitation of existing systems - \$7.2M
- Citywide concrete curb & gutter improvements - \$2.2M
- Critical immediate repairs of failed storm and sanitary sewers - \$500k
- Citywide maintenance of public green infrastructure assets - \$300k
- East Corridor payment - \$948k

Total Wastewater Capital Program = \$63,998,539

Proposed Six-Year Water Plan (2022-2027)

The Six-Year Water Plan provides the roadmap for planning, design, construction, and maintenance of storm, sanitary, waterway, and green infrastructure improvements to meet the needs of our community and regulatory requirements.

The Plan is dynamic and reviewed on an annual basis as conditions change to ensure it aligns with annual revenue, appropriations, and to ensure that the Wastewater Enterprise Fund is financially sustainable.



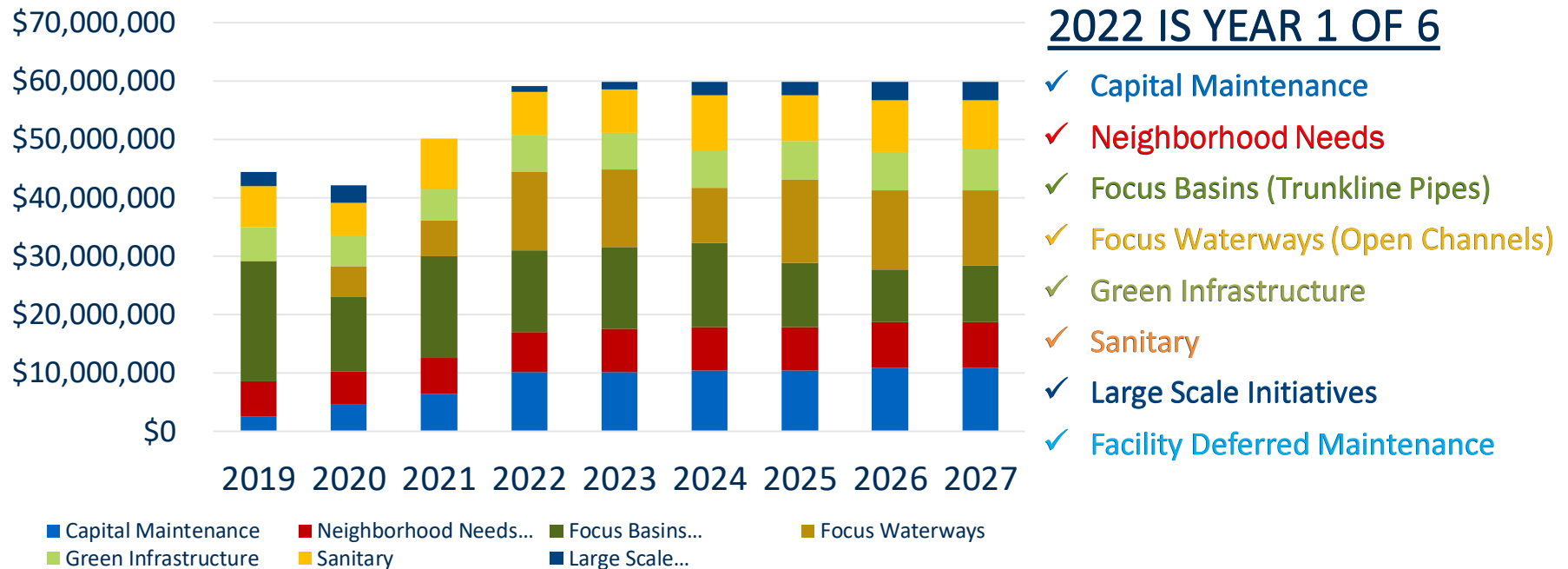
Large box culvert installation in RINO/Five Points



Green Infrastructure bioretention at 21st/Broadway



Proposed Six-Year Water Plan (2022-2027)





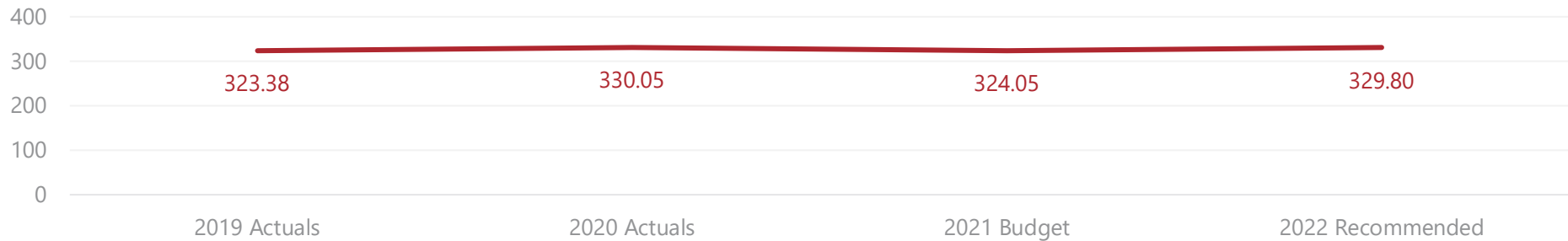
DENVER
THE MILE HIGH CITY

Wastewater Operating Enterprise Fund

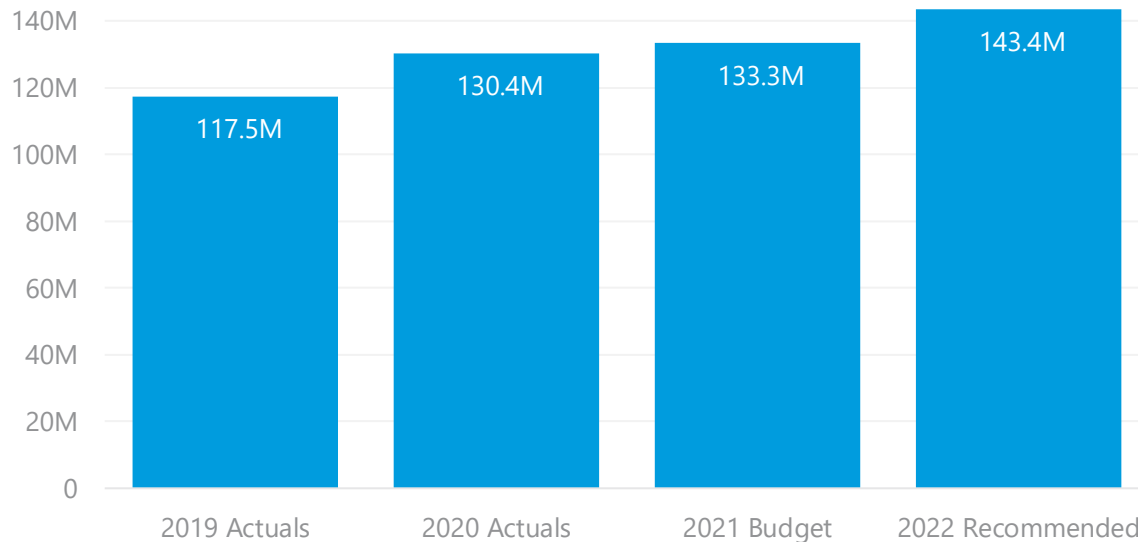


Agency wide Enterprise Fund Expenditures & FTE Changes

Total FTE

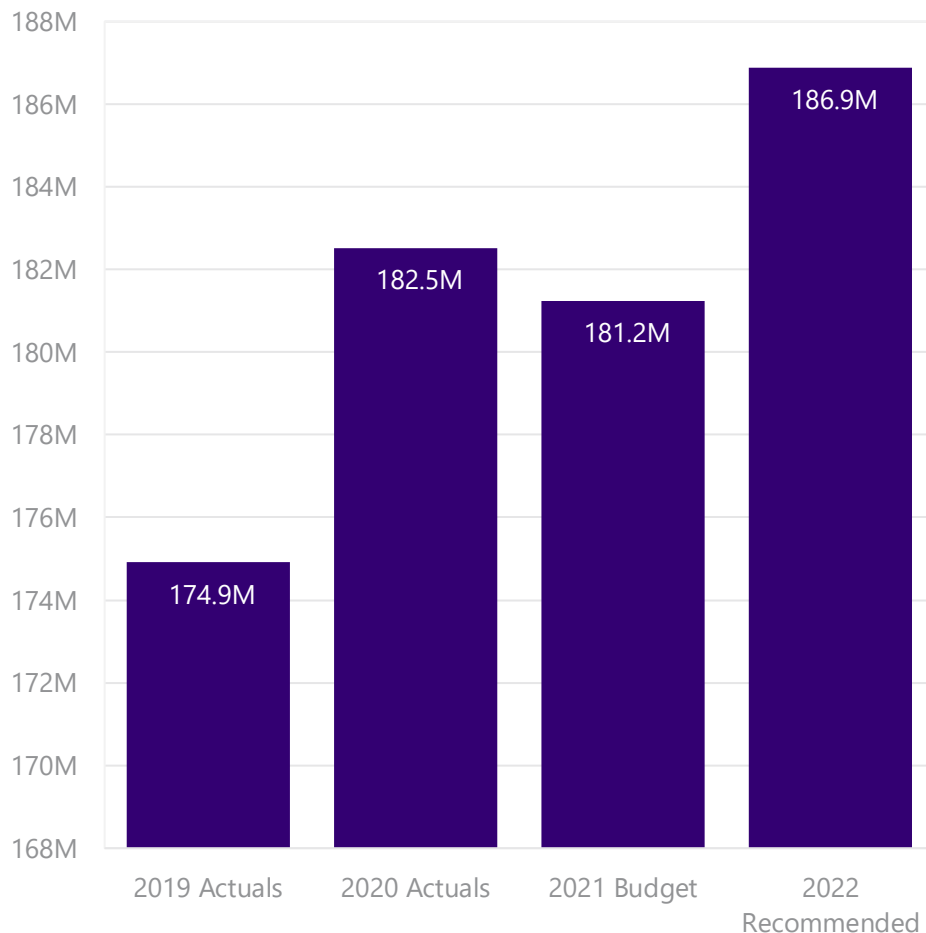


Total Expenses



Wastewater Enterprise Fund Revenue

Total Revenues



- DOTI Wastewater revenues include Sanitary, Storm, ROW Services, and Investment Income.
- 2022 storm and sanitary budgeted revenues have increased as residents and visitors return to the City
- ROW Services is expected to increase slightly as permitting activity continues to increase and scope and scale of projects begins to recover
- Investment income will decrease due to the continued spend down of bond proceeds

Wastewater Management Fund Change Request Summary

2022 NET CHANGE



Personnel \$934,583

- Expand by 6 New Positions
- Increase Stand-By/Call Back Pay

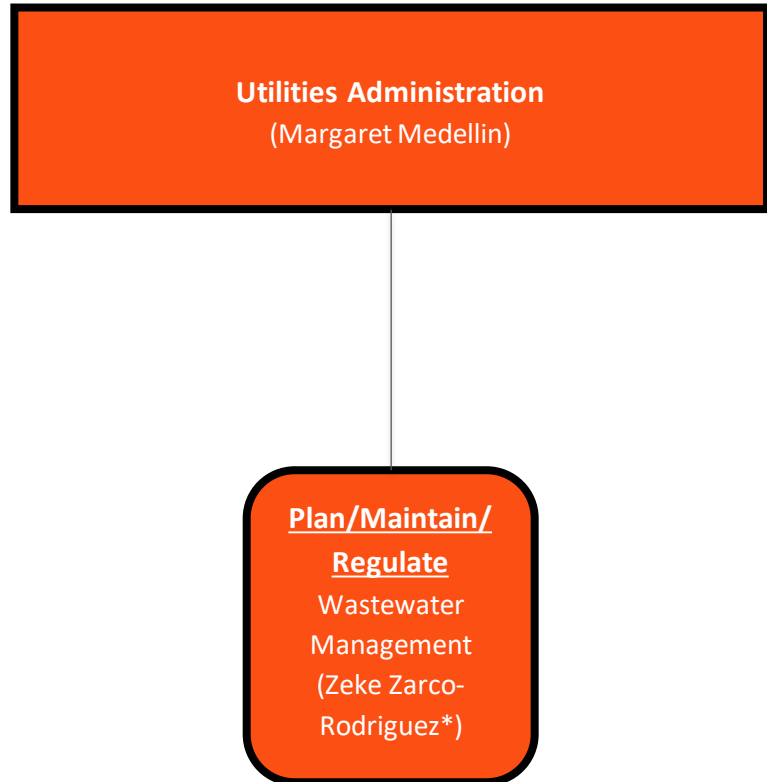
Services & Supplies \$7,296,644

Capital Equipment \$2,715,850

- \$2,604,000 new & replacement vehicles
- \$111,850 new & replacement computer equipment

Total Change \$10,947,077

Wastewater Operations Services and Challenges



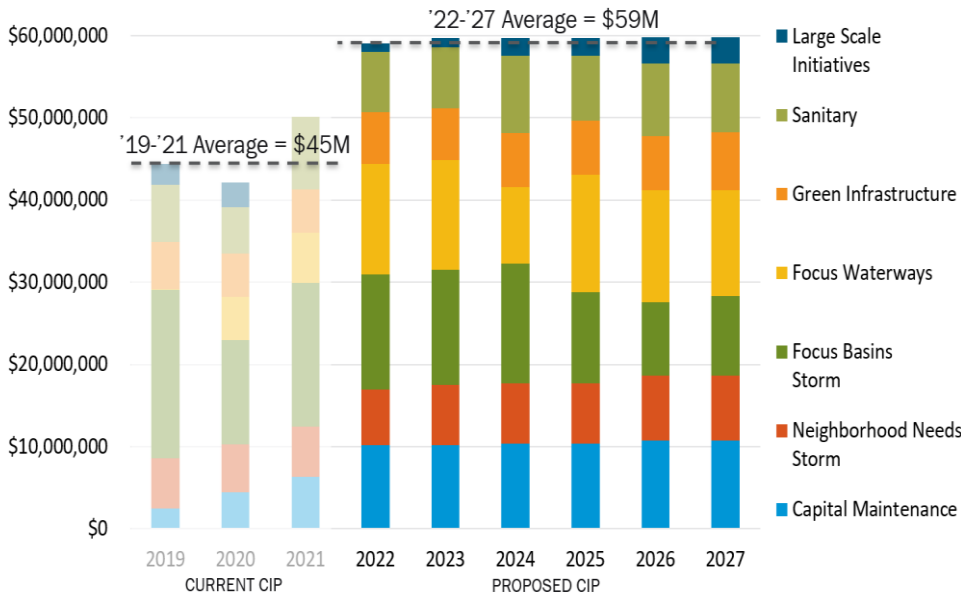
Fundamental Services

- Maintain underground infrastructure for sanitary flows
- Address sewer backups
- Monitor the underground infrastructure in the City ROW
- Manage quality control and laboratory samples
- Build of underground infrastructure that provides sanitary services across the City
- Acceleration of capital projects
- Sustainable Green Infrastructure
- Citywide programmatic support
- Special Initiatives

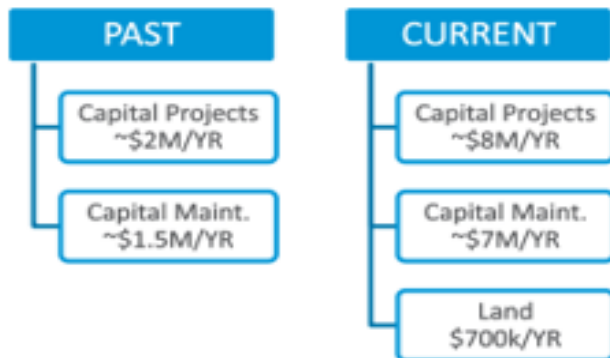


Wastewater IPM

Key Strategic Metrics & Equity Framework



Mile High Flood District Annual Funds



Budget Equity Framework Summary

Pursue large federal appropriations for future transformational improvements to our urban waterways including significant investments to the S. Platte River, which can have far reaching economic and environmental impacts to adjacent neighborhoods like Globeville, Elyria-Swansea, Five Points and Sun Valley.

City Council Priority Summary

Priority 4: Support recovery of our workforce and local businesses through infrastructure construction projects.

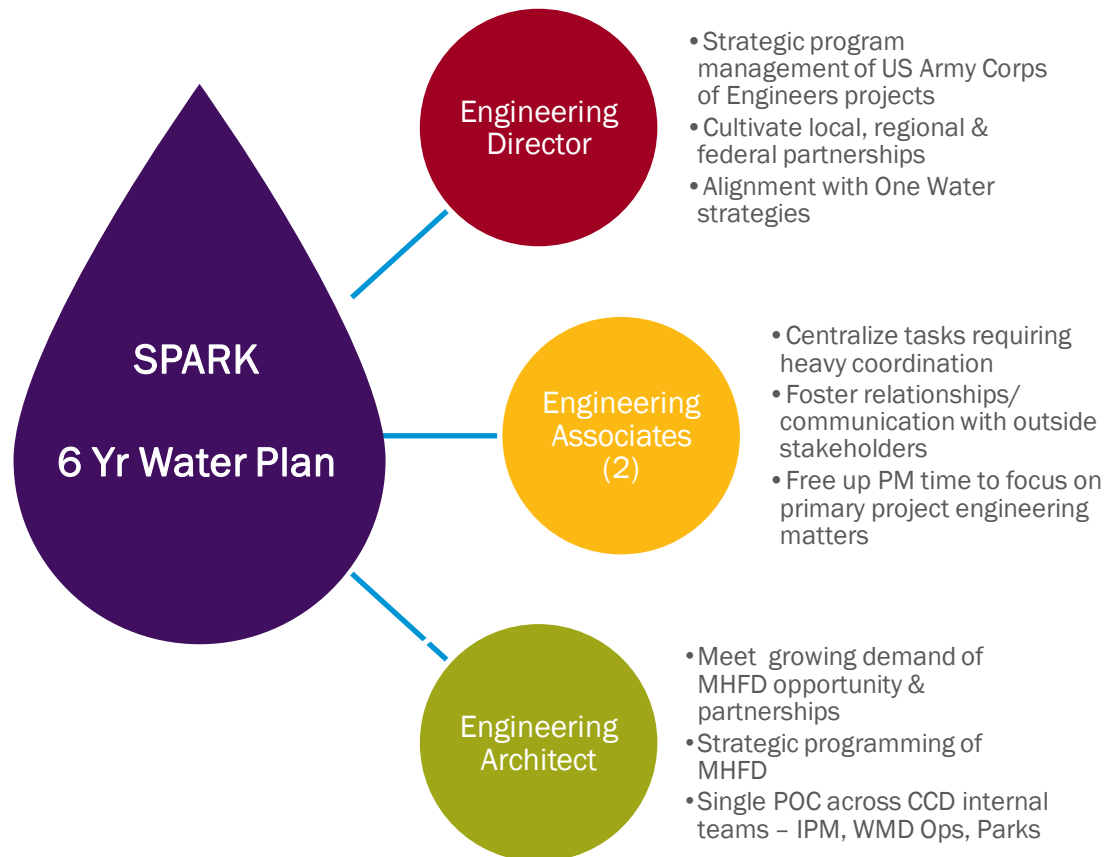
Priority 5: Delivers on our ~\$59M annual investment in environmentally-based improvements to our storm, sanitary, and green infrastructure systems.

Wastewater IPM Personnel Expansions

Personnel Expenditures	FTE	Complimentary Services & Supplies
\$534,032	4.0 – Unlimited	\$6,128

These positions support the recent authorization of the Urban Waterways Plan, which sets the table for future federal partnerships on large scale transformational projects along the South Platte River and tributaries.

They also meet the demands of the three-year delivery SPARK Program and help deliver upon the commitments of the new Six-Year Water Plan and potential RISE Bond.

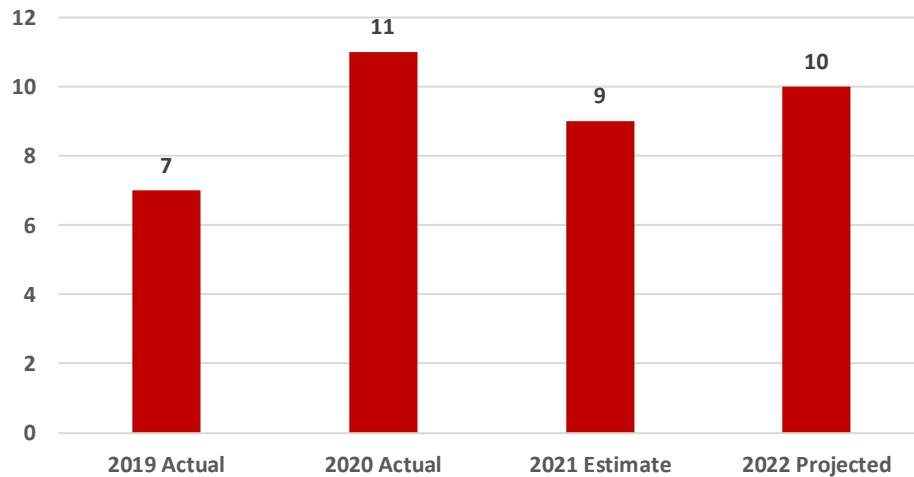




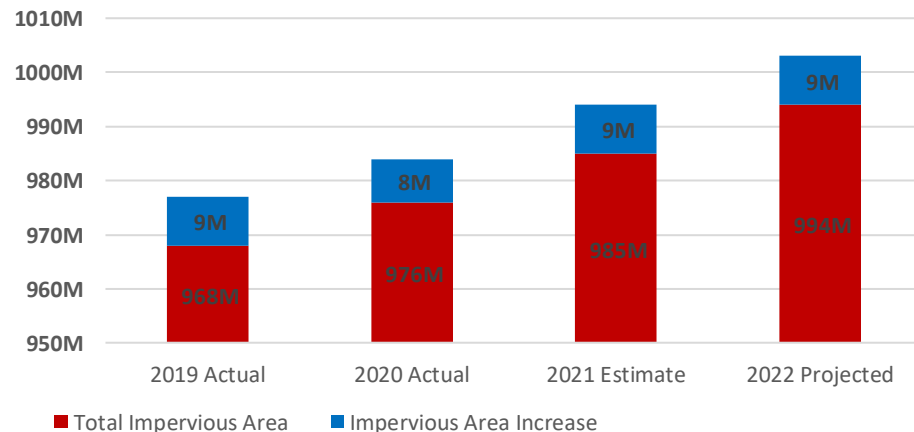
Wastewater Operations

Key Strategic Metrics & Equity Framework

Sewer Back-up Incidents



Impervious Area Increases



Budget Equity Framework Summary

Wastewater Operations ensures consistent storm and sanitary services throughout the City. These services are critical as funding allocated to pay sewer remediation claims and services is equitable for all whom we serve. Increases will also ensure that our campus is safe and fully functional for employees as well as the public and ensures that our campus is an asset to the Valverde community as opposed to an eyesore.

City Council Priority Summary

Priority 4: Support recovery of our workforce and local businesses through infrastructure construction projects.

Priority 5: Investment in environmentally-based improvements to our storm, sanitary, and green infrastructure systems.



Wastewater Operations Personnel Expansions

Personnel Expenditures	FTE	Complimentary Services & Supplies
\$99,720	1.0 – Unlimited	\$1,520

Denver is legally obligated under the Clean Water Act to have an MS4 permit. Denver was recently issued a renewal MS4 Permit with significant and specific requirements along with compliance deadlines in which the requirements must be met. A new Administrator I FTE will be necessary to meet the requirements and keep Denver in compliance with the MS4 Permit.



- Development/updating program areas to be in compliance
- Implementation & ongoing recordkeeping
- Program review & compliance assurance checks
- Updating program description documents

Program Areas

Public Education and Outreach
 Illicit Discharge
 Construction Sites
 Post-Construction
 Industrial Facilities
 Municipal Operations
 TMDL – E. coli
 TMDL – BMW
 Wet Weather Monitoring



COLORADO
 Department of Public
 Health & Environment



Wastewater Operations Personnel Expansions

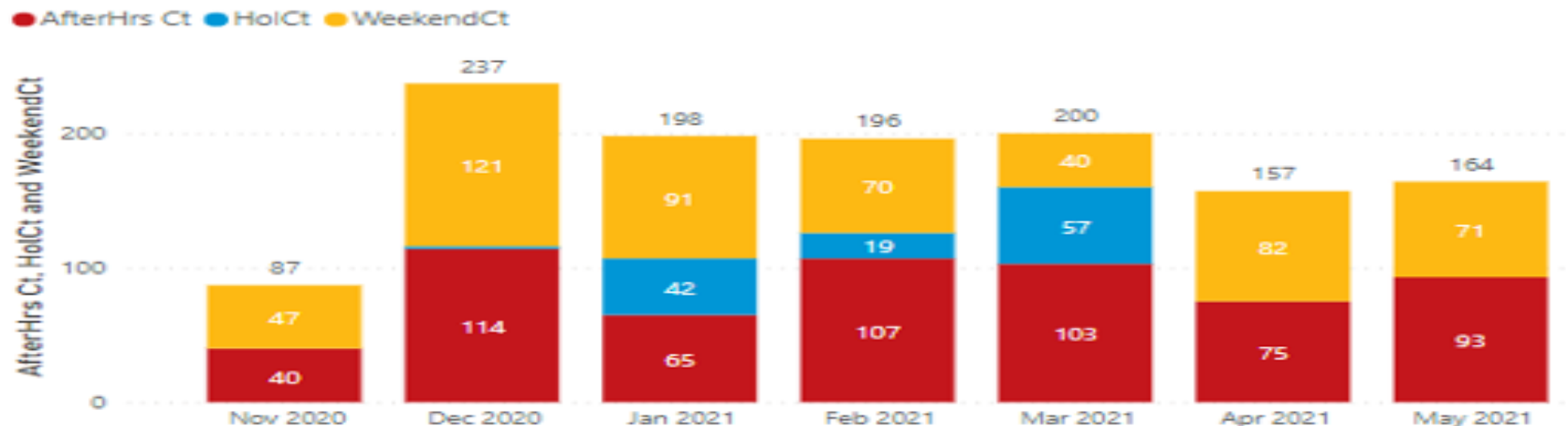
Personnel Expenditures	FTE	Complimentary Services & Supplies
\$187,000 (Standby Pay)	0.0	\$0

Increase to the standby pay budget to accommodate 24-hour emergency response for:

- Utility Locator Requests
per Senate Bill 18-167 must responds within 1-2 hours
- CPC Building & Systems Requests
electricity, HVAC, plumbing, fleet, fire, conveyance, irrigation, security, janitorial issues
- Sewer Emergency Requests

Utility Locates

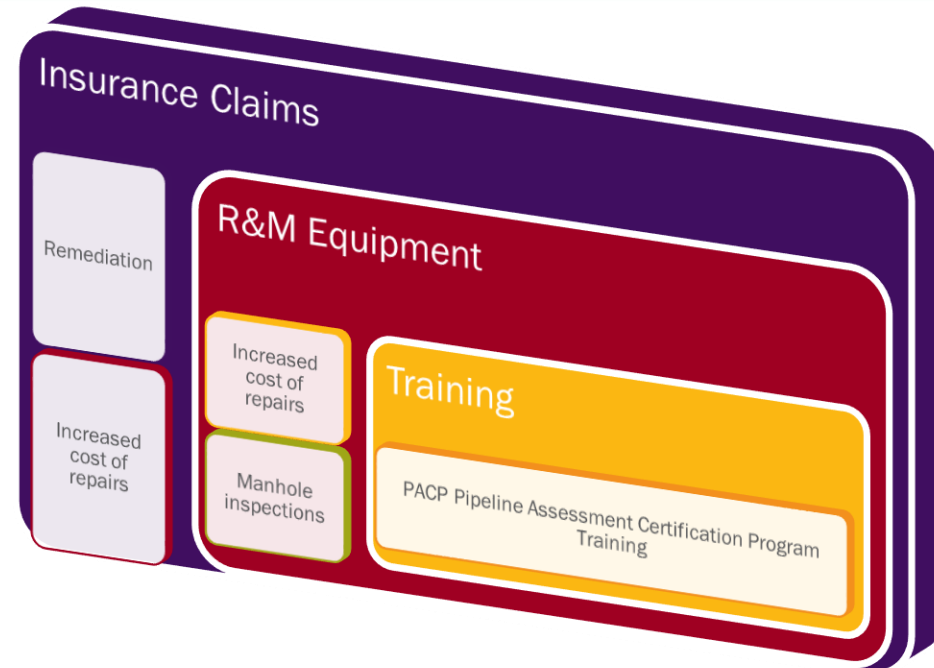
AfterHrs Ct, HolCt and WeekendCt by Calendar Month Year



Wastewater Operations Services & Supplies

Sewer Maintenance

Expense Type	Duration	Cost
Insurance & Claims	Permanent	\$150,000
R&M Equipment		\$119,000
Lab Supplies		\$101,026
Training		\$20,500
Water & Sewer Supplies		\$20,000
Tools		\$19,000
Dues, Licenses, Subscriptions		\$16,300
Total		\$445,826



Utility Locates Expense

Expenditures	Duration
\$100,000	Permanent

To comply with Senate Bill 18-167, Wastewater switched from UNCC 811 Tier 2 to Tier 1 membership. Consequently, the increase in underground utility locate requests has jumped from 12,000/year to more than 100,000/year. In 2021, Wastewater's share has been approximately \$8K/month (\$96K/year). The 2022 cost is projected to be \$100k

Wastewater Administration

Personnel Expansions

Personnel Expenditures	FTE	Complimentary Services & Supplies
\$113,831	1.0	\$43,170 <i>(includes vehicle)</i>

To meet DOTI's Strategic Focus Area to Operate with Discipline and the vision for the City, its stakeholders, residents, and communities, DOTI would be best served by the addition of an Emergency Management Coordinator under the Office of Safety & Industrial Hygiene.

					
Data entry in the Recovery Planner (RPX) software system for the DOTI Continuity of Operations Plan	Maintain facility specific Emergency Procedure Guides and forms for all DOTI facilities	Assist in trainings	Assist in building and maintaining the Emergency Management SharePoint site	Monitor monthly AED DOTI facility Specific Inspections	Assist in developing and scheduling departmental education, drills, trainings, and exercises



Wastewater Administration

Mandatory Expansions

Enterprise Billing System

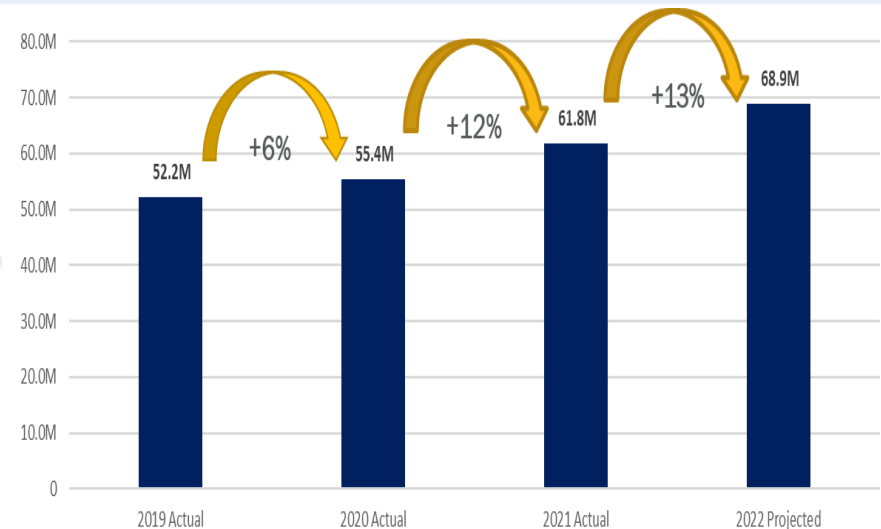
Purpose	Expenditures	Duration
Implementation	\$1,500,000	One-Time
Annual Licensing & Support	\$400,000	Permanent

DOTI has invested in the foundation of the Enterprise Billing System and has completed Phase 1. In order to move on to Phases 2 (PAYT) and 3 (Storm sewer billing), we will require additional funding for 2022. Functionality of the system will eventually include Pay-As-You-Throw (PAYT) storm and sanitary sewer, and potentially other DOTI invoicing in a single system. Costs have been estimated by CCD TS.

Denver Metro Fee Increase

Expenditures	Duration
\$4,800,000	Permanent

To accommodate the yearly mandated metro fee for sanitary flows, which increases annually but the increase has not historically been budgeted for. This increase has put an increasing strain on the Wastewater budget.



Questions?