

Infrastructure Discussion

DECEMBER 19, 2022

Overview

Defining Infrastructure

Evaluation of Infrastructure Needs

Wrap Up and Next Steps

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Defining Infrastructure

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Infrastructure Master List

Over 100 areas and categories of infrastructure identified

Schools
- Hospitals**
- Grocery Stores*
- Job Opportunities*
- Police Stations*
- Police Stations*
- MEDIC**

**Wi-Fi Access*
- Cell Phone Towers*
- Electrical Grid

**Wi-Fi Access*
- Cell Phone Towers*
- Electrical Grid

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- CHARLOTTE*

**Over 100 areas and categories of infrastructure identified

**ITees*
- Open Space
- Trails and Greenways
- Nater / Wastewater Treatment Plants
- Nater / Treatment Plants
- Nater / Treatment Plants
- Fire Staffing - Police Staffing
- Police Staffing
- Police Staffing
- Police Staffing
- Police Staffing
- Police Staffing
- Police Staffing
- Police Staffing
- Prize Staffing
- Police Staffing











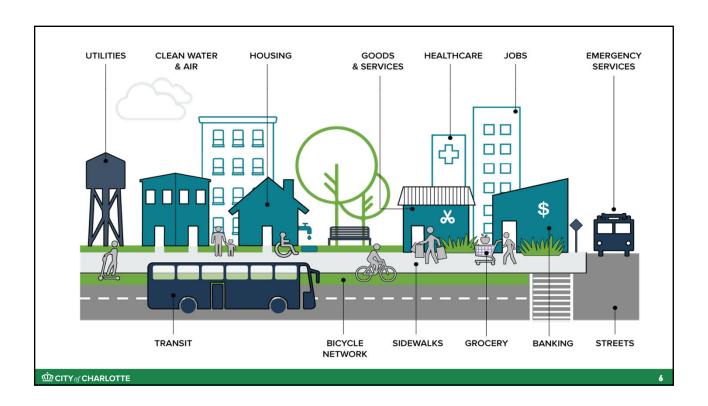


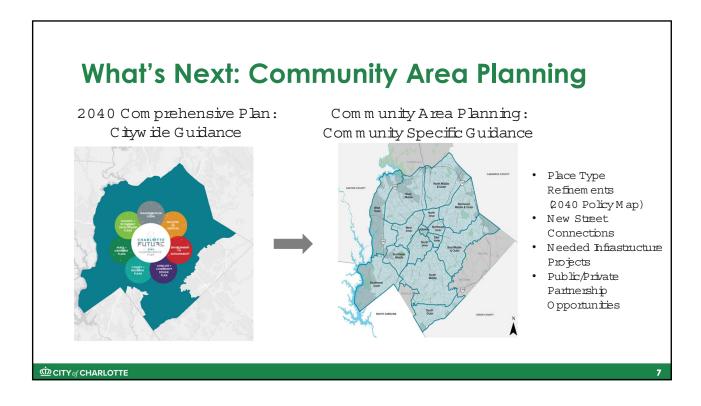
Staff considered:

- Previously adopted council policies and plans
- Stakeholder feedback: Council, residents, partners
- Ability for city to influence/control through regulation
- Factors commonly used in decision making

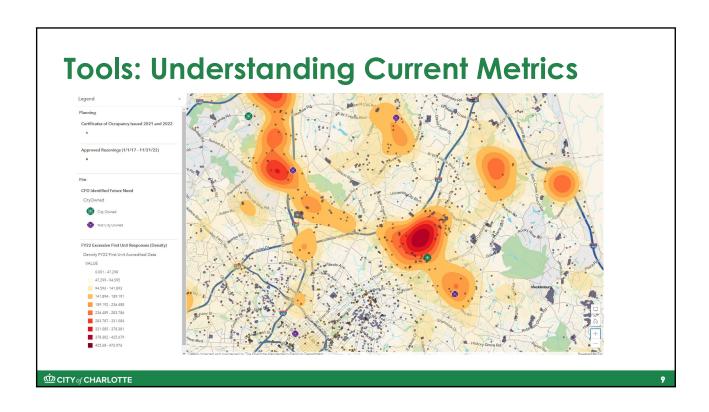
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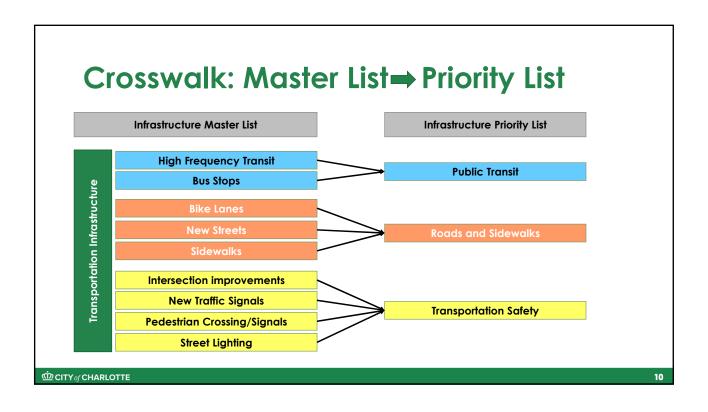
2040 POLICY MAP





Tools: Implementation Dashboard Goal 5: Safe and Equitable Mobility Courtes will provide afte are aquation and mobility provide after any expension of age in control of the provide after any expension and include provides to trans. A fining any expension of age in control of the provides after any expension and include belowing a delevative, and expension and include belowing a delevative and any expension and include belowing a delevative and any expension and include below and any expension and include belowing and expension and include any expension any





Priority Infrastructure Areas

~100
Infrastructure
Areas/
Categories

Driarity Aven	Primary Responsibility				
Priority Area	City	County	State	Private Sector	CMS
Affordable Housing	Х	Х	X	X	
Emergency Services	Х	Х			
Public Open Space	Х	Х		X	
Public Storm Drainage Infrastructure	Х	Х		Х	
Public Transportation	Х	Х			
Roads and Sidewalks	Х		Х	Х	
Schools		Х	Х	Х	Х
Transportation Safety	Х		Х	Х	
Water/Sewer Capacity	Х			Х	

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Council Discussion

Do the priority areas reflect Council's priorities?

Are there any priorities that need to be added?

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Evaluation of Infrastructure Needs

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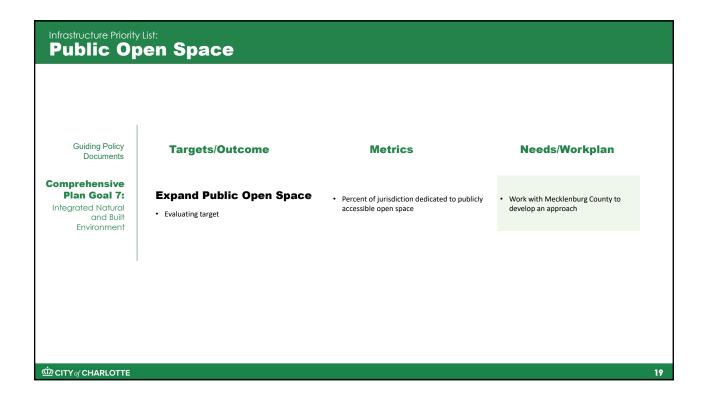
Infrastructure Priority List: **Roads and Sidewalks** Targets/Outcome **Metrics** Needs/Workplan **Guiding Policy** Documents Assess new signal needs, use SMP to prioritize System Operation & Comprehensive · New Traffic Signals Installed implementation of the approved future signals **Network Capacity** Intersection Delay & Volume/Capacity Index Plan Goal 5: Track intersection delay and Corridor Travel · Miles of Fiber-Optic Cable Installed Time Reliability to inform project identification Safe & Equitable • Identify Annual Targets for all metrics and prioritization Mobility **Strategic** · Expand continuous and real-time traffic data **Mobility Plan:** collection with permanent traffic count stations. Corridor Vehicular Planning Time Index **Corridor Travel Time** Manage Roadway Evaluate individual corridors to establish Bus Reliability: On-time bus performance via Congestion and · Establish Performance Targets Transit Signal Priority performance targets & potential projects Reduce Emissions adequacy/needs of existing infrastructure **Strategic Energy Action** Expand use of origin & destination travel data Plan: **Trip Length** (freight, pedestrian, transit, and bike) · Trip length in Activity Centers & high-growth Reduce Document impact of 2040 Policy Map & · Establish Performance Targets Greenhouse Gas Emissions increases roadway vehicular capacity CITY of CHARLOTTE

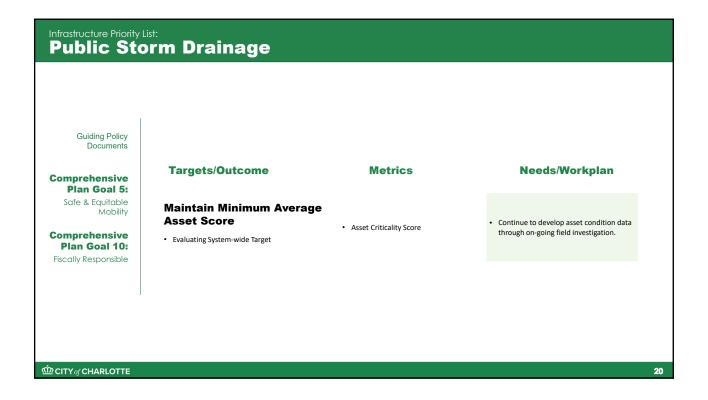
	Targets/Outcome	Metrics	Needs/Workplan
Guiding Policy Documents	Complete Sidewalk Network • Evaluating Targets	 Miles of new sidewalk (arterials) Miles of new sidewalk (local & arterials) in transit areas (½ mile of rail/bus stops & mobility hubs) 	Explore new funding sources to accelerate public investments in sidewalk facilities. Track/measure sidewalk completion through private land development (UDO/CTR)
Plan Goal 5: Safe & Equitable Mobility Strategic Mobility Plan:	Complete Bike Priority Network • Evaluating target	Miles of new bike facilities	Explore new funding sources to accelerate public investments in bicycle facilities. Track/measure bicycle facility completion/ROW protection through private land development (UDO/CTR)
0/50 Mode Share	Expand Connectivity • Evaluating target	Miles of new streets	Track/measure new street completion/ROW protection through private land development (UDO/CTR)
	50/50 Mode Share • 50% non-SOV commute trips	Commute trips by mode	Conduct frequent Household Travel Surveys to track travel mode changes (remote work, carpooling, transit, walking, biking)

	Targets/Outcome	Metrics	Needs/Workplan
Guiding Policy Documents Comprehensive Plan Goal 5:	Eliminate traffic deaths and serious injuries • Vision Zero	Number of Fatal and Serious Injury Crashes	Review crash data entry process to identify ways to increase speed and efficiency of data analysis
Safe & Equitable Mobility	Complete Street Lighting Identifying Targets	Miles of New Streets with Lighting (arterials)	Continue to use SMP/High Injury Network data to prioritize street lighting projects
Mobility Plan: Vision Zero	Increase Safe Pedestrian Connectivity Identifying Targets	Number of New Crossings Installed Number of New/upgraded Signals	Use SMP to identify & prioritize future pedestrian signal installations and upgrades Track/measure new crossings & signal upgrade completion through private land development (UDO/CTR)

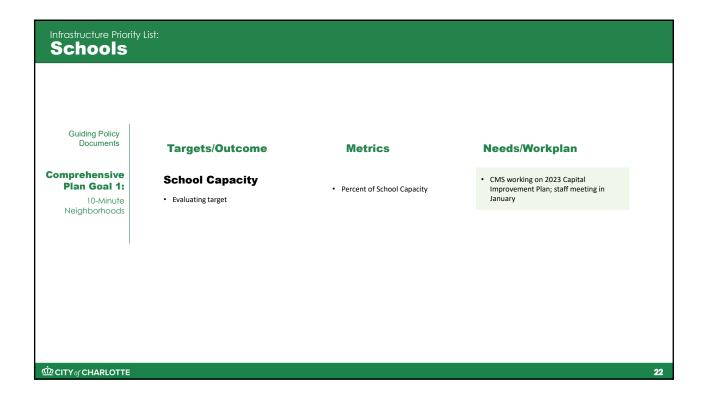
	Targets/Outcome	Metrics	Needs/Workplan
Guiding Policy Documents Comprehensive Plan Goal 3:	Create New Affordable Housing • At least new 900 units/year	Number of new affordable housing units funded	Currently measuring
Housing Access for All	Preserve Existing Affordable Housing • At least 200 units/year	Number of units acquired and/or rehabilitated and restricted for low- to moderate-income residents	Currently measuring

	Targets/Outcome	Metrics	Needs/Workplan
1	Timely Response to Fire Calls for Service		
Guiding Policy Documents National Fire Protection	Respond to at least 90% of Fire Calls for Service within 6 minutes Respond to Structure Fire Calls with an effective firefighting force within 10 minutes 20 seconds 90% of the time Answer 911 calls within 10 seconds or less at least 90% of the time	Response Time: Fire Calls for Service Response Time: Structure Fire Calls Response Time: 911 Calls	Expand and update Fire Facilities Master Plan and evaluate strategic placement of additional ladder companies throughout the city
Association (1710 Standard) National Emergency Number Association	Reduce Fire Company Workload Reduce or eliminate the number of Fire companies responding to over 3,500 calls for service each year	Fire Company Workload	Enhance Analysis on projected retirements, retention rates, growth in calls-for-service, growth and
911 Call Processing Standard) Comprehensive Plan Goal 6: Health, Safe, and active Communities	Timely Response to Police Standard) Omprehensive Plan Goal 6: Health, Safe, and Timely Response to Police Call for Service • Response Time: Priorit Calls • Response Time: Priorit Calls • Response Time: 911 C	Response Time: Priority 1 Emergency Police Calls Response Time: 911 Calls	development in the city to create short and long-term staffing targets and strategies for Police and Fire





	Targets/Outcome	Metrics	Needs/Workplan
Guiding Policy Documents	Access to High	Share of households and jobs with access to high performance transit service (LRT, Streetcar, BRT & Bus) with 15-minute or better peak hour service	Currently measuring
mprehensive	Performance Transit Service	Percent of riders with access to 15-minute or better peak hour service	Currently measuring Evaluating/establishing baseline
Plan Goal 4: Transit & Trail Oriented Development	Evaluating Targets	Number of new housing and non-residential units in station areas	
2030 Transit		Number of new affordable housing units in station areas	
Corridor Plan	Community Impact	Percent of transit enhancements made within the Corridors of Opportunity	Currently measuring
Envision My Ride	Evaluating Targets	Number and percent of service hours in Corridors of Opportunity	



	Targets/Outcome	Metrics	Needs/Workplan
Guiding Policy Documents Comprehensive Plan Goal 10: Fiscally Responsible	Safe Drinking Water Act & Clean Water Act	Maintain compliance with applicable requirements for the Safe Drinking Water Act	Currently measuring
	100% compliance	and Clean Water Act	
	Wastewater Treatment Plant Capacity Below 80% of treated wastewater capacity	Maintain wastewater treatment plant capacity through master planning implementation	Currently measuring
	Development & Capacity Review • 20-day review period	Meet the needs of the development community through prompt plan review and capacity availability	Currently measuring
	Regional Economic Development Analysis Complete baseline analysis this year	Conduct a regional economic development analysis	Currently measuring

Wrap Up and Next Steps

Staff continue to develop measures, targets, and outcomes over the coming months

Routine check-ins with Council

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