

# City Council Workshop

August 9, 2021



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# Item 1

Consultant's Presentation  
Update on Redistricting



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# CONTINUED DISCUSSION OF REDISTRICTING PROCESS AND CRITERIA

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City of Greenville  
August 9, 2021

# REDISTRICTING CRITERIA

- Population equality (within  $\pm 5\%$  is required, but it can also be prioritized to make the deviation even smaller, or to take anticipated growth into account, as mentioned below)
- Compliance with the Voting Rights Act, if applicable
- Contiguity is required, understanding that satellite areas will be exceptions
- Preserving administrative areas intact (if this is chosen, should specify which: e.g., precincts, central business district)
- Preserving communities of interest (can be neighborhoods, or other areas with shared demographic, cultural, historic, or economic characteristics. These can be more nebulous and are often defined with a public engagement process.)



## REDISTRICTING CRITERIA (CONTINUED)

- Following major physical features as boundaries when possible (e.g., major roads, railroad tracks, waterbodies)
- Taking into account post-census development and population growth when balancing populations of districts (all still must be within  $\pm 5\%$  of average based on 2020 census figures)
- Compactness of districts
- Preservation of the cores of existing districts
- Avoiding the pairing of incumbents in the same district

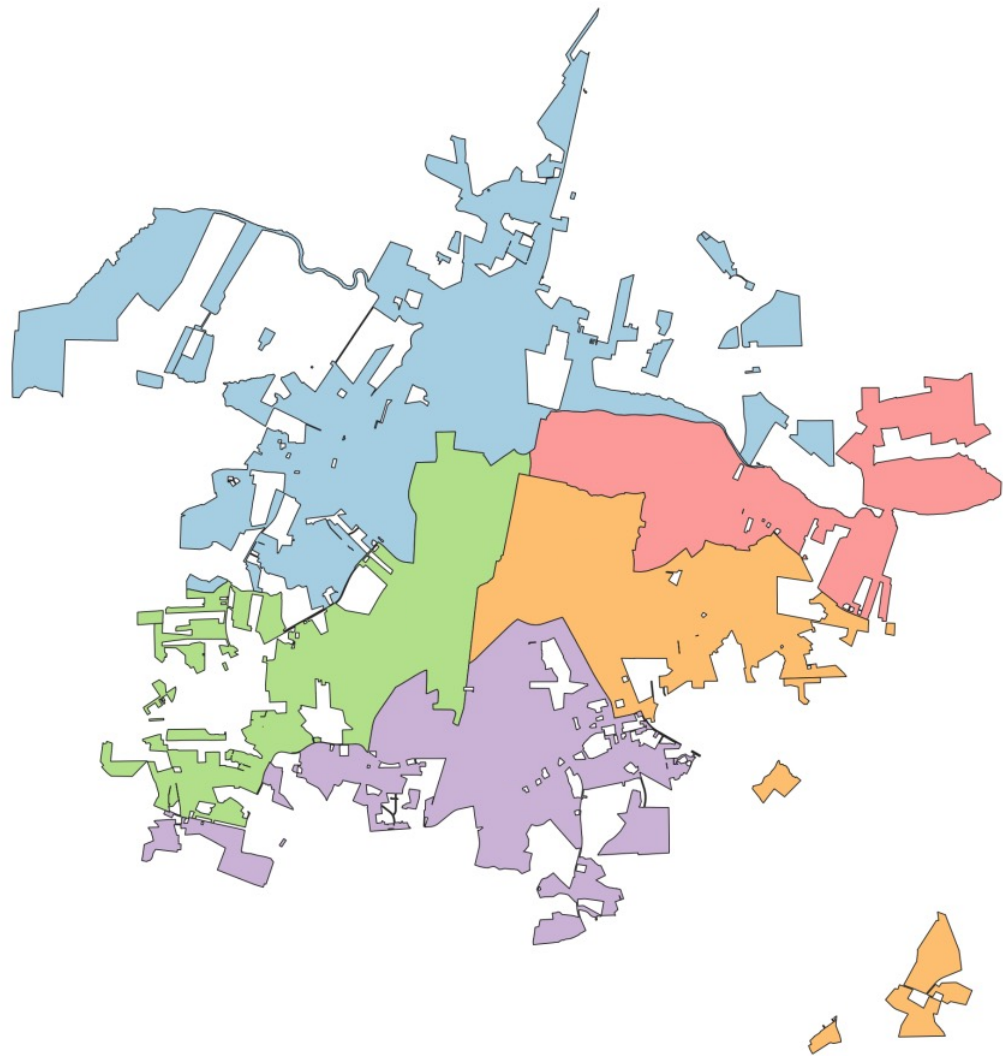
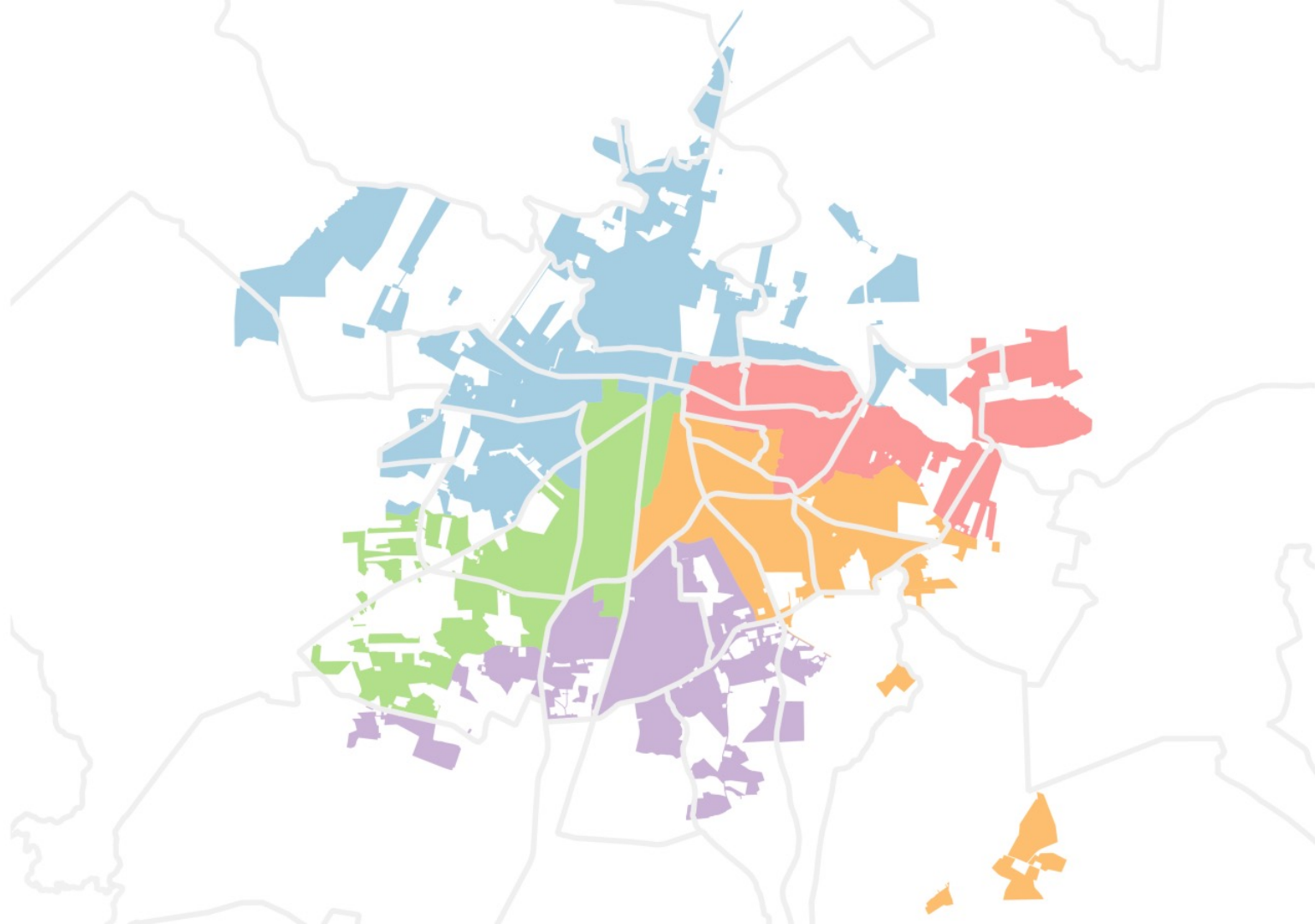
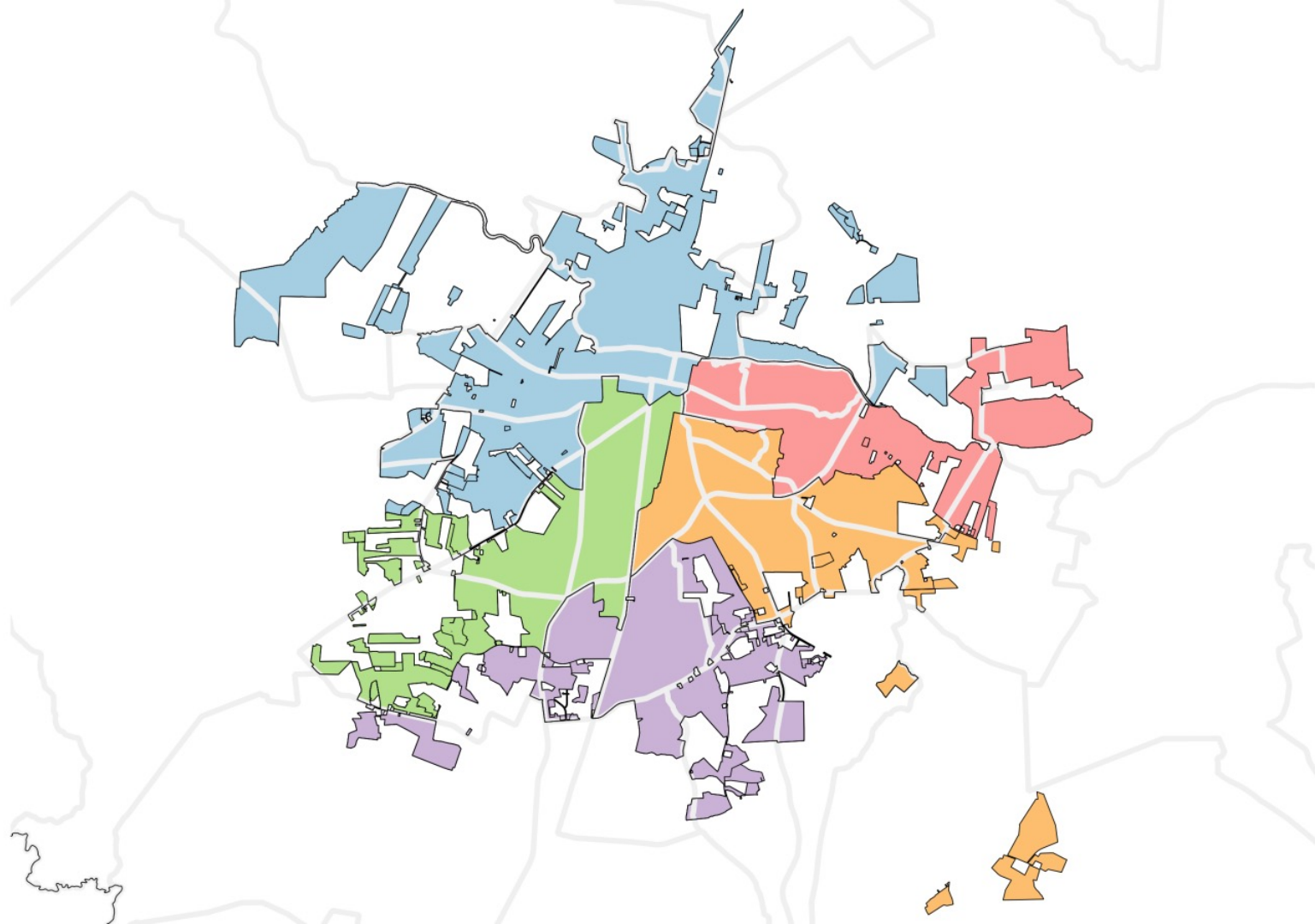


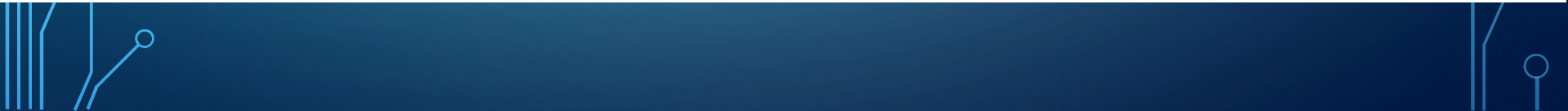
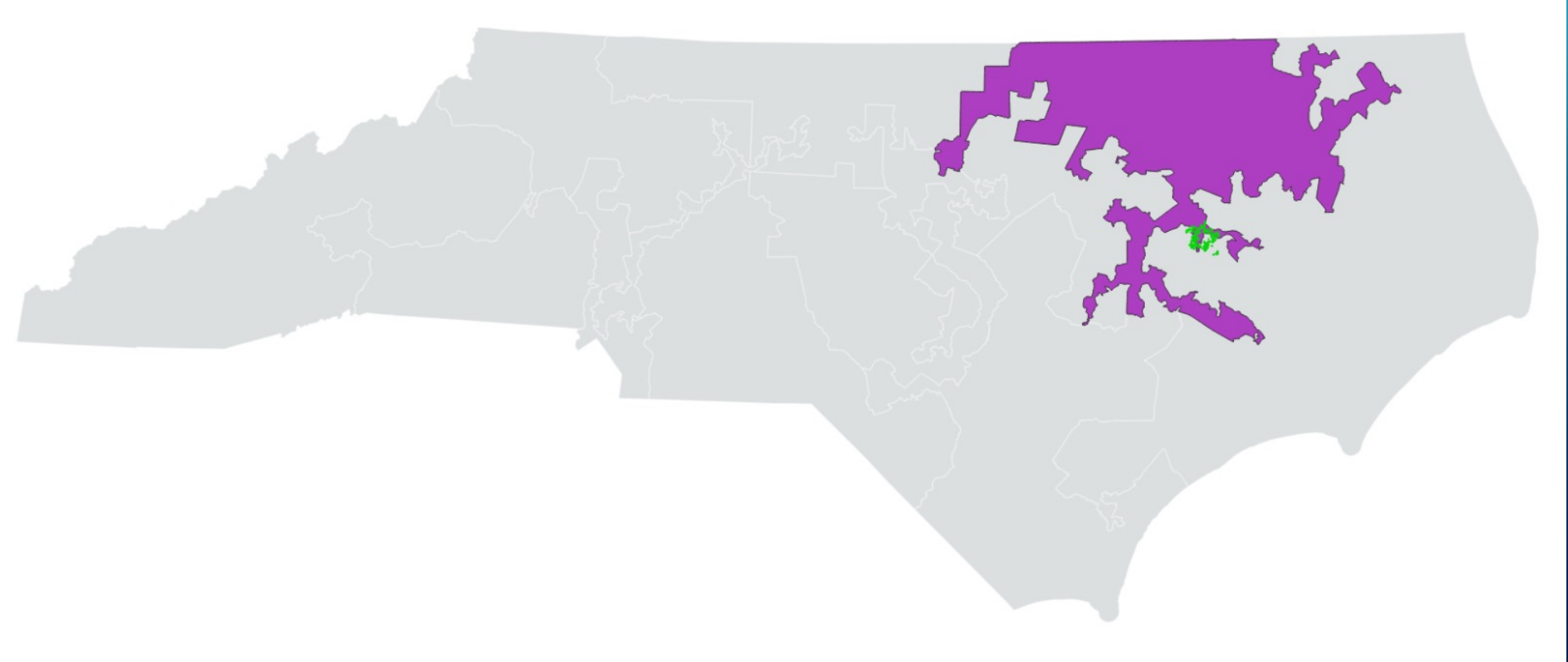


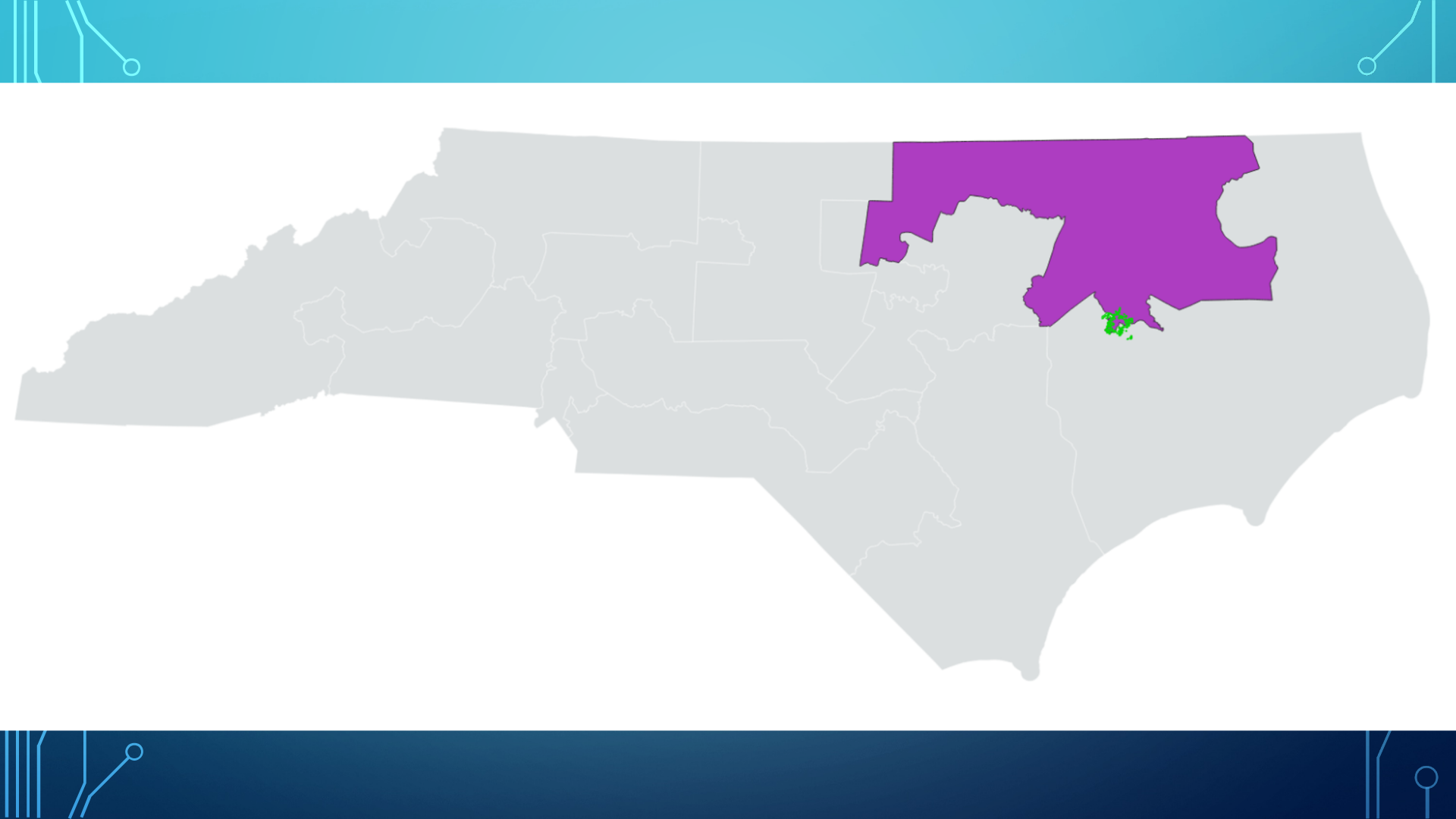
Image source: <https://www.autoblog.com/buy/2018-GMC-Yukon+XL/specs/>













The background is a blue gradient. In the corners, there are white line-art illustrations of circuit boards or neural networks, with lines and small circles representing nodes.

QUESTIONS?

# Item 2

## Update on Pavement Management Program



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# Overview

- Brief History
- Pavement Condition Survey
- New Program



# History

- First Pavement Condition Survey - 2014
- First major increase in funds
- \$19M – approx. 118 lane miles
- Second Pavement Condition Survey



# Pavement Condition Surveys



Why perform a Pavement Condition Survey?

- Condition assessment
  - ✓ Complete inventory of all streets
  - ✓ Magnitude of distress types
- Budget planning
  - ✓ Value of assets
  - ✓ Scenarios



# Pavement Condition

## Surveys

What are the limitations?

### PCI: Pavement Condition Index

- Single number representing condition (0-100)
- Type/Severity/Extent of stresses

- PCI's don't tell the whole story
  - ✓ Condition of underground utilities
  - ✓ Pavement structure
  - ✓ Rideability
- Accuracy of deterioration curves
- Broad budget numbers
  - ✓ Assumes 1 type of treatment for a range of PCIs
  - ✓ Doesn't account for C&G or ADA



# Pavement Condition Final Report

## Functional Classification

Functional Class/ Paver Designation	Number of Sections	Number of Lane Miles	Weighted Average PCI
Major Thoroughfare/ Industrial	85	41.67	88
Minor Thoroughfare/ Collector	427	112.79	76
Residential	2,903	574.09	76
Total	3,415	728.55	76





# Pavement Condition Final Report

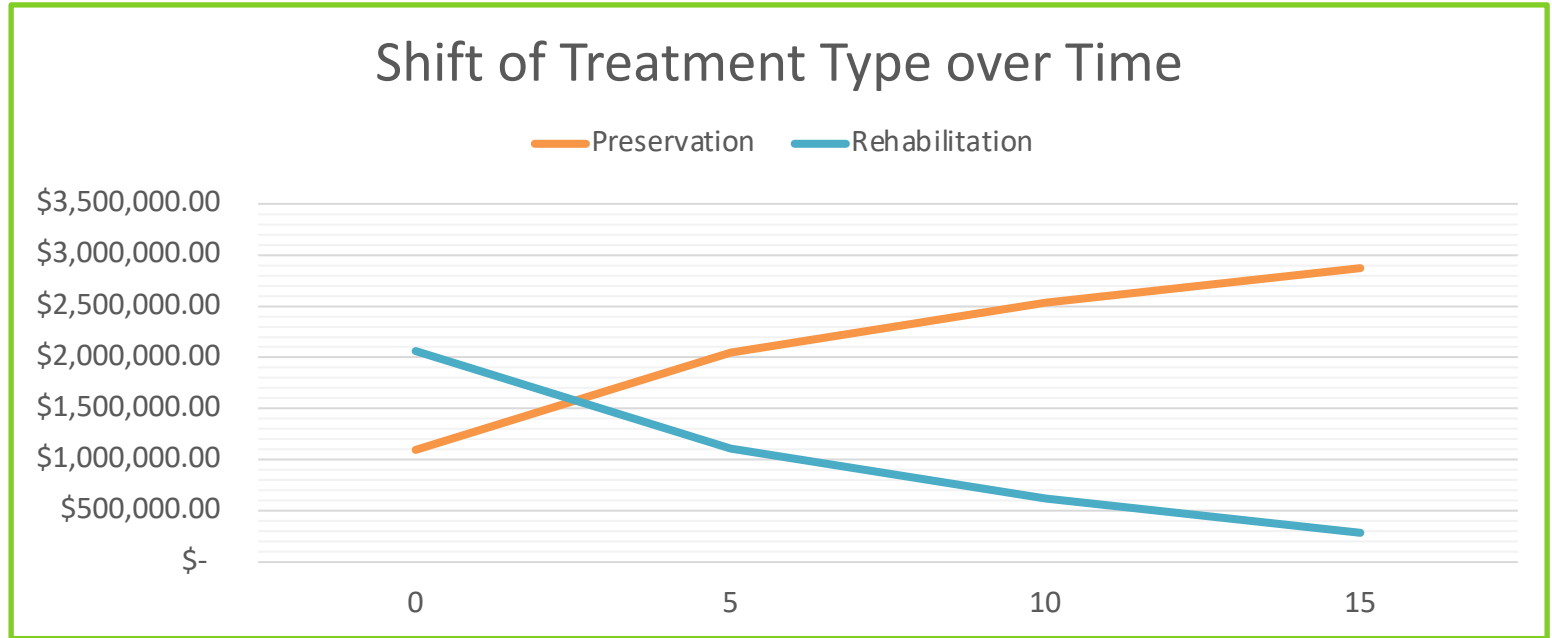
## Maintenance/Repair Categories

M&R Category	M&R Treatment	Expected Result	Current Lane Miles	Centerline Length (Miles)	Percent
Do-Nothing (PCI 91-100)			110.2	37	15%
Maintenance (PCI 81-90)	Crack Sealing	3-5 years	211.4	81	29%
	Roadway Spot Patching	1-3 years			
Preservation (PCI 61 -80)	Microsurfacing	7-years	188.3	72	26%
	Slurry Seal	5-7 years			
Rehabilitation (PCI 41 - 60)	2-inch Mill and Fill or Overlay	10-years	194.35	74	27%
Reconstruction (PCI 0 - 40)	Full Depth Repair	15-years	24.3	9	3%
	Total Roadway Reconstruction				
Total			728.55	273	100%



# Pavement Condition Final Report

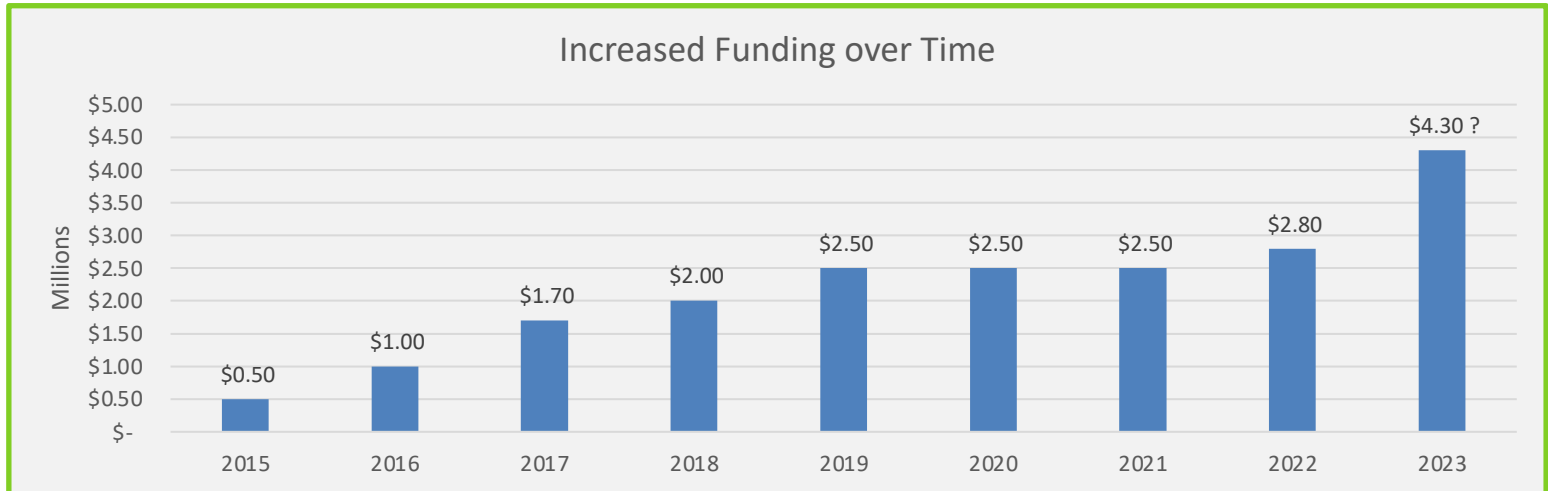
## Typical Trend



# Pavement Condition Final Report

## Budget Considerations

- ✓ Maintenance is addressed with operational funds
- ✓ Reconstruction is funded through the Capital Program
- ✓ System PCI to maintain?



So we will have all this information...

How do we use it to  
develop a  
*Pavement Management  
Program?*





# Time for a New Program

- Philosophical shift from Resurfacing only to a Pavement Management Program
- Treatments used to extend life cycle of streets:
  - ✓ Crack Sealing
  - ✓ Microsurfacing
  - ✓ Slurry Seal



## Council Goal:

*"Enhance accessible transportation networks and public building, public infrastructure development"*

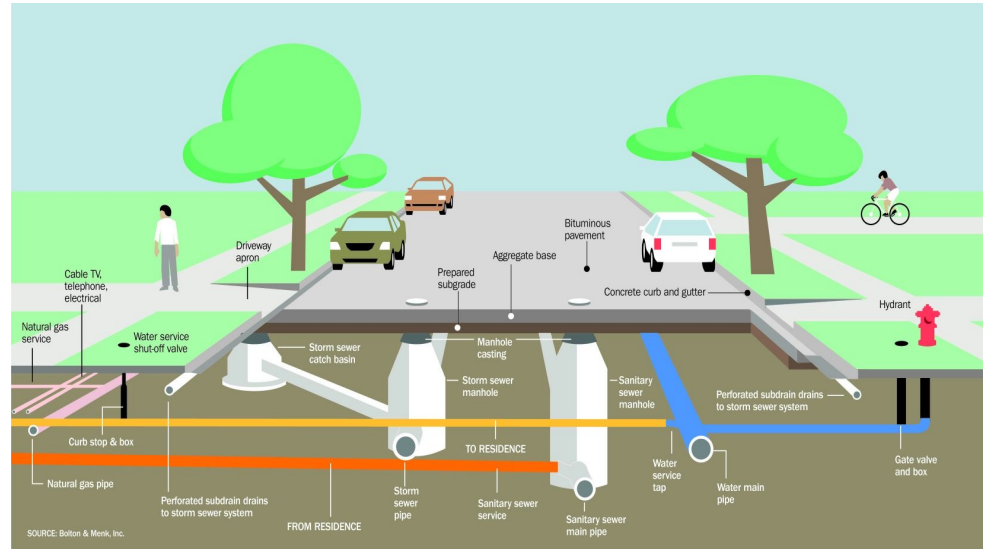
## Program Goals:

- ✓ Protect our investment by striving for longest life cycle
- ✓ Provide equitable infrastructure investment throughout our city limits



# Considerations beyond PCI

- Condition of underground utilities
- Pavement structure
- Proximity to current/future development
- Rideability





# Prioritization Protocol

## Maintenance Category (Operational Budget)

- PCI Range 81-90+/-
- Review Data – Inspect Streets
- Provide yearly work plan to PWD
  - ✓ Critical aspect of the program
  - ✓ Plan correlates with Preservation Plan
- Treatment Types
  - ✓ Crack Sealing
  - ✓ Asphalt Patching



# Prioritization Protocol

## Preservation Category (30%-50% Budget)

- PCI Range 71-80+/-
- Review Data – Inspect Streets
- Pavement Condition:
  - ✓ Low Severity of Asphalt Cracking
  - ✓ Low Severity of Asphalt Patching
- Pavements aged 7 to 10 years take precedent
- Treatment Types:
  - ✓ Microsurfacing
  - ✓ Slurry Seal



# Prioritization Protocol

## Rehabilitation Category (50%-70% Budget)

- PCI Range 41-70+/-
- Review Data – Inspect Streets
- Pavement Condition:
  - ✓ Moderate to High Severity of Asphalt Cracking and Patching
- Rehabilitation Hierarchy:
  1. Major Thoroughfares
  2. Minor Thoroughfares/Collector Roads
  3. Residential Roads
  4. Industrial Roads
- Treatment Type:
  - ✓ 2" Asphalt Mill and Fill or overlay



# Prioritization Protocol

## Reconstruction Category(Capital Budget)

- Projects beyond scope of traditional rehabilitation
- RFQ for design services
- Potential projects include:
  - ✓ Reade Street
  - ✓ East 4<sup>th</sup> Street
  - ✓ Harmony Street
  - ✓ Quail Hollow Rd



# Scheduling Milestones

2022 Pavement Contracts, Advertise	October 2021
2023 Preliminary Plans	October 2021
2022 Pavement Contracts, Award	January 2022
2023 Final Plans	February 2022
2022 SW Contracts, Advertise (2023 Pavement Contracts)	March 2022
2022 Pavement Contracts, NTP	March 2022
2022 SW Contracts, Award (2023 Pavement Contracts)	May 2022
2022 SW Contracts, NTP (2023 Pavement Contracts)	June 2022



# Scheduling Milestones

Take away is...

- This October we are developing preliminary street lists (plans) for 2 years out
- Maintenance treatments and stormwater repairs must be completed 1 year before Pavement Contracts are advertised



# Program Evaluation

See results 3-5 years:

- ✓ Prioritization Protocol
- ✓ Deterioration curves
- ✓ Treatment types
- ✓ Budget allocation





# Next Steps

- Finalize 2022 Work Plan based on current budget:
  - ✓ Maintenance
  - ✓ Preservation
  - ✓ Rehabilitation
- Contracts for Preservation and Rehabilitation advertised Oct 2021
- Work with CMO on future budget



Comments

Or

Questions



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