Pavement Condition Evaluation Survey & Pavement Management Software System Contract
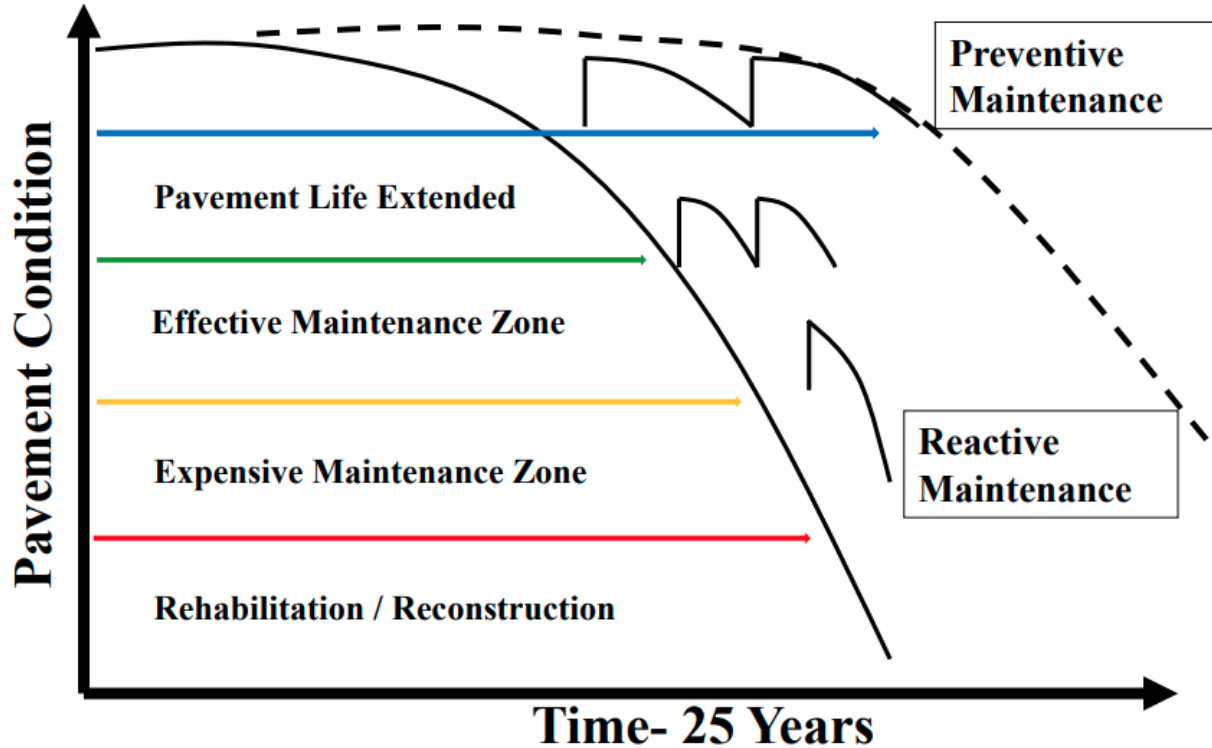

Council Presentation
December 14, 2021

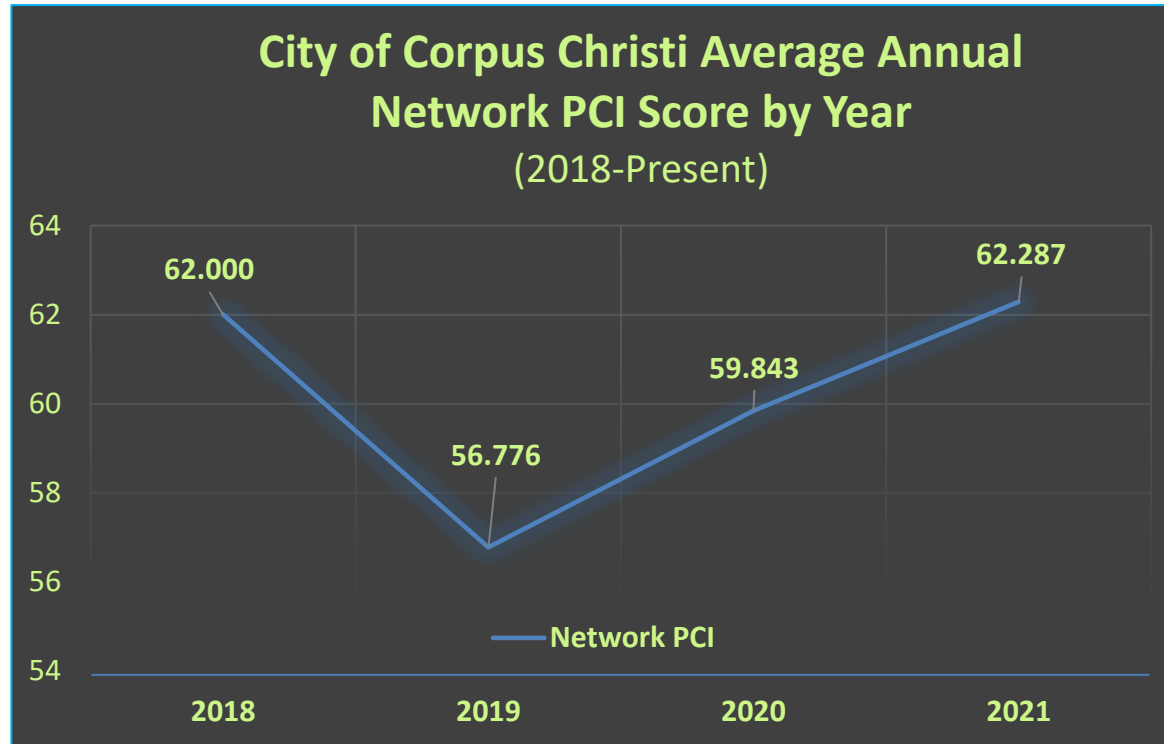# Optimized Street Maintenance

Historical PCI Scores

City of Corpus Christi Average Annual Network PCI Score by Year
(2018-Present)

- 62.000 (2018)
- 56.776 (2019)
- 59.843 (2020)
- 62.287 (2021)

Legend: —— Network PCI

Pavement Condition Survey, Assessment, & Indexing

- Pavement Condition Index (PCI) – numerical grade given to each street indicating its level of deterioration.

PCI Score (0-100)	Street Maintenance Type & Applications
71 - 100	**Preventative Maintenance** – Ultra Thin Overlays & Pothole Repairs
56 - 70	**Preventative Maintenance** – Overlays, Base & Pavement Repairs, and Minor Street Improvements
35 - 55	**Rehabilitation** – 3-6" depth Mill & Asphalt Overlay
0 - 34	**Reconstruction & Reclamation** – Full depth (8-12") structural base replacement & 2-3" Asphalt Overlay

- Industry-accepted standard is to conduct a new pavement condition survey & assessment every **3 years**.

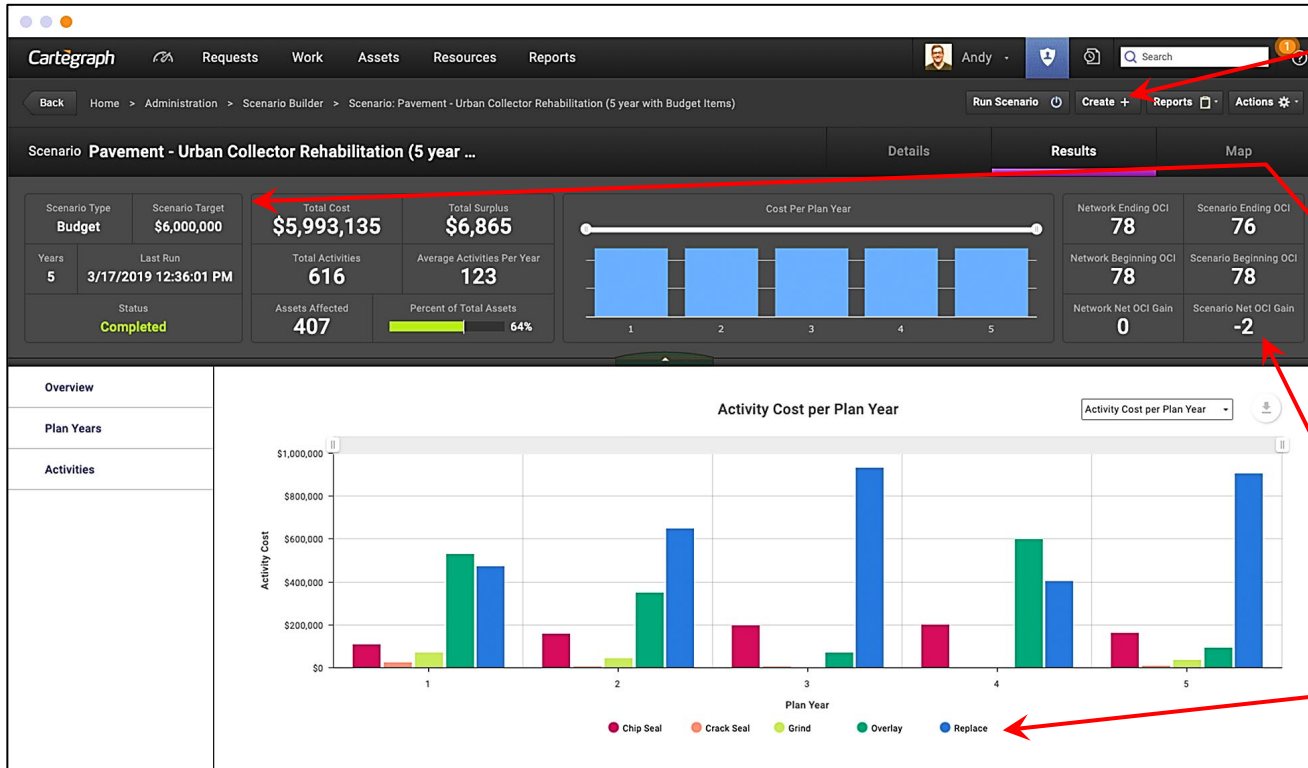- Last pavement condition survey & assessment completed in 2018

Project Scope

- Survey and asses all streets and roadways in the Corpus Christi Street Network (est. 1,210 linear miles)

- Calculate a Pavement Condition Index (PCI) score for every street segment in the Corpus Christi Street Network
  - 1,210 linear miles = 12,888 street segments

- Inventory City transportation facilities located in the ROW:
  - *Pavement Widths*
  - *Improved Alleys (19 mi)*
  - *Guardrails*
  - *Curb & Gutter facilities*
  - *Sidewalks*
  - *Sidewalk Ramps*
  - *Pavement Markings*
  - *Pavement Striping*
  - *Street Signs*

- Implement Cartegraph Asset Management Software

Cartegraph
Asset Management Software

Pavement Scenario Builder / Customization

Budgeting Tool

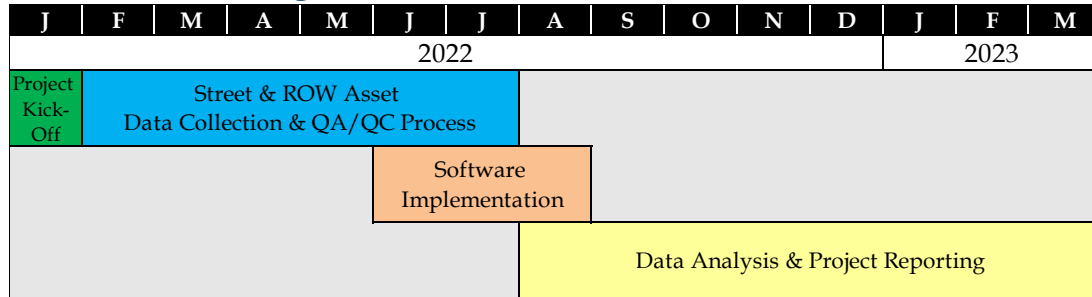Scenario's Impact on Network PCI Score

Street Maintenance Application Planning

Project Timeline

- Estimated 15-month project timeline (Jan. 2022 – Mar. 2023)

- PCI data will be collected and available for Staff's use in the FY 2023 budget process - FY 2026 IMP development.
  - ✓ Phase 1 – Project Management & Coordination – Kick-Off
  - ✓ Phase 2 – Data Collection & QA/QC
  - ✓ Phase 3 – Cartegraph Software Implementation & Staff Training
  - ✓ Phase 4 – Project Reporting / PW Staff's Use of Data in FY 2023 Budget Process

J	F	M	A	M	J	J	A	S	O	N	D	J	F	M
					2022								2023	
Project Kick-Off	Street & ROW Asset Data Collection & QA/QC Process													
						Software Implementation								
							Data Analysis & Project Reporting							

Questions?