

# State of the Streets

Columbus, GA City Council  
October 30, 2023



**We do amazing.**



**International Cybernetics Company, LP**

Kurt Keifer, PhD, PE | President

# Kurt Keifer, PhD, PE

## President | Principal Engineer

### Career Highlights

- 25 Years' Experience in Pavement Engineering and Management
- Associate Program Manager of PAVER™ Pavement Management System at US Army Corps of Engineers (1997-2006)
- Developed Image-Based Automated Method for Performing ASTM D6433 Pavement Condition Index (PCI) Inspections with USACOE
- Managed more than 200 pavement management projects across the United States and around the world
- Licensed Professional Engineer in Georgia and five other states

### Georgia Projects

- Brookhaven 2023
- Bryan County 2023
- Johns Creek 2023
- Peachtree Corners 2023
- Doraville 2022
- Henry County 2022
- Marietta 2022
- Milton 2022
- Oconee 2022
- Peachtree 2022
- Watkinsville 2022
- Atlanta 2021
- East Point 2021
- Valdosta 2021



# AGENDA

- 1 Overview of Pavement Conditions
- 2 Pavement Management Process
- 3 Pavement Condition Survey
- 4 Representative Pavement Conditions
- 5 Questions

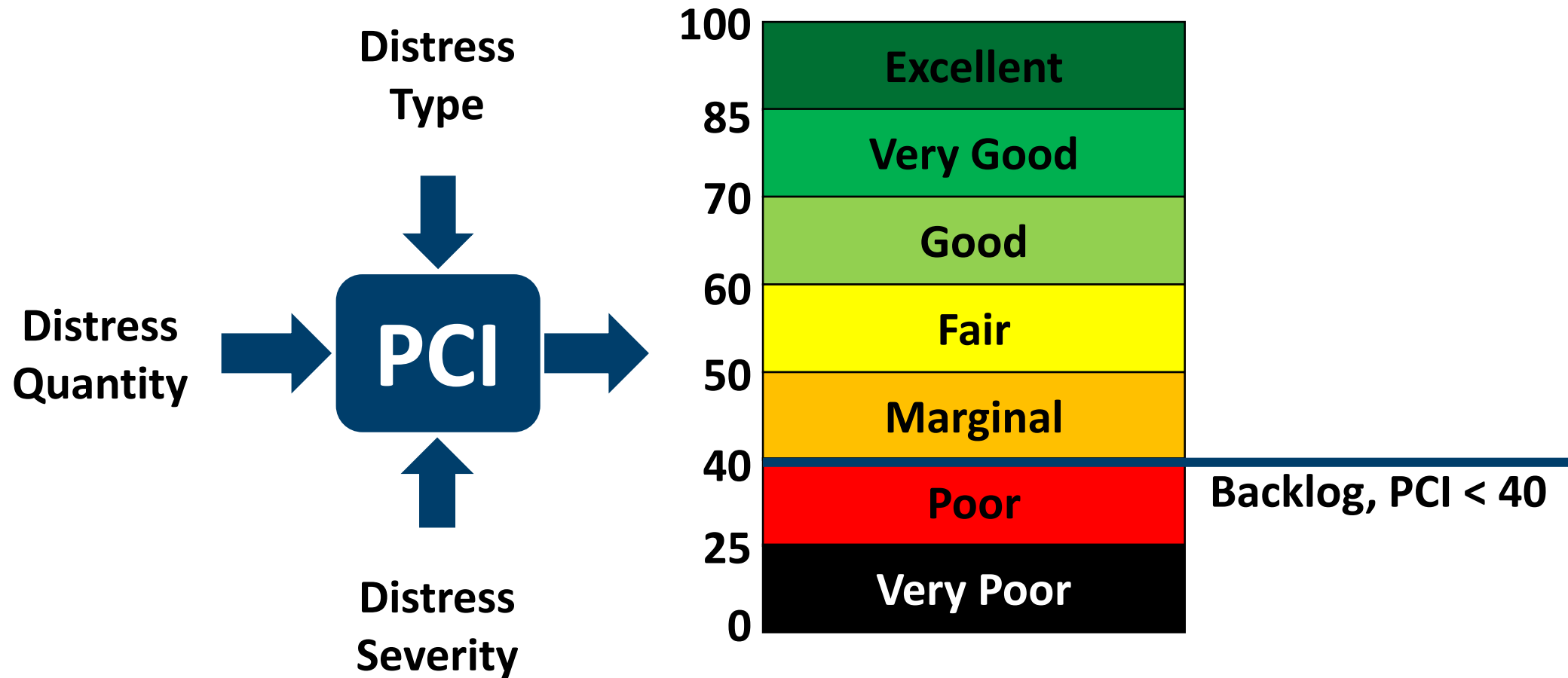




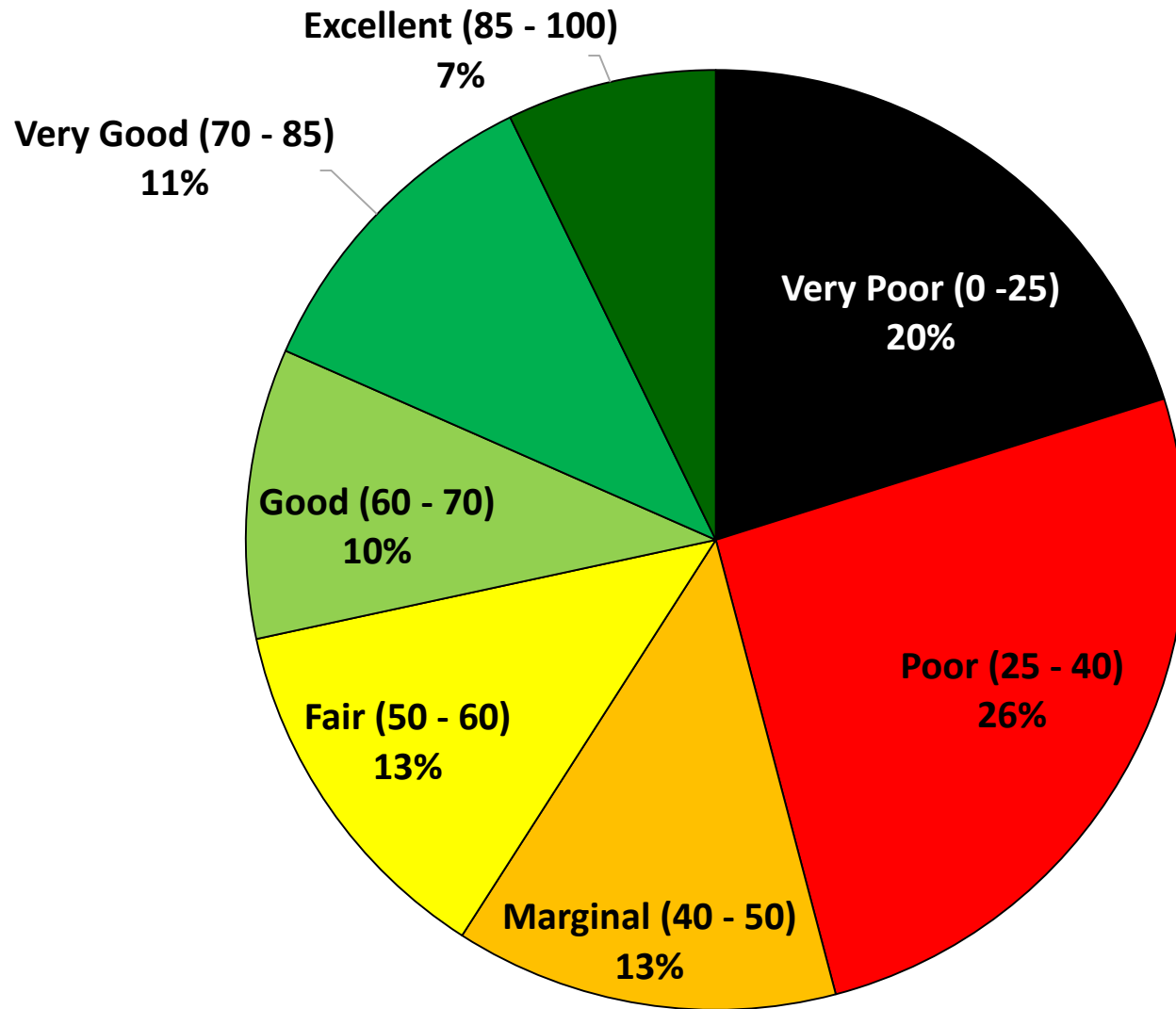
# Overview of Pavement Conditions

---

# PAVEMENT CONDITION INDEX (PCI)



# EXISTING PAVEMENT CONDITIONS



Centerline miles of City-owned roadways: 990 miles

Network Average PCI = 48 (Marginal)  
Backlog = 46%

National Average PCI is 65  
National Average Backlog = 9%



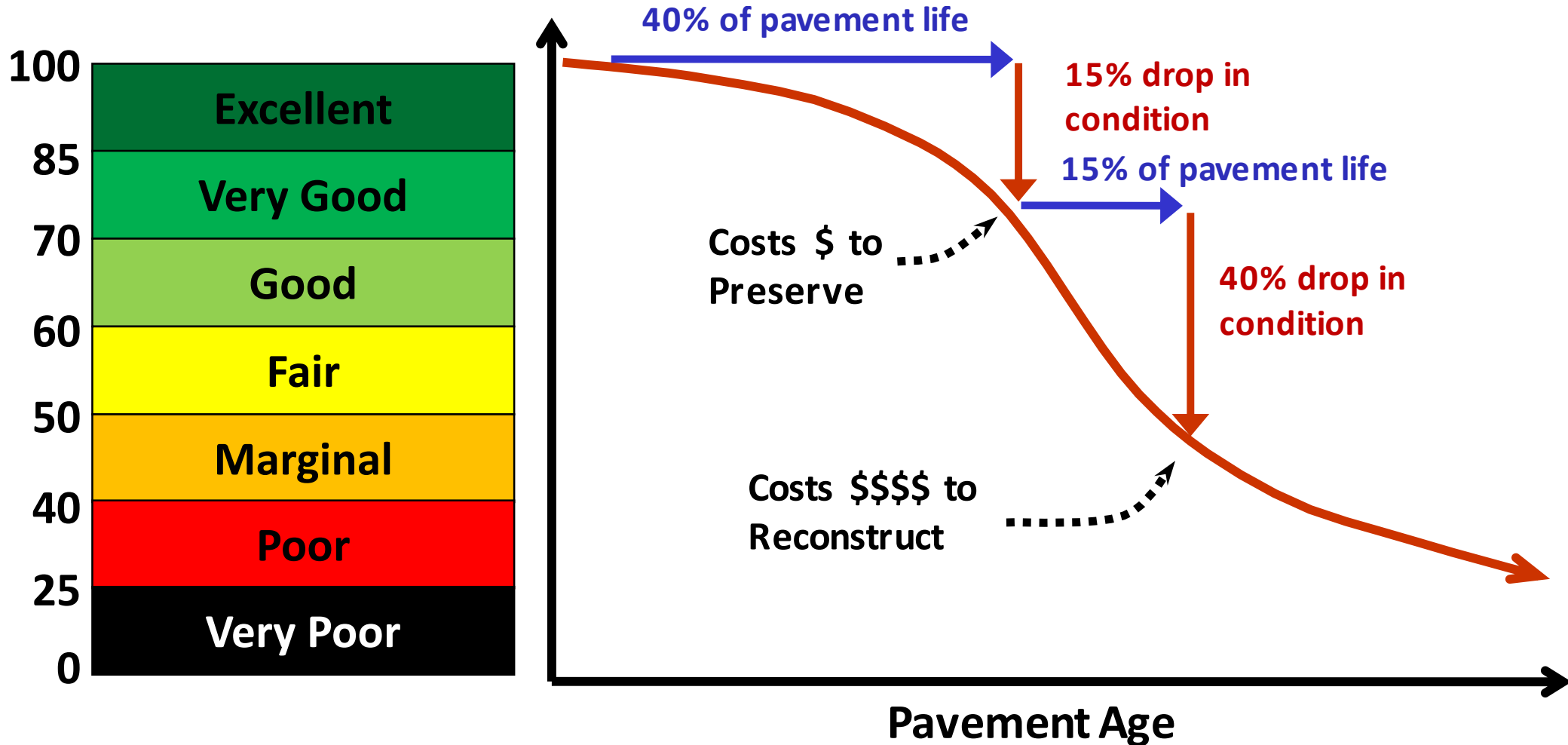


# Pavement Management Process

---



# RIGHT TREATMENT AT THE RIGHT TIME



# PAVEMENT MANAGEMENT PROCESS





# Pavement Condition Survey

---

# PAVEMENT CONDITION SURVEY

*ASTM D6433:*

*Pavement Condition Index (PCI)*

*Industry Standard –*

*Objective and Repeatable*

*Common Pavement Distresses*

*Alligator Cracking*

*Longitudinal and*

*Transverse Cracking*

*Potholes*

*Patching*

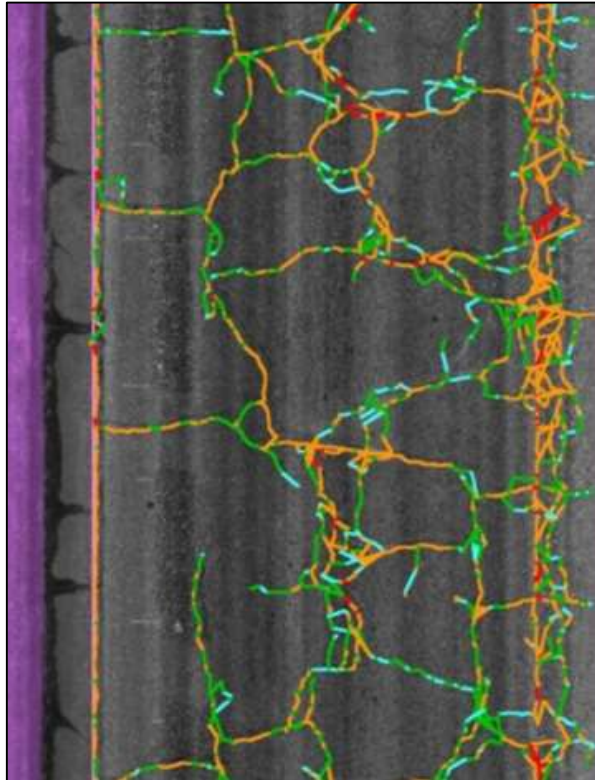
*Roughness*

*Rutting*

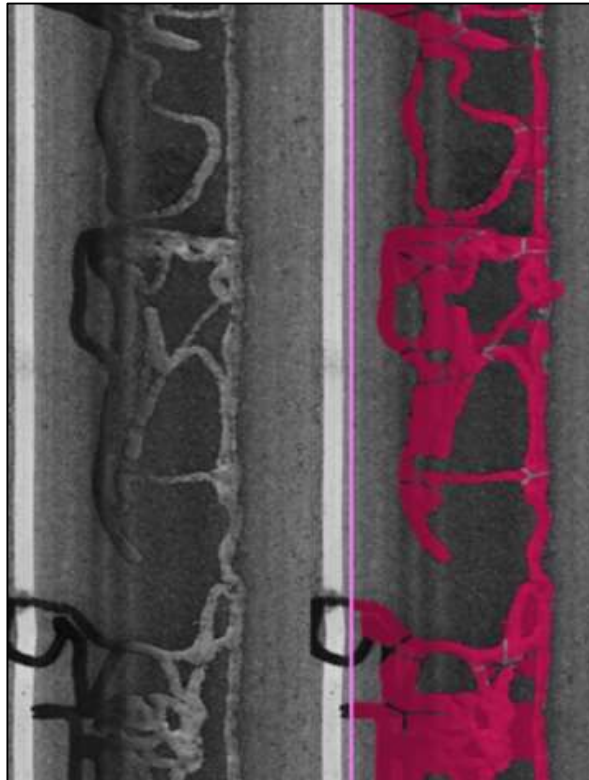


# 3D PAVEMENT DISTRESS SURVEY PROCESS

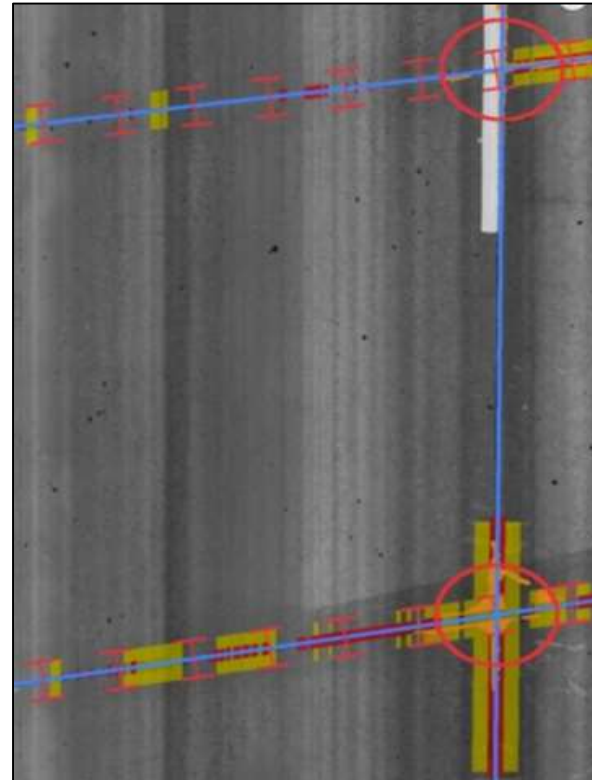
Cracks



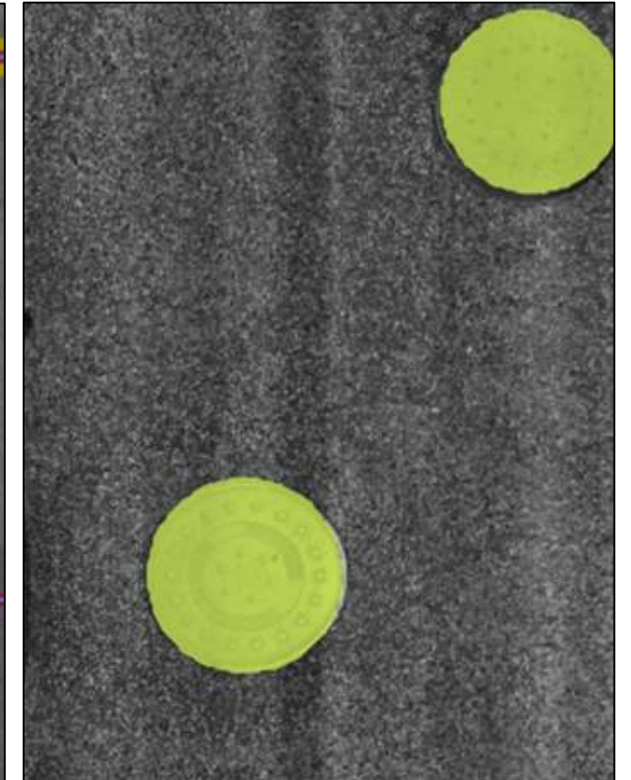
Sealed cracks



Concrete Joints



Utilities





# Representative Pavement Conditions

---

**Condition = Excellent | PCI = 93**



**Condition = Very Good | PCI = 84**





**Condition = Good | PCI = 63**



**Condition = Fair | PCI = 59**



**Condition = Fair | PCI = 54**



**Condition = Marginal | PCI = 44**



**Condition = Marginal | PCI = 42**



**Condition = Poor | PCI = 29**



**Condition = Poor | PCI = 23**



**Condition = Very Poor | PCI = 6**





# State of the Streets

Columbus, GA City Council  
October 30, 2023



**We do amazing.**



**International Cybernetics Company, LP**

Kurt Keifer, PhD, PE | President