



KSA



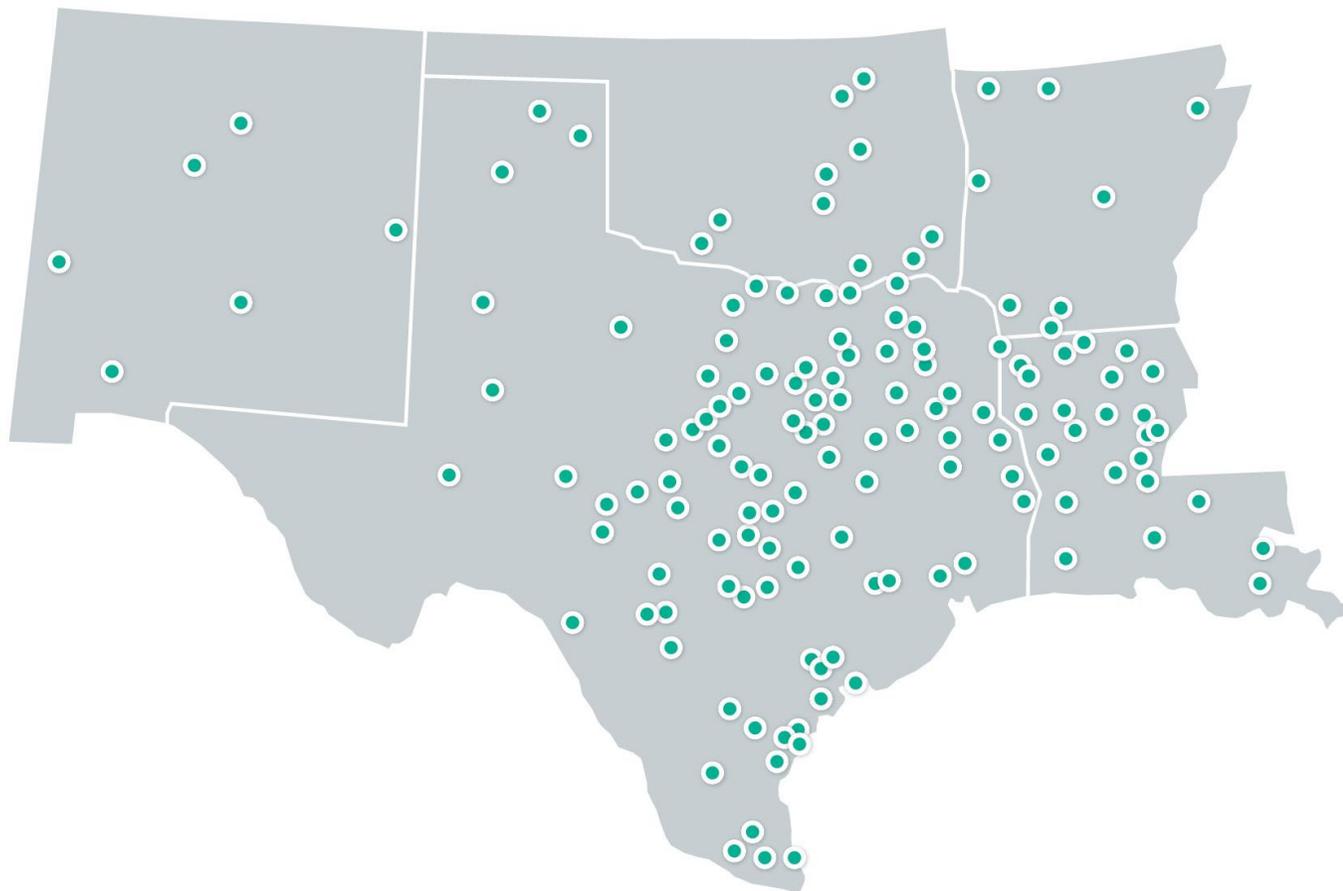
Sugar Land Regional Airport

STAKEHOLDER WORKSHOP #1

Runway 17/35 Rehabilitation
Project

Sept. 25, 2023

KSA 90% of KSA's \$3/4 billion in airport projects have been completed with AIP or state aviation grants in the FAA SW Region!



| KSA COMPLETED AIRPORT ASSIGNMENT BY TYPE | NO. OF PROJECTS |
|---|-----------------|
| Runway Construction/Rehabilitation | 144 |
| Taxiway Construction/Rehabilitation | 128 |
| Apron Construction/Rehabilitation | 101 |
| Airfield Lighting/Signage | 68 |
| Drainage/Stormwater | 65 |
| Visual Aides/Navigational Aides | 60 |
| Access Road/Landside Improvements | 80 |
| Fencing/Security | 49 |
| Hangars - Planning & Development | 136 |
| Airport Development Planning/ALP Updates | 130 |
| Master Plans/Business Plans/ALP Narrative | 37 |
| Fuel Farms | 15 |
| SPCC/SWPPP | 42 |
| ATCT | 2 |

STAKEHOLDER TEAM



Peter Van Pelt Airport/FBO Operations Advisor

21 Years of Airport Management Career

7 airports - including **6** years as Addison Airport Manager
3 years as Aspen Airport Manager.

Extensive experience in tenant coordination & airport special events including:

AirFair Addison '87, '89, '90

And the Grand Prix of Dallas in Addison '90, '91.

Numerous Airport Improvement Projects



Michael Mallonee, M.A.S. Stakeholder Support/ Lead Airport Planner

17 Years of Aviation Experience – Airport Planning

40+ Airports - **Master Planning, Phasing, CIP, Public Involvement**

Airport Planning Experience

Austin Bergstrom International Airport

Fort Worth Spinks

Tyler Pounds Regional Airport

New Braunfels Regional Airport

Denton Enterprise Airport

DESIGN TEAM



Craig Phipps, P.E. Principle-in-Charge, Quality Control

30 Years of Aviation Experience – Design and Construction

50 Airports, **\$285** million in Improvements

Experience at Sugar Land Regional

2001 to Present

2001 ALP Update

East G.A. Complex

Terminal Apron

Taxilane J

RW 17-35 Rehabilitation, HIRLs

Shoulders



Craig Clairmont, P.E., LEED® AP Project Manager

31 Years of Aviation Experience

50 Airports, **\$280** million in Improvements

Runway Reconstruction and Rehabilitation Projects (Construction)

Sugar Land - Parallel Taxiway Relocation (Current)

Victoria - Rehabilitate Runways 13-31 and 18-36 (2020)

Palacios – Rehabilitate Runway 13-31 (2020)

Nashville International – Rehabilitate Runway 2L-20R (2017)

Nashville International – Rehabilitate Runway 2C-20C (2016)

Nashville International – Rehabilitate Runway 2R-20L (2015)

Myrtle Beach International – Reconstruct Runway 18-36 (2015)



Nathan Mikell, P.E. **Deputy Project Manager / Lead Design Engineer**

9 Years of Aviation Experience – Design and Construction

27 Airports, **\$120** million in Improvements

Experience at Sugar Land Regional

Parallel Taxiway A Relocation

Corporate 1 Hangar

WHY ARE WE HERE?

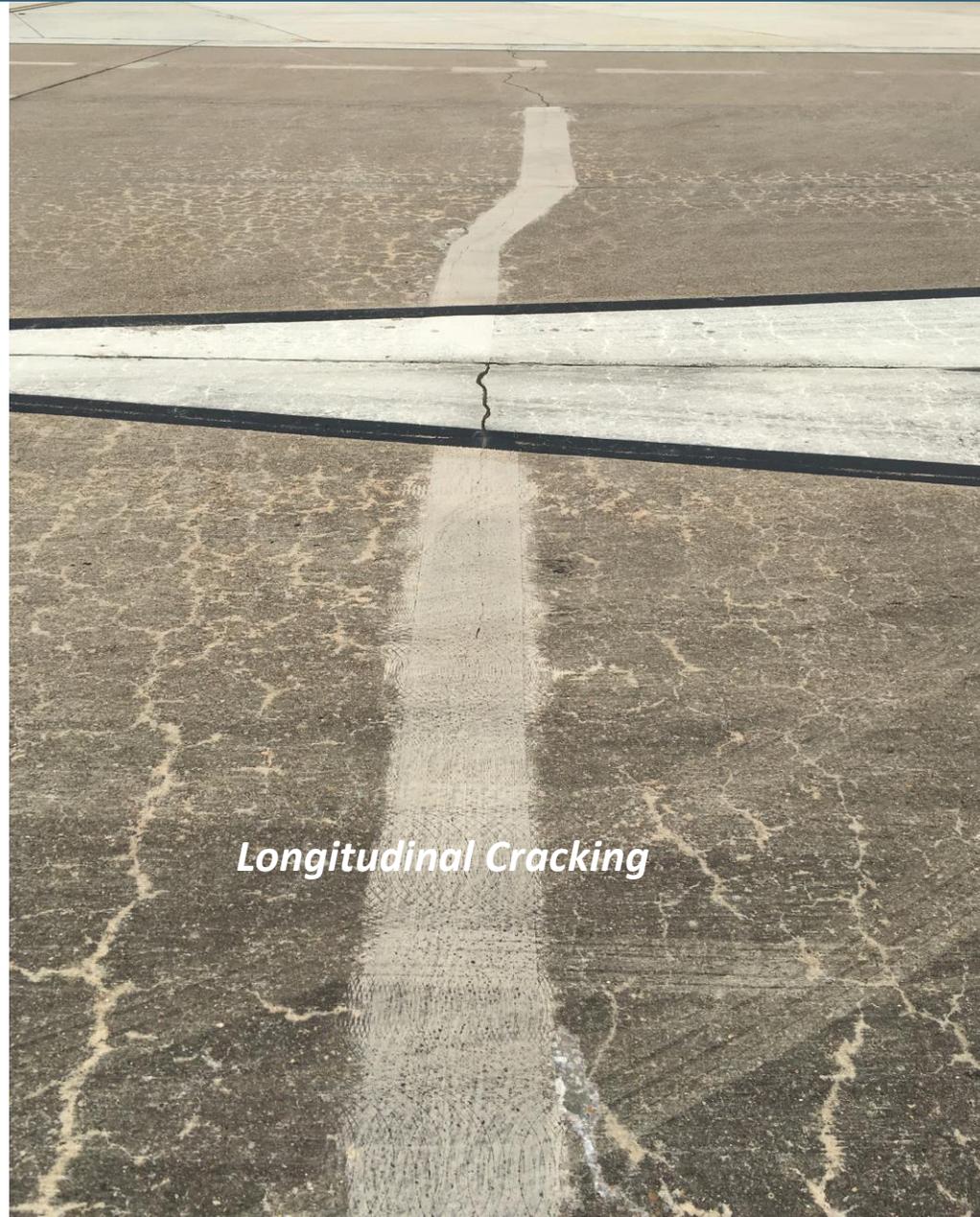
Runway 17/35

The pavement has reached the end of its useful life.

RUNWAY 17/35 FAILURES



Spalling



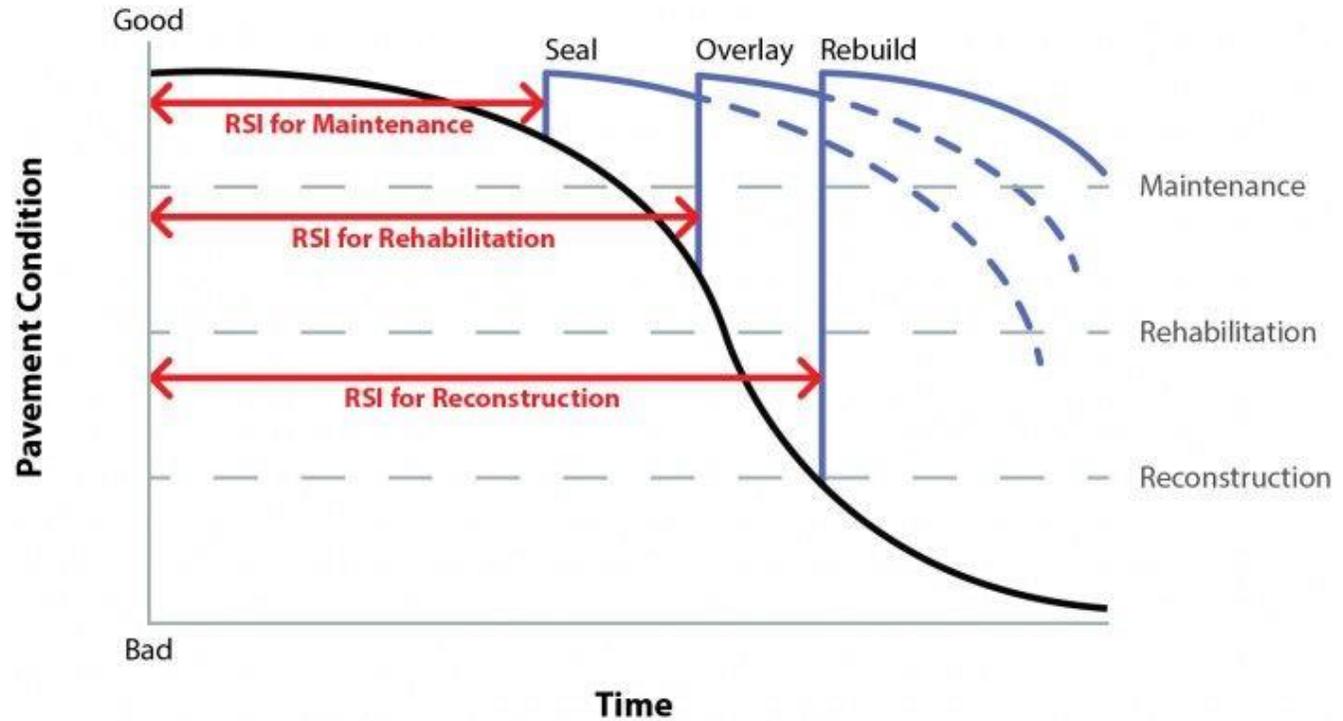
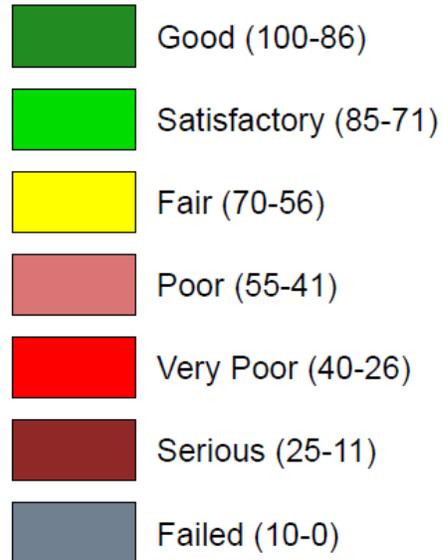
Longitudinal Cracking



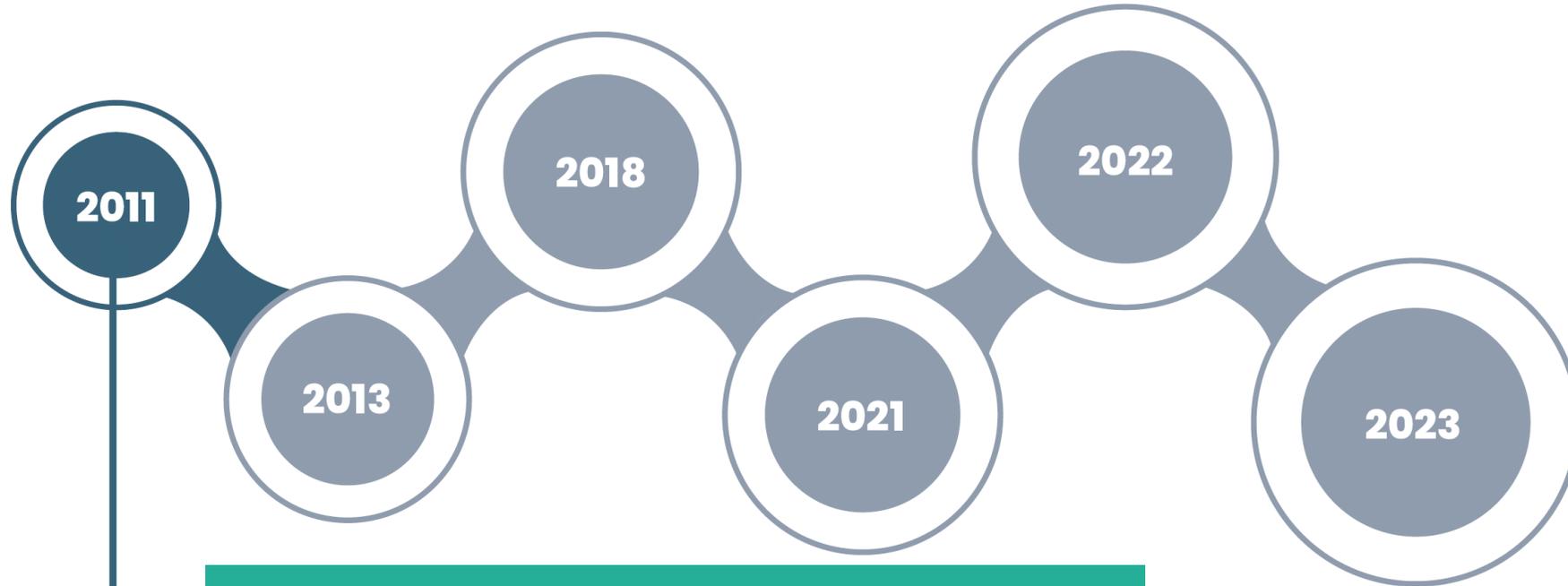
Joint Failure/Spalling

Pavement Condition Index (PCI)

PCI



RUNWAY 17/35 HISTORICAL TIMELINE

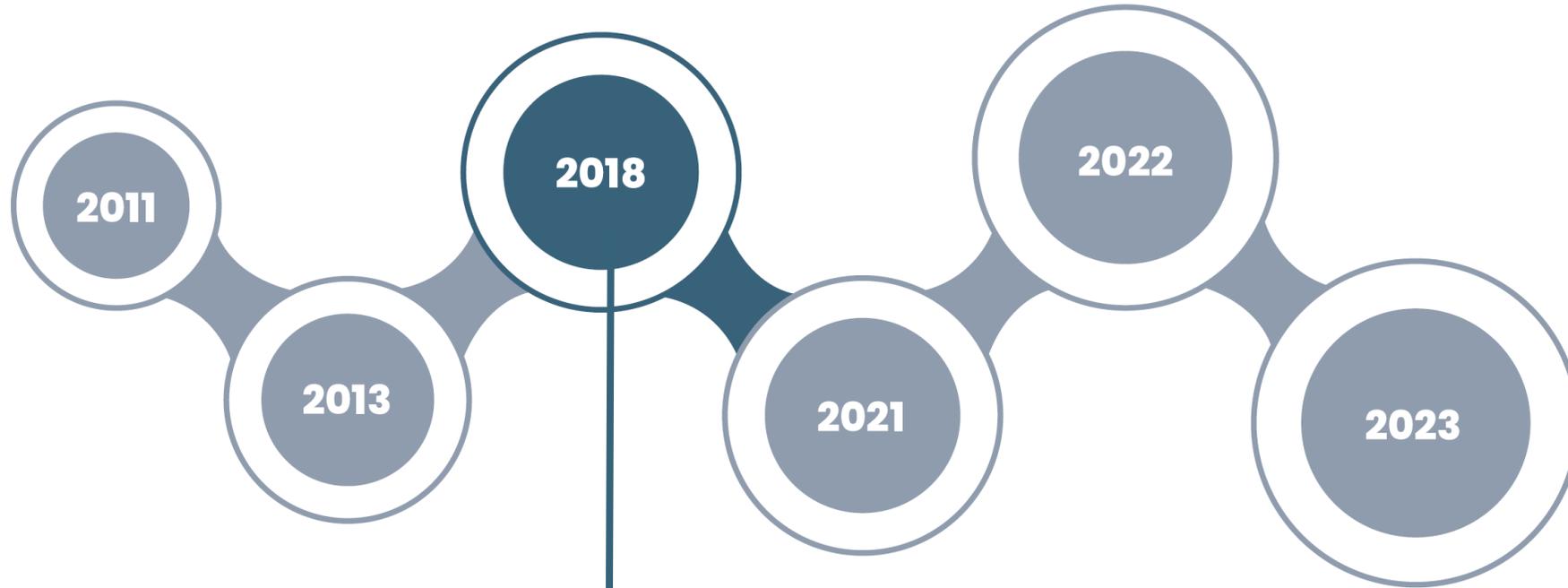


- Pavement Evaluation
- Avg. PCI rating of 28.98 - **“Very Poor”**
- **6 years of remaining life**
- **Pavement rehabilitation** was recommended

RUNWAY 17/35 HISTORICAL TIMELINE

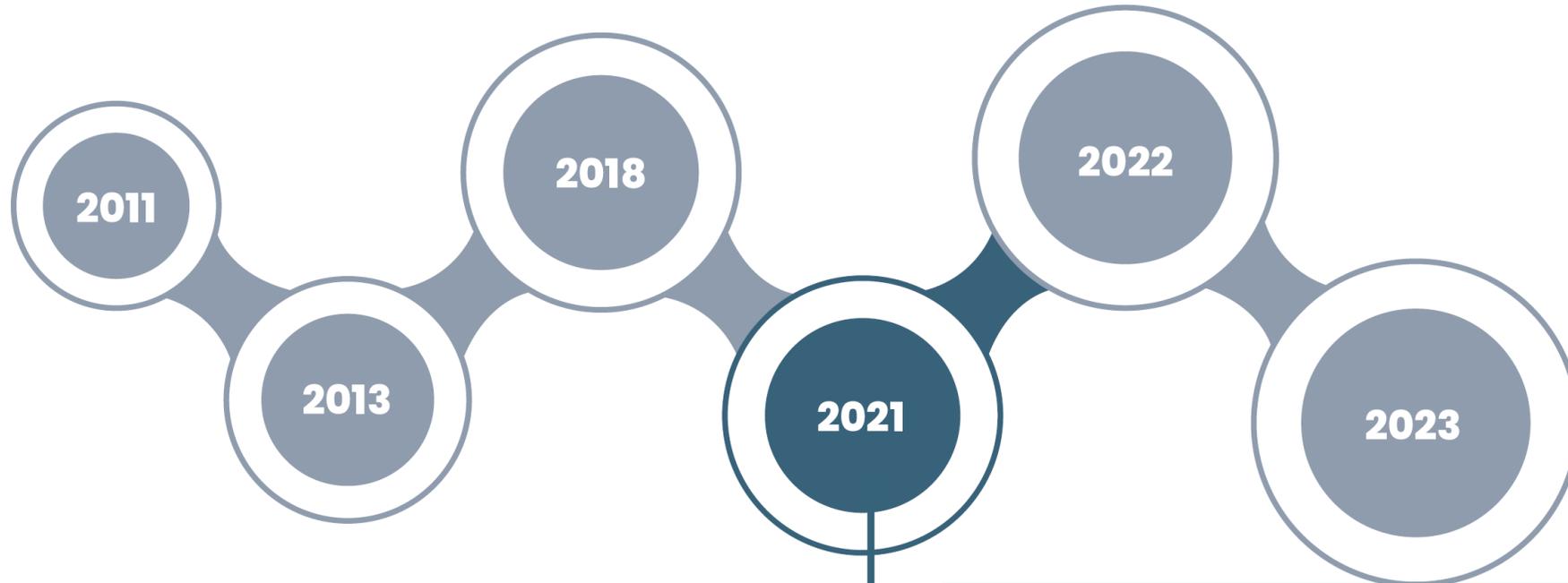


RUNWAY 17/35 HISTORICAL TIMELINE



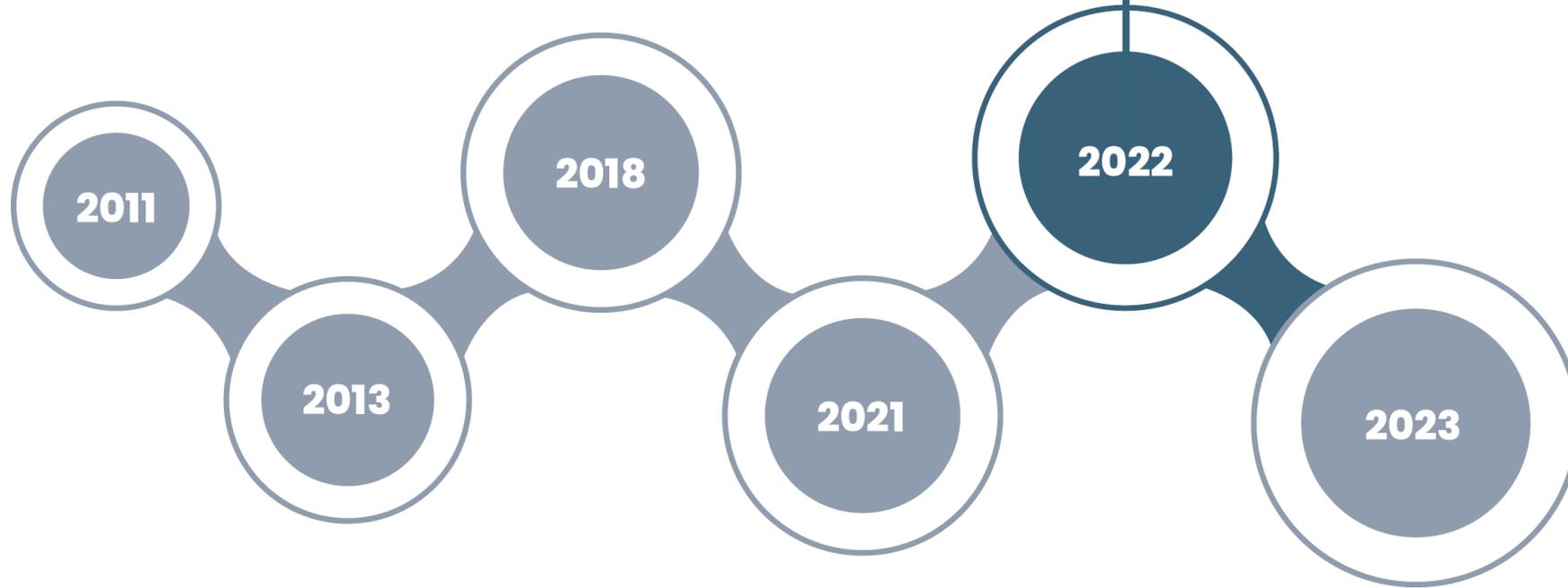
- Texas Transportation Institute Pavement Evaluation
- PCI rating improved to 62 – “Fair”

RUNWAY 17/35 HISTORICAL TIMELINE

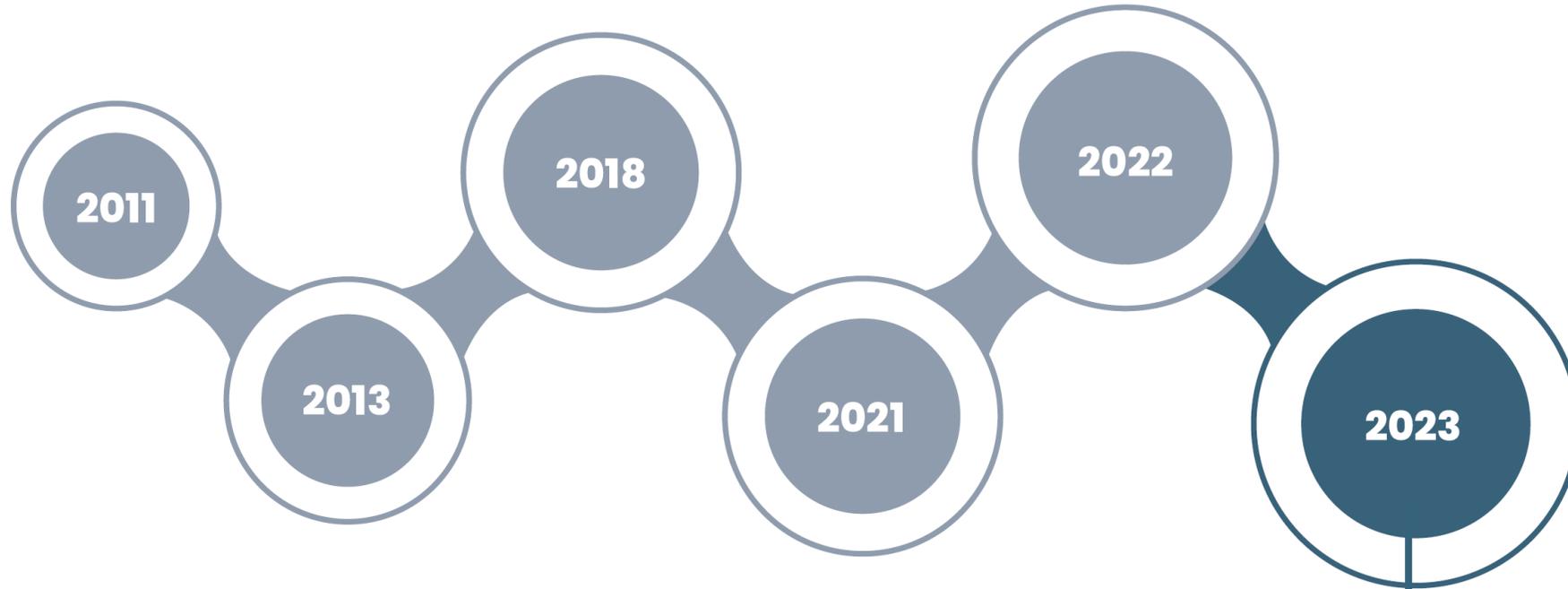


- KSA Updated Pavement Evaluation
- PCI had fallen to 48-56 “Poor”.
- Continued deterioration expected due to increased traffic and loading.
- More aggressive and comprehensive project recommended

RUNWAY 17/35 HISTORICAL TIMELINE



RUNWAY 17/35 HISTORICAL TIMELINE



- Consultant Procured for Civil Engineering Design
- Stakeholder Involvement Plan Initiated

WHAT'S THE PLAN?

Improve Runway 17/35

Rehabilitate pavement to meet needs of current and future aircraft fleet mix & operations.

Minimize Impacts

Minimize impacts construction has on airport tenant/user airport operations. (Current and future)



- 8,000' x 100' Concrete
- 162 Based AC (39 Jets)
- 80K Operations (40K Itinerate)

Total Impacts

Total Impacts

692 JOBS

\$32.5 MILLION PAYROLL

\$93 MILLION OUTPUT

RUNWAY IMPROVEMENT OPTIONS

| | TIME | AFFORDABILITY | MINIMIZE OPERATIONAL IMPACTS | EXISTING PAVEMENT CONDITION | NO ENABLING PROJECTS REQUIRED |
|--------------------|------|---------------|------------------------------|-----------------------------|-------------------------------|
| Reconstruction | ✗ | ✓ | ✗ | ✓ | ✓ |
| Asphalt Overlay | ✓ | ✓ | ✓ | ✗ | ✓ |
| Bonded Overlay | ✓ | ✓ | ✗ | ✗ | ✓ |
| Unbonded Overlay | ✓ | ✓ | ✗ | ✗ | ✓ |
| Rubblization | ✓ | ✓ | ✓ | ✓ | ✓ |
| TWA Temporary RW | ✗ | ✗ | ✓ | ✓ | ✗ |
| West Side NS TW/RW | ✗ | ✗ | ✓ | ✓ | ✗ |

RUBBLIZATION

Rubblization is the process of fracturing an existing Portland cement concrete pavement (PCCP) into small, interconnected pieces that serve as a base course for a new hot mix asphalt (HMA) overlay.



FAA Specification P-215

Tentative Project Schedule

1. Tenant Involvement (**Fall 2023 – Spring 2024**)
2. Preliminary Design (**2024**)
 - Reevaluate threshold placement established in recent Master Plan Update
 - Drainage Assessment and Environmental Documentation
3. Final Design and Phasing (**late 2024**)
 - Grant Funding Identification
4. Bidding (**2025**)
 - Contingent on Grant Funding
5. Phase I Construction (**2026**)
 - Rubblization Test Area
6. Phase II Construction (**2027**)
 - Establish new approaches for Runway 17-35

Gather User Input

Gain a better understanding of the operational needs of business owners and operators at SGR through robust stakeholder involvement plan

Planned Tenant Coordination

1. **Workshop #1** - Listening Session and Information Sharing
2. **Workshop #2** - Phasing Workshop/Charette
3. **Workshop #3** – Schedule, Phasing Plans, etc.

Additional Resources:

- Survey #1 (Initial data gathering)
- Principal User Interviews
- Project Website
- Survey #2 (detailed user input)



RUNWAYUPDATE.COM

Welcome to Sugar Land Regional Airport: Project & Construction Updates

Sugar Land Regional Airport is dedicated to enhancing business operations through world-class services, airfield improvements, and a continuous commitment to clientele. This initiative has led Sugar Land Regional Airport to be the fourth largest airport in the greater Houston area, and the foremost general reliever airport in the southwest sector. As Sugar Land Regional Airport makes enhancements, project and construction updates will be provided on runwayupdate.com.

A stone pillar with a sign that reads "SUGAR LAND REGIONAL AIRPORT". The pillar is part of a larger structure with a flat roof and decorative brackets. There are trees in the background.

SUGAR LAND REGIONAL AIRPORT

WE NEED YOUR INPUT

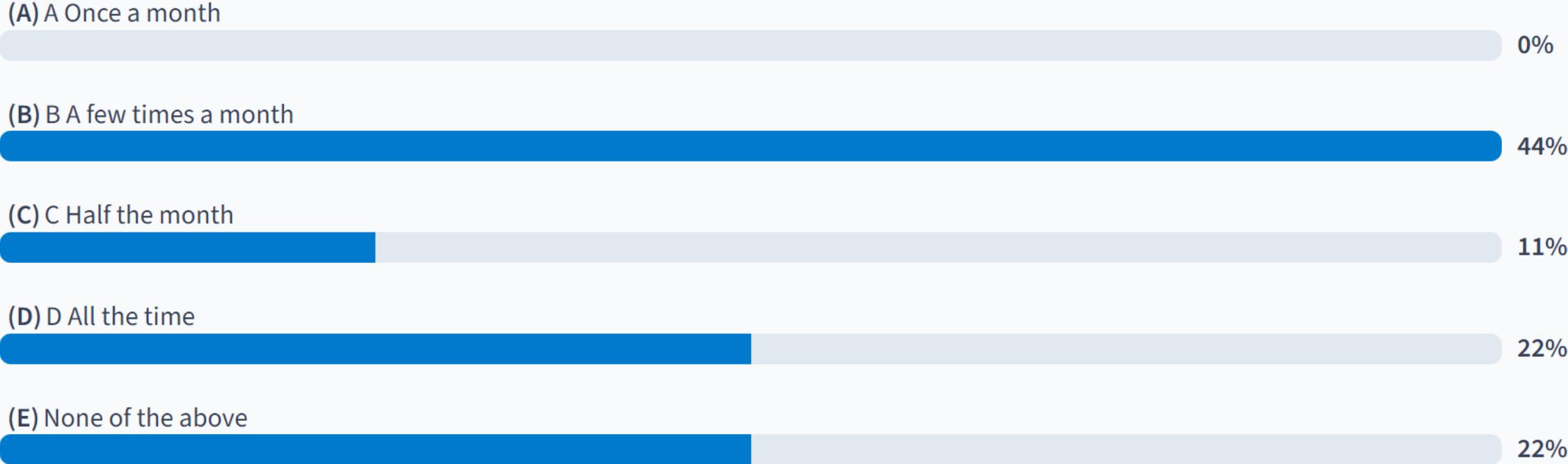


🗨️ When poll is active, respond at **Pollev.com/ksau431**

📱 Text **KSAU431** to **22333** once to join



How many times per month do you fly at Sugar Land Regional?

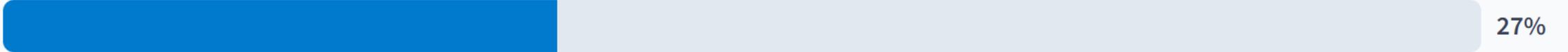


Have you been through a construction project at Sugar Land Regional Airport in the past?

(A) Yes



(B) No



In a word, how do you feel about the upcoming Runway Project?

A word cloud of responses to the question. The words are arranged in a cluster, with 'concerned' and 'necessary' being the largest and most prominent. Other words include 'disruptive', 'positive', 'progress', 'apprehensive', 'long-game', and 'optimistic'. The colors of the words vary, including shades of green, blue, and brown.

disruptive positive
progress apprehensive long-game
concerned
necessary
optimistic

What is your top concern with the Runway Project?

A Impact to Operations



C Schedule



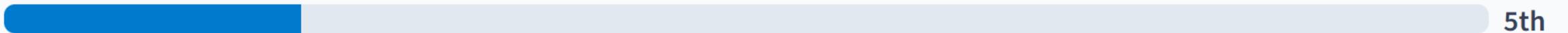
B Runway Condition



D Cost



E Other



Q & A

Thank you!

KSA

