

Design Life: 100-years Sounds Good!

An Overview of Design and Service Life

2019 NCTCOG Public Works Roundup

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**Lockwood, Andrews
& Newnam, Inc.**

A LEO A DALY COMPANY

Mathew Busby, PE

10+

Years of Experience

- Background in procurement, design, and construction
- Worked with a wide range of municipalities and public agencies throughout Texas



Definitions



Design Life

Period of time during which the system is expected by its designers to operate *within its specified parameters*

Service Life

Time during which a product, process, or service *actually* performs within its specified parameters

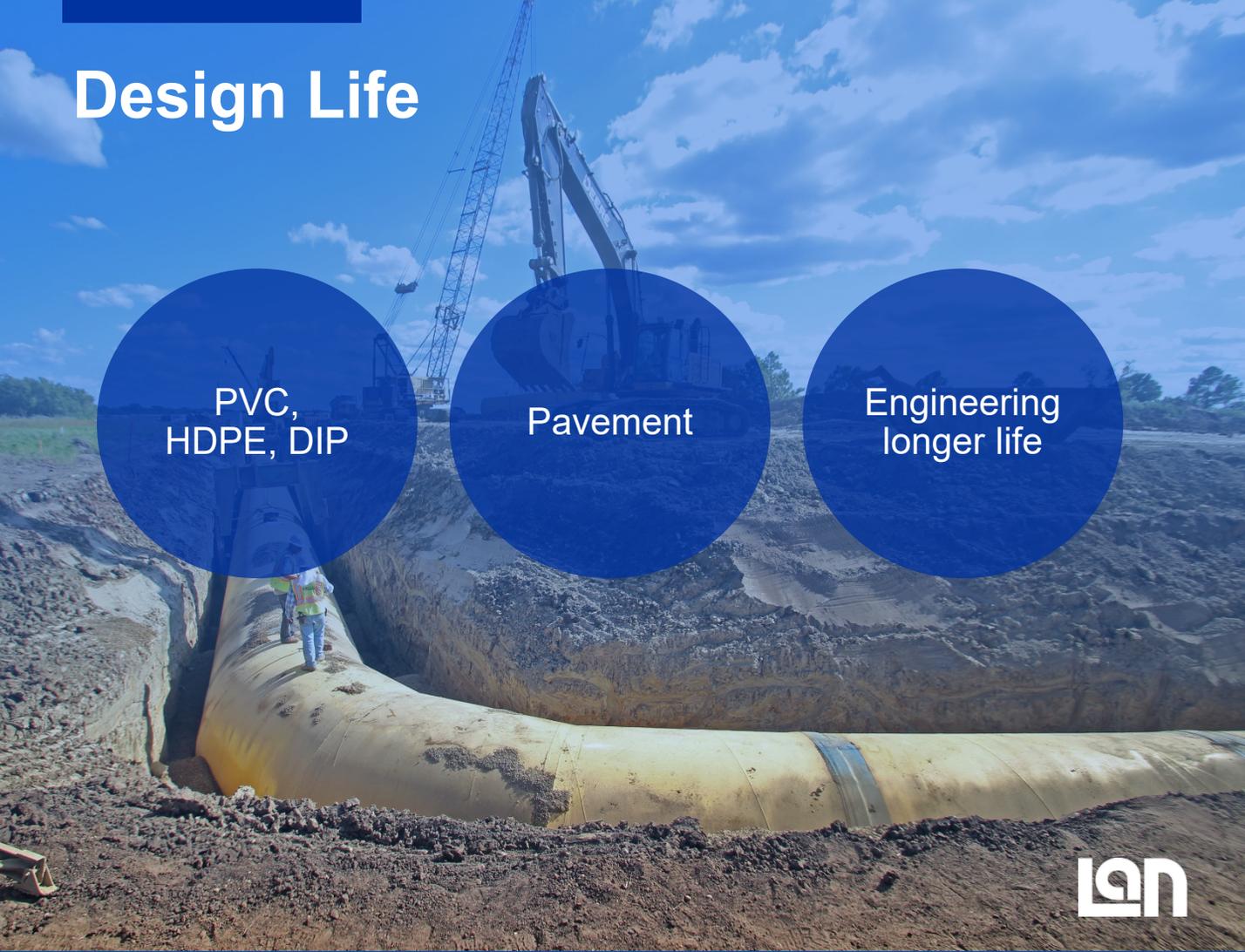
Pipe Associations

Unibell, PPI, DIPRA, ACPA

American Association of State Highway Transportation Officials (AASHTO)

Pavement Design Guide

Design Life



PVC,
HDPE, DIP

Pavement

Engineering
longer life

Service Life

External Influences

Improvements

- Build it right!
- Maintain it!
- Fix it *before* it breaks!

Questions



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