

Problem

America's infrastructure is falling apart. The American Society of Civil Engineers has given U.S. infrastructure a grade of D+

2



Opportunity

Concrete is the most widely used building material on the planet.

<h2>600K</h2> <hr/> <p>The U.S. alone has more than 600,000 concrete bridges</p>	<h2>\$48B</h2> <hr/> <p>The US concrete industry is over \$48B annually</p>	<h2>\$8.3B</h2> <hr/> <p>Every year, \$8.3B is spent maintaining concrete infrastructure</p>
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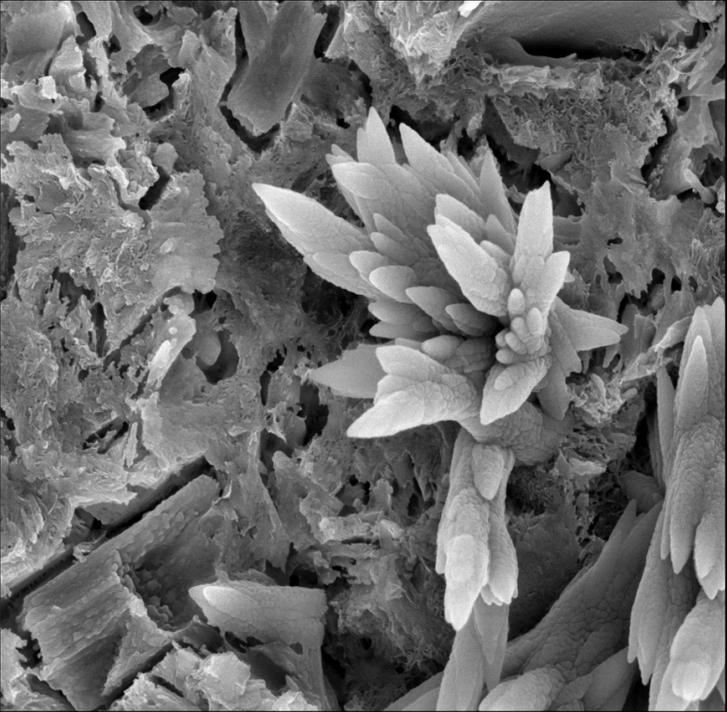
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Problem

The root cause of the decay is in concrete's molecular structure.

Concrete is essentially a hard sponge. Over time, water seeps into its pores and evaporates, forming cracks.

This issue is at the root of America's infrastructure challenges.

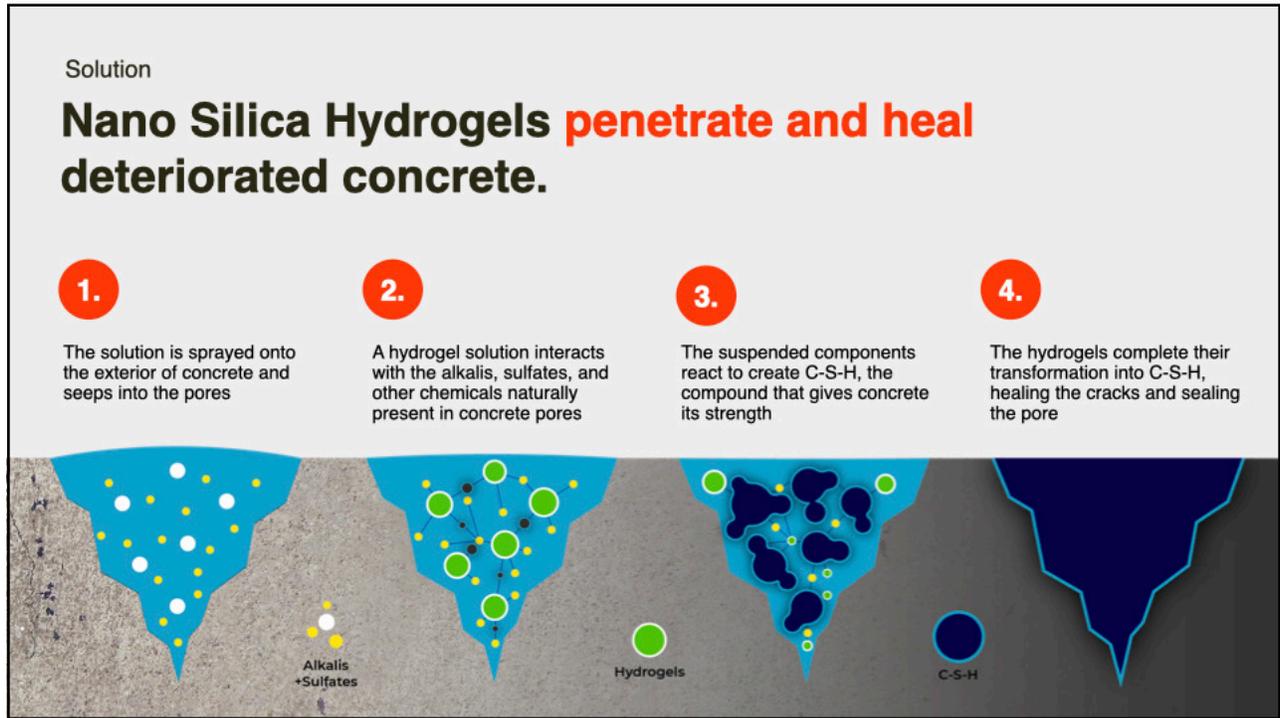


Problem

How water and contaminants break down concrete over time.

1. Concrete pores are dry and open to the elements.
2. Concrete pores fill with water + contaminants and evaporates.
3. Over time, this leads to cracks and eventual structure failure.





Kruise Tunnel_{Ft Wayne, IN}

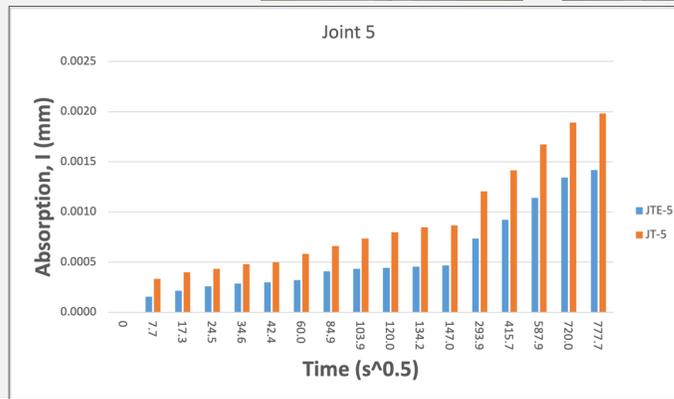
Case Study

- **Concrete Cracks**
 - Kruise Tunnel
 - Concrete Tunnel set for demolition
- **Measure the impact and capacity of the EDYSTON Hydrogel Technology to rejuvenate cracked concrete.**
- **The significance of this phenomenon was elucidated by the employment of a modified version of ASTM C 1585, Concrete Wicking.**



Results, 5-7 AFTER 4 MONTHS

Level of Deterioration	3
EDYSTON TYPE / ORDER	DENSYGEL / DURYGEL
DOSAGE (sq ft per gal)	250 / 250



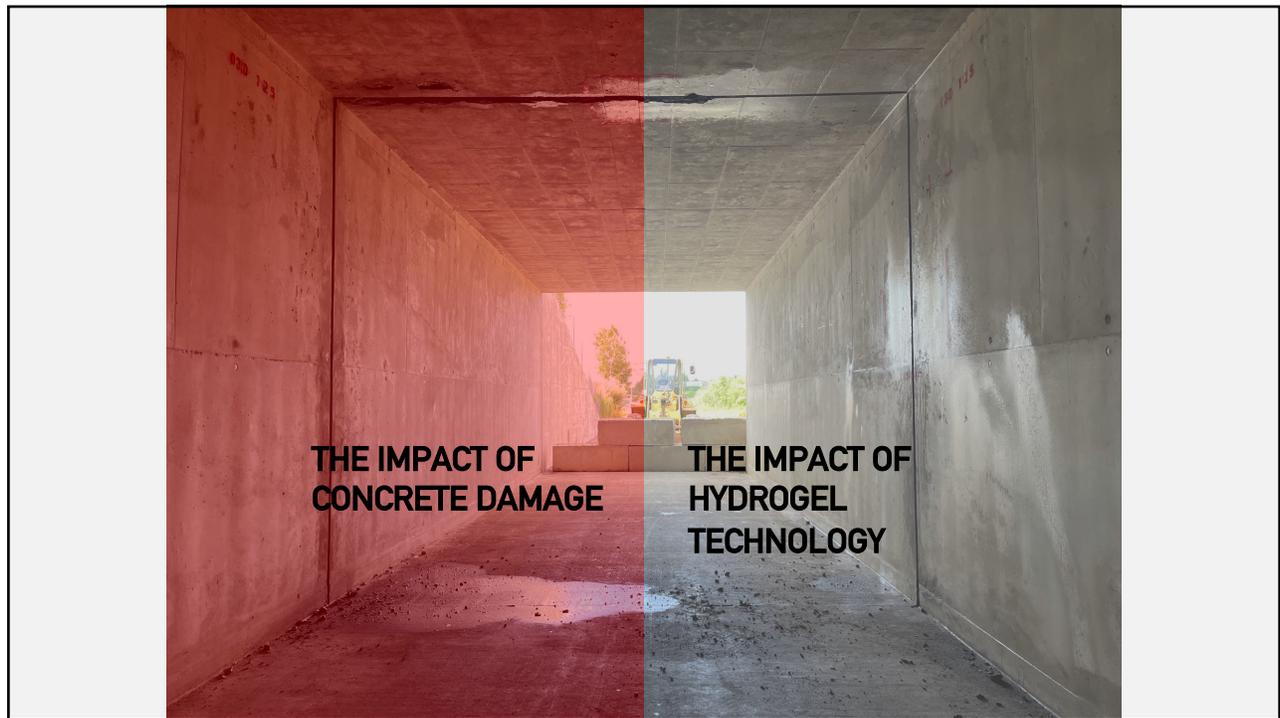
Results, AFTER 4 MONTHS

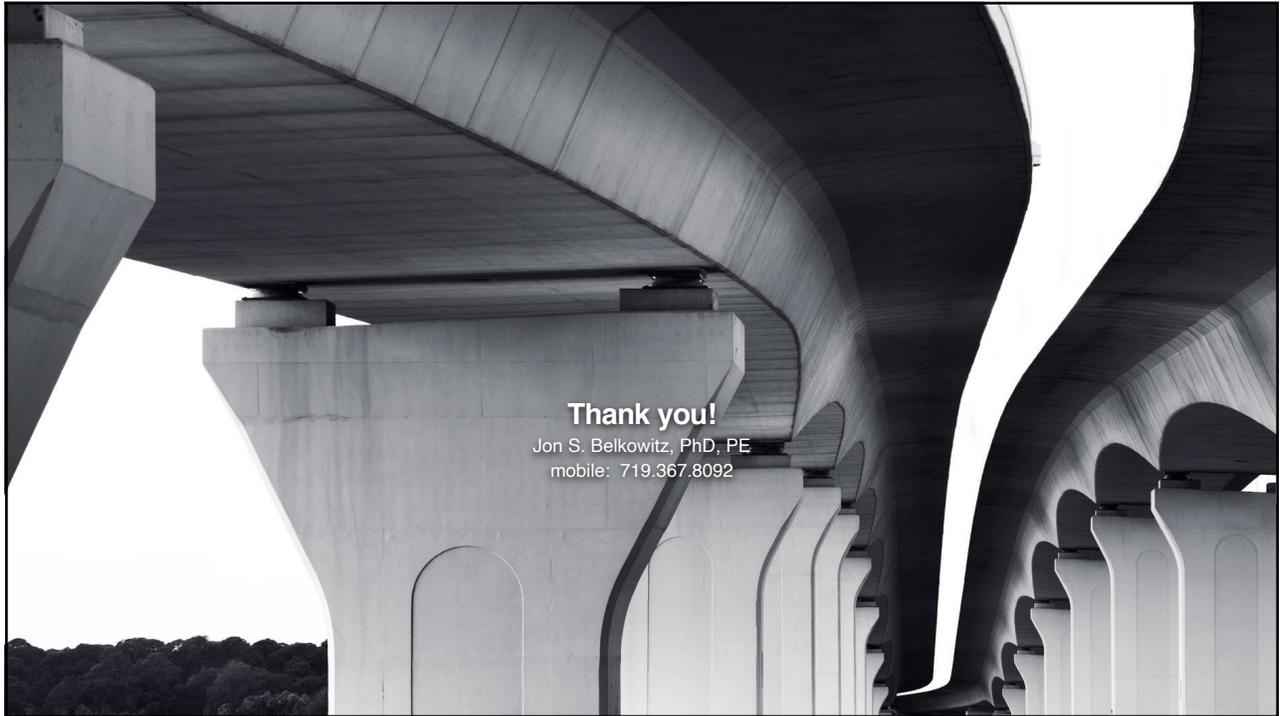


REFERENCE
CONCRETE



HYDROGEL
TECHNOLOGY





Thank you!

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