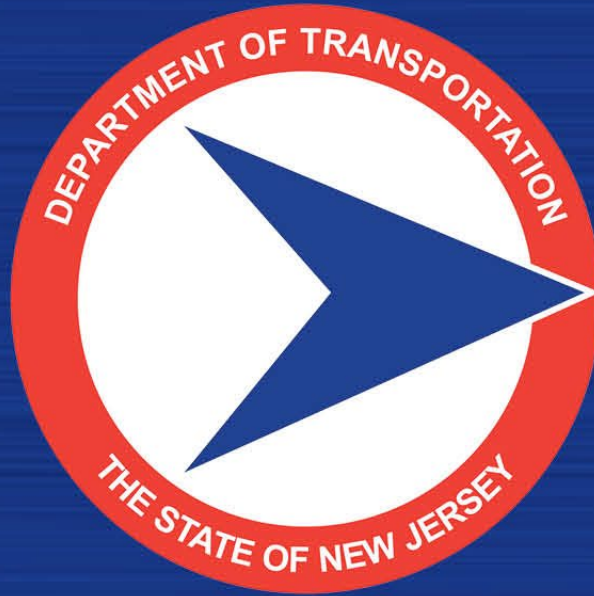
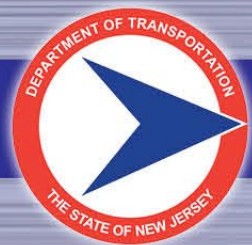


CIA Team Updates: Infrastructure Preservation

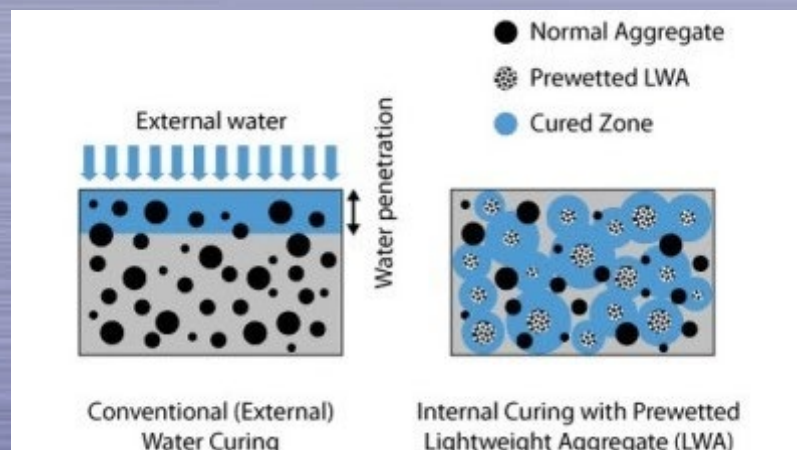


Presented by Shivani Patel, Christopher Paige
April 30, 2025

NEW JERSEY DEPARTMENT OF TRANSPORTATION



Enhancing Performance with Internally Cured Concrete (EPIC²)



Purpose:

To implement the use of internally cured concrete to reduce shrinkage cracking and achieve long-term performance in concrete bridges, roads and repairs.





Enhancing Performance with Internally Cured Concrete (EPIC²)

Status:

- RFP for centrifuge apparatus posted online

REQUEST FOR QUOTATION

Centrifuge Apparatus and Accessories

STATE OF NEW JERSEY

Honorable Philip D. Murphy, Governor
Honorable Sheila Y. Oliver, Lt. Governor

DEPARTMENT OF TRANSPORTATION

Francis K. O'Connor, Commissioner

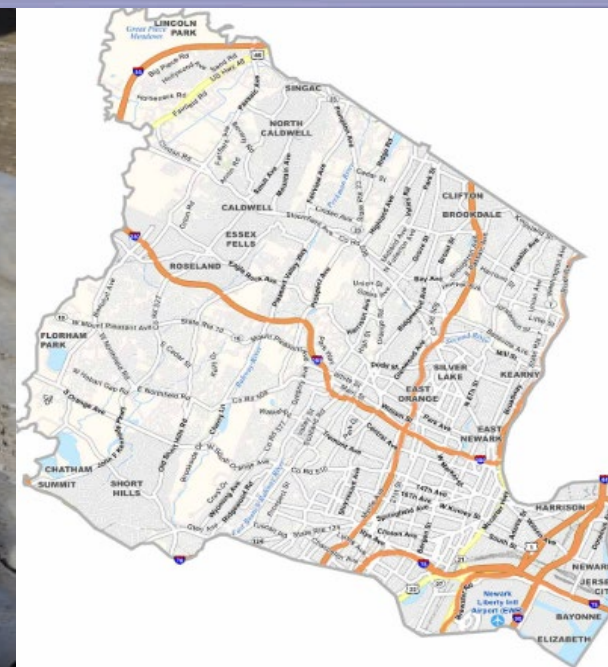




Enhancing Performance with Internally Cured Concrete (EPIC²)

Status:

- HPIC mix verification testing underway
 - North Munn Ave, Bridge over Rt. 280, City of East Orange, Essex County, NJ

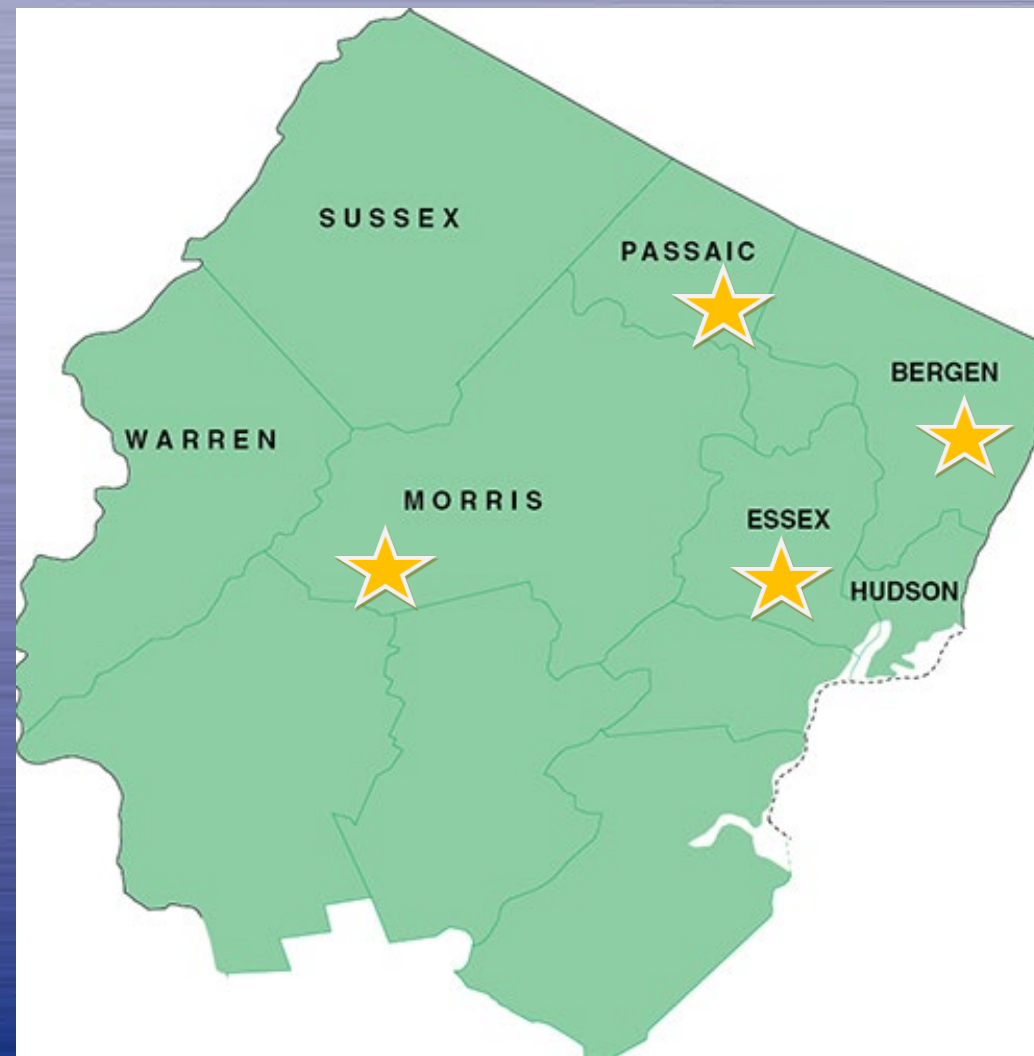




Enhancing Performance with Internally Cured Concrete (EPIC²)

Status:

- Additional projects in FD being advanced:
 - Hanover Ave (CR 650), Bridge over I-287 in Hanover Twp., Morris County
 - CR 507 (Maple Ave), Bridge over Rt. 208 in Fair Lawn Borough, Bergen County
 - 23 SB Bridge over NYS&W RR in West Milford Twp., Passaic County
 - Rt. 202, Bridge over North Branch of Raritan River
 - Rt. 124, Bridges over Passaic River
 - Prince Rodgers Ave, Bridges over Rt. 287 in Bridgewater, Somerset County



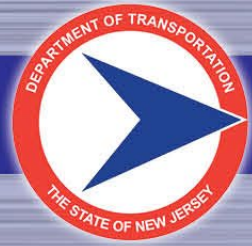


Enhancing Performance with Internally Cured Concrete (EPIC²)

Currently Working On:

- Preparing for the Final Design Submission of candidate bridges
- Scoping additional projects
- Purchasing centrifuge apparatuses and other testing equipment

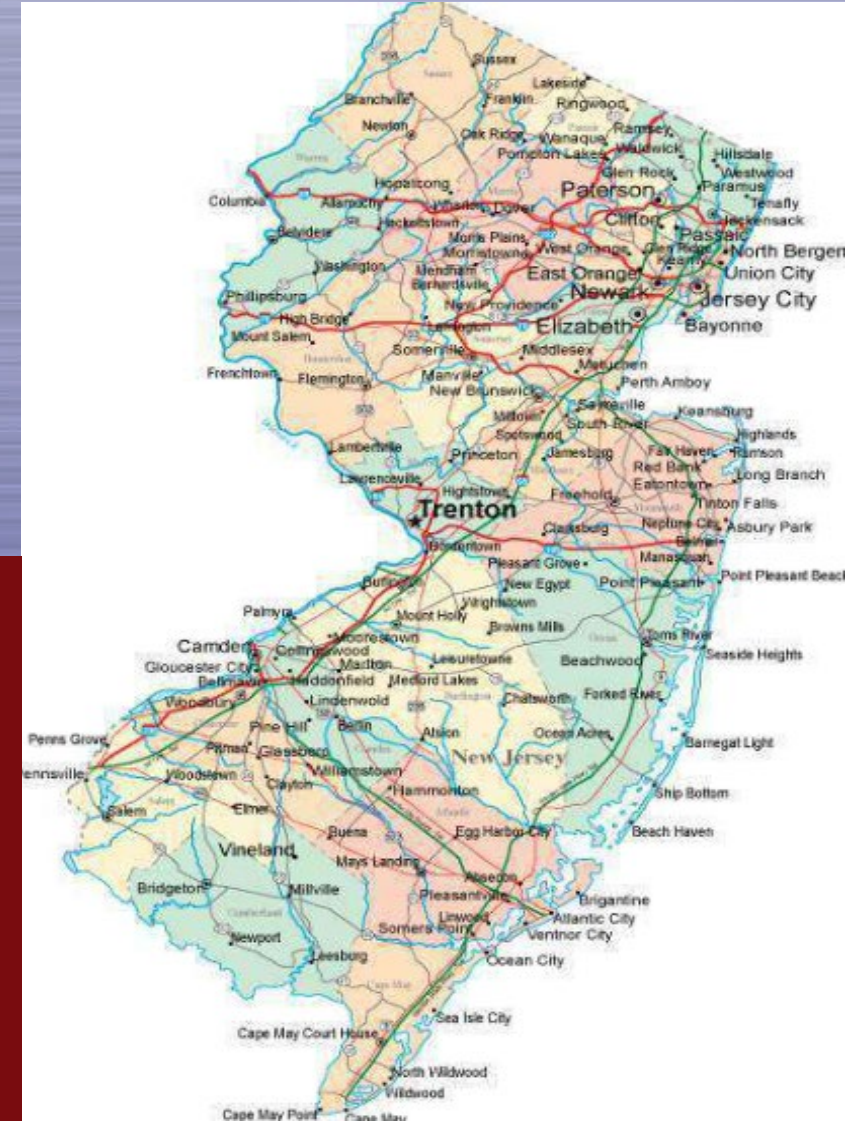




Enhancing Performance with Internally Cured Concrete (EPIC²)

Next Quarter:

- Coordinating with concrete suppliers in other regions of the state
- Updates to HPIC Specifications





Enhancing Performance with Internally Cured Concrete (EPIC²)



Updates and Coming Soon:

- EPIC² Workshop-TBD
- SME team interviewed by Alan M. Voorhees Transportation Center (VTC)
- EPIC² Webinar-NJDOT Implementation of Internal Curing

