BrM MOBILE 7.0

SNBI COLLECTOR

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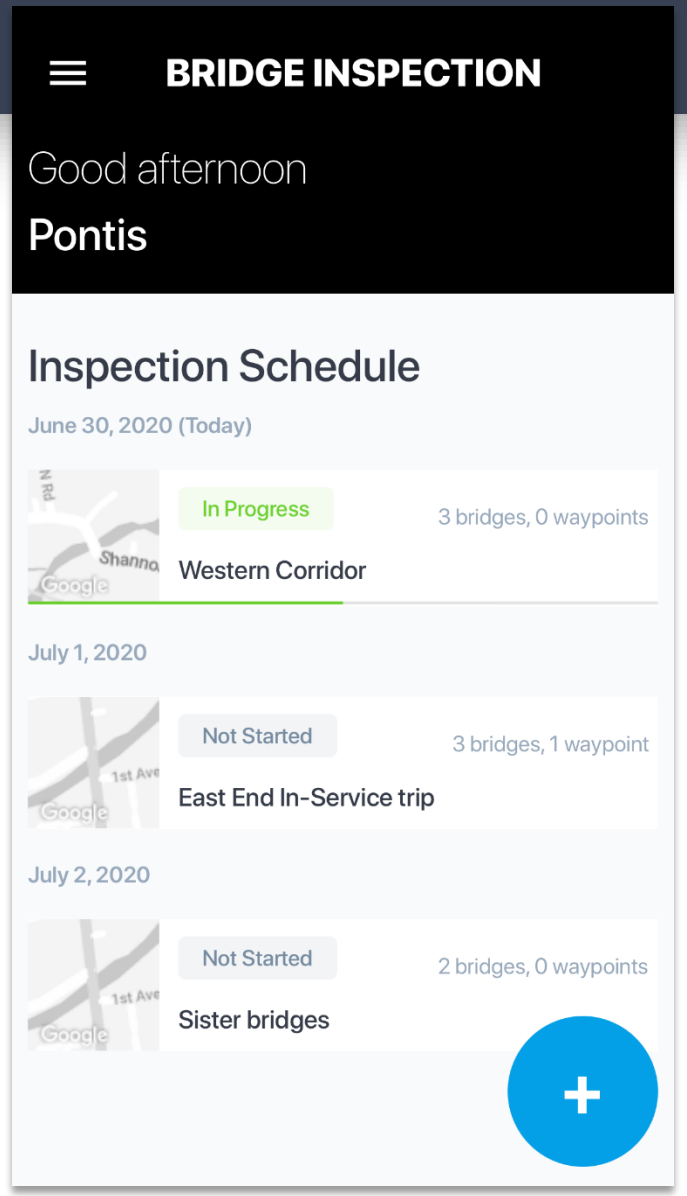
MOBILE INSPECTION (6.X)

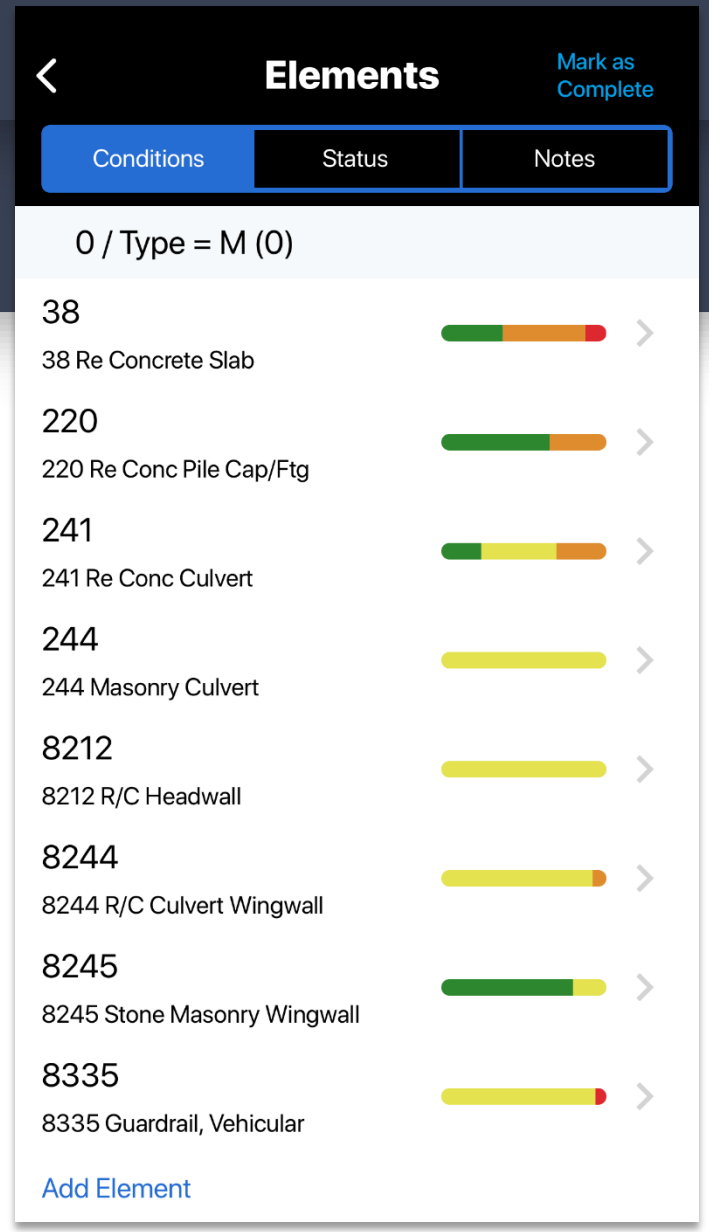
- First foray into Mobile development
- Functional on phones and tablets
- Compatible with NBIS and BrM 6.X and prior
- Customizable depending on agency requirements



MOBILE INSPECTION (6.X)

CORE FUNCTIONALITY

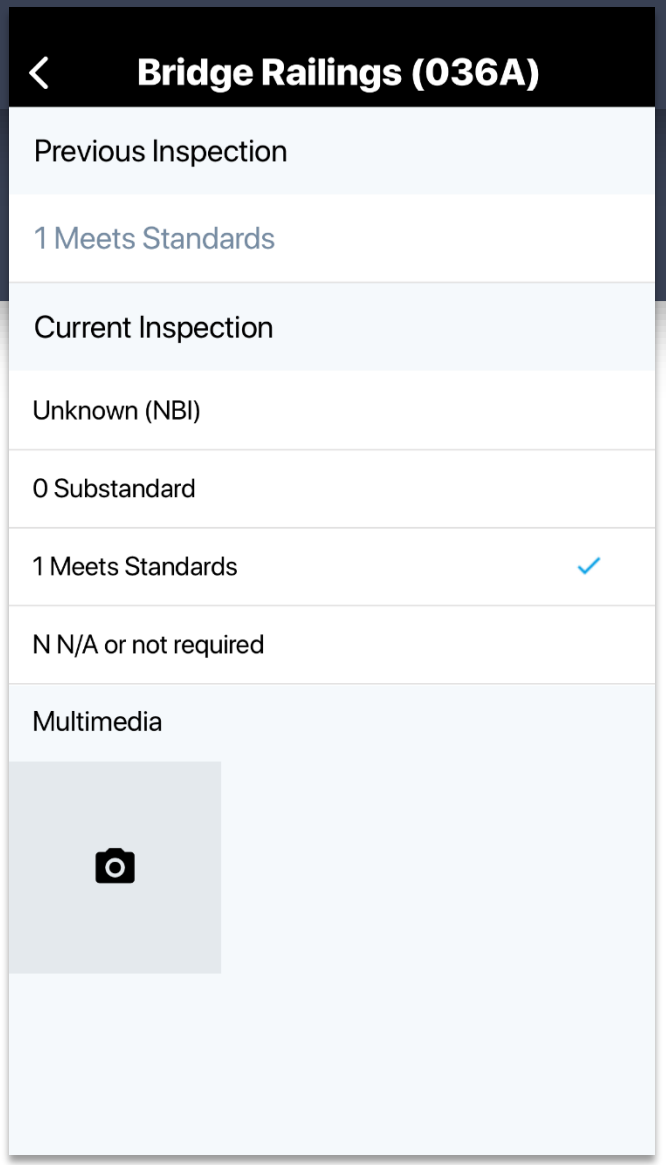
- Mobile Inspection
- Inspection Trip Mapping and Planning
- Multimedia Collection
- Offline functionality and on-demand syncing



MOBILE INSPECTION (6.X)

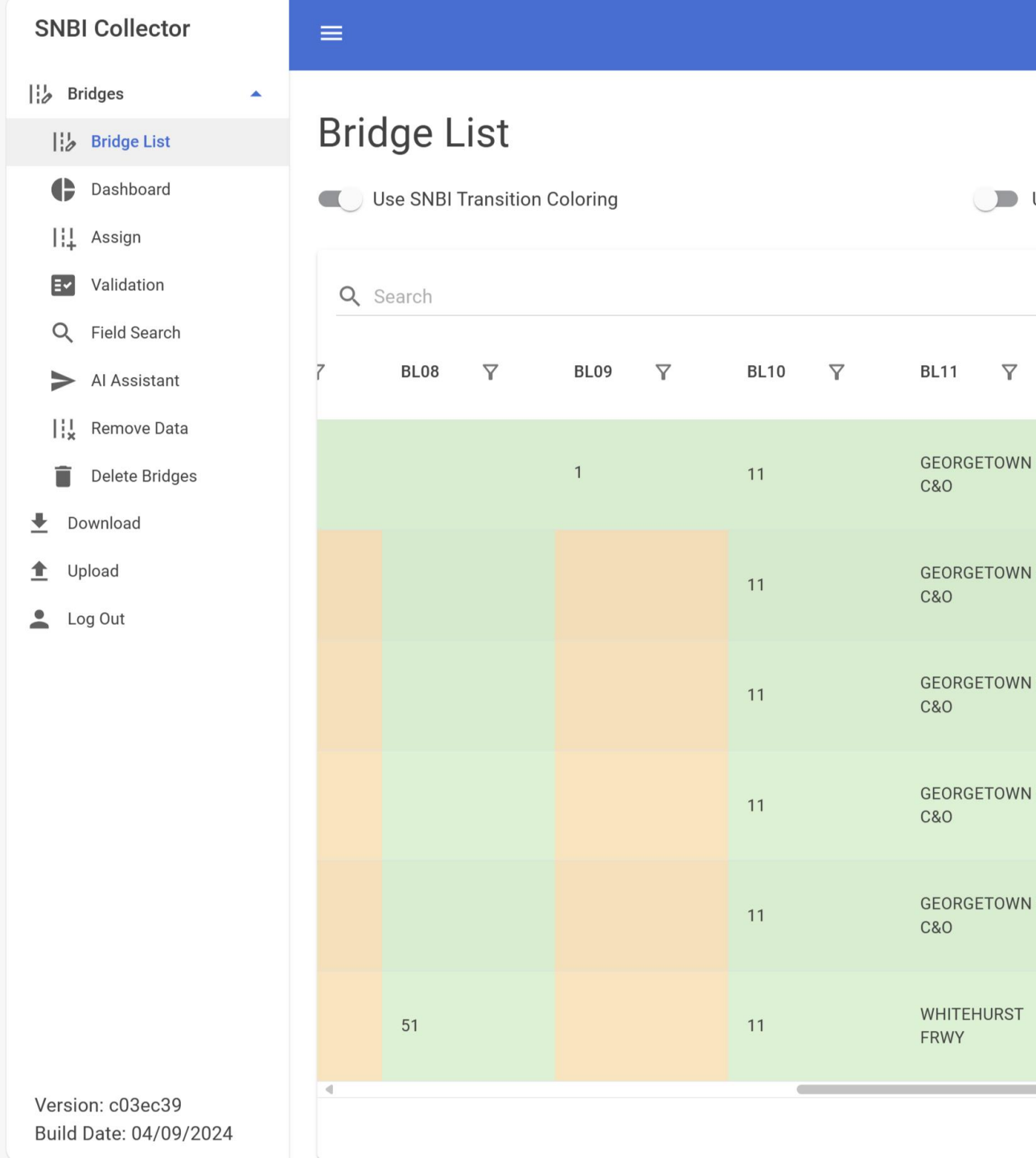
USER RESPONSE

- Per SCDOT
  - 75% reduction in multimedia collection efforts
  - 25 – 35% reduction in overall inspection times
- User recommended features include inspection assignments and scour plan–of–action module



SNBI COLLECTOR

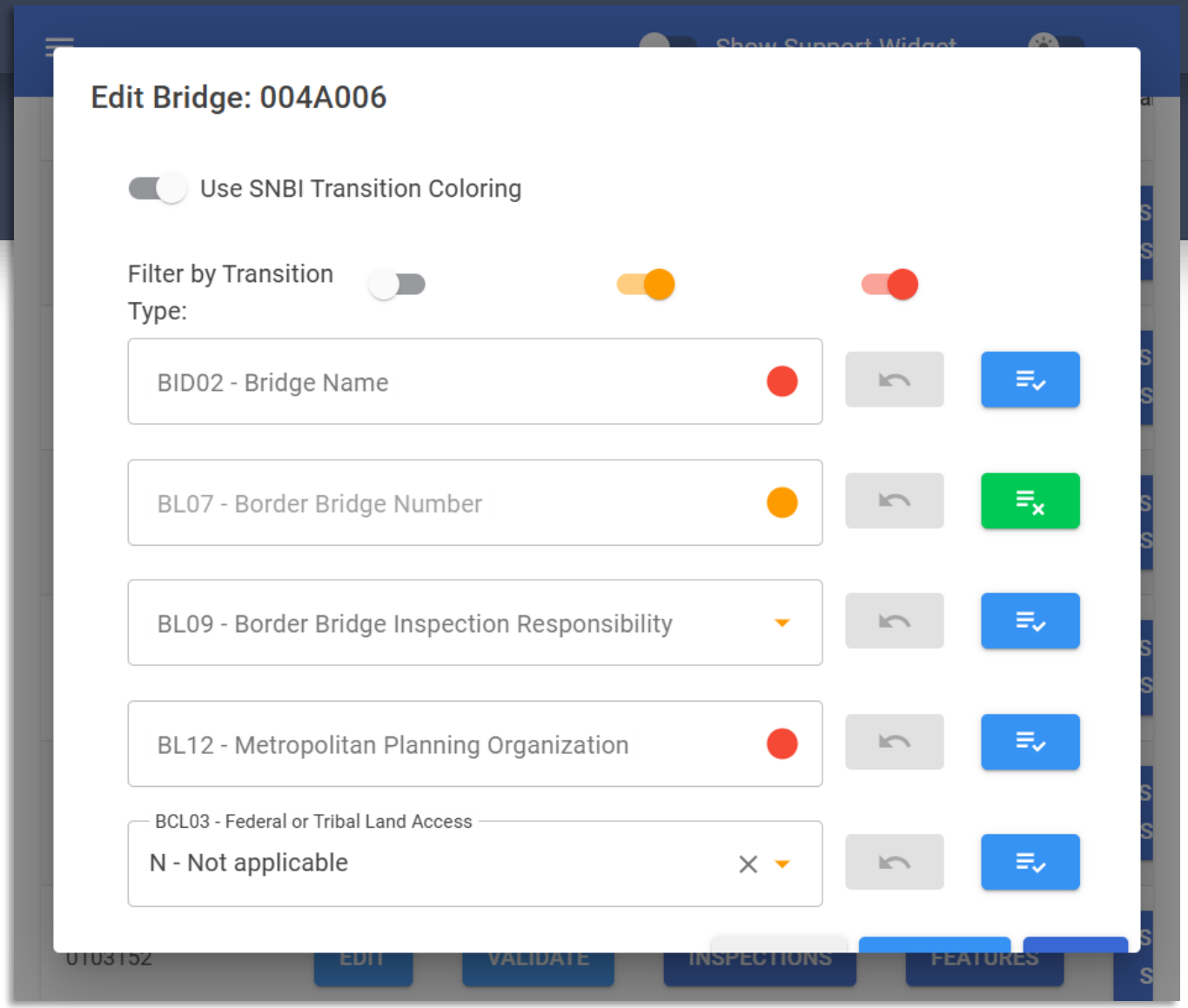
- Developed as a PWA
  - Offline functionality
  - Automatic updates
- Functional on phones, tablets, and computers
- Compatible with BrM 7.0
- Can export SNBI tape for submittal



SNBI COLLECTOR

DEVELOPMENT GOALS

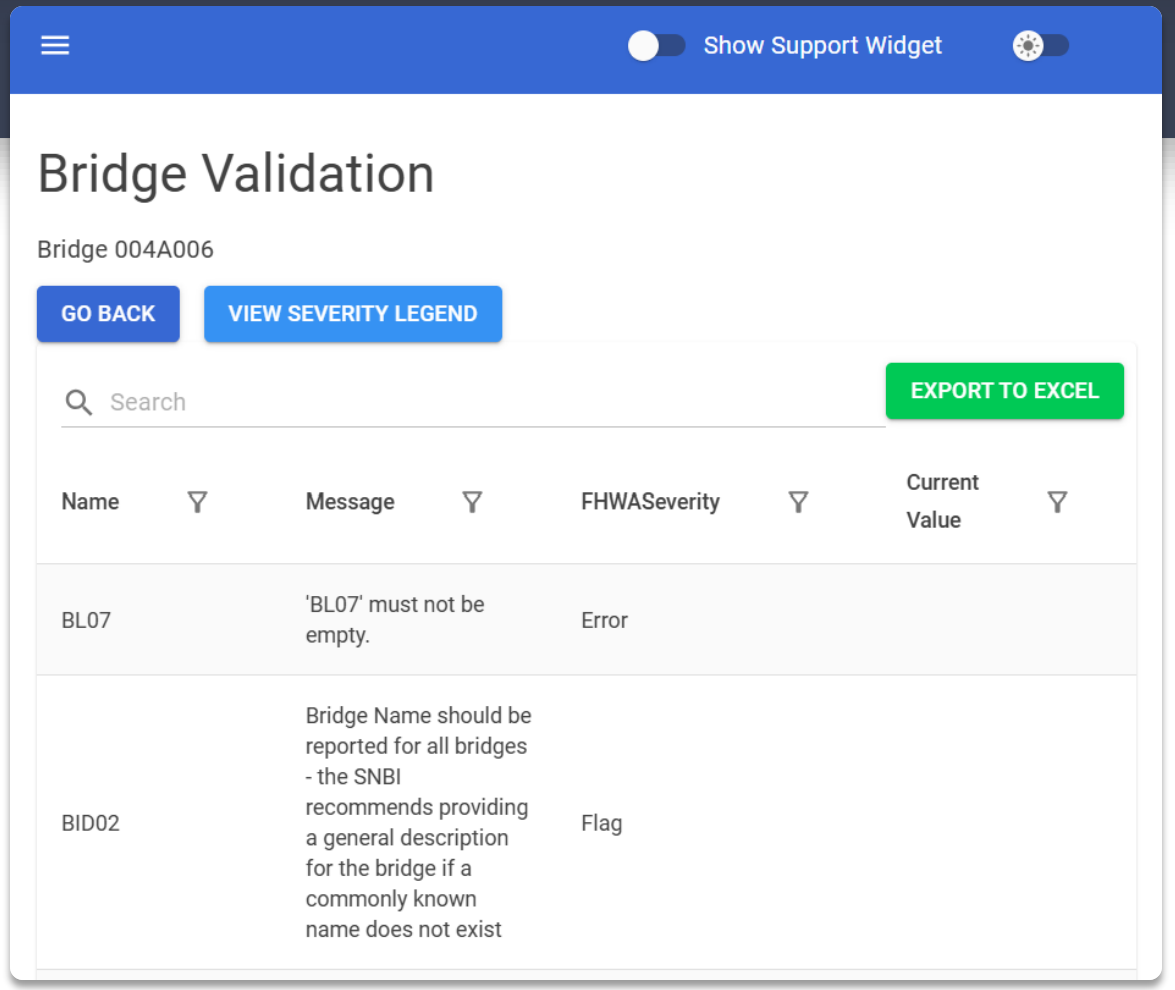
- Track transition status of individual fields
- Track transition status of data set
- Validating, organizing, and preparing data for submittal
- Highest priority: ease of use and user experience



SNBI COLLECTOR

VALIDATION

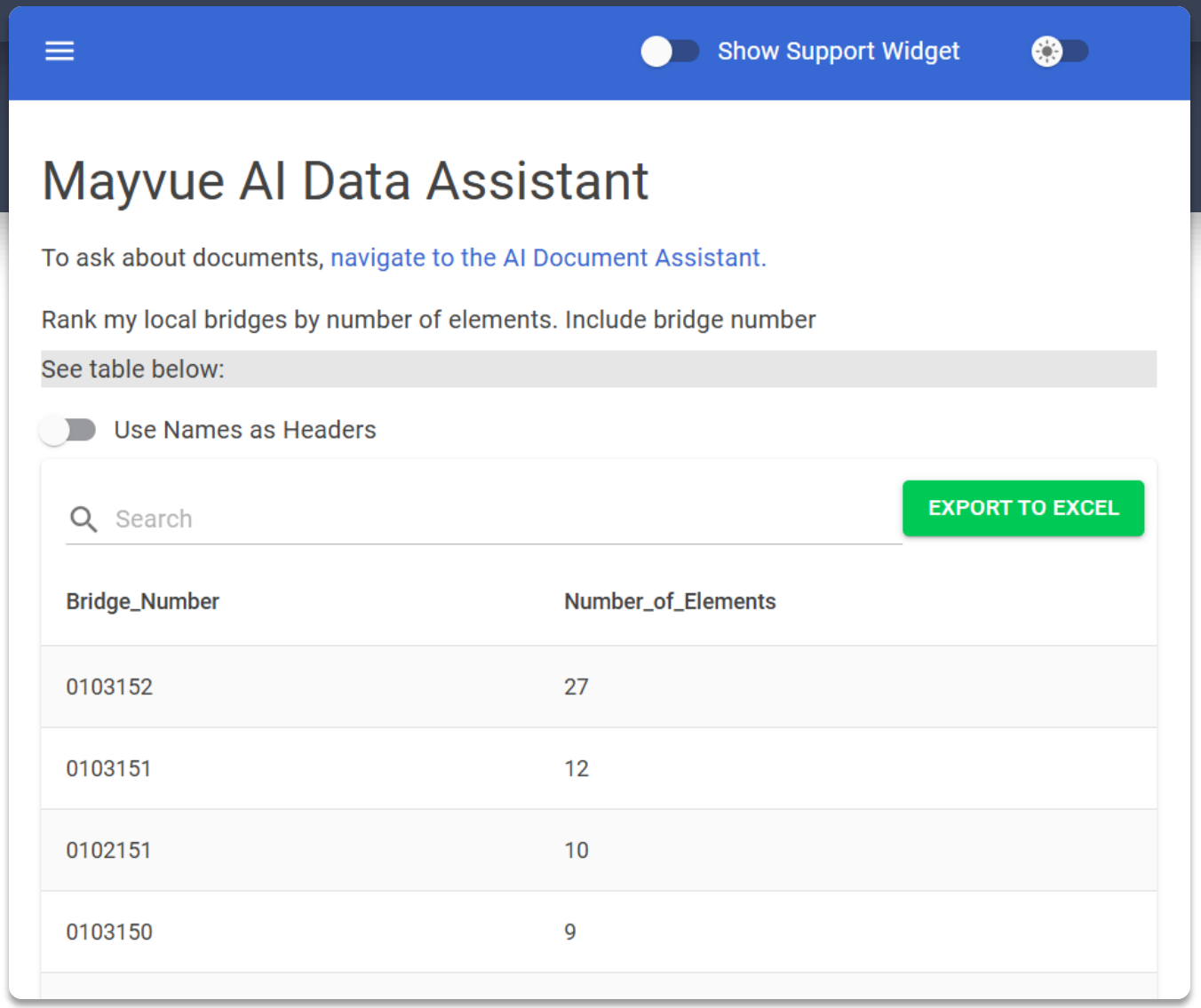
- Current with recent updates
- Applicable at a form or bridge level
- Identifies error severity
- Retroactive as well as proactive usage



SNBI COLLECTOR

ARTIFICIAL INTELLIGENCE

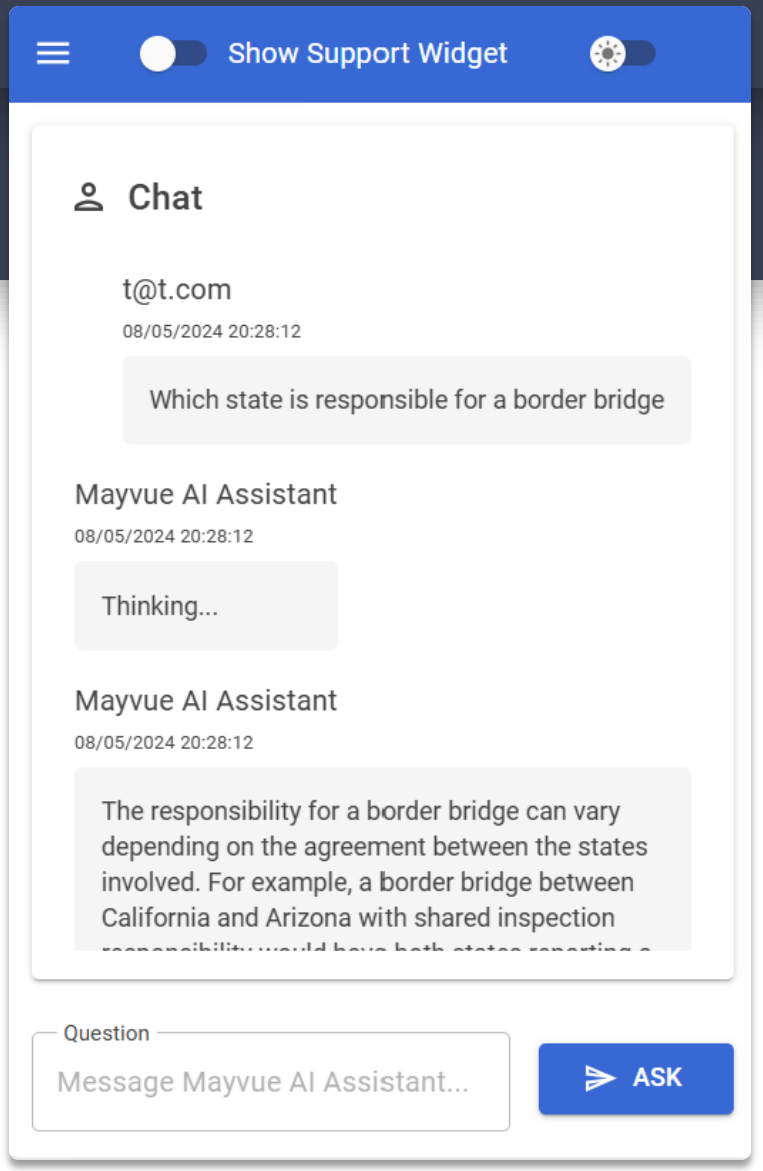
- First foray into the use of artificial intelligence
- Two AIs with distinct purposes
- Data Assistant queries local data using plain language



SNBI COLLECTOR

ARTIFICIAL INTELLIGENCE

- Document assistant answers questions on SNBI coding guide
- Also able to review uploaded documents



SNBI COLLECTOR

USER RESPONSE

- 90% in-office, 10% in the Field
- Update times as low as 11 minutes per bridge
- Heavy use of validation tool
- Minimal training requirement

SD DEPARTMENT OF TRANSPORTATION

IDAHO TRANSPORTATION DEPARTMENT

ADOT Arizona Department of Transportation

OKLAHOMA Transportation

RI dot

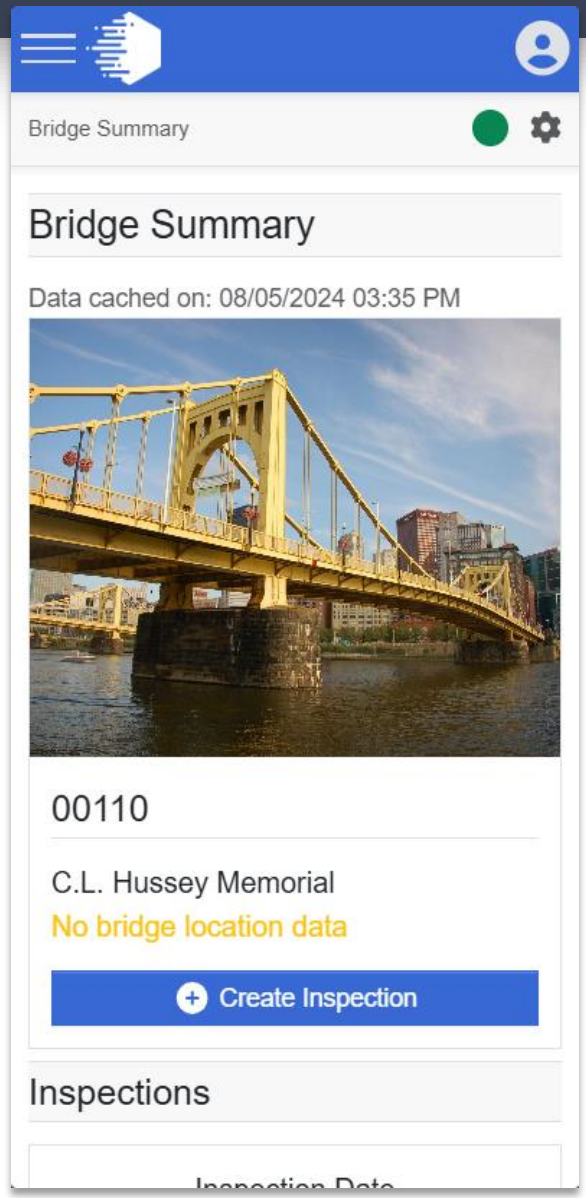
MDOT Michigan Department of Transportation

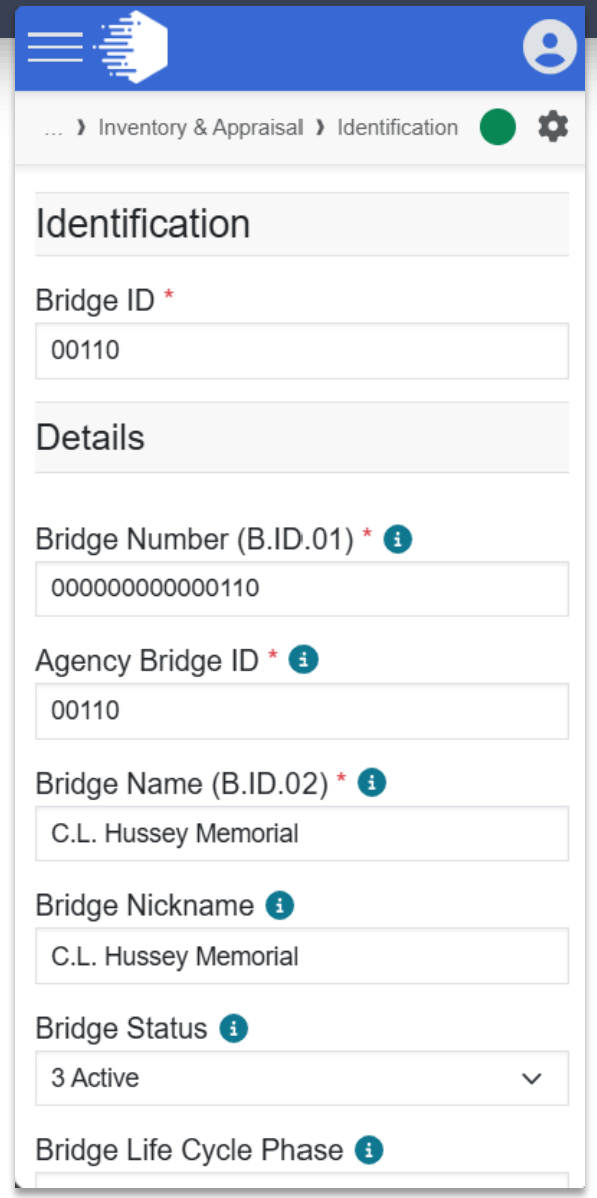
FDOT

SCDOT

MAYVUE INSPECTION PLATFORM

- Functional on Mobile, Tablet, and Desktop
- Online and Offline
- Supports multiple asset types and all inspection types
- Fully Configurable

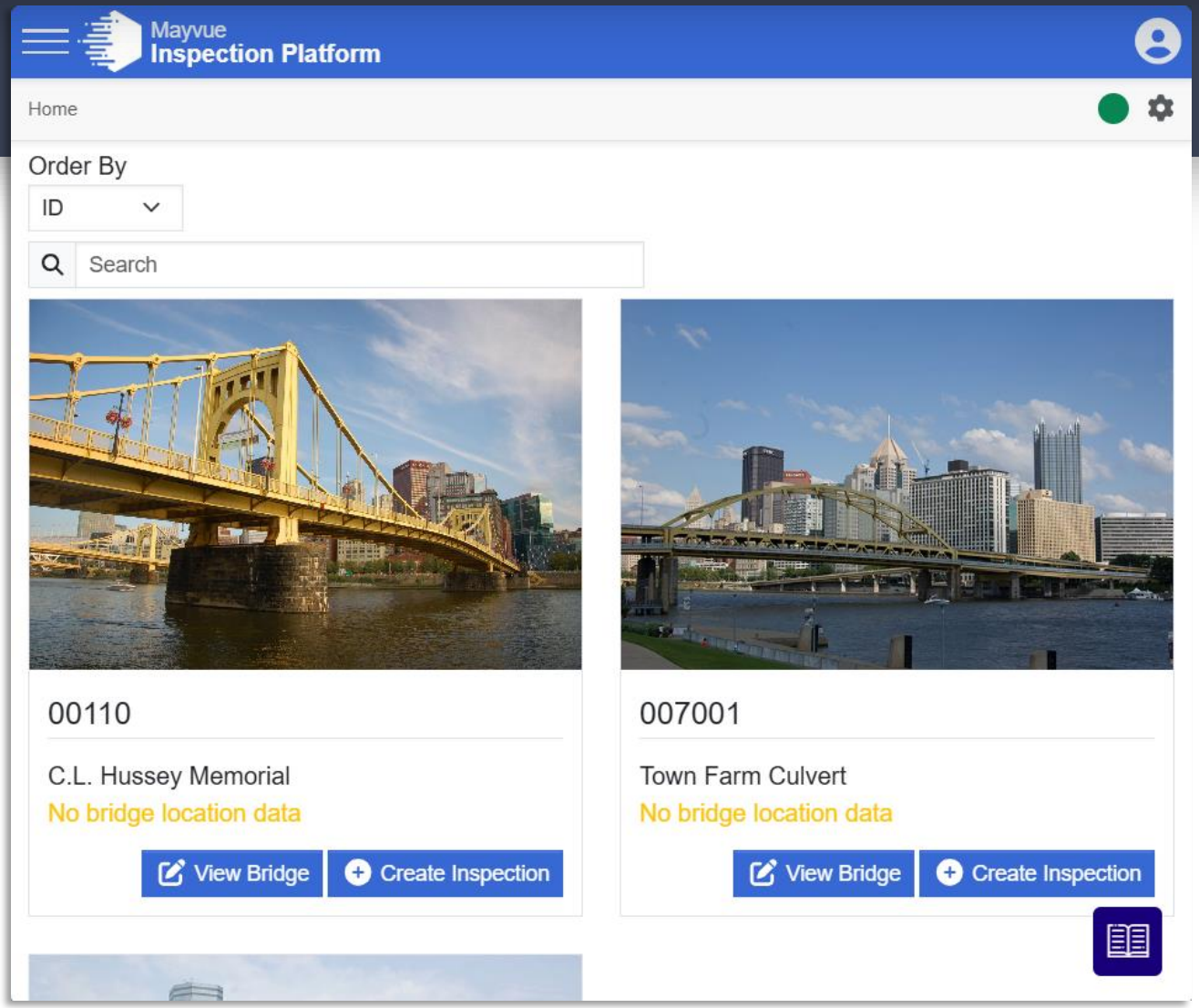




MAYVUE INSPECTION PLATFORM

USER EXPERIENCE

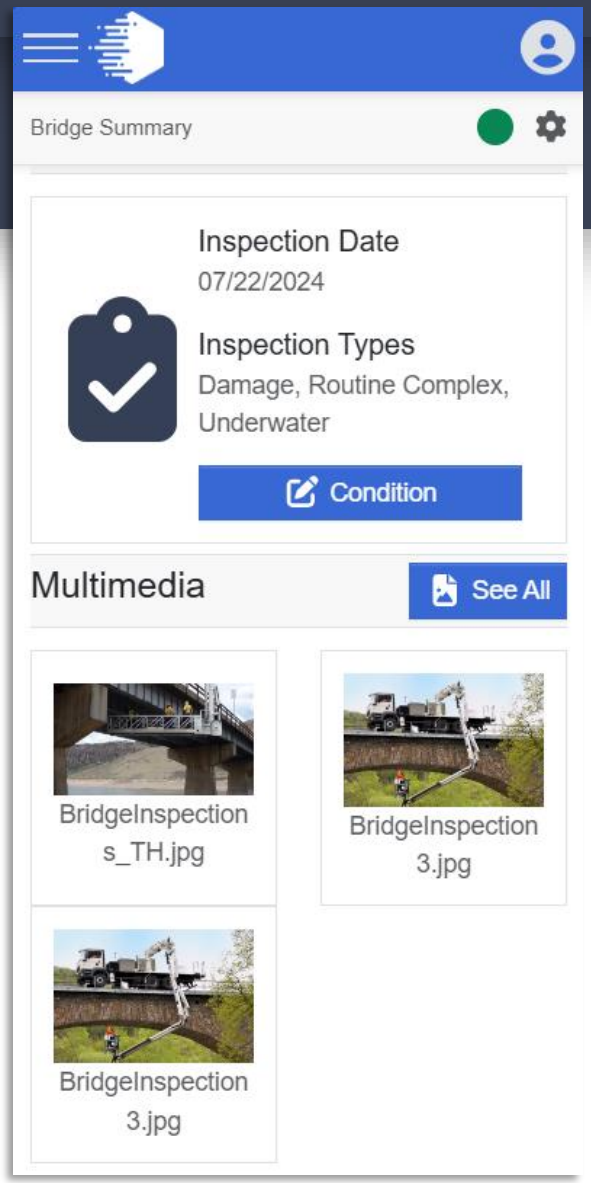
- Available bridges can be viewed via the home page
- From the Bridge Summary, inspectors can:
  - begin a new inspection
  - review prior inspections
  - upload multimedia
- Bridges can be organized by proximity using location data

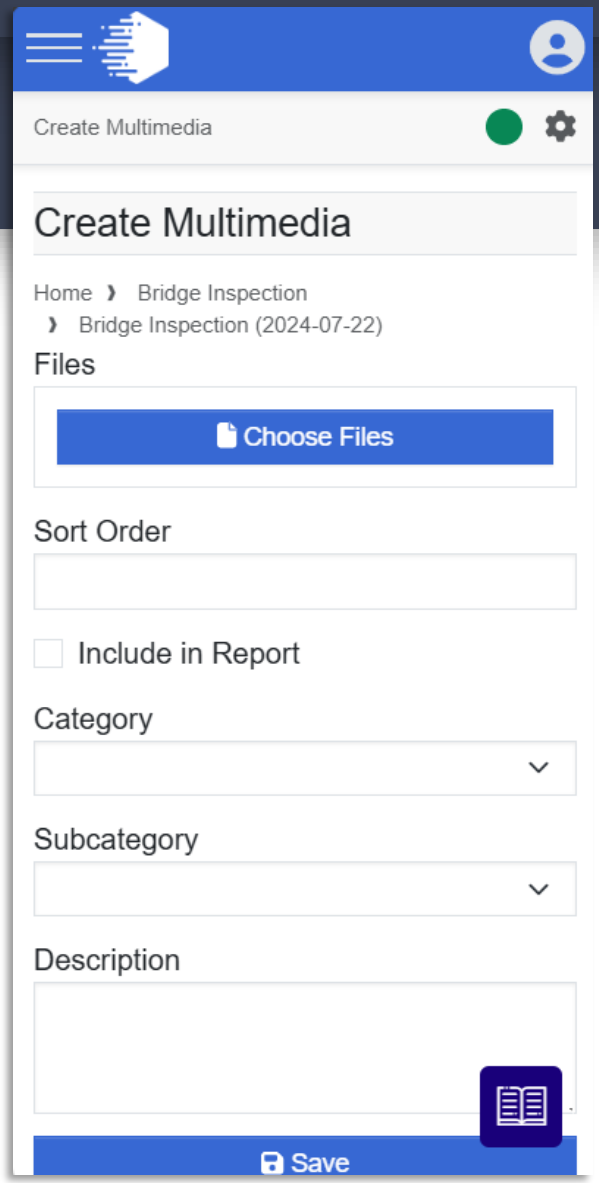


MAYVUE INSPECTION PLATFORM

MULTIMEDIA COLLECTION

- Images can be collected via the device's camera
- Multimedia can be tagged, categorized, and tied to the bridge or active inspection
- Images saved locally can be annotated in sketches or cross-sections

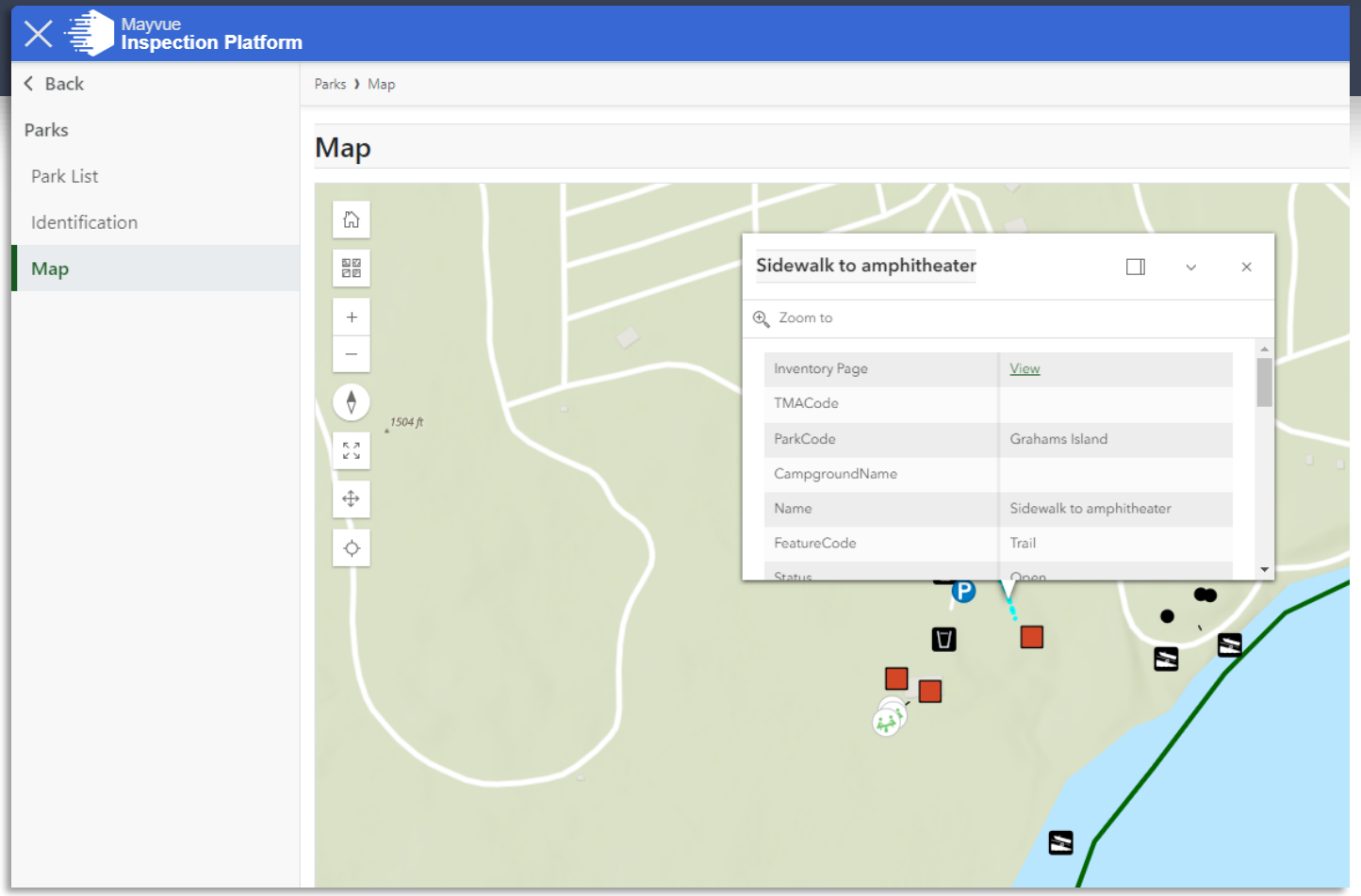




MAYVUE INSPECTION PLATFORM

MAPPING

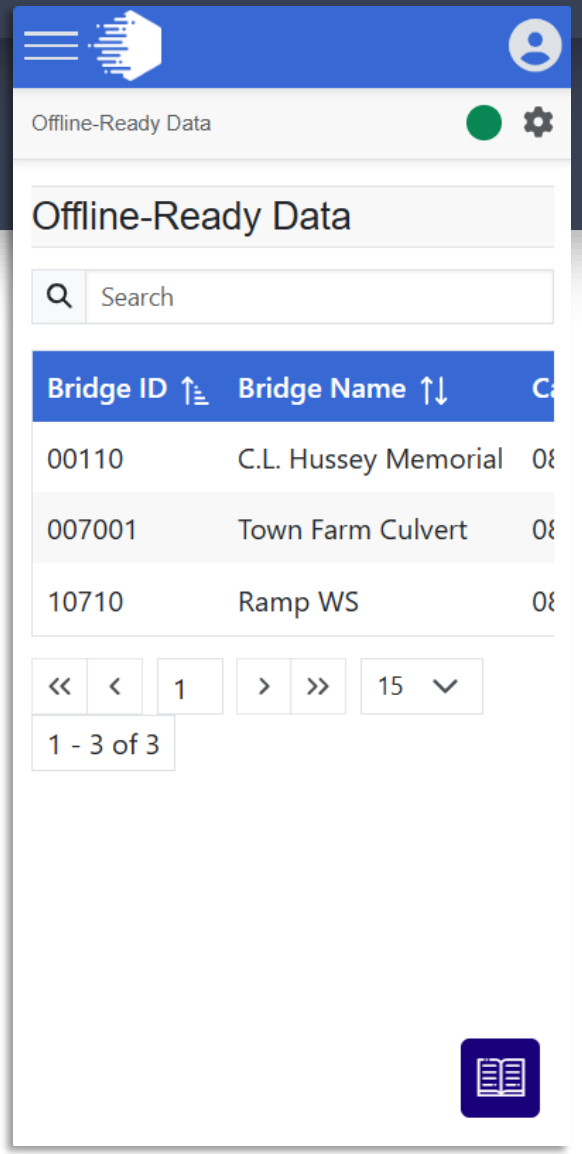
- Assets can be mapped using Google Maps or ESRI
- Assets can be stratified by layer for ease of identification
- Navigation via mapped assets for simplified workflow

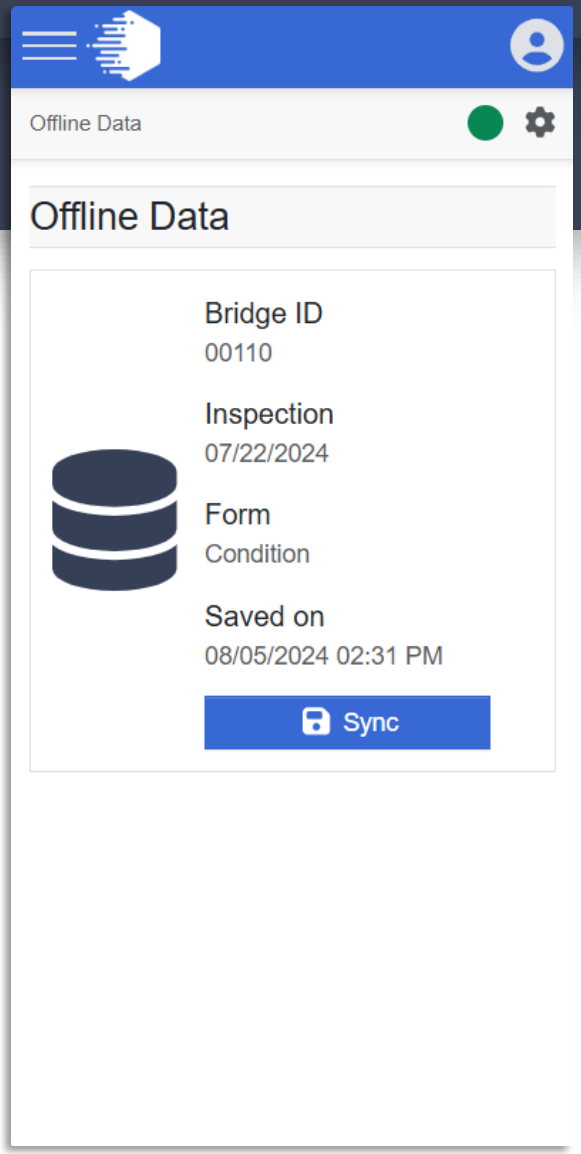


MAYVUE INSPECTION PLATFORM

OFFLINE FUNCTIONALITY

- Bridge data is automatically cached to the user's device while in service
- Cached data can be reviewed and modified as necessary
- Changes saved offline can be synced manually or automatically, depending on user preference



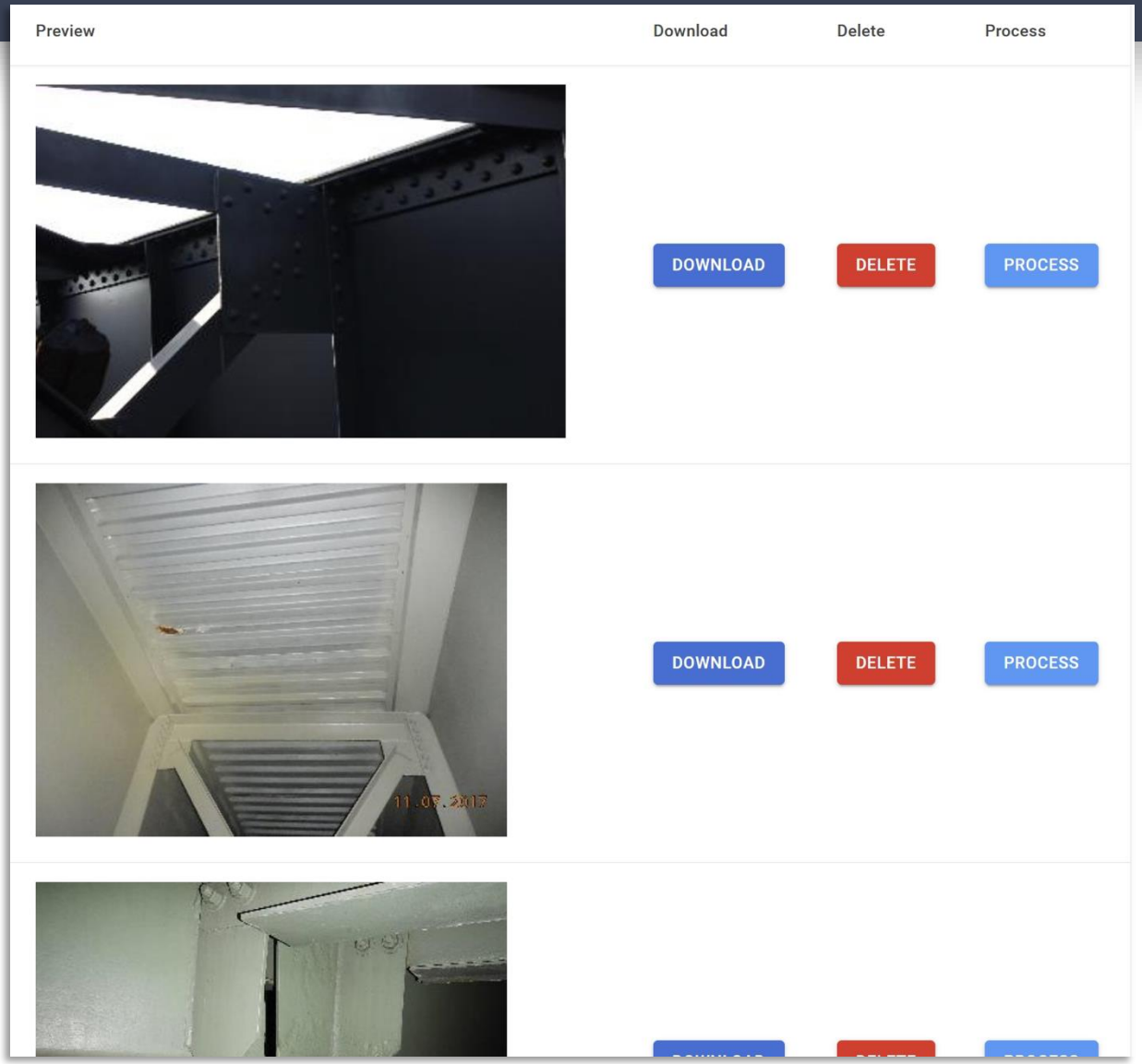


MACHINE LEARNING

- Trained on inspection multimedia supplied by multiple states
- Capable of identifying specific bridge elements
- Able to provide likely rating assignments

MACHINE LEARNING

- Potential uses include:
  - Assisting inspectors to identify elements and determine condition ratings
  - Review historical inspections for accuracy
  - Automating annotation of inspection images



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