

BrM MOBILE 7.0

SNBI COLLECTOR





IAN WEIMAN

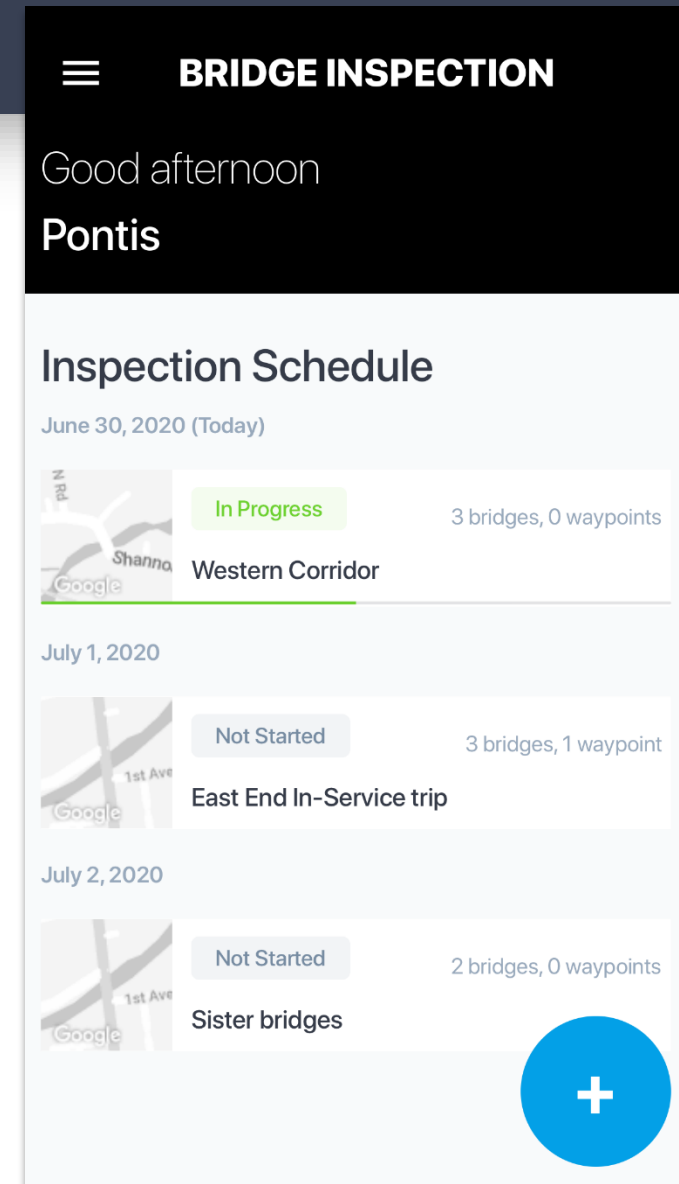
ACCOUNT SALES MANAGER

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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

The screenshot shows the 'Elements' screen in a mobile application. At the top, there is a back arrow, the title 'Elements', and a 'Mark as Complete' link. Below the title are three tabs: 'Conditions' (selected), 'Status', and 'Notes'. The main content area displays a list of elements, each with an ID, a description, a progress bar, and a right-pointing arrow. The progress bars are color-coded: green for good, yellow for fair, orange for poor, and red for critical. At the bottom, there is an 'Add Element' link.

ID	Description	Status
0	Type = M (0)	
38	38 Re Concrete Slab	Good (Green)
220	220 Re Conc Pile Cap/Ftg	Fair (Yellow)
241	241 Re Conc Culvert	Poor (Orange)
244	244 Masonry Culvert	Fair (Yellow)
8212	8212 R/C Headwall	Fair (Yellow)
8244	8244 R/C Culvert Wingwall	Fair (Yellow)
8245	8245 Stone Masonry Wingwall	Good (Green)
8335	8335 Guardrail, Vehicular	Fair (Yellow)

[Add Element](#)

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

The screenshot shows a mobile application interface for 'Bridge Railings (036A)'. The interface is organized into sections:

- Previous Inspection:** 1 Meets Standards
- Current Inspection:** Unknown (NBI)
- 0 Substandard:** 0 Substandard
- 1 Meets Standards:** 1 Meets Standards (with a blue checkmark)
- N N/A or not required:** N N/A or not required
- Multimedia:** A section with a camera icon, indicating a multimedia upload area.

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

The screenshot displays the SNBI Collector application interface. On the left is a navigation sidebar with the following menu items: Bridges (selected), Bridge List, Dashboard, Assign, Validation, Field Search, AI Assistant, Remove Data, Delete Bridges, Download, Upload, and Log Out. The main content area is titled "Bridge List" and includes a toggle for "Use SNBI Transition Coloring" (currently off) and a search bar. Below these is a table with columns for bridge identifiers (BL08, BL09, BL10, BL11) and bridge names. The table data is as follows:

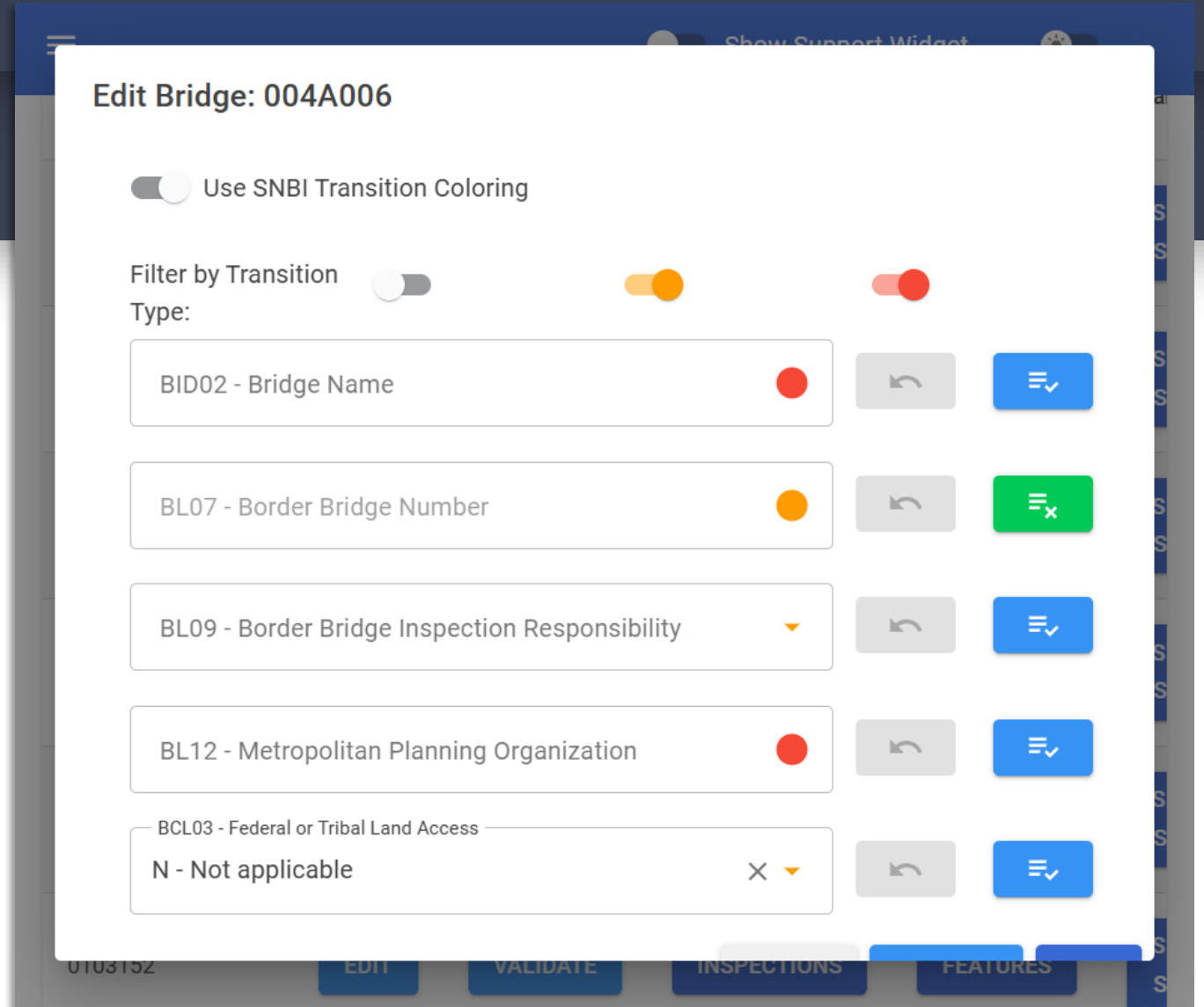
BL08	BL09	BL10	BL11	Bridge Name
	1	11		GEORGETOWN C&O
		11		GEORGETOWN C&O
		11		GEORGETOWN C&O
		11		GEORGETOWN C&O
		11		GEORGETOWN C&O
51		11		WHITEHURST FRWY

At the bottom of the interface, the version and build date are displayed: Version: c03ec39, Build Date: 04/09/2024.

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

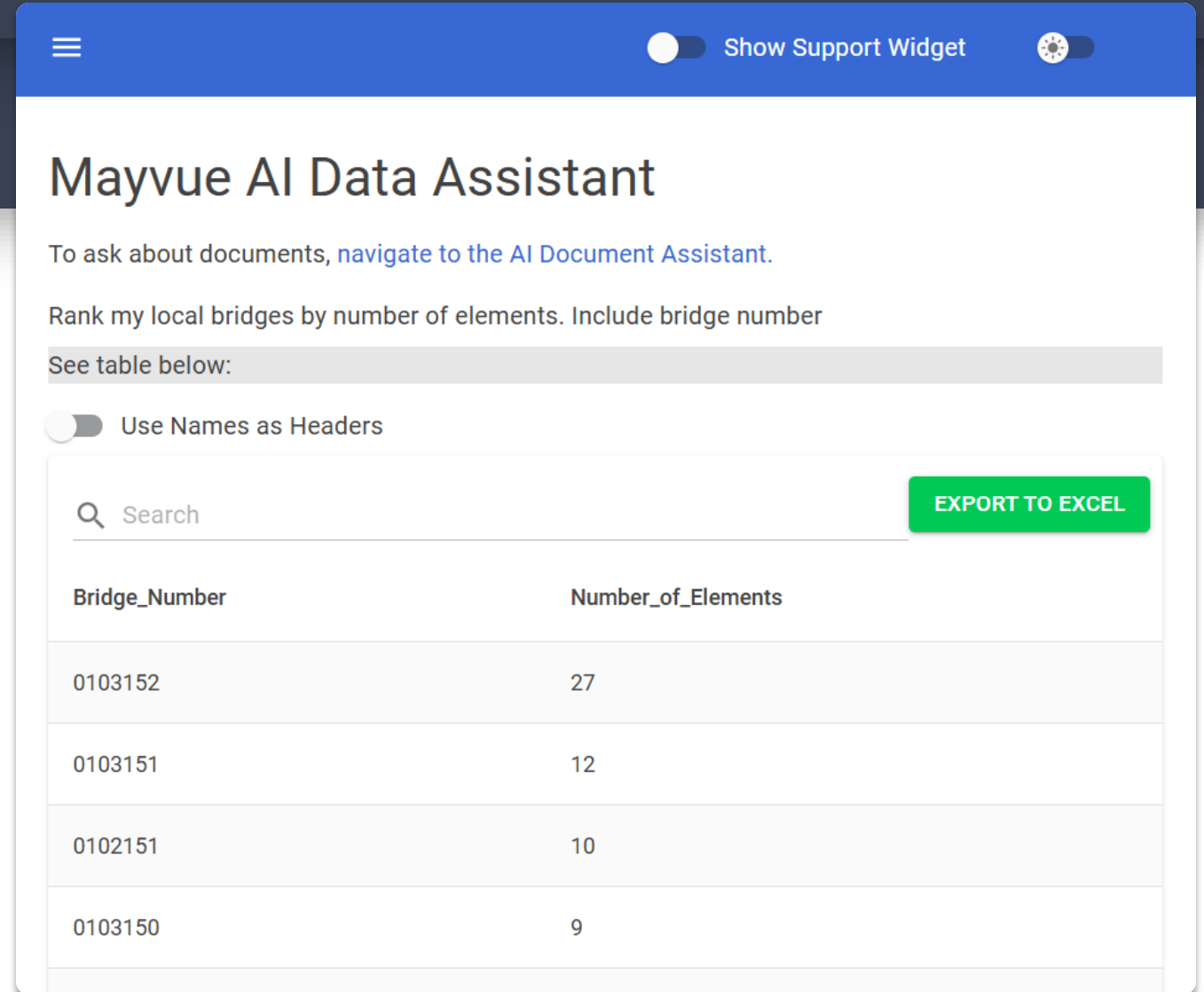
The screenshot displays the 'Bridge Validation' interface for Bridge 004A006. At the top, there is a blue header with a menu icon, a 'Show Support Widget' toggle, and a settings icon. Below the header, the title 'Bridge Validation' is followed by the bridge ID 'Bridge 004A006'. Two blue buttons, 'GO BACK' and 'VIEW SEVERITY LEGEND', are positioned below the bridge ID. A search bar with a magnifying glass icon and the text 'Search' is on the left, and a green 'EXPORT TO EXCEL' button is on the right. The main content is a table with four columns: 'Name', 'Message', 'FHWASeverity', and 'Current Value'. Each column has a downward arrow icon. The table contains two rows of validation rules.

Name	Message	FHWASeverity	Current Value
BL07	'BL07' must not be empty.	Error	
BID02	Bridge Name should be reported for all bridges - the SNBI recommends providing a general description for the bridge if a commonly known name does not exist	Flag	

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



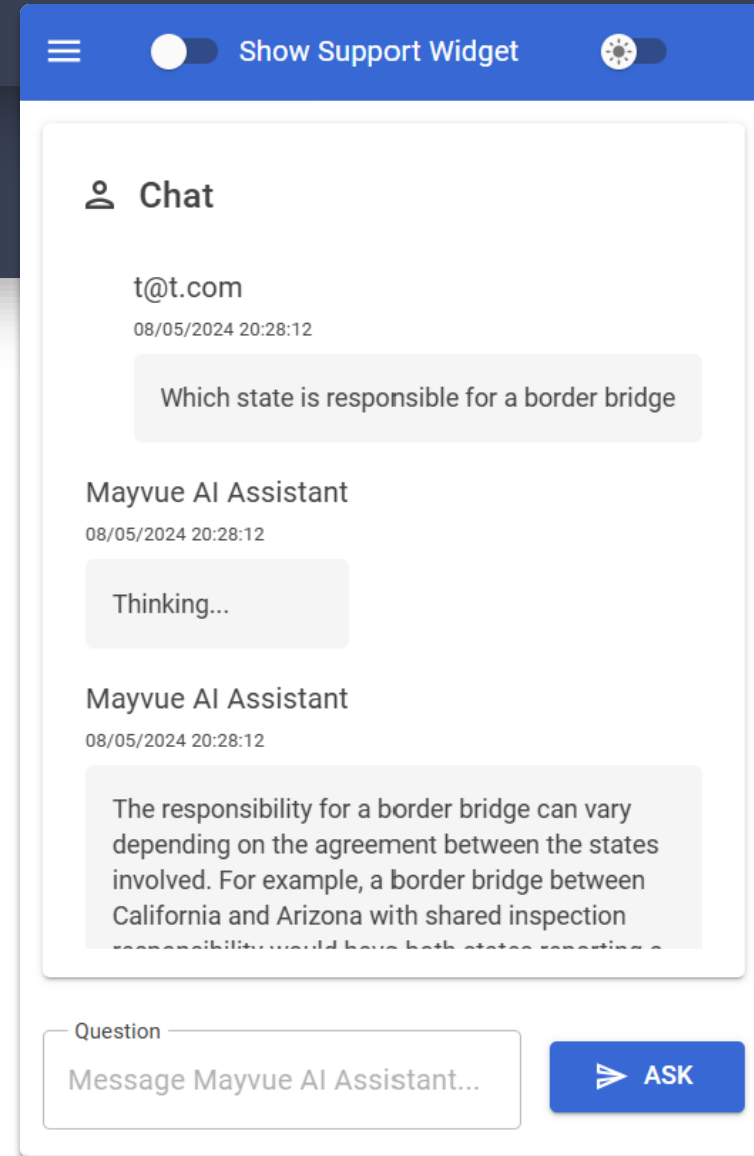
The screenshot shows the Mayvue AI Data Assistant interface. At the top, there is a blue header with a menu icon, a toggle for "Show Support Widget", and a gear icon. The main content area has the title "Mayvue AI Data Assistant" and a prompt: "To ask about documents, [navigate to the AI Document Assistant](#)." Below this is the user's query: "Rank my local bridges by number of elements. Include bridge number". A grey bar indicates the AI's response: "See table below:". There is a toggle for "Use Names as Headers" which is currently off. A search bar with a magnifying glass icon and the text "Search" is present, along with a green "EXPORT TO EXCEL" button. The table below has two columns: "Bridge_Number" and "Number_of_Elements".

Bridge_Number	Number_of_Elements
0103152	27
0103151	12
0102151	10
0103150	9

SNBI COLLECTOR

ARTIFICIAL INTELLIGENCE

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



SNBI COLLECTOR

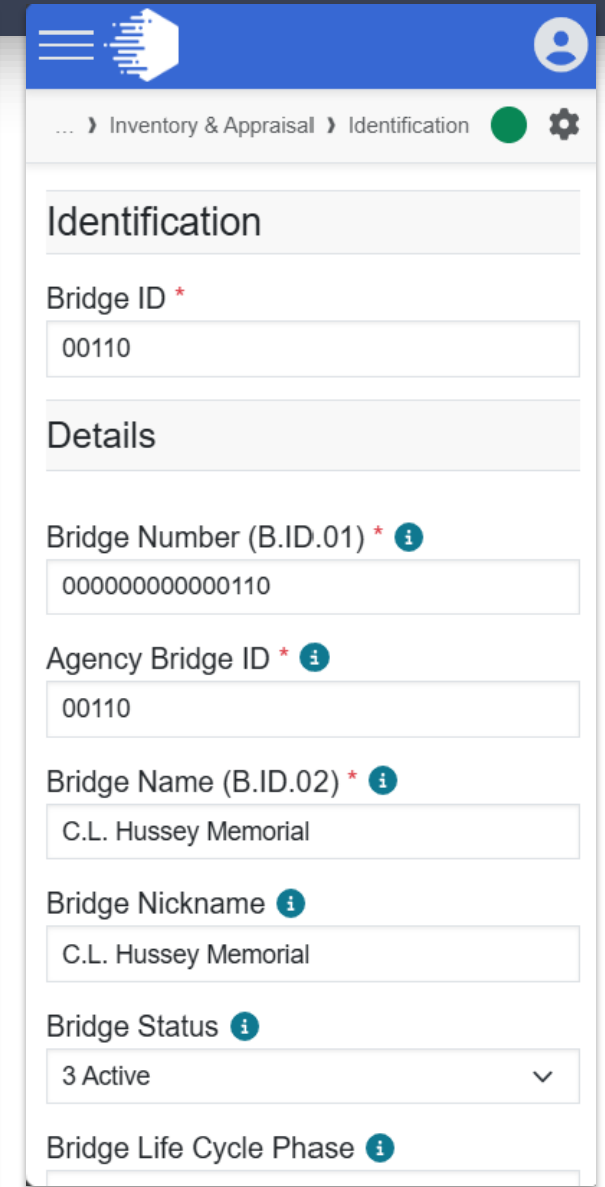
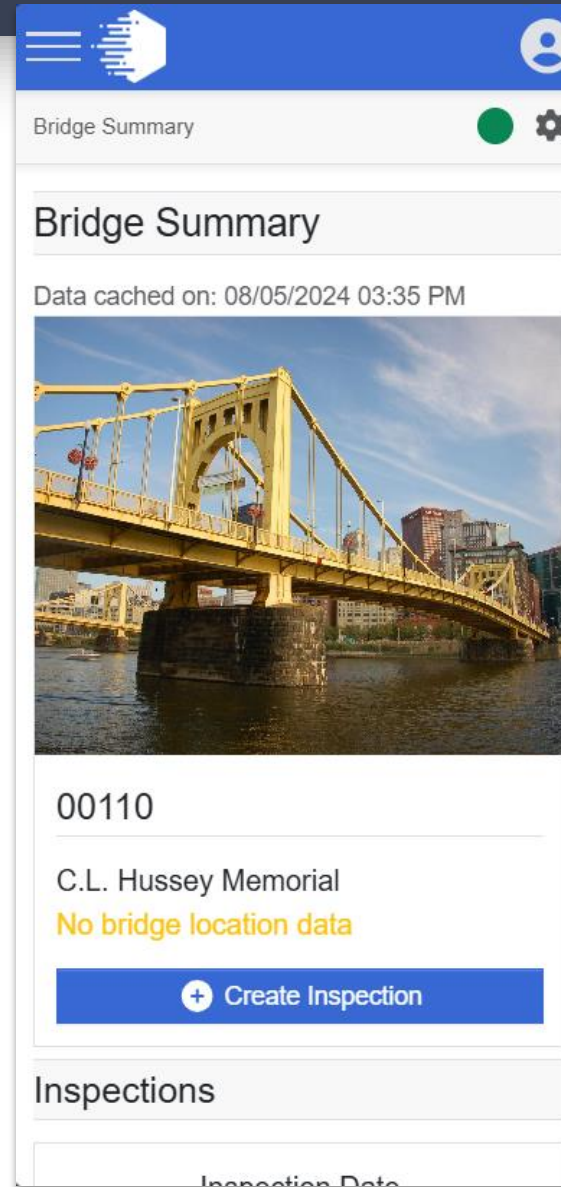
USER RESPONSE

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



MAYVUE INSPECTION PLATFORM

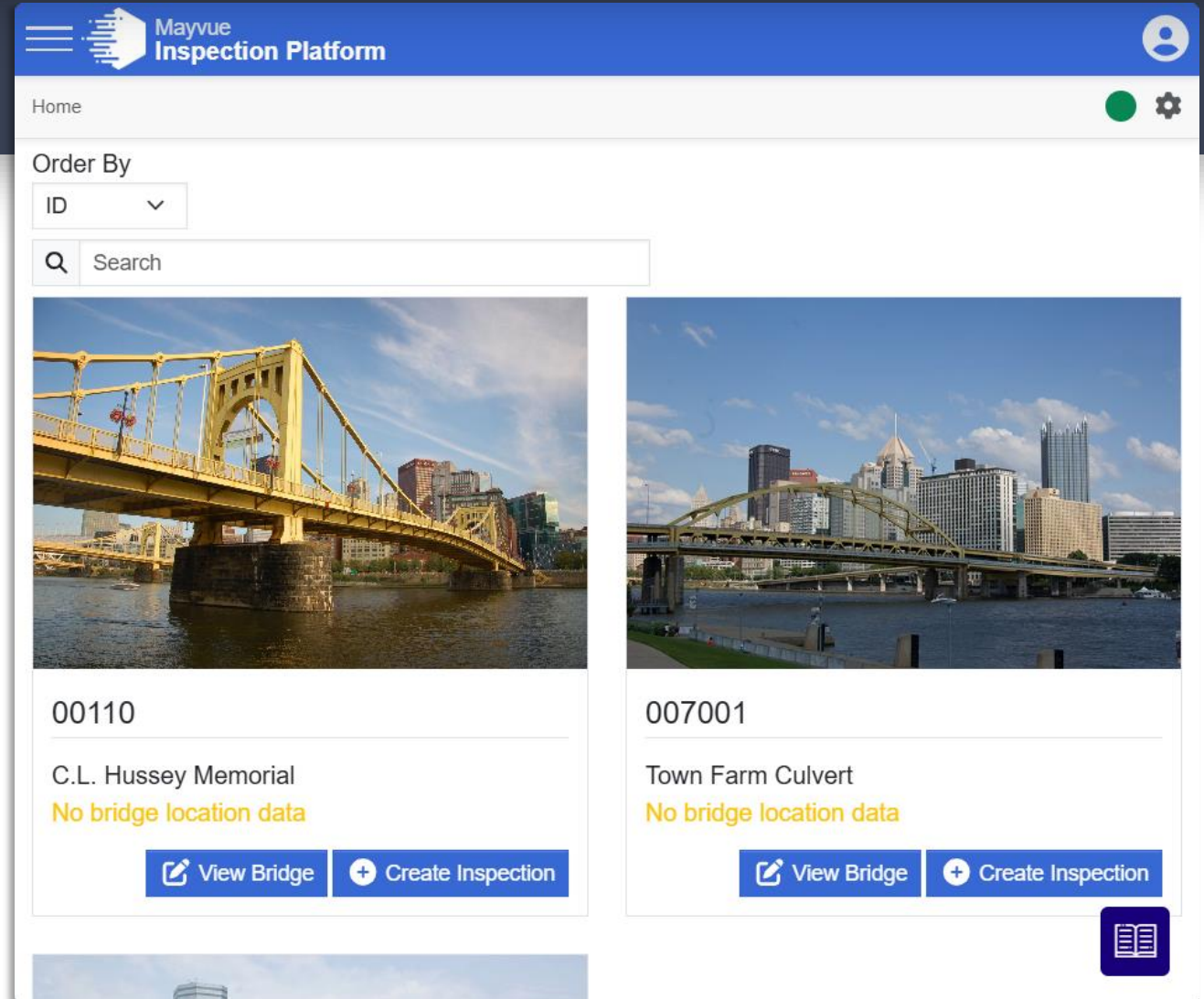
- Functional on Mobile, Tablet, and Desktop
- Online and Offline
- Supports multiple asset types and all inspection types
- Fully Configurable



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



The screenshot displays the Mayvue Inspection Platform interface. At the top, there is a blue header with the platform's logo and name. Below the header, the page is titled "Home" and includes a search bar and a settings icon. The main content area shows a list of bridges, each with a thumbnail image, an ID, a name, and a status message. Two bridges are visible: "C.L. Hussey Memorial" (ID 00110) and "Town Farm Culvert" (ID 007001). Both have a yellow warning message: "No bridge location data". Below each bridge entry are two blue buttons: "View Bridge" and "Create Inspection". A book icon is visible in the bottom right corner of the interface.

Mayvue Inspection Platform

Home

Order By
ID

Search

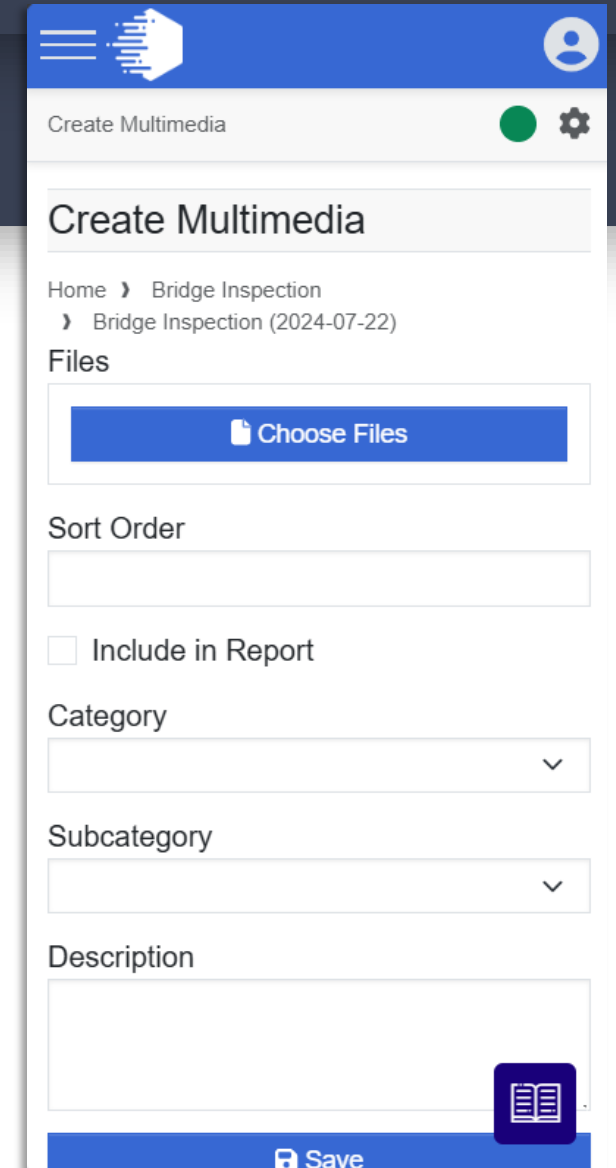
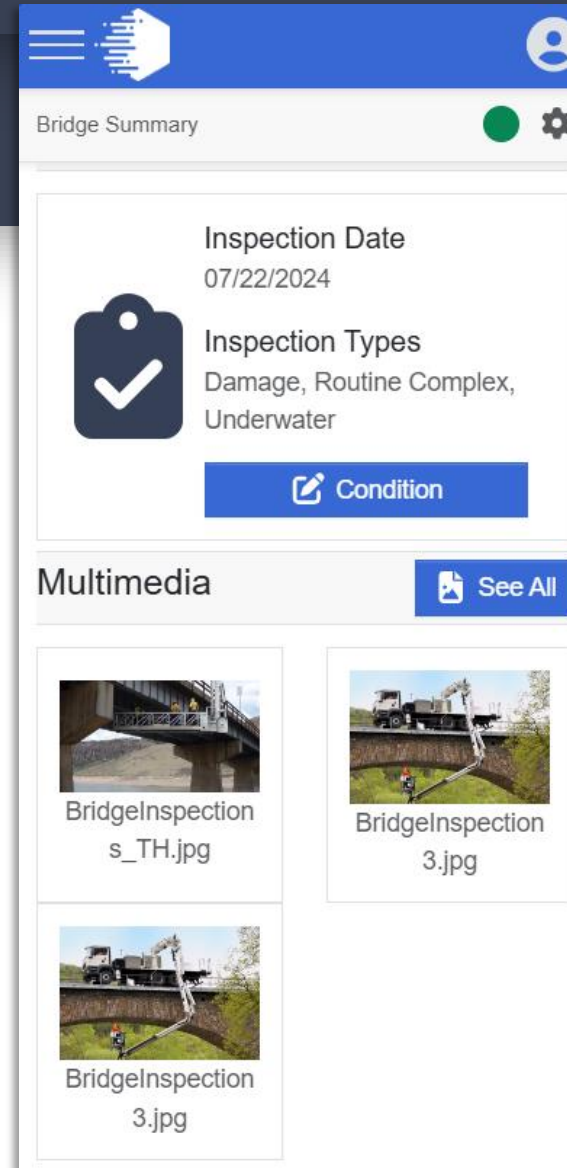
00110
C.L. Hussey Memorial
No bridge location data
View Bridge Create Inspection

007001
Town Farm Culvert
No bridge location data
View Bridge Create Inspection

MAYVUE INSPECTION PLATFORM

MULTIMEDIA COLLECTION

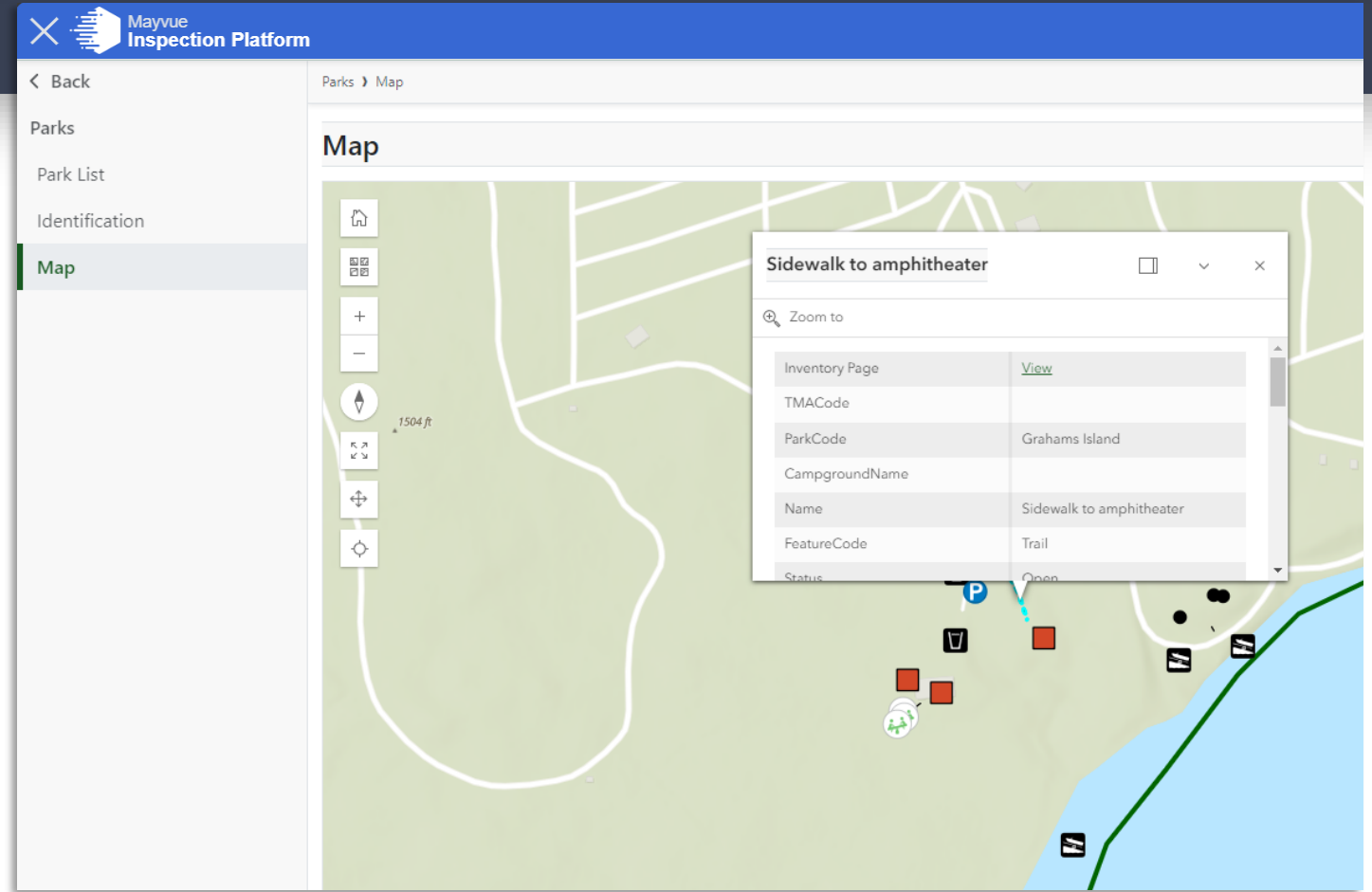
- Images can be collected via the device's camera
- Multimedia can be tagged, categorized, and tied to the bridge or active inspection
- Images saved locally can be annotated in sketches or cross-sections



MAYVUE INSPECTION PLATFORM

MAPPING

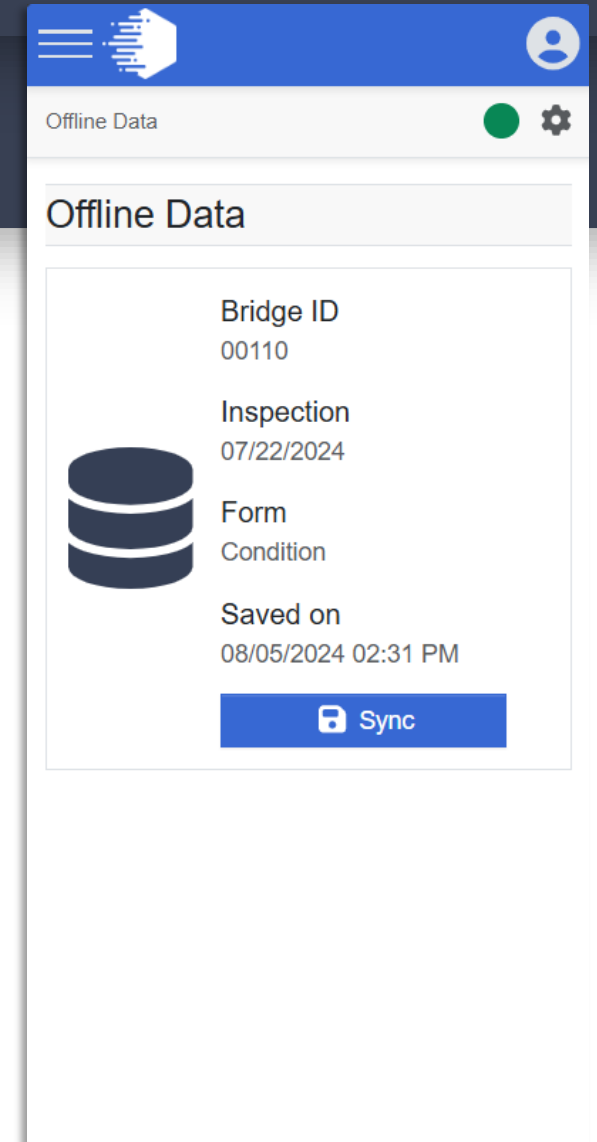
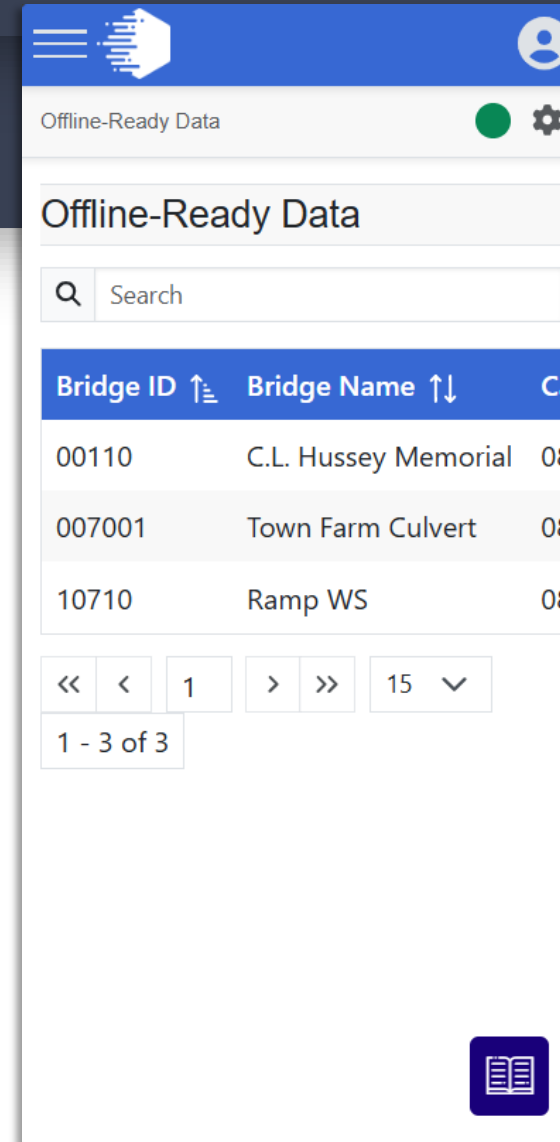
- Assets can be mapped using Google Maps or ESRI
- Assets can be stratified by layer for ease of identification
- Navigation via mapped assets for simplified workflow



MAYVUE INSPECTION PLATFORM

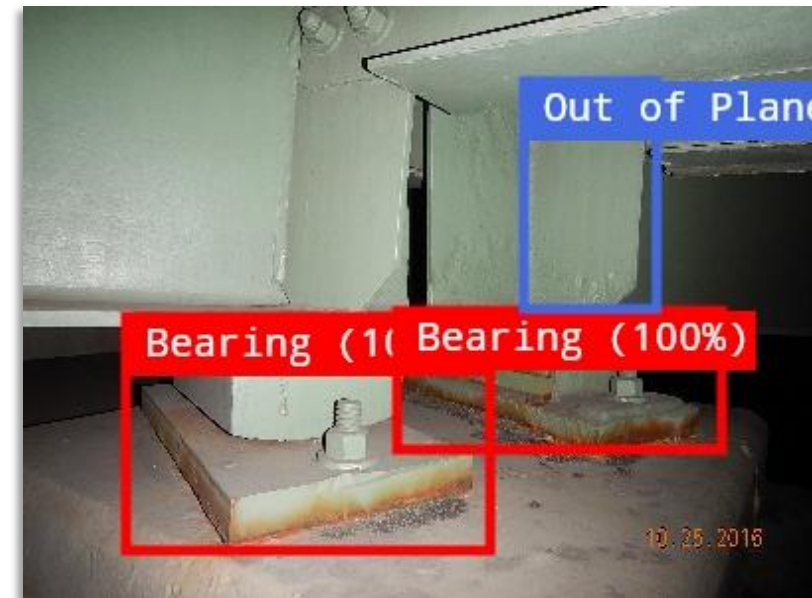
OFFLINE FUNCTIONALITY

- 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

Preview	Download	Delete	Process
	DOWNLOAD	DELETE	PROCESS
	DOWNLOAD	DELETE	PROCESS
	DOWNLOAD	DELETE	PROCESS



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