Mobile Technology for Transportation

Derricke Gray, Product Manager Bentley Civil Americas
Mobile Market Statistics

Tablets Tipped to Outship PCs for the First Time in 2015
Global tablet and PC shipment forecast (in million units)

Source: IDC
Bentley Mobile Platform Strategy

• Developing on multiple platforms to offer cross-platform solutions

• Using various industry standards to increase code and application portability

• Enterprise consistency for ease of use
What’s an i-model?

• i-models are a medium for information exchange within projects associated with the lifecycle of infrastructure assets.

• i-models enable information to flow easily, completely, and accurately between and within design, construction, and operations environments.

• i-models handle all component information, including business properties, geometry, graphics, and relationships.

• i-models are open, providing standard interfaces for business, engineering, construction, and operations applications from multiple vendor.
Transportation Project – Civil Multi-Discipline

OpenRoads

Open Bridge Modeler

MicroStation SS3

SUE / SUDA

gINT
## i-model Extensions

<table>
<thead>
<tr>
<th>File Extension</th>
<th>Description</th>
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<tbody>
<tr>
<td>.i.dgn</td>
<td>A container for open infrastructure information exchange.</td>
</tr>
<tr>
<td>.imodel</td>
<td>i-models (graphic elements and properties) that are optimized for mobile device apps.</td>
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<tr>
<td>.icm</td>
<td>Integrated Civil i-models – enhanced meta data information.</td>
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Publishing i-models for Civil

Keep in mind that there are now 2 different ways to create an i-model:

- **Using Bentley Civil**

This option should be used when creating an i-model for data exchange purposes.
Publishing i-models for Civil

Keep in mind that there are now 2 different ways to create an i-model:

- **Using MicroStation’s File > Publish i-model**

  This option should be used when creating an i-model for **publishing, reporting, presentation or mobile** purposes.
New I-model Publishing Option

- Publish Displayed Attachments Only
- Great way to reduce size of the published i-models
- Will be available in the OpenRoads applications with SS4 MR 1
User Personas

• Primary Personas
  – Civil engineering professionals
  – Construction and engineering field technicians and inspectors
  – Project engineers and managers
  – Professional land surveyors and survey technicians

• Secondary Personas
  – Other sectors who may need generic toolset
Use Cases

• 2D and 3D information
  – Graphical and non-graphical (reports, plan sheets, spreadsheets, etc.)

• Redline and markup

• Field notes, pictures and videos

• Must be geo-referenced

• Must have a linear station reference

• Must be able to easily complete workflow from office to field and back to office.
Features of OpenRoads Navigator (ver. 1.0.0)

- Simple interface, easy to use
- Fast access to civil data in the field and uploading of field generated data for viewing in standard Civil desktop applications (InRoads, GEOPAK, MX)
- Integrated with ProjectWise (not required)
  - Dropbox, iTunes file sharing, etc.
- Locate user geospatially within files.
- Linear referencing system
Features of OpenRoads Navigator (version 1.0)

- Locate features based on feature definition or level search

- Redlining / markup

- Disconnected mode for standalone operation (no location)

- Take a picture or video and attach to markup (geospatially)

- Measuring by station and offset (Linear reference system)
Features of OpenRoads Navigator (ver. 1.1.0)

• Second mobile release

• All features of 1st release plus:
  – 2D geometry properties
  – 3D model relationships
  – Feature expansion
  – Terrain model viewing (resymbolization)
  – Dynamic cross sections
  – Bug fixes and items from user feedback
Distribution

• Early Adopter Program
  ▪ Core Stakeholder group
  ▪ Apple TestFlight for iOS (by e-mail invitation only)

• Release versions (not coincident)
  ▪ iOS version through Apple store.
  ▪ Android app through Google Play
Bentley Mobile Apps Licensing

• A single Bentley Passport fully enables all Bentley Apps.

• It entitles the user access to any Bentley server or service (such as ProjectWise, eB and InspectTech) via Bentley Apps and a wide range of desktop applications.

• Get a Bentley Passport from your Bentley account representative or visit www.bentley.com/Passports to learn more.
Demo
/demo/
def: A product that can be tried for a limited time or with limited features or else the showing of a product, it's features and uses.
Additional Information:

Lou.Barrett@bentley.com

(Project Manager)
Thank You!

Derricke Gray, Product Manager Bentley Civil Americas