Enterprise GIS at BART

Better Performance & Greater Customer Service
About Me...

- Travis Engstrom
- Manager of Information Systems
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BART Generates a Mountain of Data

- EGIS provides a faster, more intuitive and more reliable way to access information.
- On a Digital Map
EGIS Business Opportunities

- Unable Access Key Information
- Create Redundant & Disconnected Applications
- Rampant Inconsistency
We Need a Better Way to Feed the Tree

- Ideas
- Projects
- Reports
- Schematics
- Statistics
- Maps

Reference Data  BART Assets
Enterprise GIS – EGIS
EGIS for Web – Demographics
EGIS for Web – Imagery
EGIS for Web – Drive Time
EGIS for Web – Search by...Anything
EGIS for Web – Easy Navigation
Public Security

- Regional Anti-Terrorism Integrated Law Enforcement System (RAILS)
- Manager of Information Systems
- San Francisco Bay Area Rapid Transit District
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Next Generation 911

- Adding an Enterprise Geographic Component
- New Level of Situational Awareness
- New Level of Analysis
Ty Engstrom – Portland Police

- 911 Call Response
- Fight
- Code 3 Backup
Communicate Effectively

- During a Crisis
- Memory Recall
- Investigation
- Chain of Command
- Public Relations
Common Operating Viewer
Terrestrial LiDAR
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Terrestrial LiDAR
LiDAR Feature Extraction
Interior Station Mapping

- Contract
- Hybrid
- In-House
- Rental

Information Technology Department  7/16/2012
Building Information Models (BIM)

- Provide a Modern Solution for Drafting
- Solve a Number of Problems
  - Accuracy
  - Organization
  - Maintenance
  - Management
Detailed Components
Enterprise GIS at BART

Greater Customer Service
Collaboration & Mashups
Analysis in 3D – Housing Density
Analysis in 3D – Job Density
Internal Marketing

- Print
- Software
- webBART
- BART.gov
- Projects
1. EGIS in the Cloud

- BART IT Branding
- Password Protected
- Controlled Data Access by User
- Groups & Notifications by Project or Department
- Featured Maps & Content
- Save & Share Custom Maps
- Build Your Own Project Map
- Visualize Your Tabular Data
5. Create Powerful Displays

- Control Visual Attributes
- Analyze Tabular Data Dynamically
- Drag & Drop Excel Spreadsheets
Custom Applications

ArcGIS Online for Organizations
1. Initial View

- Dynamic Legend
- Web Print to PDF & Image
- Map Layer Toggle On/Off
- Rotate Basemaps
- Share: Email Facebook Twitter
- Search by Address or Place
- Dynamic Scale
- Cloud Hosted: 1.1 Million Cached Tiles
2. Search by Address

- Dynamic Legend
- Map Layer Toggle On/Off
- Rotate Basemaps
- Web Print to PDF & Image
- Share: Email Facebook Twitter
- Search by Address or Place

Cloud Hosted: 1.1 Million Cached Tiles
3. Rotate Basemaps

- Dynamic Legend
- Web Print to PDF & Image
- Map Layer Toggle On/Off
- Rotate Basemaps
- Share: Email Facebook Twitter
- Search by Address or Place
- Cloud Hosted: 1.1 Million Cached Tiles

![Map Interface](Image)
4. Scalable Display

- Dynamic Legend
- Web Print to PDF & Image
- Map Layer Toggle On/Off
- Rotate Basemaps
- Search by Address or Place

Cloud Hosted: 1.1 Million Cached Tiles
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