Harvard University GIS based Property Information Portal

James Nelson
Director of Planning Resources
Harvard Planning & Project Management – Information Resources Group

Michael Nichols
Assistant Director
R&K Solutions, Inc.
Challenges – Comprehensive Property Information

- Global Portfolio
- 24 Locations
- 719 Buildings
- 2,994 Permits
- 9,374 Projects
- 38 Owners
Challenges – Sharing Property Information

- Consolidate data into a single platform
- Present information in a web-based application
- Authenticate using Harvard University PIN System
- Control access to information
- Enterprise solution
  - Easily scalable
  - Capable of handling additional data sources
Challenges – Improving Processes

- Data Quality Assurance
- Identify Gaps in Information
Solution – Develop Data Process

1. Identify over 10 data sources
2. Aggregate data sources
3. Fine tune data alignment to work with GoRPM
4. Define a continuous quality assurance process for routine updates
Solution – Harvard University Property Information Portal

- Configure GoRPM to present property information
  - Harvard PIN System
  - Roles and Permissions
  - Branding
  - Departmental and Geographic Hierarchy
  - Consume GIS and non-GIS data
  - Reports
  - Map Centric
  - Scalable to expand offerings
Solution – Harvard University Property Information Portal

- Ability to easily add spatial and non-spatial entities and relationships
- Multidimensional many to many relationships
Solution – Harvard University Property Information Portal

- Cambridge\Allston
Solution – Harvard University Property Information Portal

- Harvard Hall
Solution – Harvard University Property Information Portal

• Harvard Hall Building Information
Solution – Harvard University Property Information Portal

- Harvard Hall Chilled Water Service
Solution – Harvard University Property Information Portal

- Harvard Hall Chilled Water Service Project Details
Solution – Harvard University Property Information Portal

- Harvard Hall Chilled Water Service Owner
Solution – Harvard University Property Information Portal

- Campus Services
Solution - Harvard University Property Information Portal

- Harvard University PIN System
- Harvard University ArcGIS for Server
- Property Information Portal Web User
- GoRPM Server
- ArcGIS Online
Results

- A single location to access property information
- An intuitive interface
- Visualize and navigate to information in maps
- Automated reports controlled by permissions
- Infrastructure that will be expanded
Video Demonstration
Questions

Jim Nelson

james_nelson@harvard.edu
“The GoRPM solution provided exactly the detailed user management control that we needed to provide efficient and secure access to facilities and capital project data for users across the institution.”

James Nelson
Director of Information Resources, Planning and Project Management