



## FDNY has amassed the largest GIS repository of building floor plans in the world to help prevent loss of life.

Beginning in 2006, the City of New York required the owners of 'Class E' high-rise office buildings of greater than 15 stories to file Emergency Action Plans for each of their buildings in the five boroughs of the city. Geospatial technology has helped with this daunting task.

### The Solution

PenBay Solutions used its expertise in geospatial technology to create floor plan automation tools for FDNY and deliver GIS solutions for field and office use at the Bureau of Fire Prevention.

### The Challenge

Following this request, the Fire Department of New York (FDNY) was charged with reviewing the building plans and emergency action plans (EAPs) submitted by building owners to ensure they were in accordance with local laws. In order to follow fire prevention mandates, FDNY found the need for tools to successfully evaluate building and floor plans, review EAPs and conduct inspections. These critical reviews ensure the safety of firefighters using floor plans and diagrams as they enter buildings – and of the people within the building as they leave via evacuation routes.



*Using floor specific building plans with annotation and mark-up capabilities, users can create or access information to successfully evaluate buildings and floor plans.*

### PENBAY HAS SUPPORTED FDNY IN SEVERAL WAYS INCLUDING:

- Delivering web-based tools to upload/geo-reference floor plans to real world coordinates
- Cataloging the building floor plans in a secure enterprise database
- Providing floor-specific building drawings with annotation and mark-up capabilities
- Providing an easy to use web-based search and retrieval system for floor plans
- Assisting them in automating 16,000 floor plans for the EAP review process
- Allowing them to view floor plans in the context of surrounding buildings/infrastructure

