



E-PreS: Monitoring and Evaluation of Natural Hazard Preparedness at School Environments

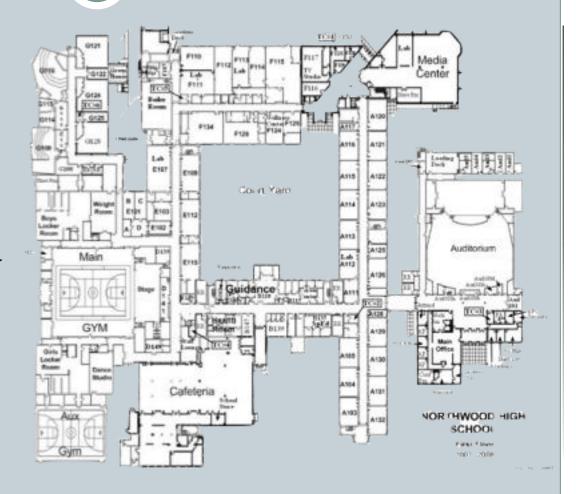
Spacial Subsystem

Objective

- ×To extract spacial information of a building based on digital files such as AutoCad output files (.dwg, .dxf).
- ×To merge this information with the rest of the software that will be developed for the efficient design and implementation of an evacuation plan exercise.
- ×To offer a clean and user-friendly interface for the quick modification of the exercise parameters.

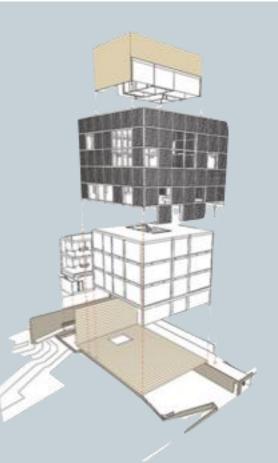
Primary building information

- × Buildings can be too complicated for efficient local inspection.
- ×A lot of information is only accessible by the building blueprint.



Primary building information

- ×Vital building information:
 - × Number of floors
 - × Positioning and number of doors
 - × Corridor placement and length
 - × Staircase positioning and length
 - × Emergency exits
 - × Elevators
- ×The information needed is "hidden" in a CAD file.



Application development

- × We will develop a Java application which will:
 - × Automate the procedure of extracting building information to use in the design of the evacuation exercise.
 - × Will provide a user friendly interface to the designer of the exercise and help him/her optimally position the RFID readers.
 - × Eliminate the necessity of a local inspection of the premises prior to the design of the exercise.
 - × Have the capability to manually insert the needed information in case of lack of a .dxf file

E-PRES kickoff meeting

Athens, 11 March 2015