Emergency Evacuation System for All

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Goal definition

Two main goals had to be reached in the “Emergency Evacuation System for All” project: to enable an efficient emergency evacuation for all persons, irrespective of their physical and cognitive capabilities, and to raise awareness of the accessibility of buildings regarding persons with disabilities.

General emergency evacuation plan

How to behave correctly before and during an emergency evacuation is the base of the general evacuation plan, consisting of three parts;

1. Emergency evacuation preparedness with courses of evacuation drills and all responsibilities for persons who are present in the building
2. Emergency evacuation procedures, consisting of guidelines for different cases
3. Emergency evacuation of persons with disabilities, including information about how to help them appropriately in consideration of their disability

Training plan

To ensure that every person present in a building will be saved in case of an emergency, a training plan is required. Information about how to perform an emergency evacuation, with as little problems and damages as possible, is the main content of the training plan.

Specific plan

As an example on how to apply the general emergency evacuation plan to a public building, a specific plan was created for the EPSEVG VG 1-2-3 building.

Current building situation

Improved building situation

Mechanical solution

An evaluation of existing technical solutions for safer evacuation of disabled people was performed using a scoring model. An implementation of an elevator was identified to be the best emergency evacuation device for the EPSEVG building. Image 4 shows the elevator which works basically mechanical with the support of an hydraulic system.

Business plan

To figure out if selling the emergency evacuation plans focused on persons with disabilities was possible, market research was done before the business plan was written. The need for an emergency evacuation plan focused on persons with disabilities is given as shown in the pie chart.

Do you think that the part about persons with disabilities in the emergency evacuation plan of your building is extended enough to get persons with disabilities safe outside?

30% Yes
70% No

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Further information

More information about the project can be found in the project report and in the project wiki page: http://karaba.epsevg.upc.es/~eps/index.php/Main_Page. Also the persons involved in this project can be contacted by e-mail. Their email addresses are: 1.janine.assmann@hotmail.de, 2.brittbl.marstrander@stud.iu.hio.no, 3.je.luecke@gmail.com, 4.somni__@hotmail.com, 5.b.peyker@gmx.de, 6.liza_rotje@hotmail.com