

PROJECT

Floods and Flood Risk Maps in Climate Change Scenarios

LOCATION & COUNTRY

Urban Centers, Portugal

FINAL CLIENT

Associação Portuguesa dos Seguros

Rua Rodrigo de Fonseca 41,
1250 – 190 Lisboa
Portugal

PARTNER

University of Lisbon

DATES

March 2011 - August 2013

ACTION MODULERS' MAIN TASKS

Development and implementation of the integrated model in several areas.

Training and support.

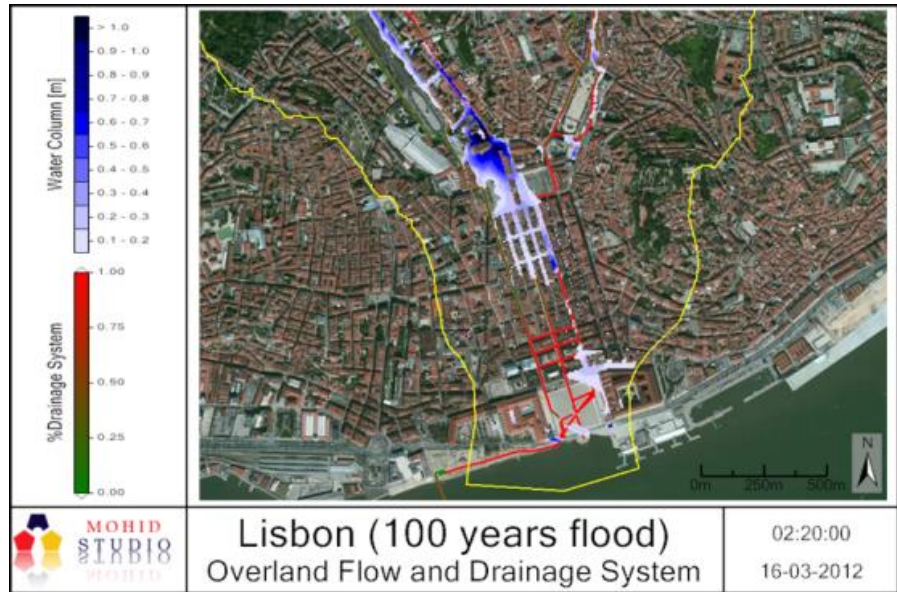
SOFTWARE & SUPPORT

Action Modulers offers a wide range of customizable software products. We also provide professional support to implement your projects.

CONTACTS

Estrada Principal, nº 29
Paz
2640-583 Mafra
Tel.: +351 261 813 660
sales@actionmodulers.com
www.actionmodulers.com

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Being risk defined as product of probability of occurrence by caused damage, urban floods have particularly high risk due to the damage they cause. Taking into considerations climate change scenarios, the risk can even be higher, since the probability of occurrence of heavy rainfall events is expected to increase.

Being aware about this the Portuguese Assurance Association ordered a study to assess urban flood risk in context of climate change scenarios with the following objectives:

- Setup of several climate change scenarios, including mean sea level rise and rainfall events for different return periods;
- Modelling of urban floods;
- Elaboration of flood risk maps.

The main results of the services provided by ACTION MODULERS include:

- Integration of the MOHID Land model with the SWMM model in order to simulate urban floods in an integrated approach;
- Implementation of this integrated model in different urban areas;
- Implementation of the MOHID Water model in the coastal areas;

The integrated model (MOHID Land + SWMM) has been included into MOHID Studio.

