GMES COMPONENT SERVICES

Natural Hazards, Risk Management and Preliminary Losses Estimation From Earthquakes

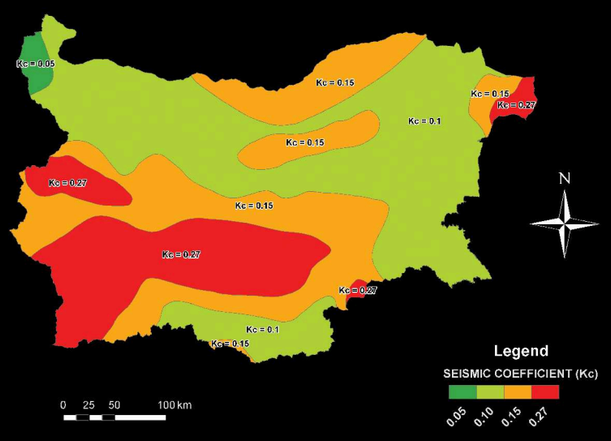


Figure 1A. Official map seizmic hazard from 1987 (1000 years return period)

Elaborate:

Agency for Sustainable Development and Eurointegration - Ecoregions (ASDE)
http://www.asde-bg.org

Sofia Municipality
http://www.sofia.bg/

Global Monitoring for Environment and Security (GMES)
www.gmes.info

Bulgarian Information Office for GMES
http://gmes-bg.org

Beneficiaries:

Ministry Of Regional Development And Public Works
http://www.mrrb.government.bg/

Bulgarian Academy of Sciences (BAS) Geophysical Institute "Acad. L. Krastanov"
http://www.geophys.bas.bg

Ministry Of Transport, Information Technology And Communications

Executive Agency "Electronic Communication Networks And Information Systems"
http://www.esmis.government.bg

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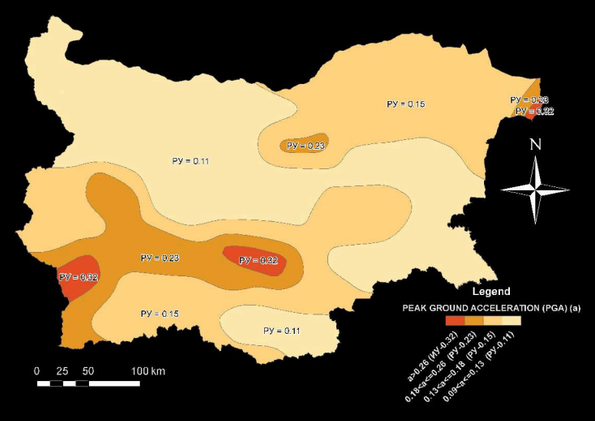


Figure 1B. Non official map of seizmic hazard from 2010, GPhI - BAS (475 years return period).

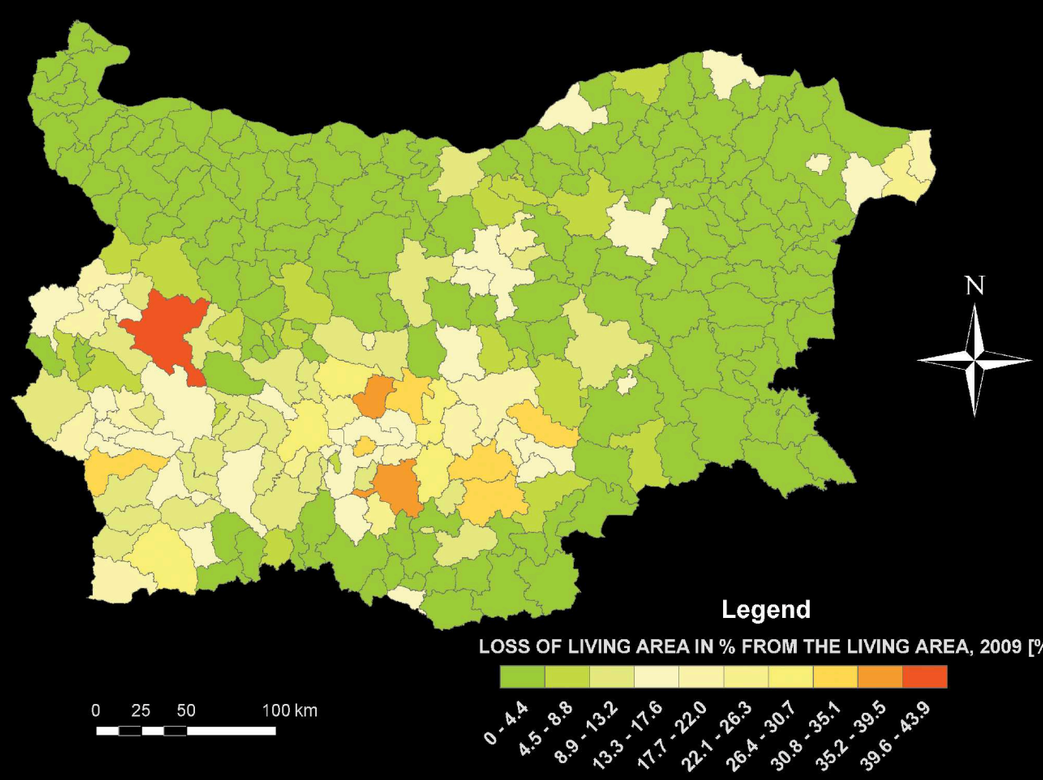


Figure 2A. Map percentage loss of living area, modeled on the base of map seismic hazard from 1987.

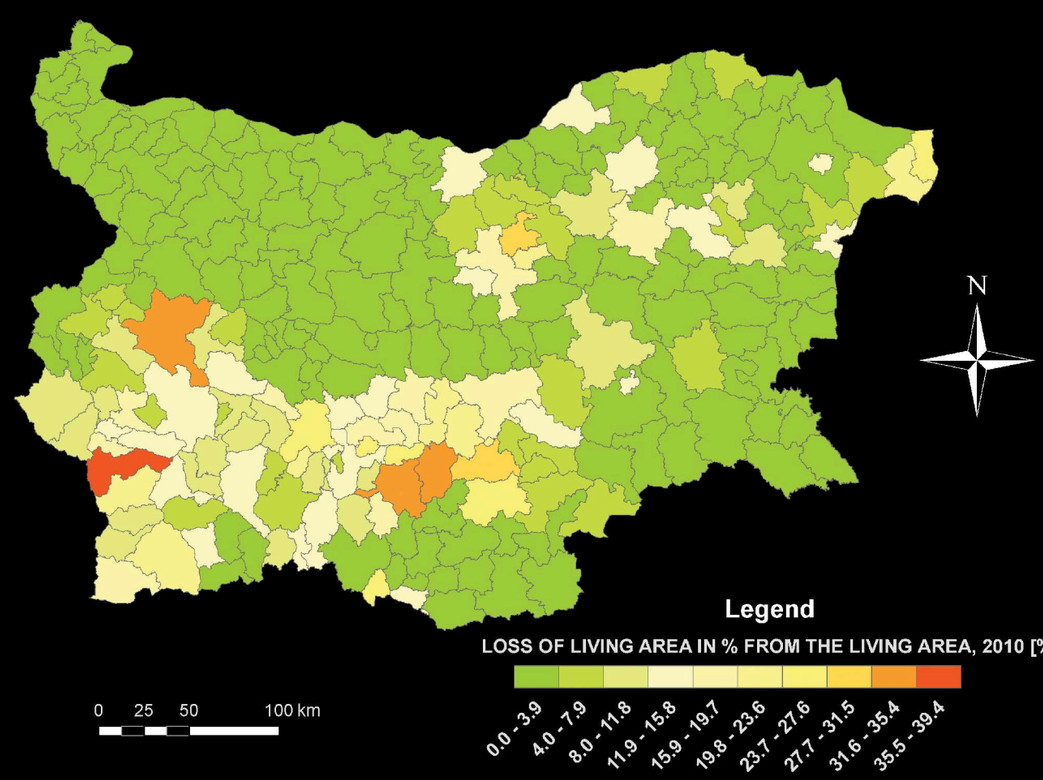


Figure 2A. Map percentage loss of living area, modeled on the base of map seismic hazard from 2010, GPh - BAS.

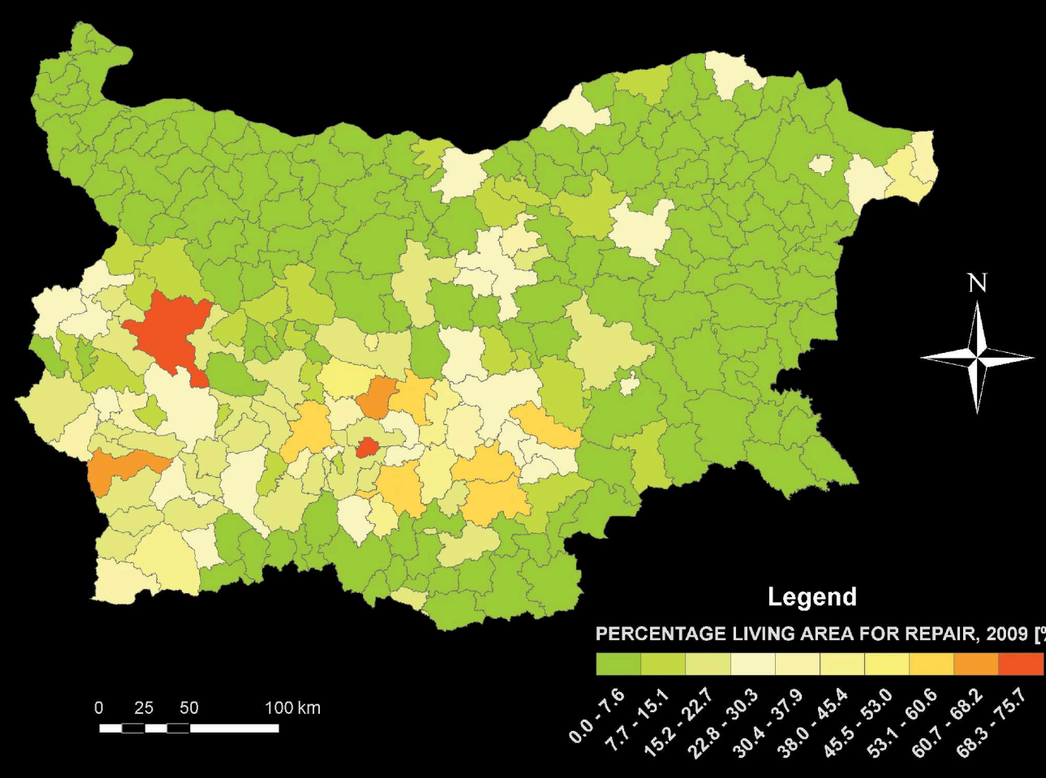


Figure 3A. Map percentage value of repair living area modeled on the base of risk evaluation map from 1987.

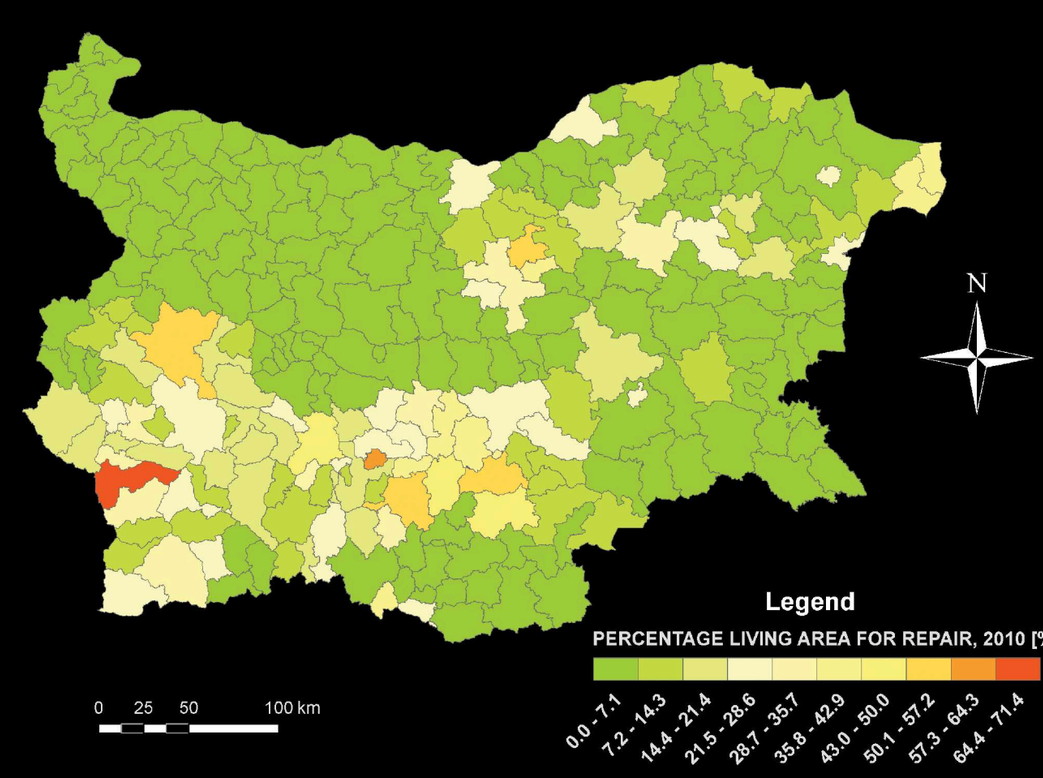
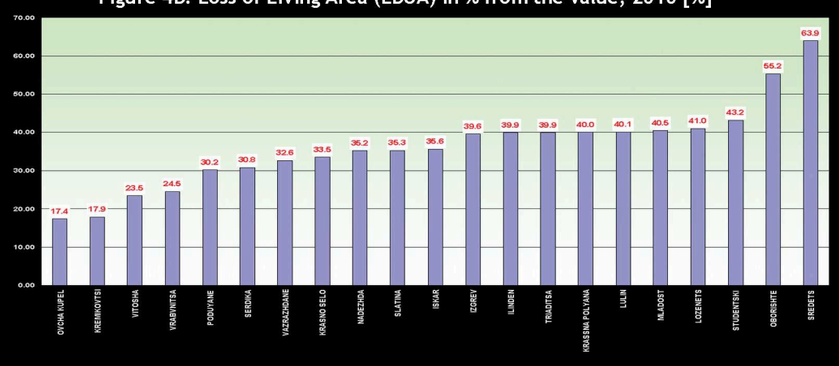


Figure 3A. Map percentage value of repair living area modeled on the base of risk evaluation map from 2010, GPh - BAS.

SOFIA Municipality - Stolichna:

Figure 4B. Loss of Living Area (EBUA) in % from the value, 2010 [%]



The case study for the seizmic hazard in Sofia Municipality - Stolichna, represents the loss of living area for Enhanced Build-Up Area (EBUA) from the city, from the value and the percentage of area rebuilt, all calculated for 2010.
Based on the expected distribution of damage from seismic disaster can be valuable assessment of the expected defeat. The assessment is based on the acceptance of different construction value of the property according to his age (50 to 950 BGN/sqm and construction material) in the region of Sofia Municipality.



Powered attracted EXPERTS:
ASDE, ANE, GPhI-BAS, ReSAC, CLSMSI-BAS, NIMH-BAS, experts from Germany-CEDIM, experts from the U.S. - HASUS, experts from France - BULGARISK, Sofia University, FJV, Dovel Int,

With support and assistance to:
MDPW, MOEW, NSI, Sofia Municipality, Municipality Rousse, Vratsa Municipality.

Figure 4A. Loss of Living Area (EBUA) in % from the area, 2010 [%]

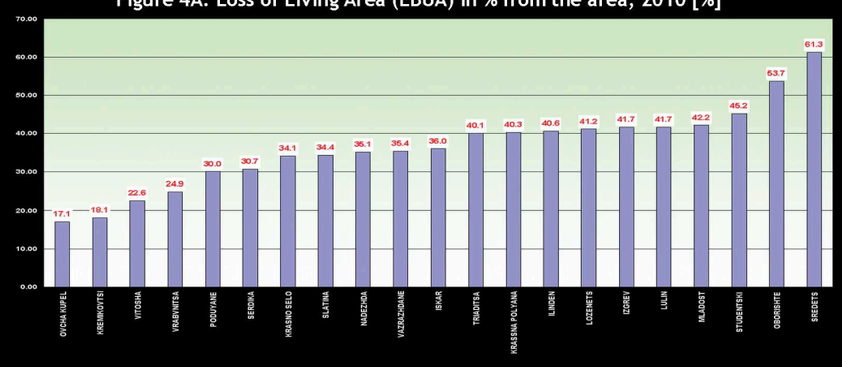


Figure 4C. Percentage of Area (EBUA) rebuilt 2010 [%].

