



Advances in Seismic Risk Assessment of the city of Potenza (Southern Italy)

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IR0000032 – ITINERIS, Italian Integrated Environmental Research Infrastructures System
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Mission 4 "Education and Research" - Component 2: "From research to business" - Investment
3.1: "Fund for the realisation of an integrated system of research and innovation infrastructures"



SUMMARY - URBAN SEISMIC RISK

Holistic approach



Topic 1: Soil-structure interaction

1.1 Experimental characterization of
all urban soils

1.2 Experimental characterization of
all buildings

1.3 Soil-structure resonance maps

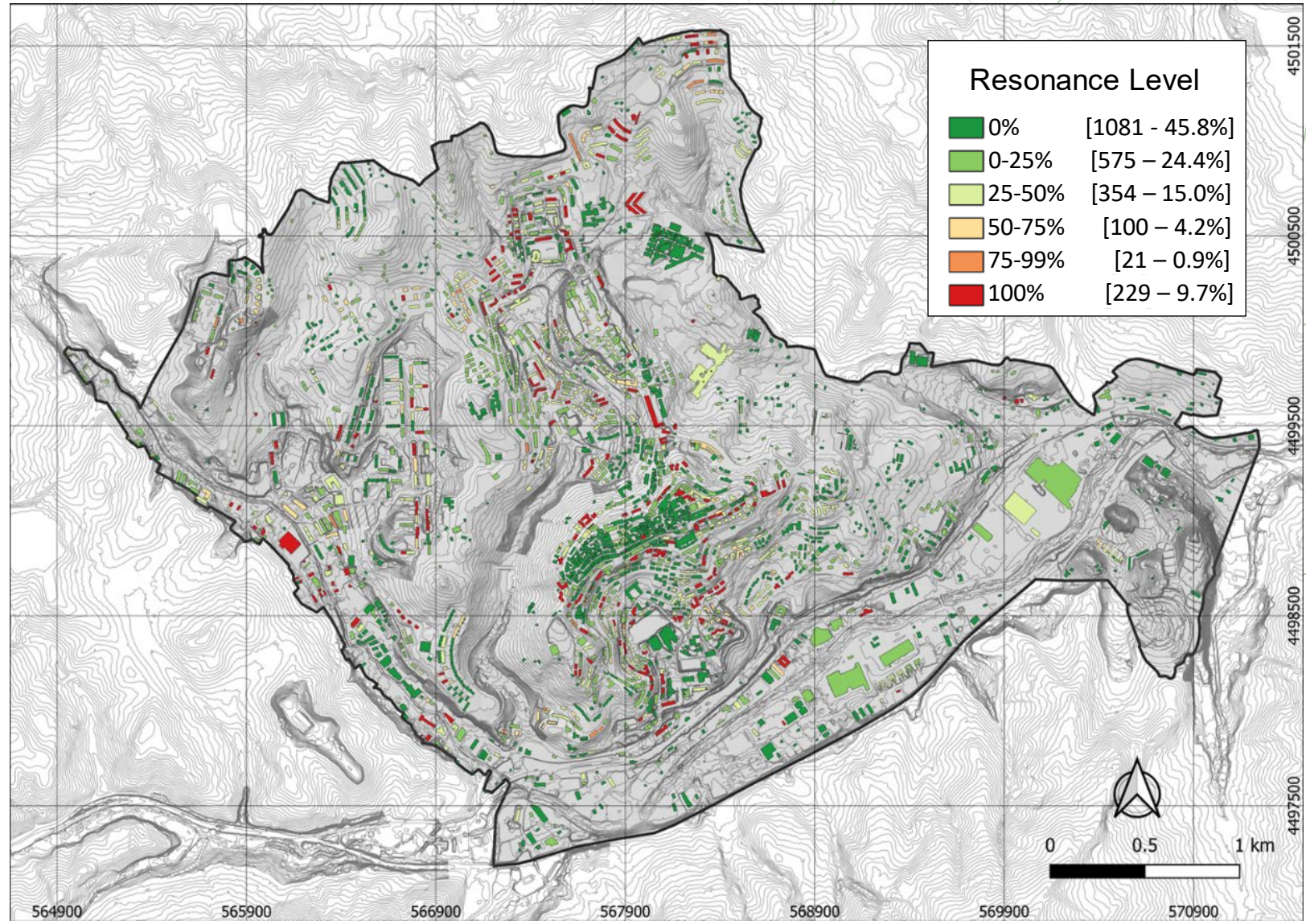
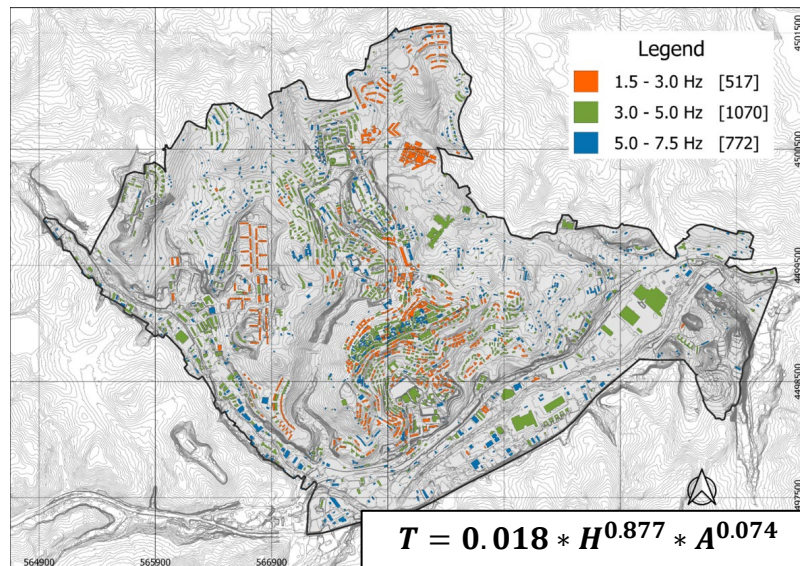
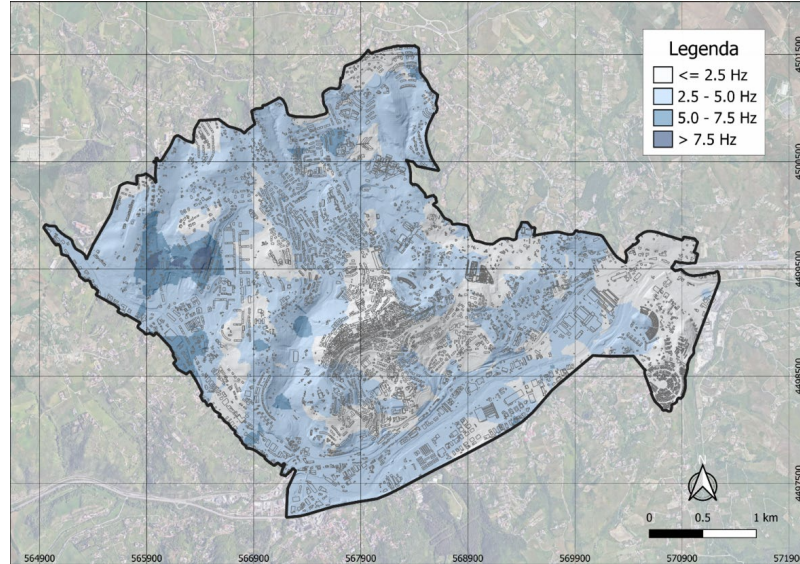
Topic 2: Building dynamic response

2.1 Numerical modelling for the main
building's typological classes

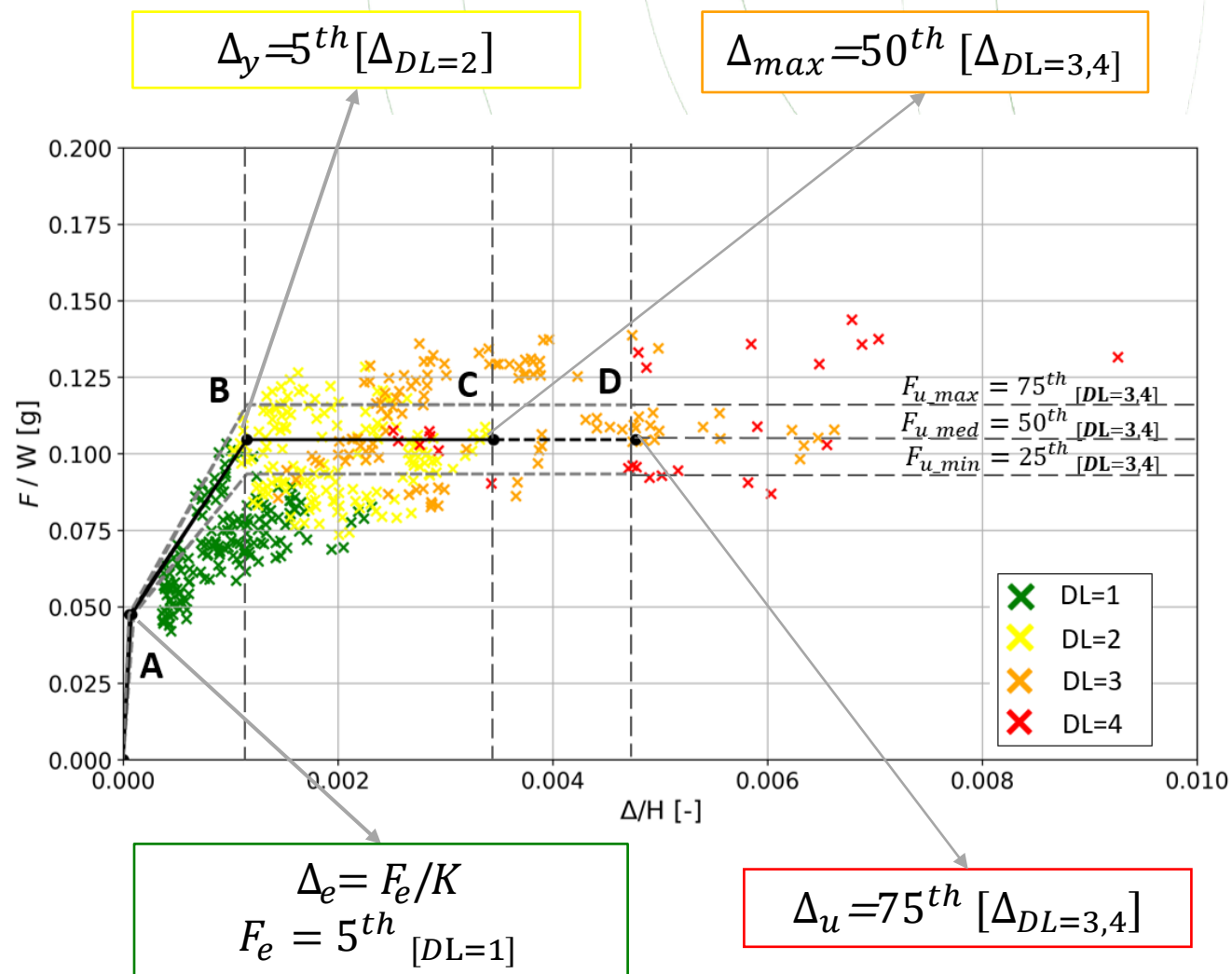
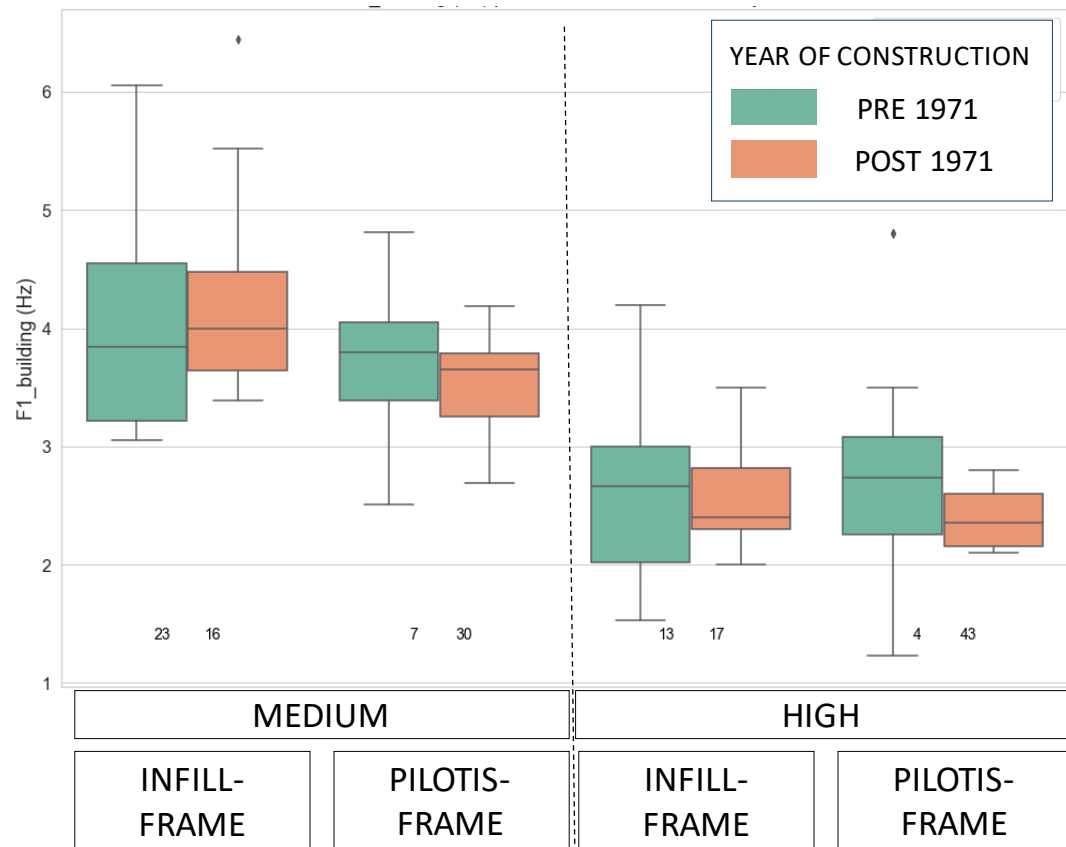
2.2 Experimental constraints for
capacity curves

2.3 Construction of capacity curves
for all buildings

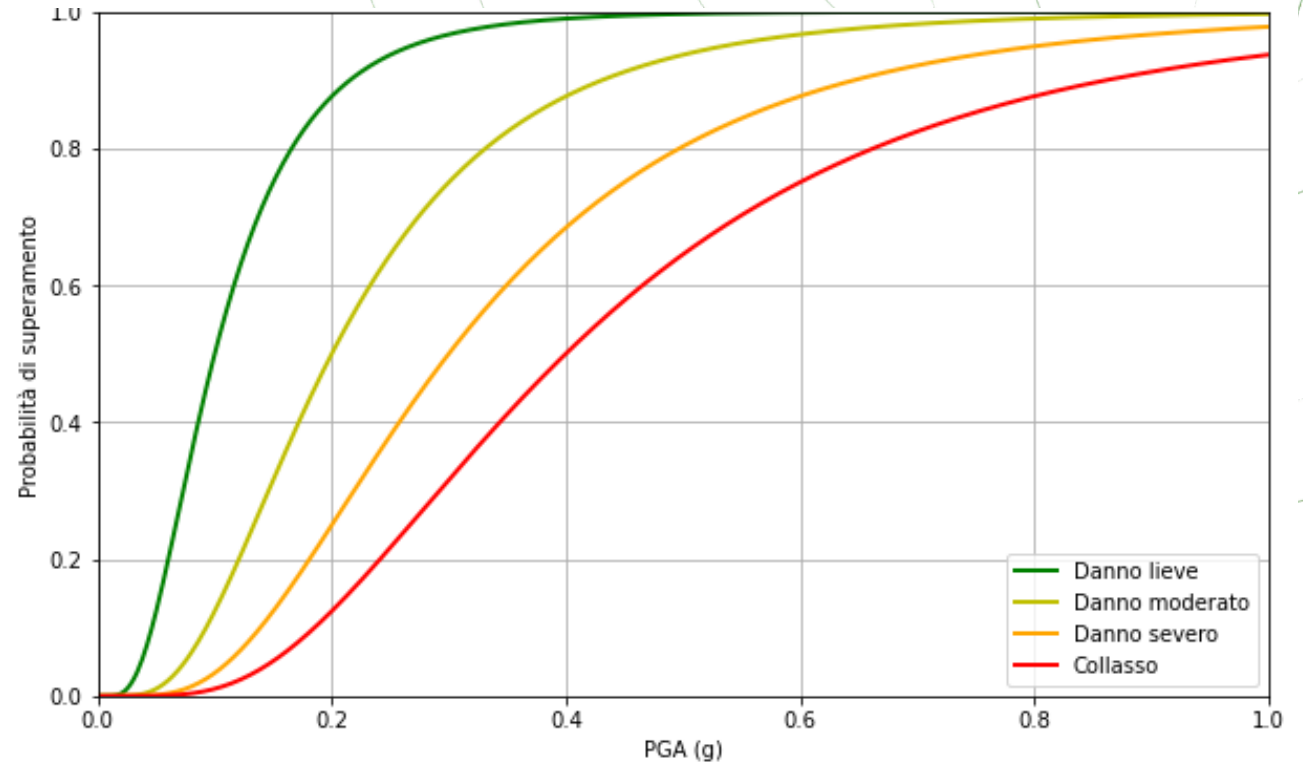
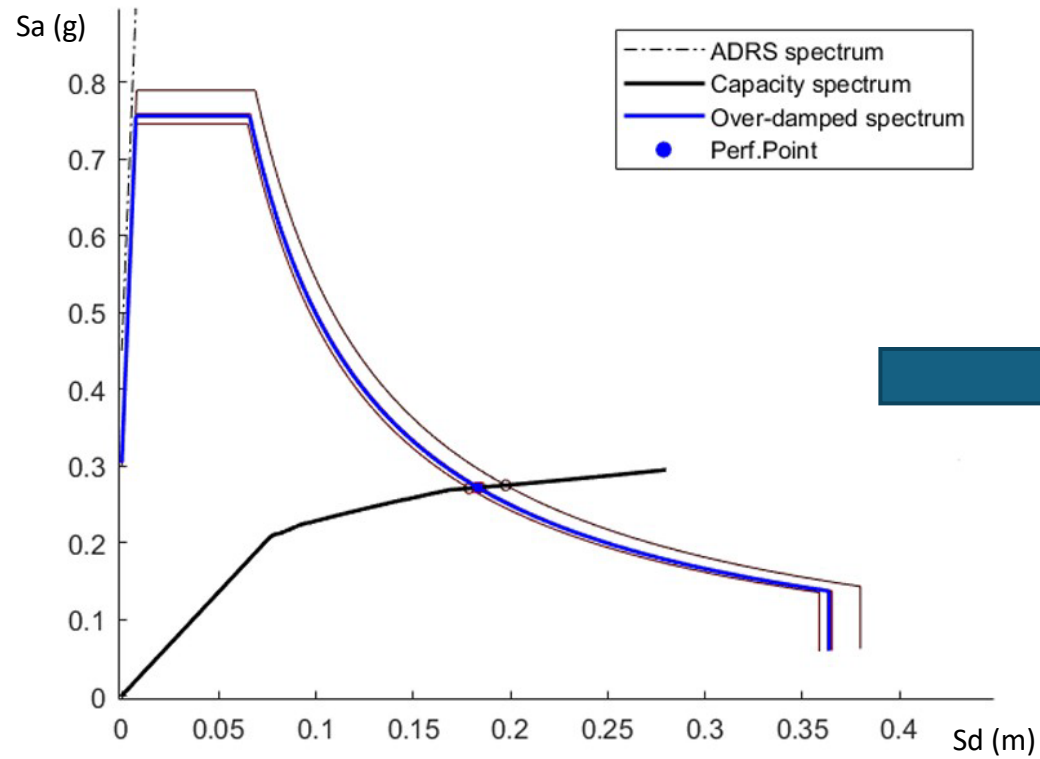
Topic 1: Soil-building resonance effects



Topic 2: Building dynamic response



Future work





THANKS!

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