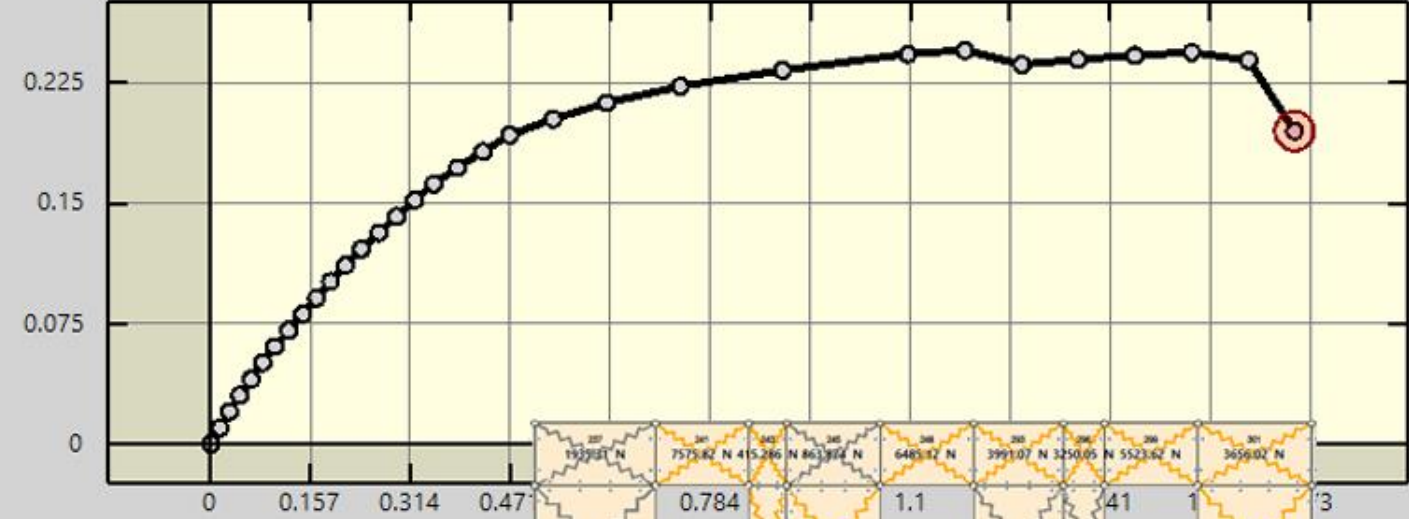
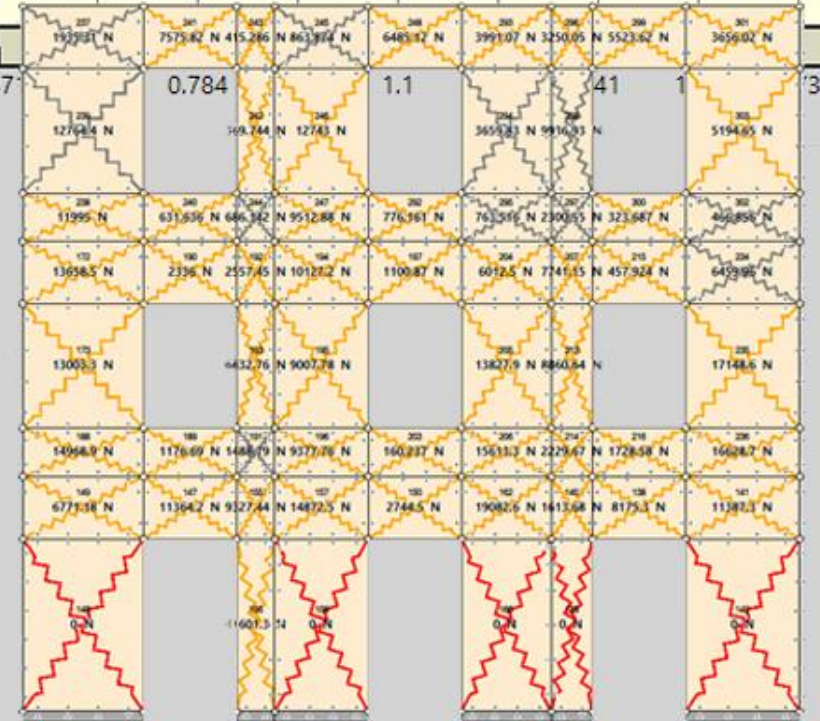


$C_b = V_b/W$

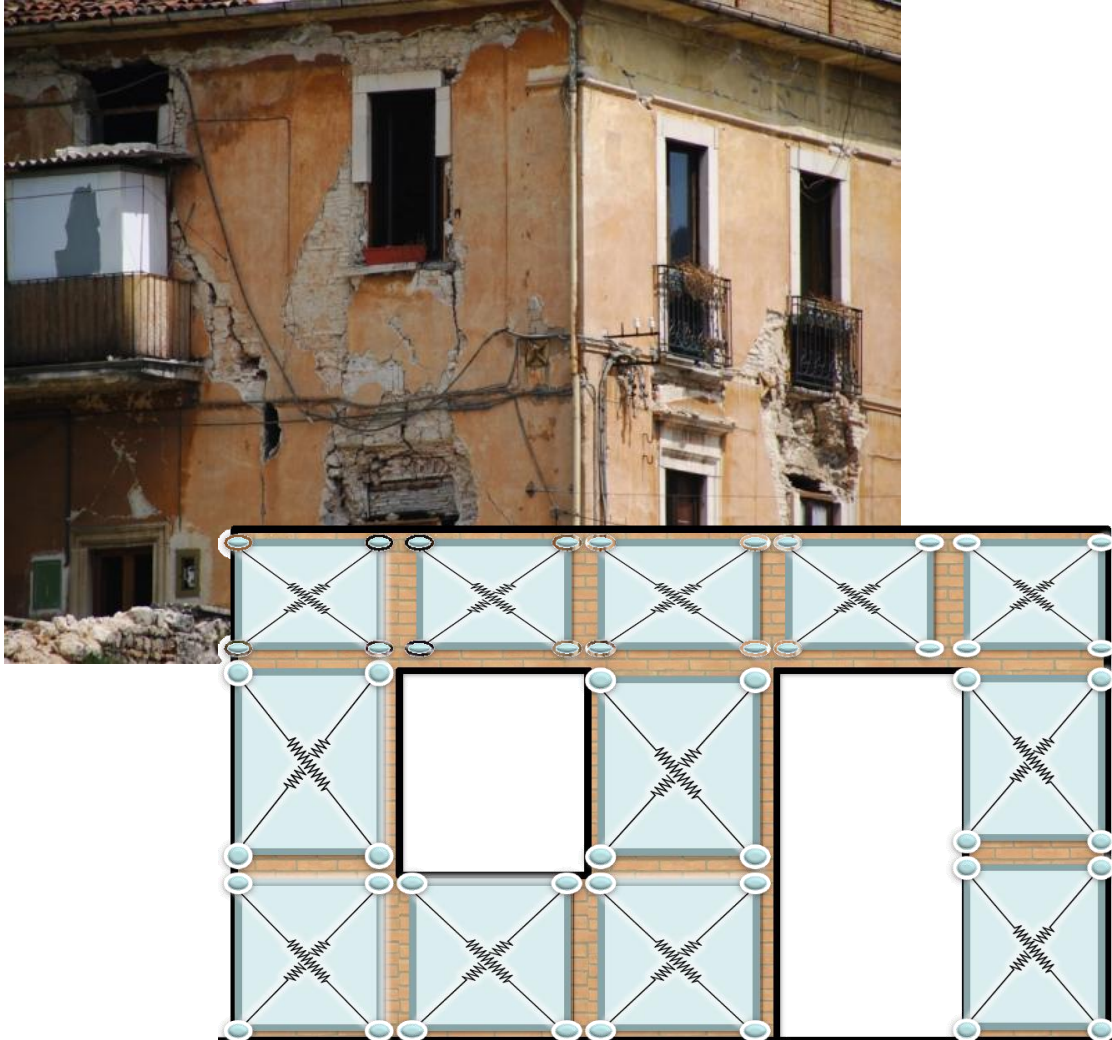


Springs state

	Elastic
	Plasticized, crushed or cracked
	Collapsed



3DMacro Macro Elements

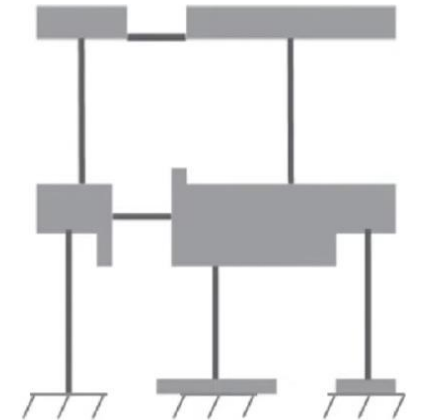
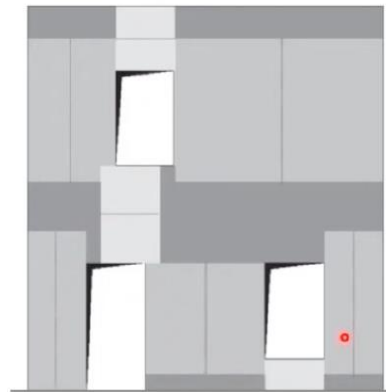


VS

Other Software Elements

Simplified Macro-model

The equivalent frame model is currently the most used in the engineering practice. A plane masonry walls is represented by an equivalent nonlinear frame

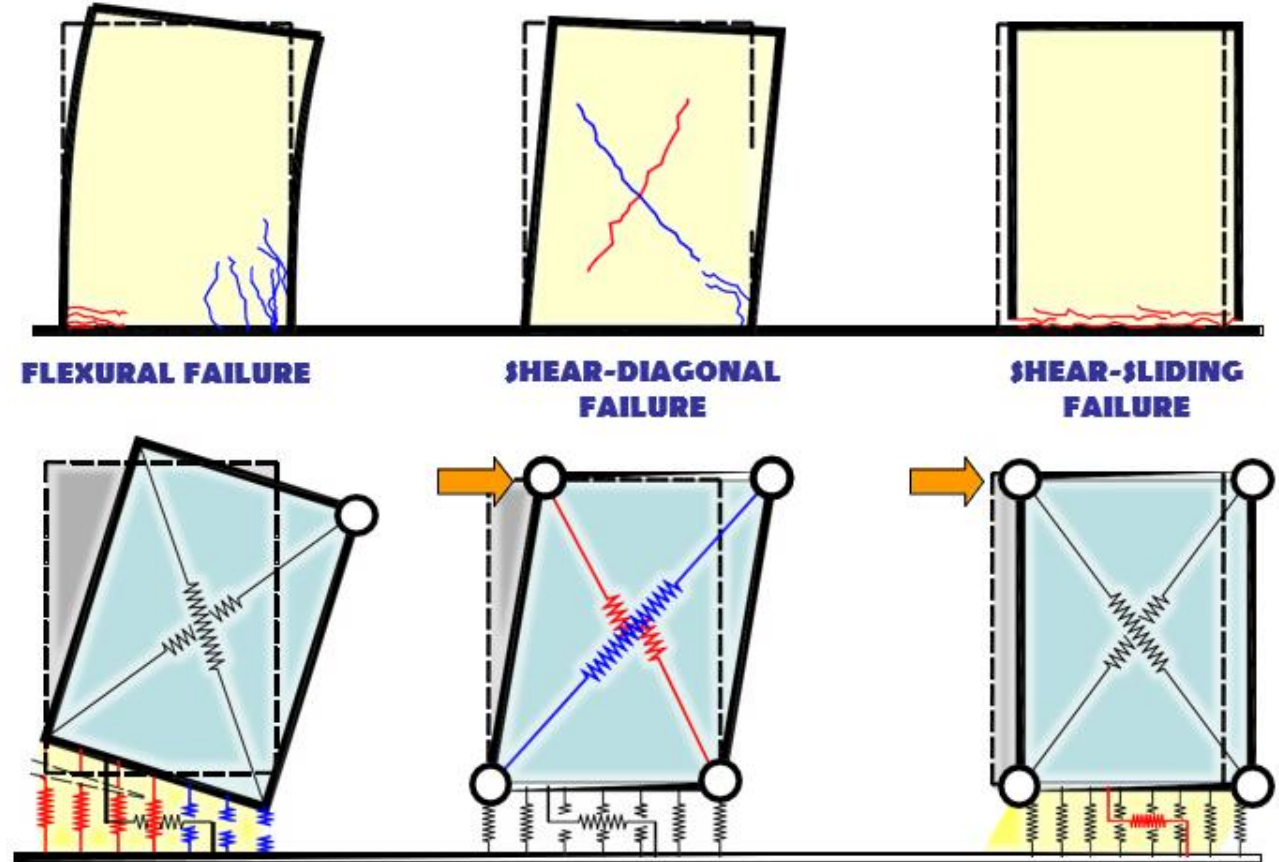
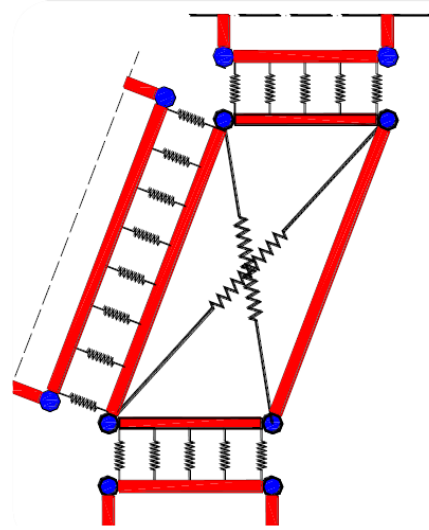


(Lagomarsino et al. 2013)

Articulated quadrilateral

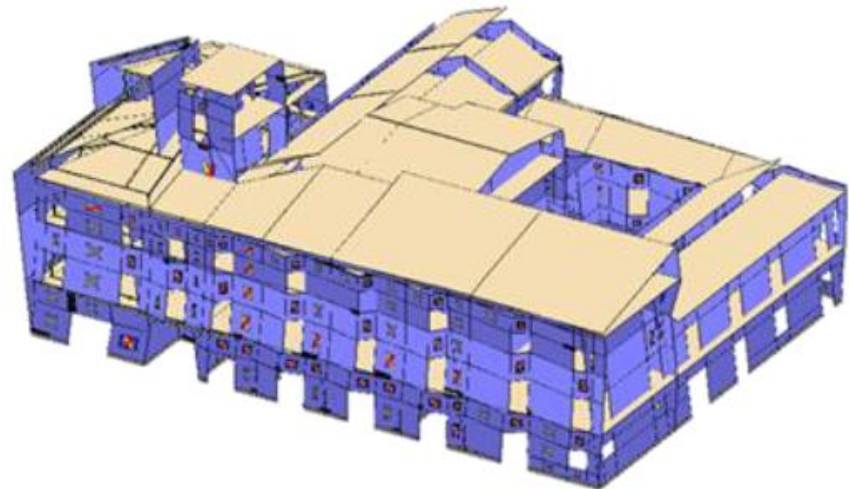
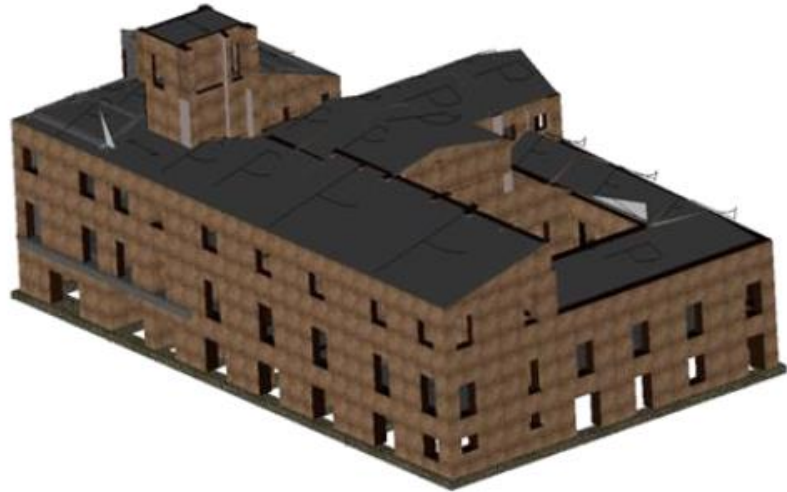
Two diagonal NLinks

A discrete distributions of Nlinks
which connect the adjacent elements

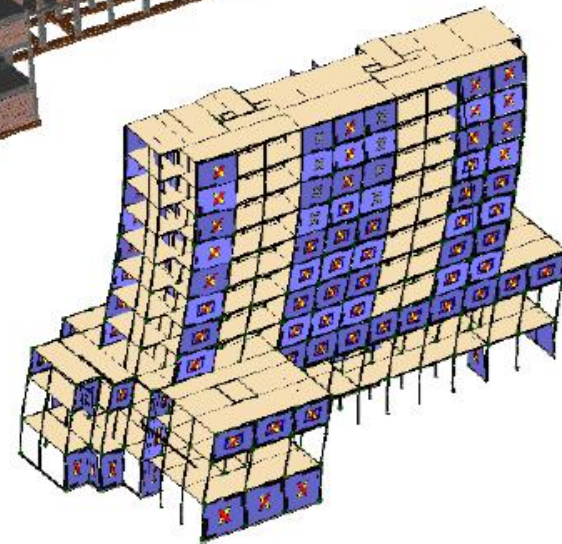
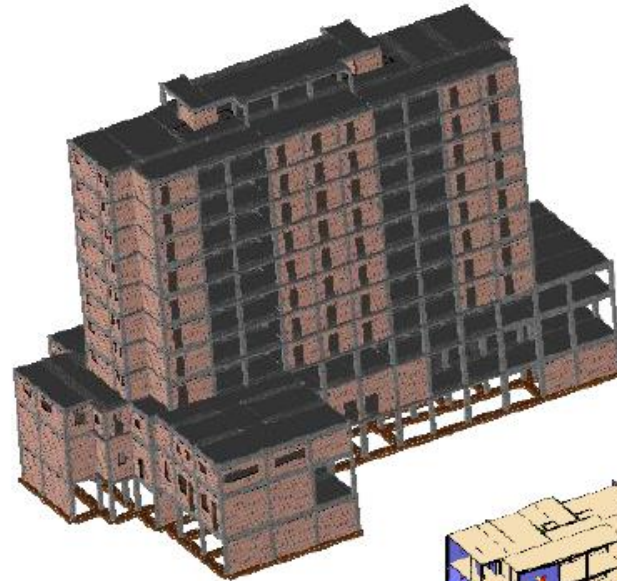




3DMACRO
FOR EXISTING BUILDINGS



URM Historical Building



Reinforced concrete building
with non-structural infills