

Urbanistica n. 134September-December 2007
Distribution by www.planum.net

Paolo Avarello	Planning the risk
	Problems, policies, and research
edited by Irene Cremonini, Adriana Galderisi	Seismic risk and urban planning process: towards the integration
Adriana Galderisi, Scira Menoni	Risk, prevention and urban planning
Scira Menoni	Vulnerability analysis in the historic centre of Salò
Catia Amadori, Irene Cremonini, Lucilla Sansavini	The test on a town of average size: Forlì
Carlo Lazzari, Sandra Vecchietti	The experimentation in the historical centres of San Piero and Santa Sofia
Massimo Olivieri	Urban vulnerability studies in Montone (Perugia)
Anna Arvanitaki	The historic centre of Nafplion: urban vulnerability assessment
Andrea Ceudech	Systemic vulnerability and seismic risk in the historical town of Naples
	Projects and implementation
edited by Mirella Fiore, Marichela Sepe	Vesuvius: risk or development? Safeguard and integration of the resources
Francesco Domenico Moccia	A propulsive profile for the prevention and mitigation of natural risk
Amilcare Troiano	The strategies of planning of the National Park of the Vesuvius
Carlo Gasparrini	Living with a volcano: the real risk lies in not having planning perspective
Carlo Gasparrini	Representing Vesuvian territory
Marichela Sepe	Decongestioning and revitalisation: the OSP as opportunity for sustainable development
Francesco Russo	Procedure for the approval of the operative strategic plan (OSP)
	for the vesuvian area
Manlio Ingrosso	The OSP juridical requirements
irella Fiore, Cinzia Panneri, Antonino Pardo, Paolo Sacco	Awards to urbanism and prospective interventions. The two operative sides of the plan
Clementina Chieffo	Local development support policies
Ettore Cinque, Andrea Mazzella	The OSP economic and financial approach
Davide Geneletti, Alberto Pistocchi, Stefano Bagli	The OSP strategic environmental assessment
Mirella Fiore	The plan of the Park of Vesuvius. The confrontation with a mutable and varied territory
Roberto Gambino	A national park in a metropolitan context
ntonio Di Gennaro, Gaetano Di Pasquale, Leonardo Filesi	On the analysis of environmental resources
Antonino Pardo, Paolo Sacco	Role and contents of the strategic projects
Cinzia Panneri	Landscape unit and structural systems. The regulative components of the pla
	Profiles and practices
Giovanni Allegretti, Daniela Anceschi	The Structural plan for Dicomano 'bridging'
Giovanni Allegretti, Francesca Rispoli	Towards the participatory construction of a Regional law on participation
Giovanni Caudo	Paper houses: the new housing question
Giovanni Caudo -	Houses at affordable prices: the evolution of social housing in Britain
Simonetta Armondi, Paola Briata	Evaluating territorial development projects, a modest unorthodox proposal

Methods and tools

What's up-to-date in Cesare Chiodi's theories on city planning and what's not?

The territorial responsibilities of Italian multiservice public utilities

North-Western Platform: 'Sit-Ins' as tool for territorial governance

Graziella Tonon

Luca Fondacci

Umberto Janin Rivolin



The experimentation in the historical centres of San Piero and Santa Sofia Carlo Lazzari, Sandra Vecchietti

The experimentations carried out for the Sisma project involved the historical centres of San Piero and Santa Sofia, two settlements in the province of Forlì-Cesena, on the Romagnolo Appennino (mountain area), on the border with Tuscany. Both have undergone the urban vulnerability and the exposure assessment (using regional methods) and the seismic behavioural study of the building aggregates.

The first assessments aid in defining the strategical choices (along with the set up of the Rehabilitation plans), for the preservation policy and enhancement policy of the public spaces. The second (the seismic behavioural study), in the rehabilitation plans, aims at 'guiding' the building transformation with rules and regulations which integrate the preservation of historical heritage along with seismic strengthening. The study has three elements: 'critical' survey, guidedesign, rules and regulations.

The experimentation has used the survey methodology (for the aggregates) introduced into the Rehabilitation plans financed by the Emilia-Romagna Region during the Nineties. The experimentation has improved the methodology, adapting it to the specific context. The surveys are carried out through visual examination of every part of the building, distinguishing the certain elements from the hypothetical ones. The survey includes: geometrical survey; structures and structural details survey; 'criticalstratigraphical survey' (which regard the traces left by the historical

development of the building and the urban fabric); survey of discontinuity between buildings and within the buildings themselves; survey of state of preservation, cracks and failures: each of these surveys produce specific information for the knowledge of buildings' and aggregates' vulnerability. The 'historical' techniques of structural strengthening have also been studied, like for example: chains, corner reinforcement, insertion of internal walls, etc. These techniques have been applied on a wide scale after the earthquakes in 1918: they are easily applicable, have a noninvasive effect on historical buildings and have proved efficient in successive seismic events. Maps and documents of the Tuscan Cadaster (1826) in the two aggregates in via Verdi and in via Gentili have been used to compare the layout and size of buildings before the earthquakes in 1918 with the current ones. The most important modification carried out consisted in the demolition of the top floor in some buildings, by order of the Surveyors department (Genio civile). The intervention on the urban fabric and building heritage inside the historical centre are determined by the rules and regulation specific to each and every building. There are general rules and regulations included in the urban plans (Piani strutturali comunali) and detailed rules in the guide-design for the improvement of seismic behaviour in building aggregates. The guide-design deduces the way in which seismic damage occurs from the 'critical survey' (starting from the lack of the connections produced by the historical development of buildings

and urban fabric).

Furthermore it identifies

(through rules and graphical representations) the

consequent technical measures in order to reduce both direct and induced vulnerability. The guide-design represents, both in the plans and in the façades, the requirements which are necessary to satisfy in the rehabilitation design of the single buildings. The requirements are: the improvement and safeguarding of morphological and structural regularity; the improvement of the organisation of the system which can resist to seismic actions; the increase of structural resistance. The designer must take into

The designer must take into account these requirements and carry out the necessary verifications. Design solutions which are different to those proposed in the guide-design may be adopted, but it is necessary to demonstrate that these solutions do not damage the adjacent buildings and that the requirements defined in the guide-design are inexistent.