From The Ruin
To The Re-Birth
Design of a functional parasite

P4 Presentation
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Gibellina Vecchia 1968
L’ Aquila 2009
L’Aquila

+ Neither abandoned nor reconstructed

+ completely different scenario if compared to previous cases of reconstruction of historical city centers in the Italian territory
Ranking shore

wall plates

bracing supporting structure

needle brace, firmly bolted
to wall plates

wall hooks

top raker

footing plate
Riding shore

10/93

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bottom raker
top raker
riding shore
bottom raker
Structural chains with compressive beams
Dead shore
Historical strong earthquakes in L’Aquila
Aquila plan, 1703, Engineer Tian
### Survey on strongly damaged buildings

<table>
<thead>
<tr>
<th></th>
<th>Impracticable buildings</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>E</td>
<td>F</td>
</tr>
<tr>
<td>Red Zone, Historical city center</td>
<td>1.567</td>
<td>288</td>
</tr>
<tr>
<td>Other urban zones</td>
<td>2.289</td>
<td>274</td>
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<tr>
<td>Paganica</td>
<td>645</td>
<td>36</td>
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<td>Poggio di Roio</td>
<td>451</td>
<td>68</td>
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<tr>
<td>Arischia</td>
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<td>142</td>
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<tr>
<td>Other fractions</td>
<td>1.854</td>
<td>432</td>
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<tr>
<td></td>
<td>7.124</td>
<td>1.240</td>
</tr>
</tbody>
</table>

*E- Impracticable buildings

*F- Impracticable buildings for external causes*
L’ Aquila, October 2016
L'AQUILA

SCALE 1:2000

SPORT CENTER

FORTE SPAGNOLO
Historical castle

SANTA MARIA PAGANICA
Project site

FONTANA LUMINOSA
City monument

UNIVERSITY OF L'AQUILA

DUOMO CHURCH AND SQUARE
Principal church and square of the city

PATH OF THE FORTIFICATION WALL
Former defense of the city

CORSO VITTORIO EMANUELE
Main axes of the city center

VILLA COMUNALE
Public building

UNIVERSITY OF L'AQUILA
L’ Aquila, October 2016
Villages and settlement
Green
Damaged places

Historical city center
Built interventions
Planned interventions
New Town of Paganica
“Permanent” shoring up represented on Google Maps
New fundamental functions of the city assure a continuous flow of people in the city center.

The city center is easier to repopulate if there is evidence of its use.

A building is truly preserved only when it is in use. Having a function means to be useful, be important, worthing the effort to be preserved.
SANTA MARIA DEL SUFFRAGIO (detta delle Anime Sante) [Cod. m 11]

SANTA MARIA DELLA CONCEZIONE - PAGANICA (AQ) [Cod. m 40]

SANTA MARIA DELLA CROCE [Cod. m 42]

SANTA MARIA DI PAGANICA [Cod. m 9]
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set of rules/ functions:

+ Maintain the intervention as much as possible confined in the interior space of the former church.

+ Design spaces related to the re-appropriation of the city by the former inhabitants.

+ Design a building capable to change function and appearance according to the immediate needs of the city.
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Architectural Engineering
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A place of reflection
A place of interaction
foundation hidden under the original floor of the church
foundation above the original floor of the church
pillars
A place of flexibility
From The Ruin  P5 Presentation Architectural Engineering To The Re-Birth
Reflection
Thank you!