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May 6–10 2012  
Rome, Italy

## What Future for our Past? The Task of the Surveyor for Cultural Heritage Preservation

Geom. Paola Ronzino



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## Preservation and conservation

Multidisciplinary task

Combination of investigation and detection technologies with historiographical approach

Increasing importance of surveyors in the field of Cultural Heritage



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## Role of the surveyor in preservation and conservation of CH

- Employee of the Superintendence for Cultural Heritage
- Manager of construction companies for monument restoration
- External consultant




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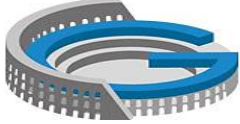


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## Survey of Cultural Heritage

- Survey and geo-referencing
- Cadastral maps updating
- Monitoring of health status of ancient buildings
- Structural check
- Mapping of the re-use of architectonic elements
- Map of deteriorations
- Survey of building materials



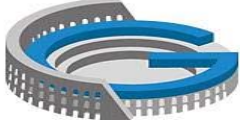


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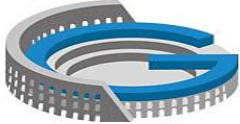
### The case study: survey of Altilia Saepinum

Surveyors of the College of Campobasso province  
Superintendence for Archaeological Heritage of Molise region

*Aerial photography*

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### Altilia Saepinum

*Cardus*

*Decumanus*

[www.san.niti.info](http://www.san.niti.info)

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*Basilica*



*Termal building*

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*Decumanus*



*House with atrium watershed*

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Theatre



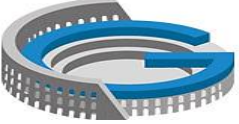
Houses built on the Roman cavea

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### Aim of the project

- Promote valorization actions through the use of technology
- Enhance communication capabilities of the system
- Encourage re-organization intervention

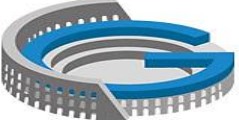
Team of surveyors worked in close collaboration with the archaeologist of the Superintendence

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### Methodology


- Preparatory analysis for detecting architectural components and the archaeological site
- Systematic survey of the structures with GPS (n. 4) and TLS(n.3)
  - 10 surveyors
  - 10 days of field work
  - 20 days for data processing
  - 1000 point
  - 7 *Capisaldi* (Ground Control Point)
- Georeferencing
- Cadastral map update

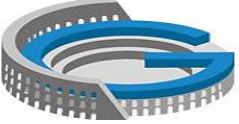


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### Monography of a Caposaldo

Punto Fiduciario		16/0350/618	
 Ufficio Provinciale di CAMPOBASSO		Sportello di Comune di SEPINO	
Comune: SEPINO	Foglio: 035	Allegato: 0	
Sezione:	Particella: 278		
Coordinate UTM	Quota s.l.m.	UTM-WGS84	
X: 27213,543	Nord:	Nord:	
Y: 52635,204	Est:	Est:	
Origine:	Fuso:	Fuso:	
Attendibilità: 55	Attendibilità: 01	Q. elev.:	
Rilasciato da: Planimetrico: SPG OVEST FABBR. Altimetrico: PIANO DI CAMPAGNA			


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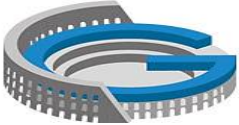



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## Methodology

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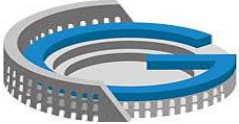





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## Output

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**Output**

- 1 - Mura
- 2 - Porta Tammara
- 3 - Cardo
- 4 - Testro
- 5 - Sepolcro di P. Numisius Ligus
- 6 - Porta Bisano
- 7 - Terme del Decumano
- 8 - Decumano
- 9 - Edificio lungo il decumano
- 10 - Basi di fontane
- 11 - Edificio di culto
- 12 - Miscelutari
- 13 - Basilica
- 14 - Tribunale
- 15 - Aula absidale
- 16 - Nave presso la basilica
- 17 - Fori
- 18 - Aula (Comizo?)
- 19 - Aula (Curia?)
- 20 - Tempio
- 21 - Aula del culto imperiale
- 22 - Terme di Silvano
- 23 - Fontana del grifo
- 24 - Aula di culto (?)
- 25 - Aula
- 26 - Fontana
- 27 - Arco di L. Nereus Priscus
- 28 - Casa dell'insoluto sannitico
- 29 - Edificio industriale
- 30 - Edificio lungo il decumano
- 31 - Porta Benevento
- 32 - Sepolcro di C. Ennius Manus
- 33 - Porta Terravecchia
- 34 - Complesso presso porta Terravecchia
- 35 - Complesso presso porta Benevento
- 36 - Complesso presso porta Tammara

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The growing interest and the high number of visitors and cultural events in this Roman city, very well preserved in its constitutive elements, imposes to the government to consider Altilia as a central pivot of the Archaeological Superintendence programs and one of the great cultural attractions where the aim is to build good tourist-cultural itineraries:

1. Permanent exhibition on the Roman walls of Sepino
2. Permanent exhibition about the evolution of Greek and Roman military technology
3. Reconstruction of the Roman kitchen and its continuity.



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### Closing remarks

- Emphasize the role of the surveyor in the protection of the territory.
- The multidisciplinary nature of this work is increasingly common in Italy.
- The "technical" work of the surveyor is integrated with the "humanistic" one of the archaeologist.
- Ensuring data long-term preservation
- Data reuse
- Solid base for future researches

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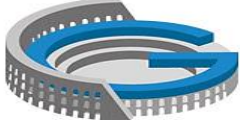



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## Closing remarks

- The effort of the surveyors in documenting accurately the territory enables making people aware of the patrimony scattered in the territory and enhance its knowledge.
- This leads to a better understanding and to a sustainable use of the territory.
- Thanks to the multiplicity of his skills the surveyor provides the public administration with the basic tools which enable them to develop strategic plans for good land governance.

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## Thank you for your kind attention

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