

INESC TEC
TECHNOLOGY & SCIENCE
| ASSOCIATE LABORATORY

COORDINATED BY
INESC PORTO
PORTUGAL



Rui Rodrigues

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Information Systems and Computer Graphics Unit - INESC TEC

INESC TEC | November, 2014

Research and Technological Development | Technology Transfer and Valorisation | Advanced Training | Consulting
Pre-incubation of Technology-based Companies

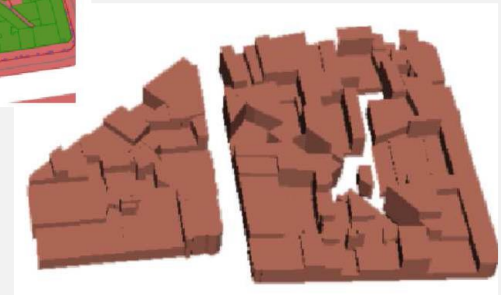
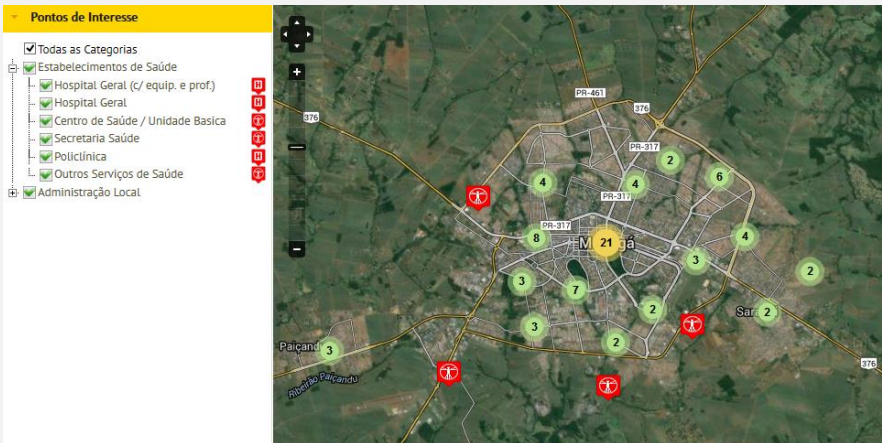
Some topics and their beginning in the unit

- 1981: Graphics Hardware (Prof. Nunes Ferreira's PhD)
- 1985: Computer Graphics Group at INESC Norte (later USIG, later CSIG)
- 1990: Rendering (Augusto Sousa), Reverse Rendering (António Costa)
- 1990: Intuitive 3D modelling (Vasco Branco, João Paulo Pereira)
- 1995: Geographics Information Systems (Aurélio Pires)
- 2000: Procedural Modeling (António Coelho)
- 2004: Visualization (Alexandre Carvalho)
- 2009: Serious Games (António Coelho, Rui Rodrigues)
- 2012: Online virtual worlds (Leonel Morgado)
- 2012: Multisensorial virtual environments (Maximino Bessa, Rui Rodrigues)

Disclaimers:

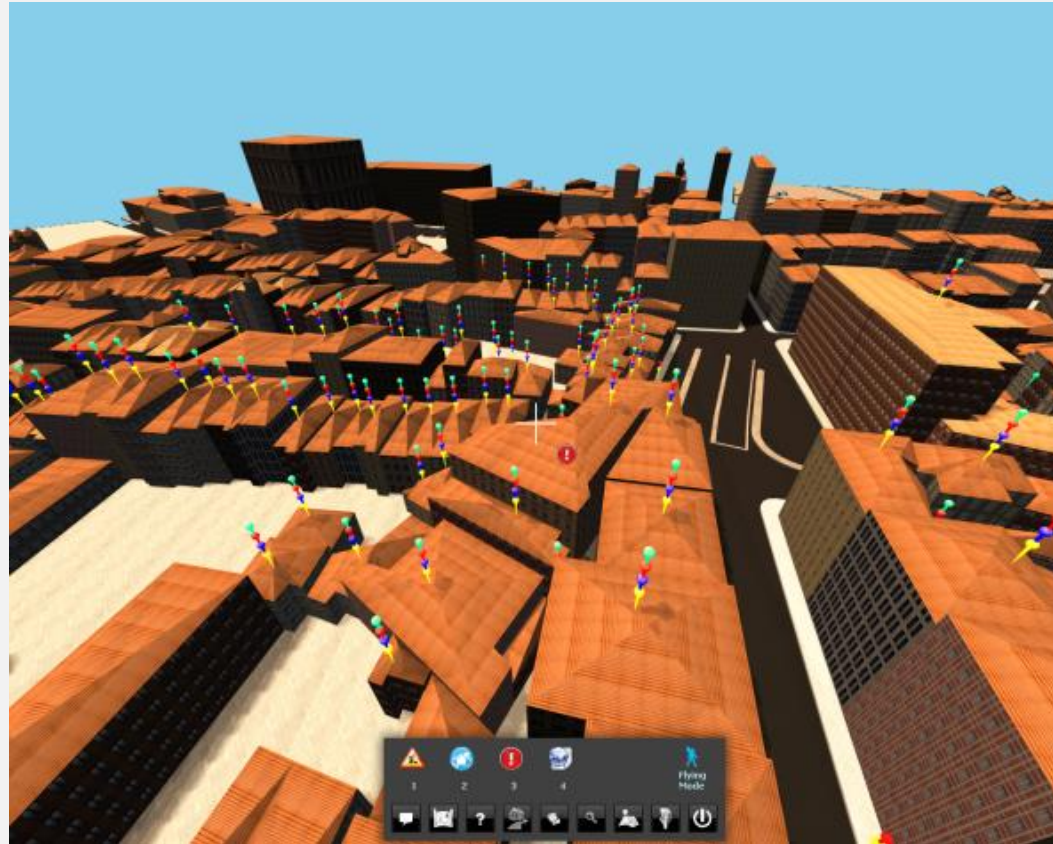
- Approximate dates
- other people involved
- prior work from researchers outside the unit

Geospatial Systems / GIS

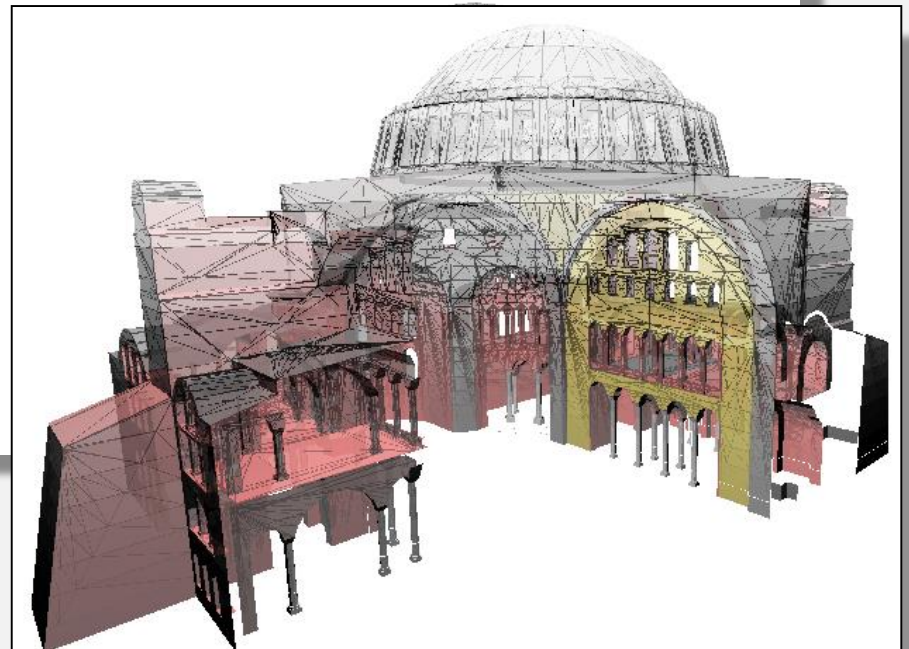
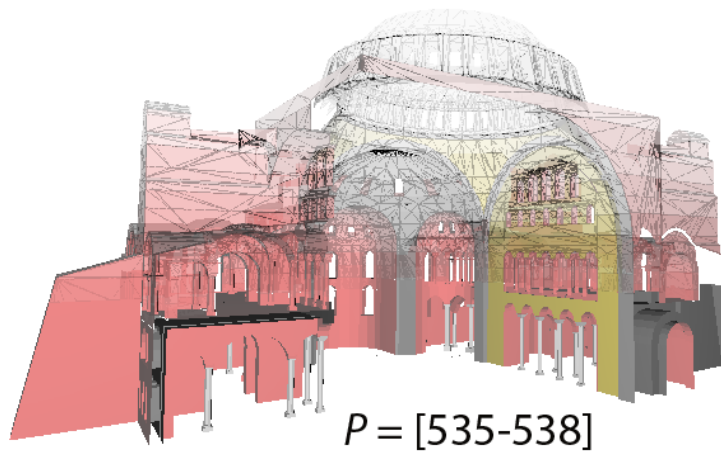
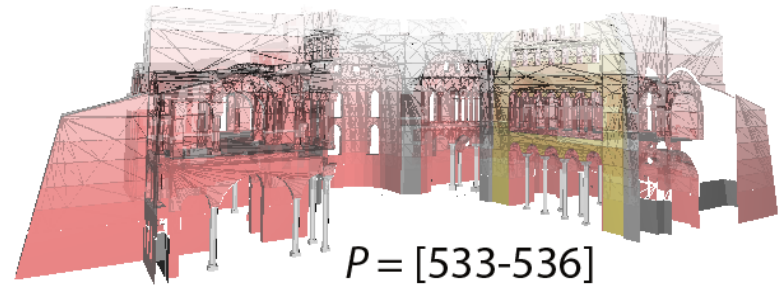
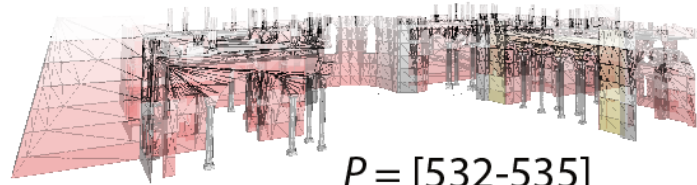


Procedural modeling

- Ex: 3DWikiU – 3D Wiki for urban environments

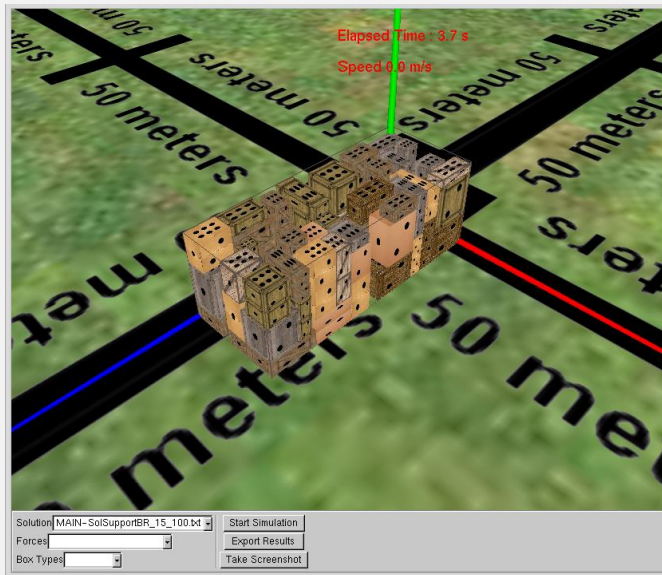


Visualization



Simulation

- Ex.:
 - StableCargo – Dynamic simulation and visualization of cargo forces
 - Multiuser Air Force Simulator



Interaction

- Ex: Real Motion-based control of avatars for training, therapy, health and fitness evaluation, leisure, ...



Game Design and Development (including Serious Games)

- Ex: Games for teaching, training, rehabilitation...

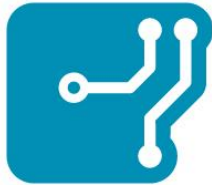


Virtual and augmented reality

Multi-sensorial experiences

- Ex.: MASSIVE





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