

Department of Mathematics  
Faculty of Mechanical Engineering  
Slovak University of Technology in Bratislava



2<sup>nd</sup> International Conference  
*APLIMAT 2003*

# Virtual Bratislava

## CYBER CITY & VIRTUAL HABITAT

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# **Virtual Bratislava**

## **Cyber City & Virtual Habitat**

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**Bratislava, February 7, 2003**

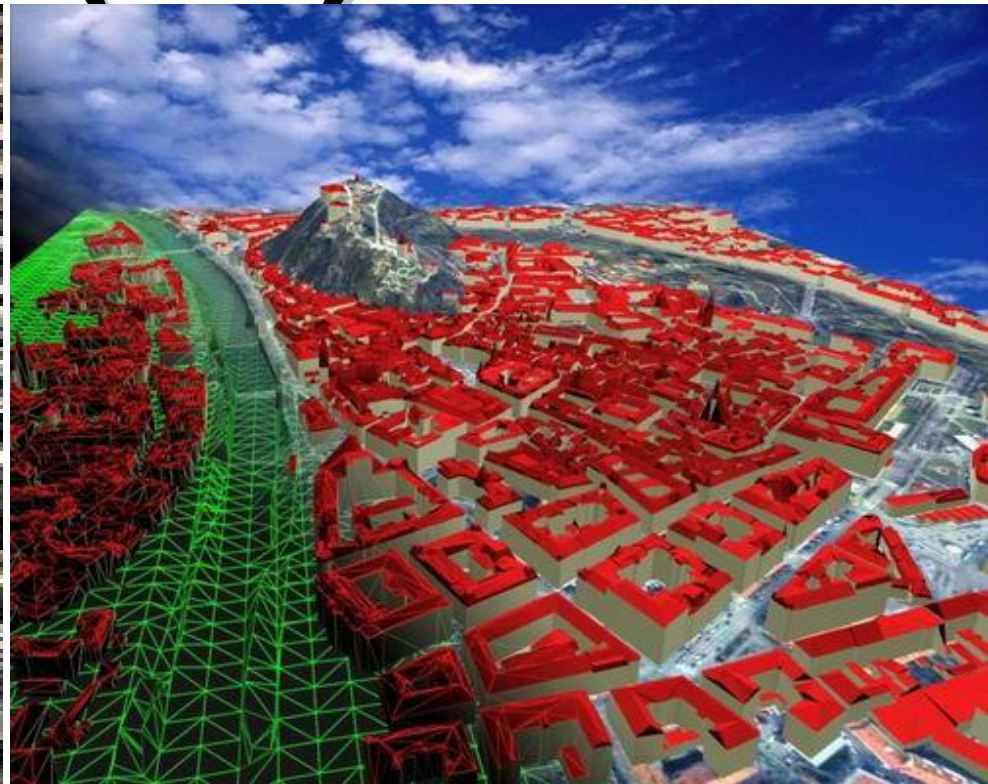
# Europe 2010

- **The Most Dynamic Knowledge based Economy**
- **Cyber Cities**
- **Web Pages**
- **Semantic Web (Tim Berners-Lee)**
- **New Way of Life**

# Bratislava ~1800



# Virtual (3D) Bratislava



**Bratislava 2D, Graz 3D, ...**



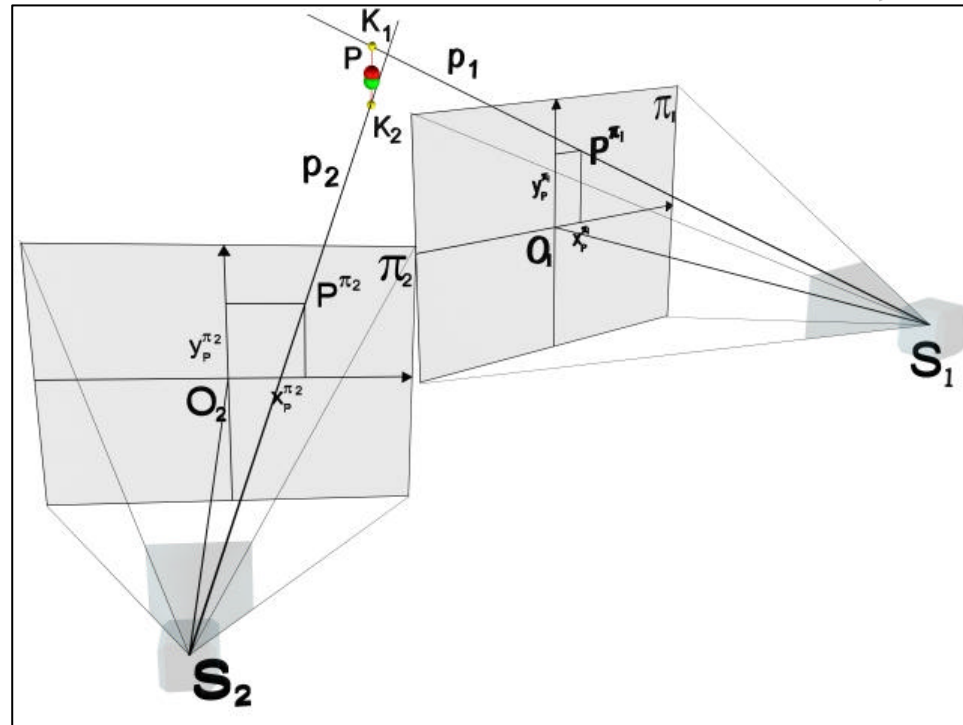
# Virtual (3D) Bratislava

- APVT Project, 900 KSK/500 KSK
- Related Projects:
- VEGA ~ WWW
- Culture 2000 ~ Cultural Heritage
- STRAPAMO ~ InfoVis (MM Database)
- Virtual Habitat (VRVis) ~ Virtual Graz
- APVT for young researchers

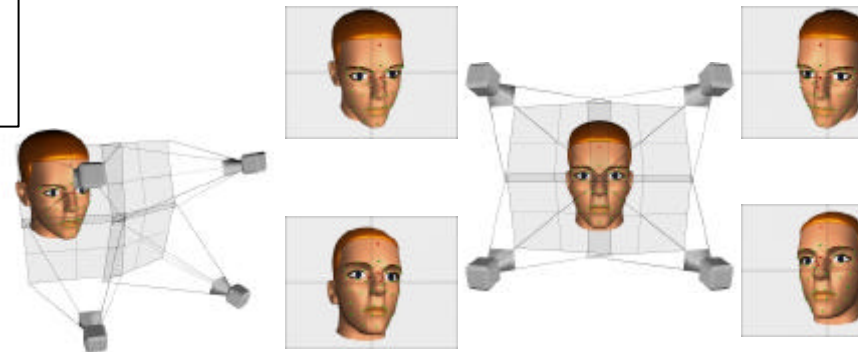
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# One Image, Epipolar Case, Trifocal Tensor, Four Cameras...

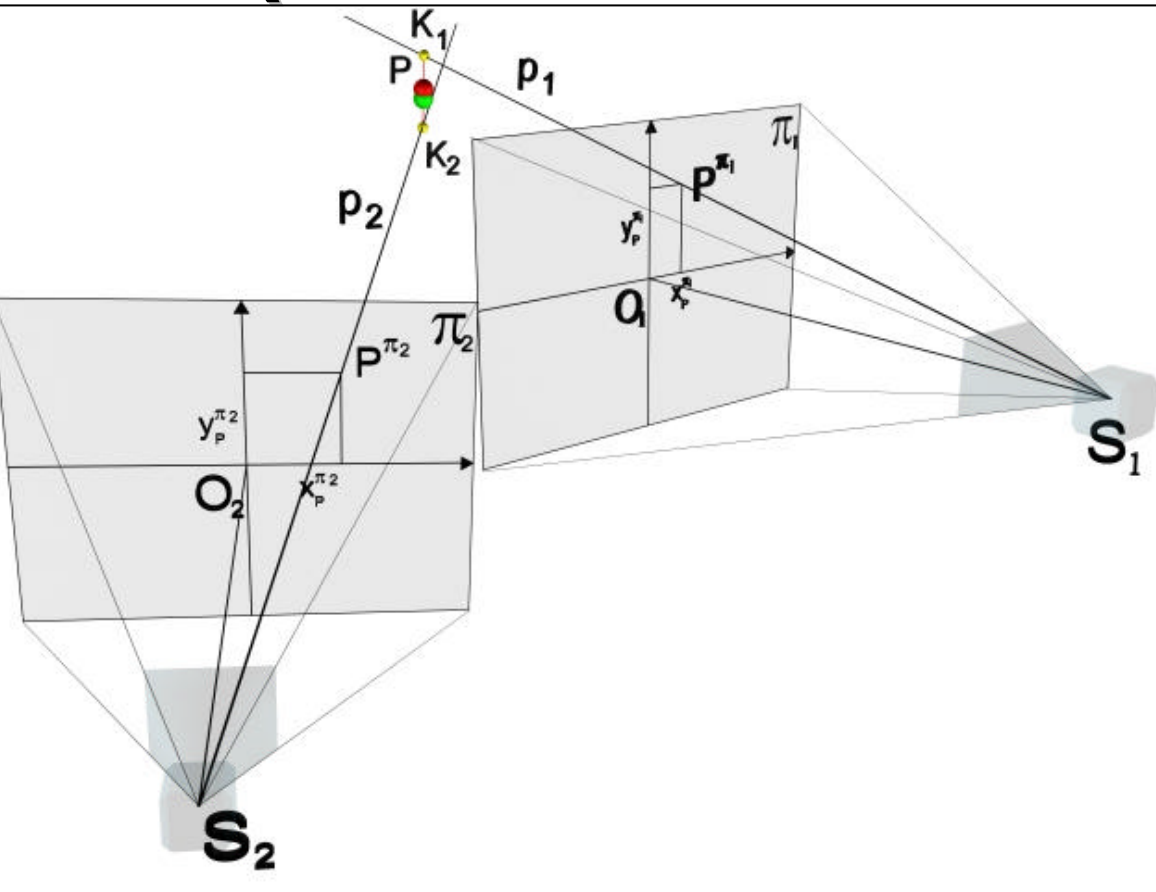


- Most Common Use - Epipolar Geometry:
  - line
- Trifocal Tensor:
  - point





# Prof. Markus GROSS, ETH (SCCG Budmerice 2002)



on:



# **Virtual (3D) Bratislava**

- **Ortofotomapa (PHARE CBC Project)**
- **Terrestrial Images**
- **Stories**
- **3D Reconstruction**
- **Virtual Habitat (VRVis)**
- **Problem**

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**THANK YOU FOR YOUR  
ATTENTION**

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