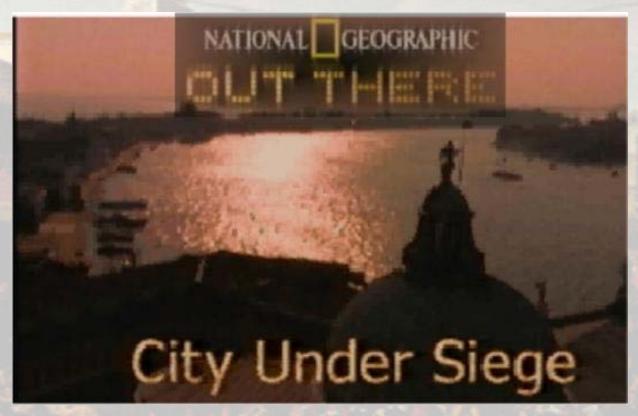


Recognition 8/2003 SCICIL CO 10/2003



National Geographic Video



Channel:
Series Title:
Program Title:
Aired around the world:

National Geographic Video Out There City under Siege 2002-today



5 IQP Areas

- Environment
- Art
- Socio-Economics
- Urban Maintenance
- Miscellaneous

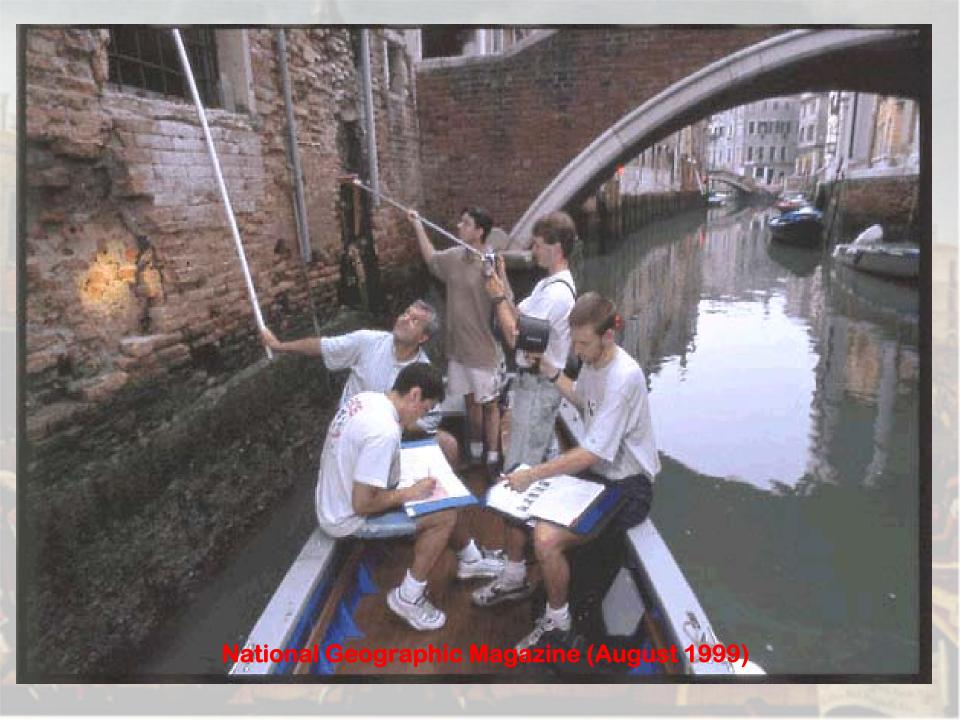


The VPC was the first to catalog all

sewer outlets
discharging into the
canals

Sewer Outlets

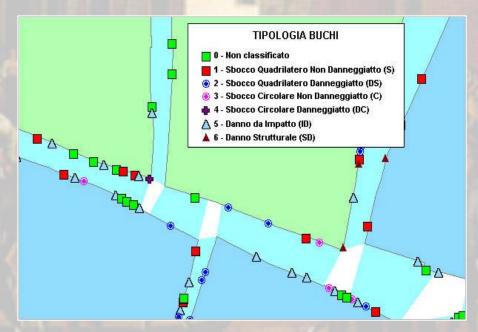


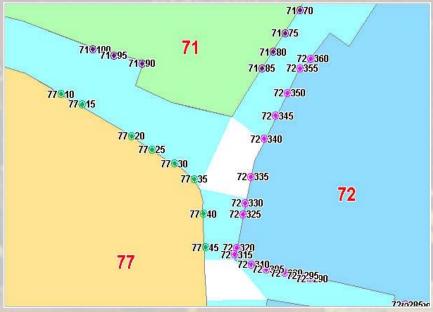








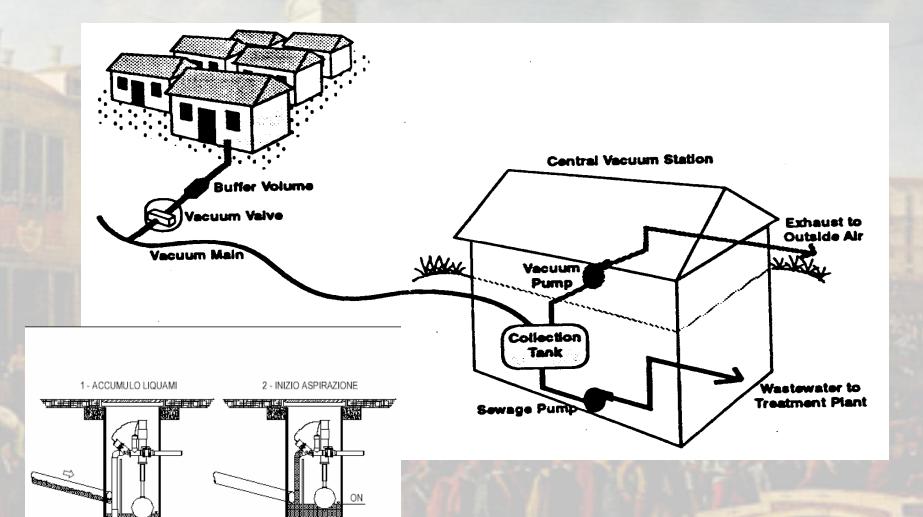




The VPC identified a solution to Venice's sewer problems by proposing the first

Vacuum Sewer System for Venice

Vacuum Sewers



I liquami scaricati dalle utenze confluiscono per gravità

all'interno dei pozzetti di interfaccia, a seguito

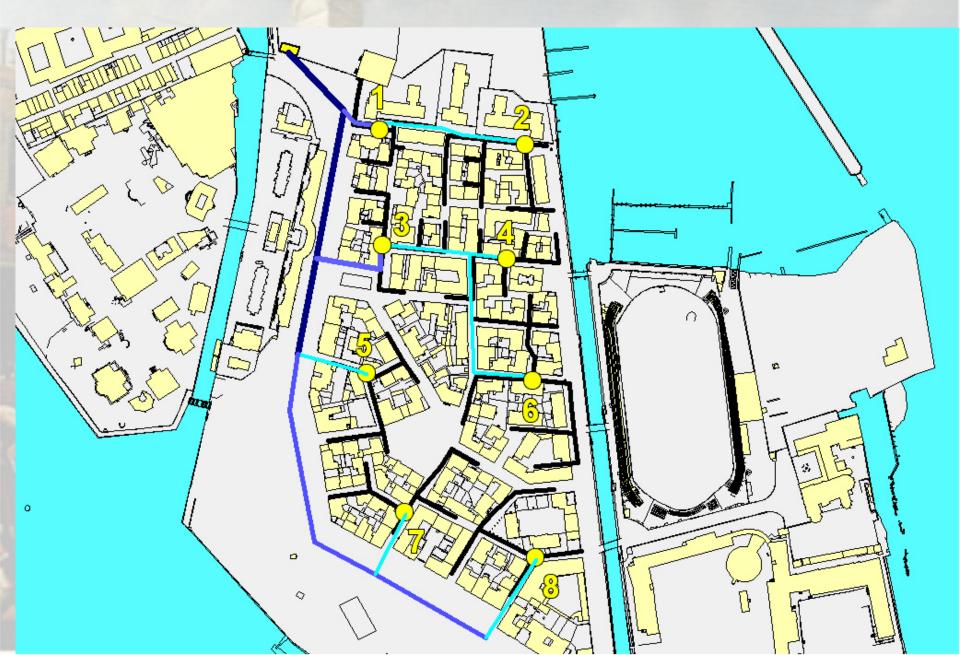
dell'accumulo il livatlo si atza.

Quando viene raggiunto il livello massimo di accumulo,

l'attivatore a galleggiante comanda l'apertura della

1997 PROJECT OF THE YEAR AWARD

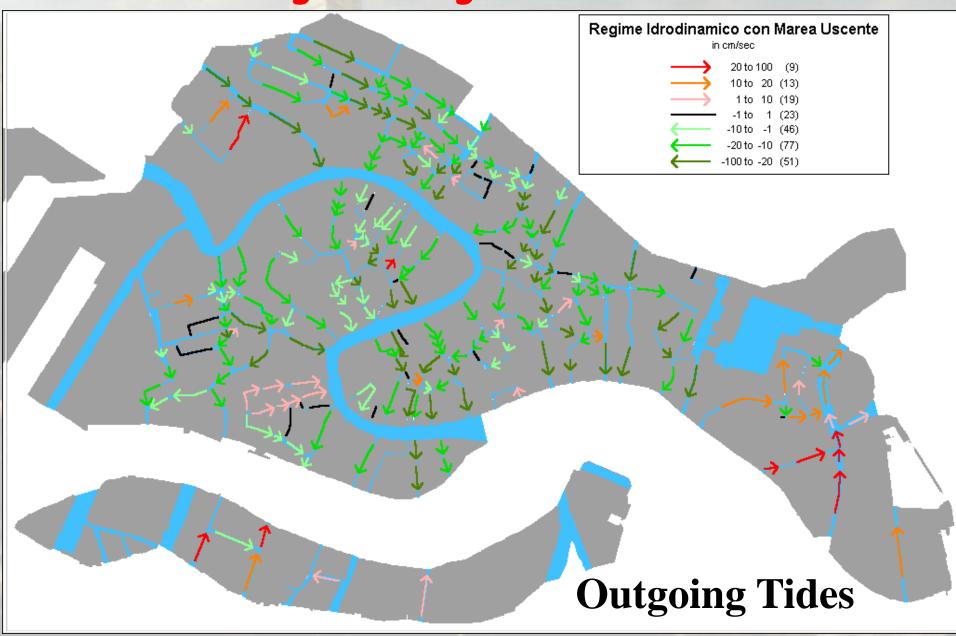
S.Elena Plan



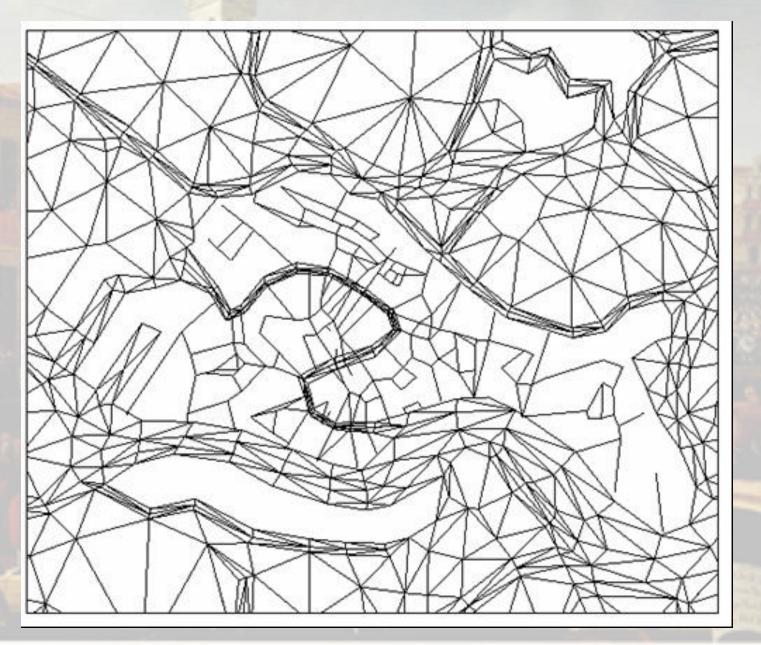
The VPC was the first to scientifically study the

Hydrodynamics of the canals of Venice

Hydrodynamics



Hydrodynamic Modeling



Other VPC Firsts

- 1. First tree inventory
- 2. First garbage recycling program
- 3. First map of lagoon biotopes
- 4. etc.



The VPC is the world authority on

Venetian Public Art, Churches and Belltowers



Statues



Crosses



Plaques



Roundels (patere)



Reliefs (rilievi)



Fragments



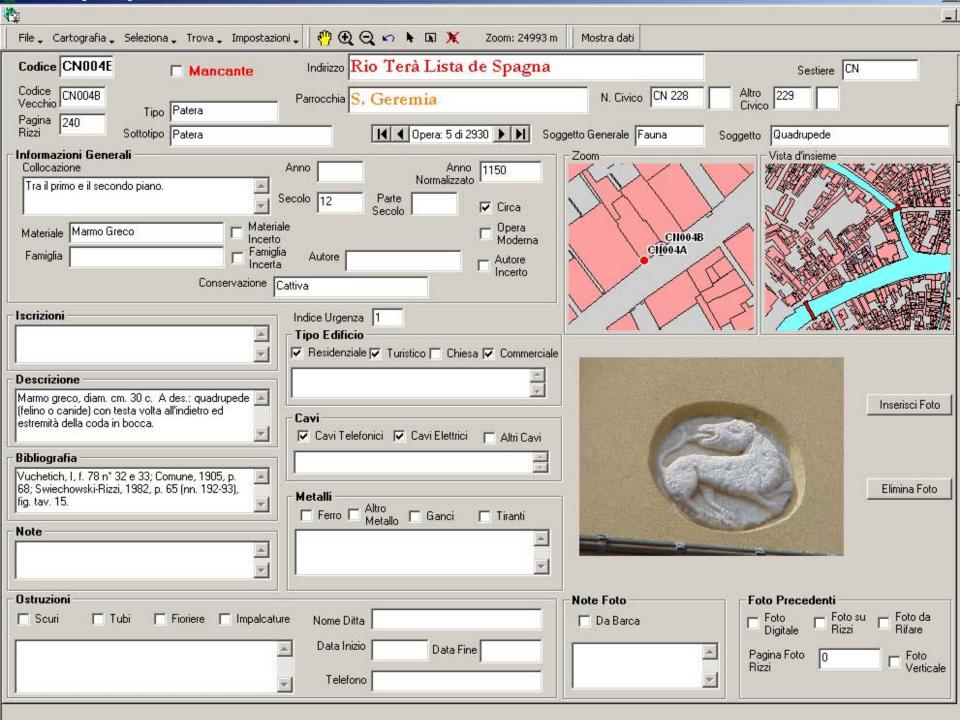
Coats of Arms (stemmi)



Logos (Simboli)

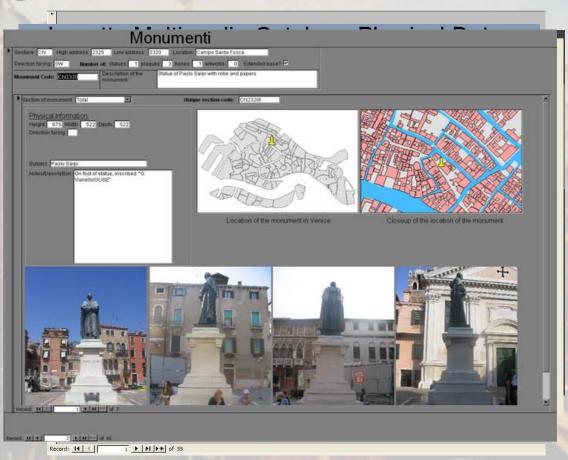


-ormelle



The WPI Public Art Catalogs

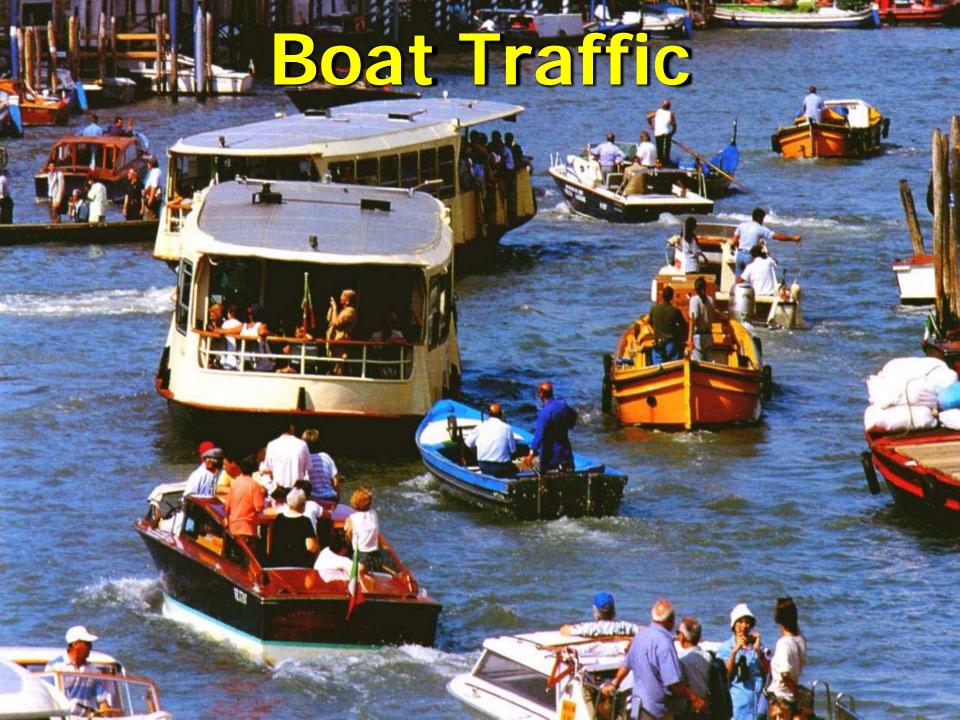
- 5 Public Art Catalogs
 - Erratic Sculpture
 - Wellheads
 - > Flagstaffs
 - > Lunette
 - Monuments
- Web-GIS



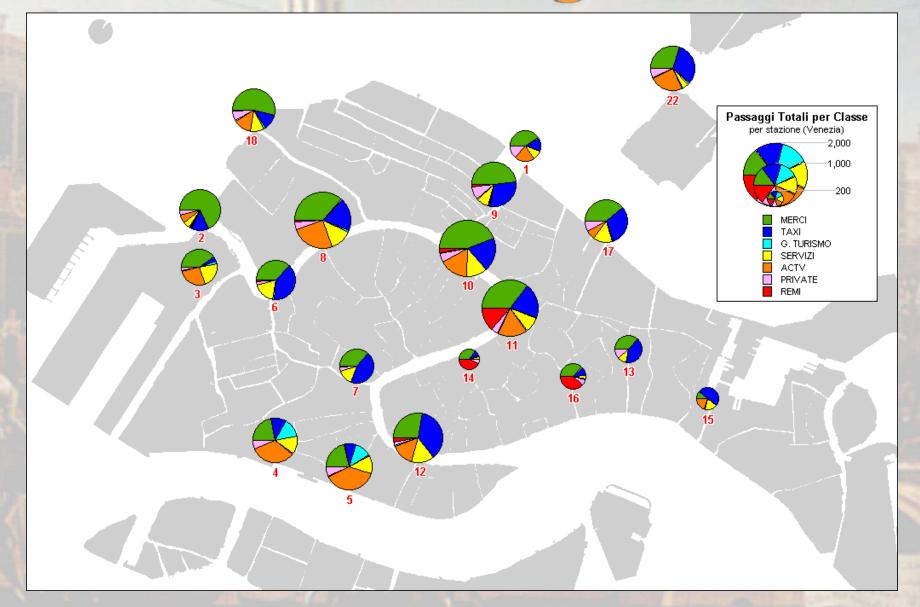


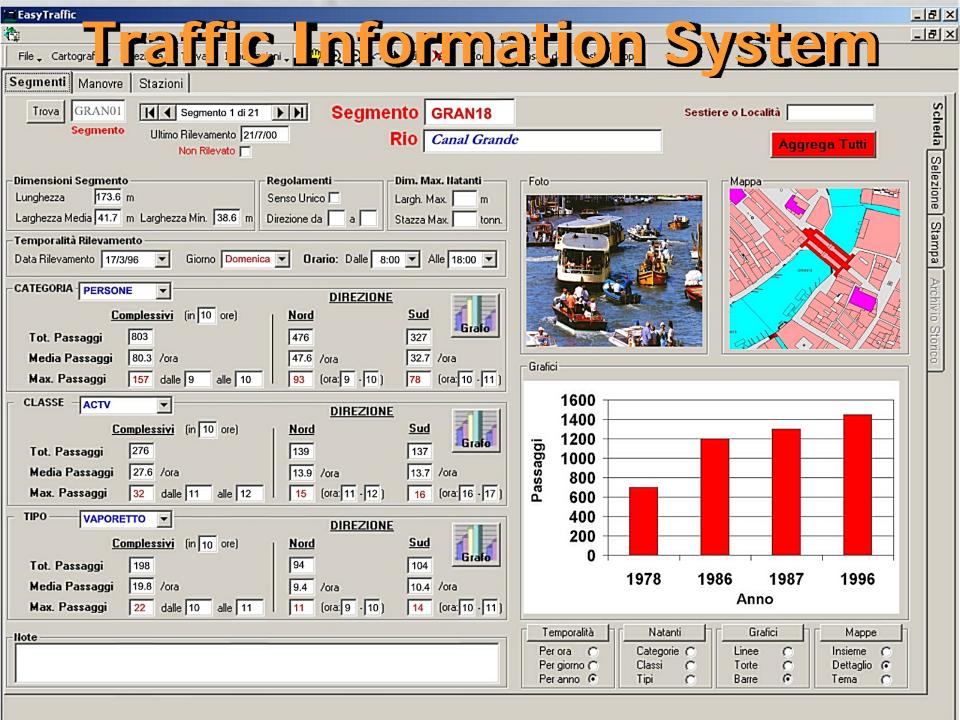
The VPC is the leading authority on

Boat Traffic in Venice



Traffic Counting Methods





Automatic Traffic Recording

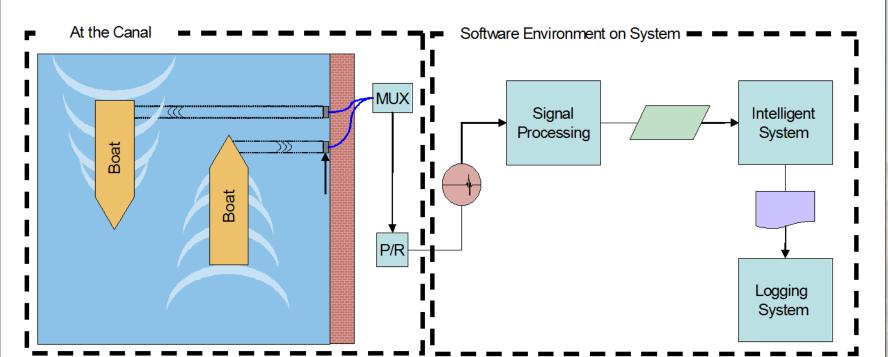


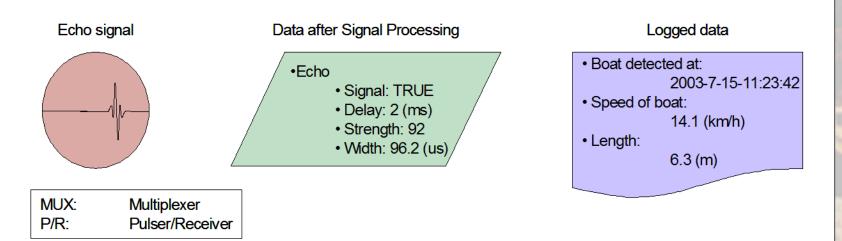


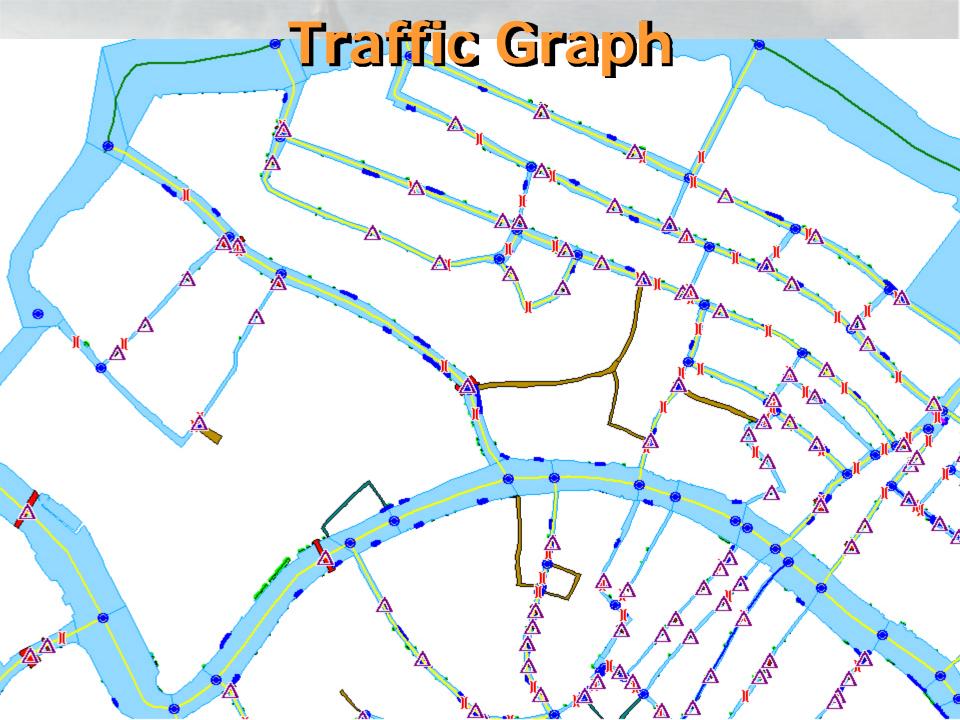
ıram

Ultrasound ATR

System Level Block Diagram

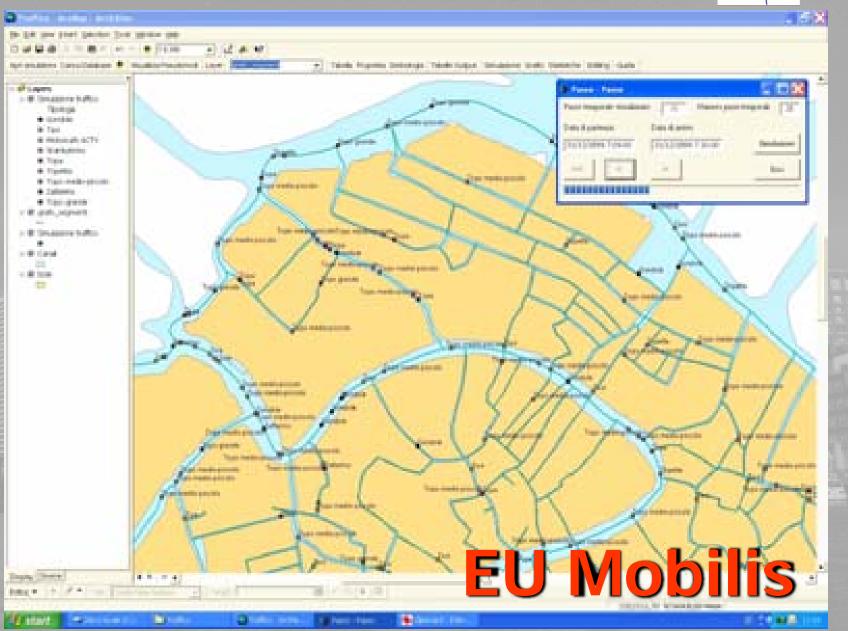






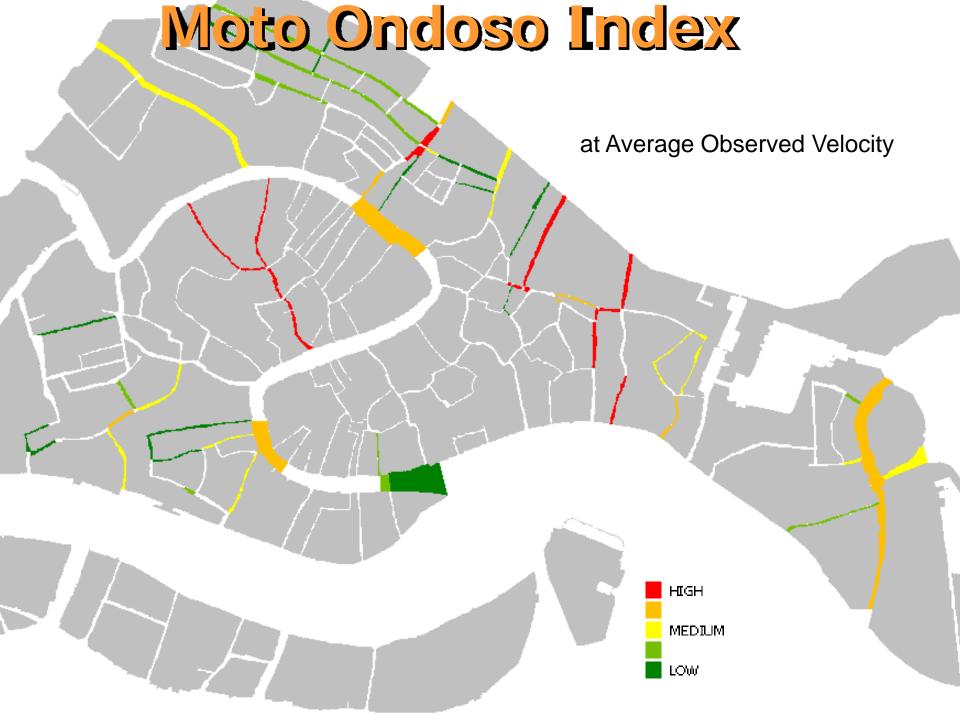
Traffic Model





The VPC is a leader in the fight against

Moto Ondoso (Wake Damage)



Turbulence Mapping

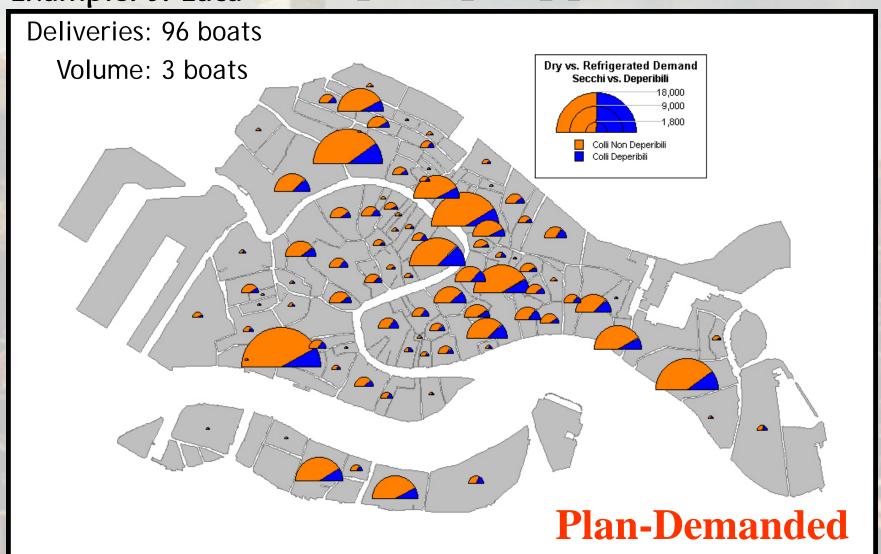


The VPC completely revolutionized the

Delivery of Goods in Venice

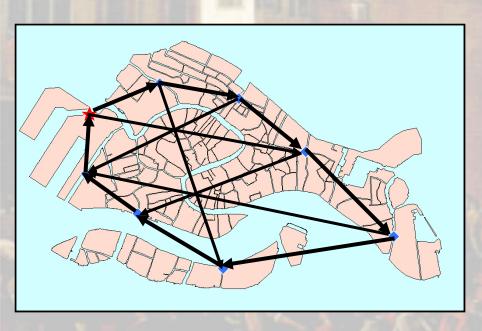
Example: S. Luca

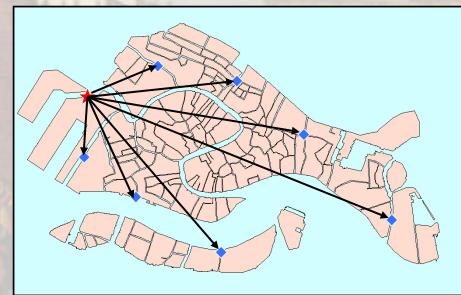
Deliveries



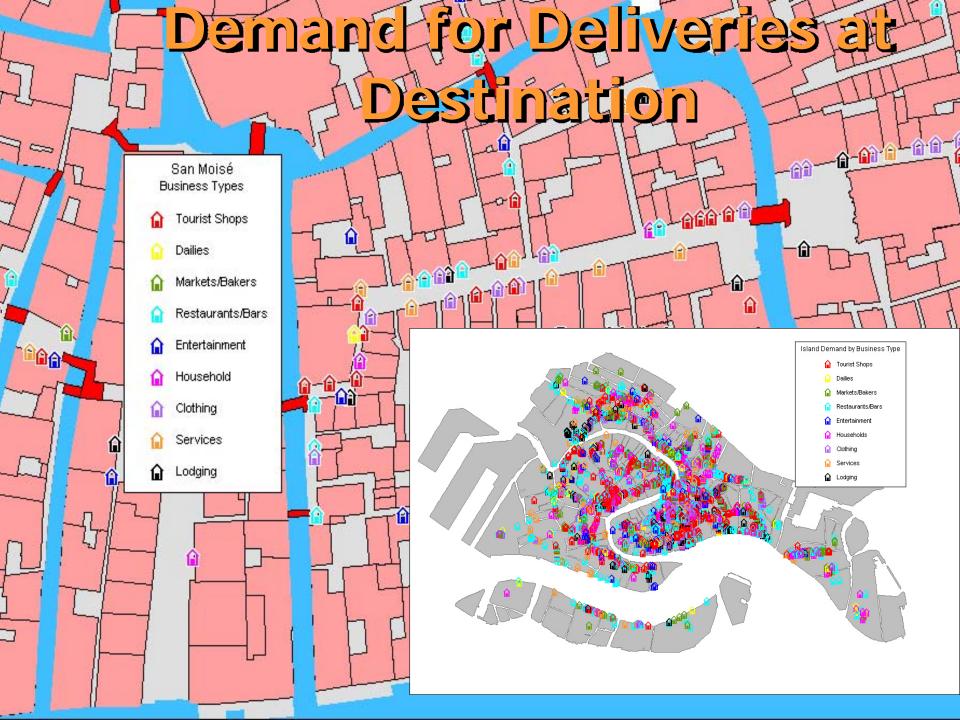
Dry vs. Refrigerated Goods

From deliveries "by Product" to deliveries "by Destination"

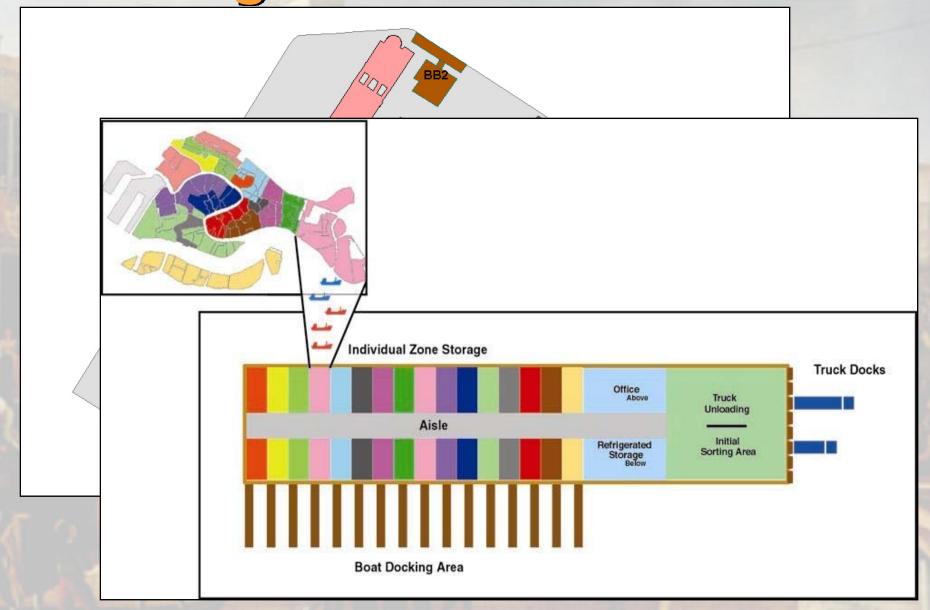




2001 "PROJECT OF THE YEAR" AWARD



Logistics Warehouse







The VPC is the world authority on

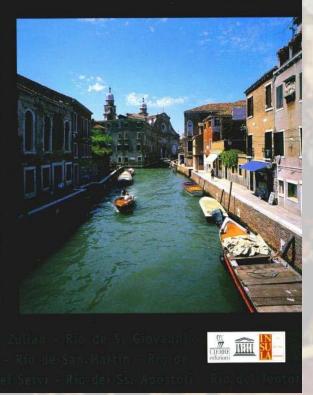
the Canals of Venice

Major book on Canals

Venezia la città dei rii

a cura di

Giovanni Caniato Fabio Carrera Vincenzo Giannotti Philippe Pypaert

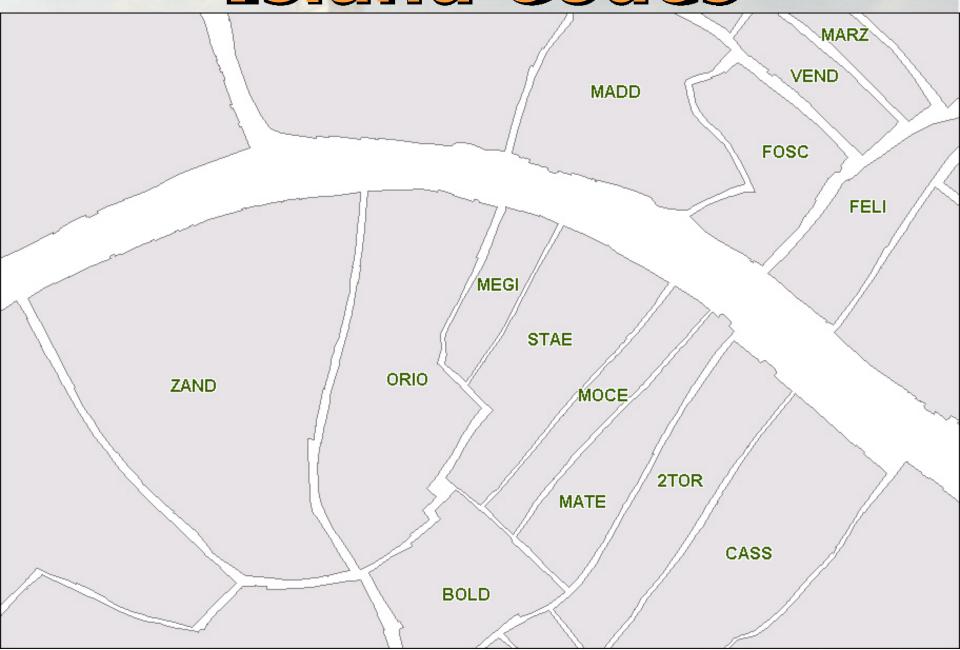


1999

The VPC developed the

Standard Referencing System for the Canals of Venice

Island Codes



Official Canal Names

Rio de S. Marcuola

Rio del Trapolin

Rio de S. Fosca

Rio de la Madalena

Rio de Noal

Rio de S. Felice

Rio de Ca' Tron

Rio del Megio

Rio de S. Zan Degolà

Rio Mocenigo o de la Rioda o de S. Stae

Rio de la Pergola o de Ca' Résaro

Rio de S. Maria Mater Domini

Rio de S. Giacomo dell'Orio de S. Boldo

Rio de S.Cassan

Rio de le Becarie

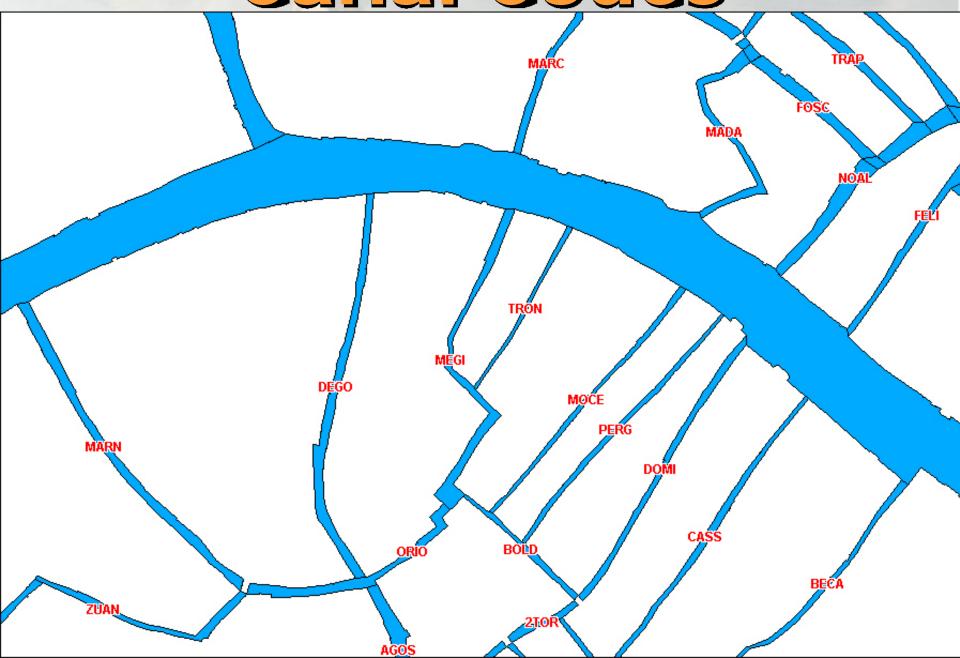
Rio de S. Zuane Evangelista

Rio Marin

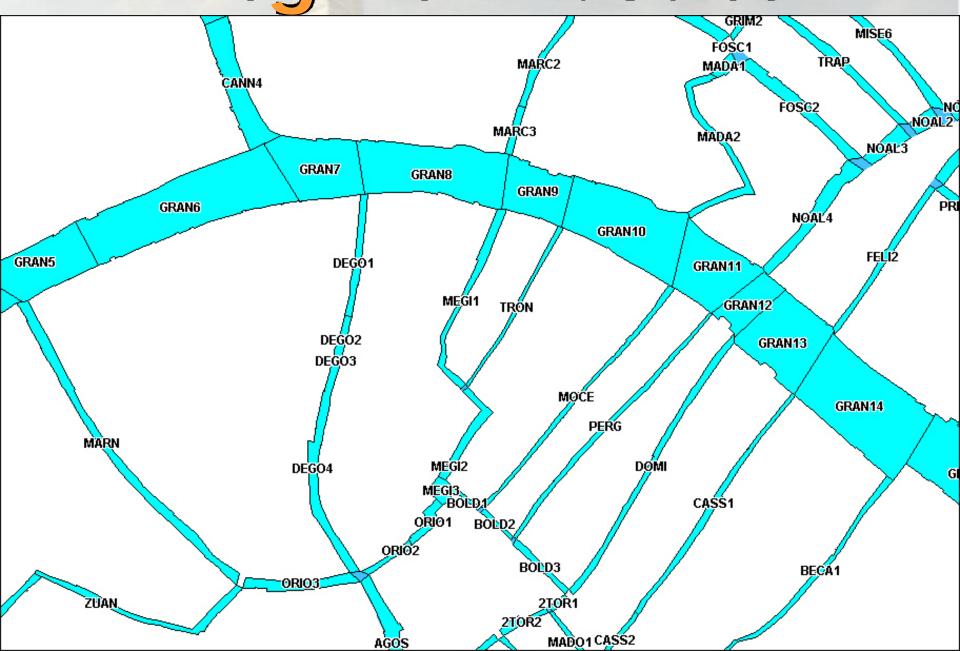
Rio de le:Do\Torre

Rio de S. Agostin

Canal Codes



Segment Codes



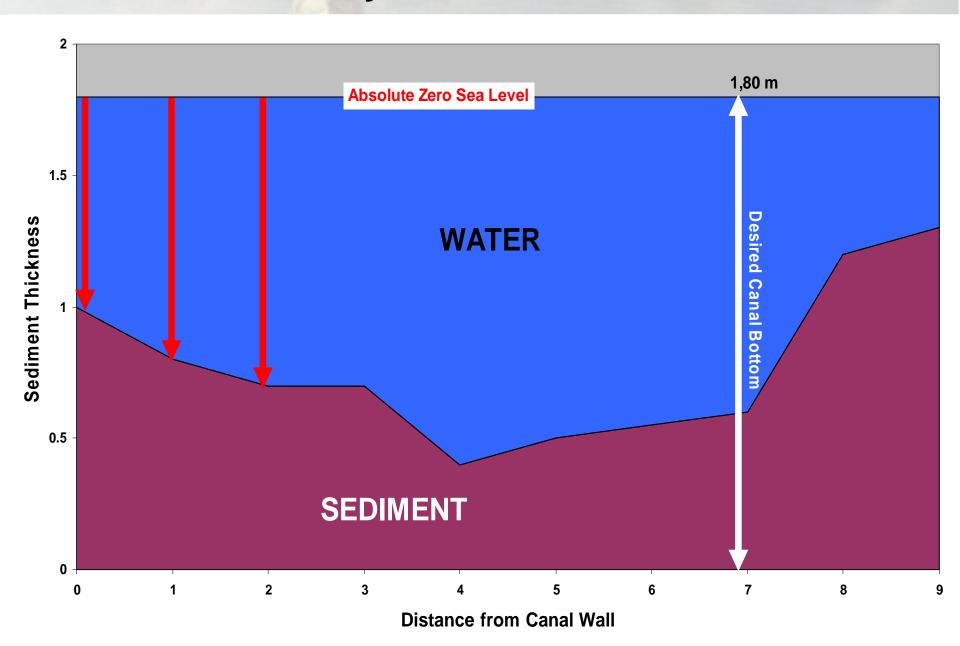
The VPC jumpstarted

the resumption of canal dredging in Venice (after a 30 year pause)

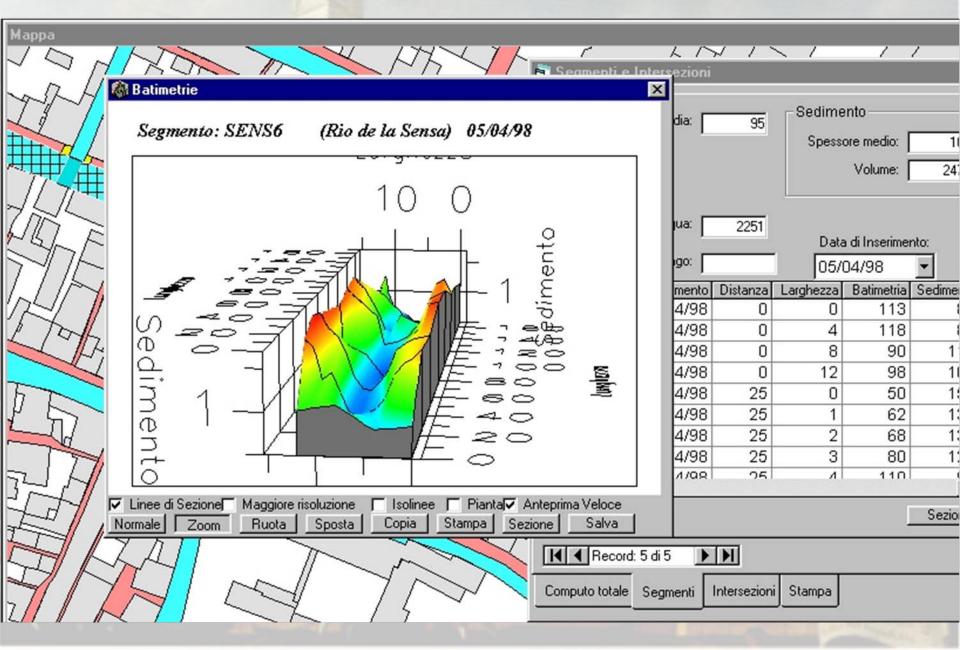
Canal Dimensions and Bathymetries



Best tyynest to Sectiopisigs

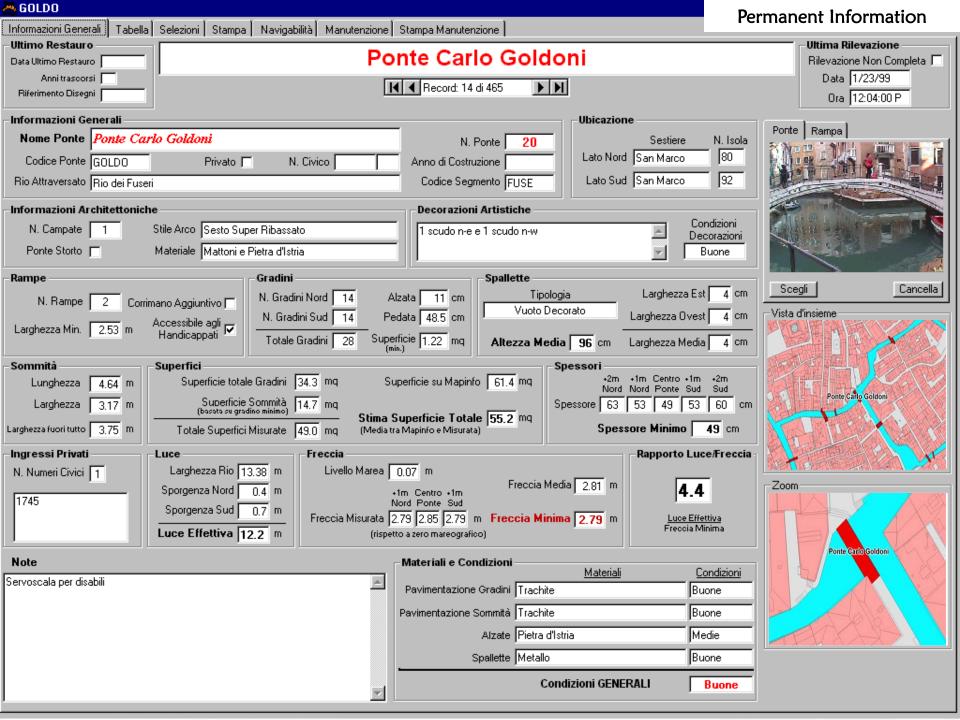


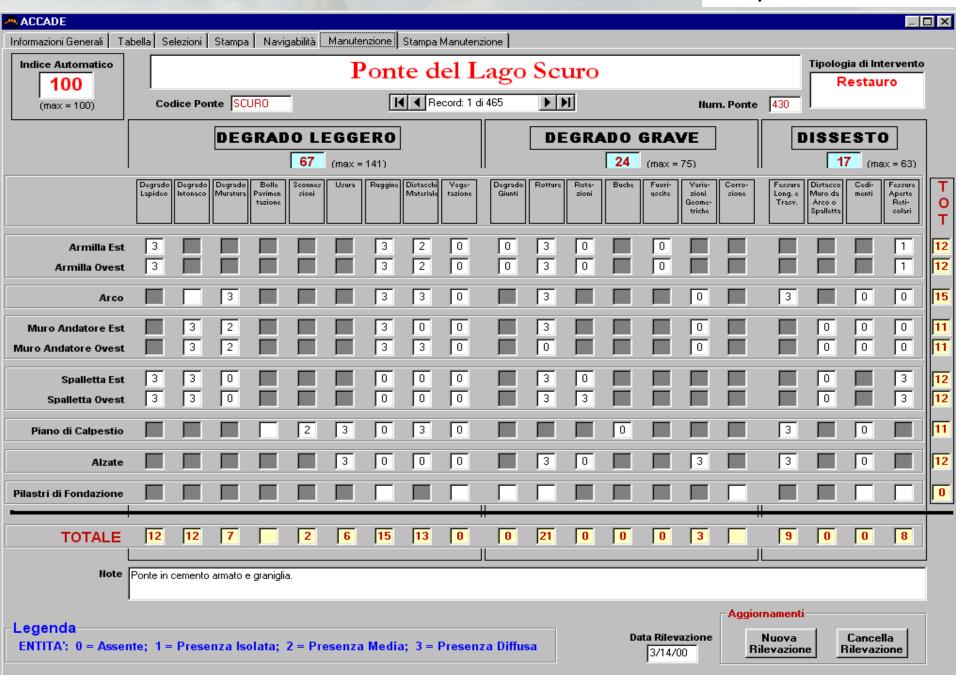
SmartInsula



The VPC made possible

the repair of all Venice Bridges (after a 30 year pause)

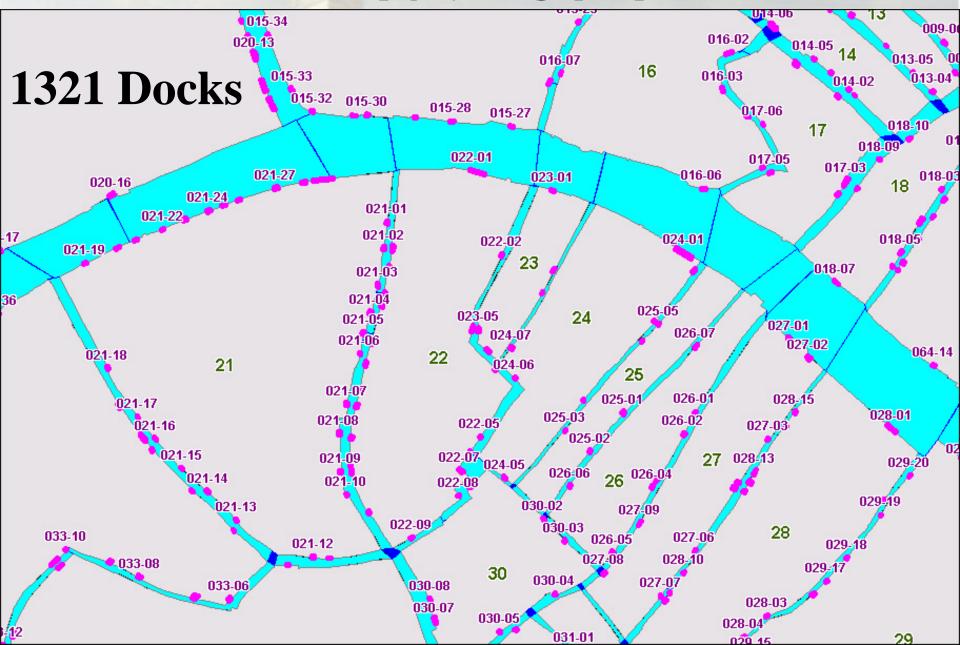


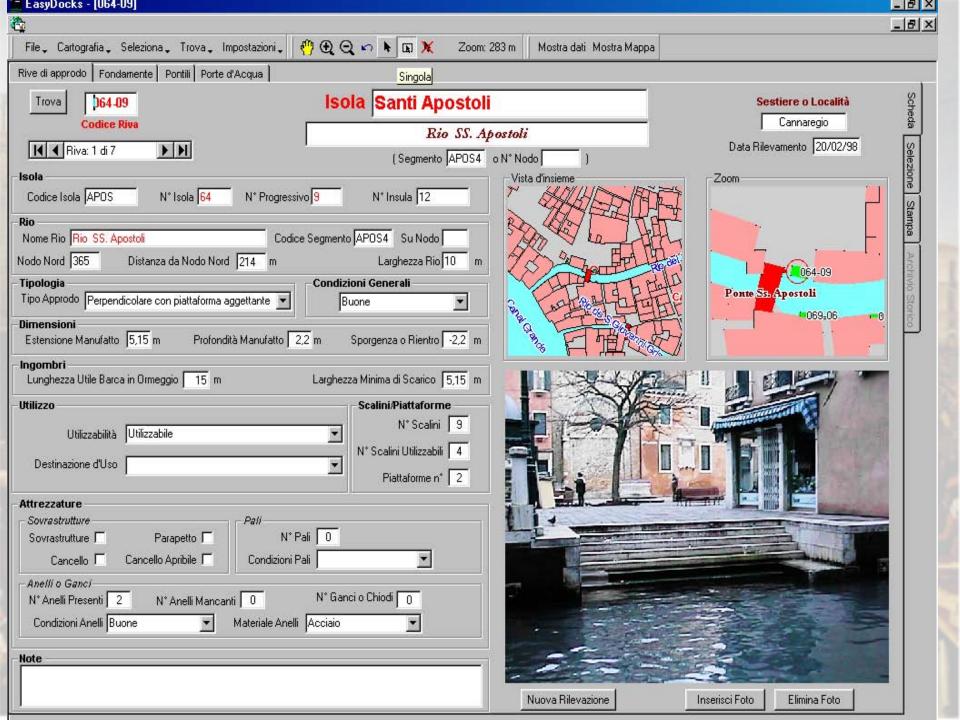


The VPC was the first to inventory all

Venice Docks

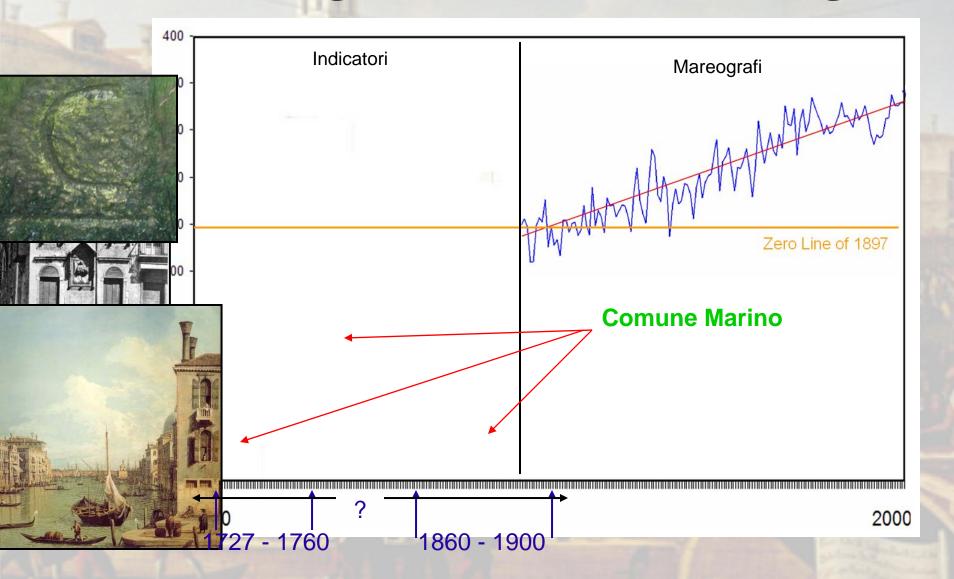
Boat Docks







Measuring Sea-Level Change



Belltowers and the Sounds of Venice









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http://www.wpi.edu/~carrera