

MCST Research EXPO 3-7 November 2008



Educational Strategies for the Promotion of Natural Heritage

EduNatHer Pilot Project – EL/06/B/F/PP - 148207

Sponsored by the European Commission under the Leonardo da Vinci Programme



e-learning on Natural Heritage

Objective

Provide a web-based module which contains:

- units on different aspects of natural heritage
- tutorials based on
- geographic information layers (thematic maps)

Case studies:

Greece, Italy, Malta, Portugal, Romania, Turkey





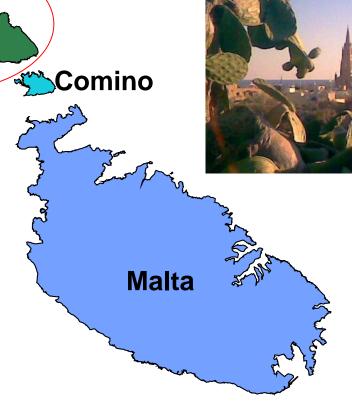


IRMCo Case Study Area



Web-GIS Module:

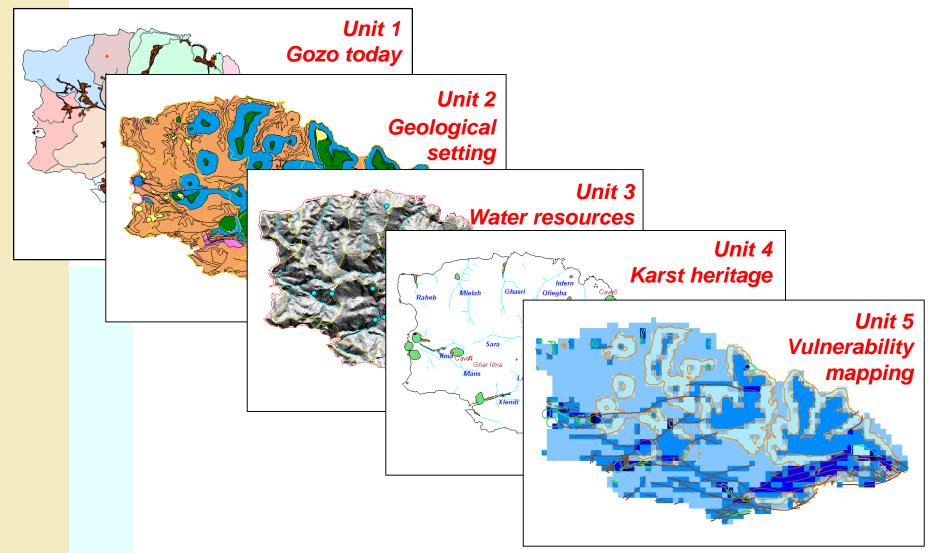
- Gozo Today
- Geological Setting
- Water Resources
- Karst Heritage
- Vulnerability Mapping







Module Units: Thematic maps

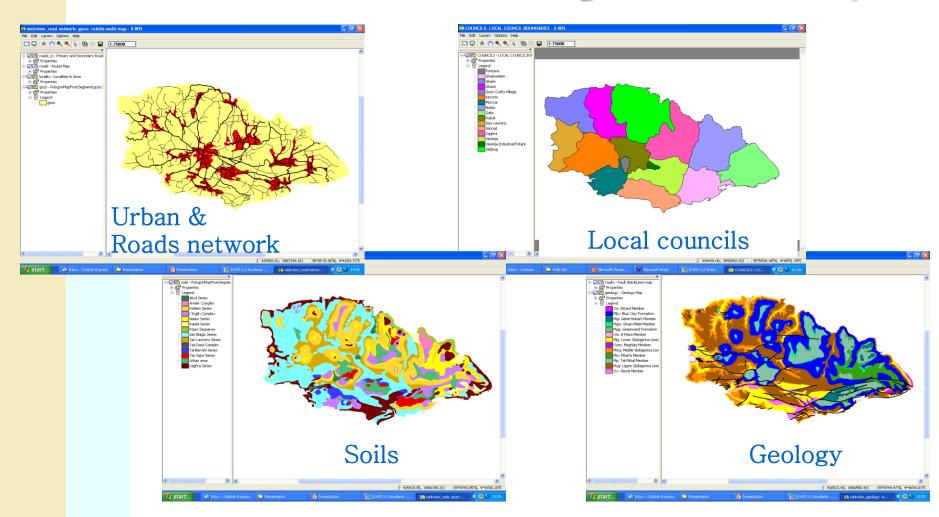








IRMCo tasks included the digitization of maps

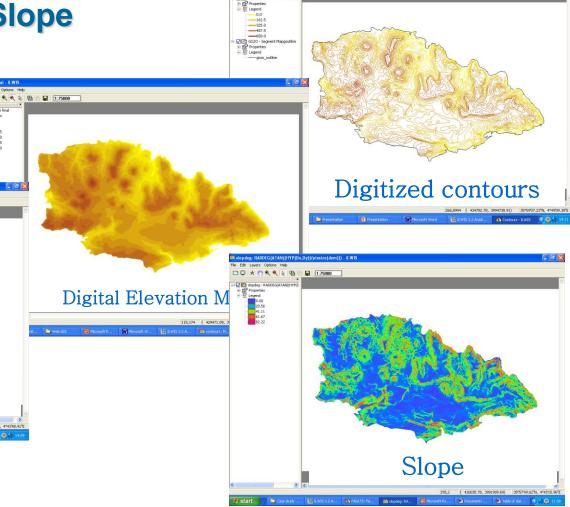








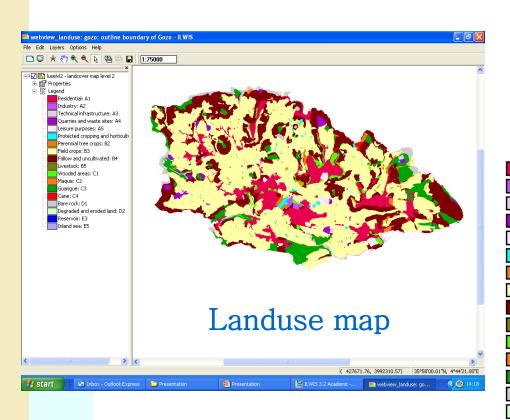
Aspect







IRMCo Field Surveys



Residential: A1

Industry: A2

☐ Technical infrastructure: A3 ☐ Quarries and waste sites: A4

Leisure purposes: A5

Protected cropping and horticulture: B1

Perennial tree crops: B2

Field crops: B3

Fallow and uncultivated: B4

Livestock: B5

Wooded areas: C1

■ Maquis: C2■ Guarigue: C3■ Bare rock: D1

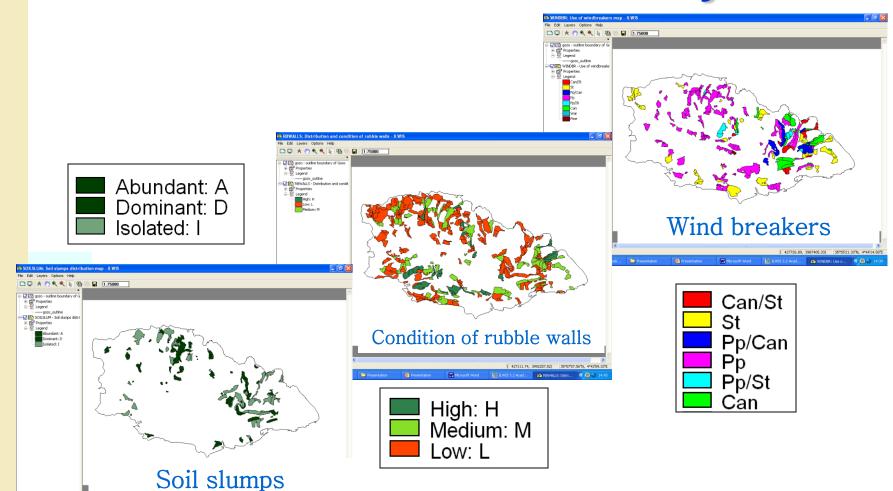
Degraded and eroded land: D2

Reservoir: E3
Inland sea: E5





also from IRMCo Field Surveys...







Identifying Resource Interdependencies ...

Soil erosion in relation to the

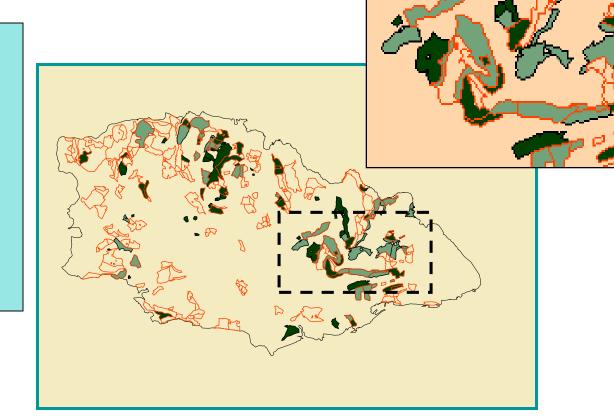
condition of rubble walls

Soil slumps:

Abundant: A
Dominant: D
Isolated: I

Rubble walls:

Rubble walls in bad condition







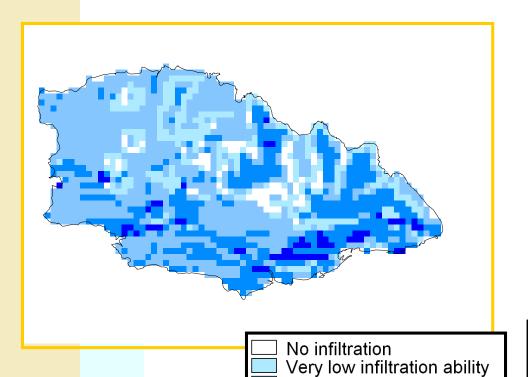
Resource Interdependencies ...

Low infiltration ability

Moderate infiltration ability

High infiltration ability Very high infiltration ability

Surficial Cover Infiltration (SCI) Index Map



4
$SCI = \sum_{i} W_i R_i$
i=1

Weights assigned to Surficial Cover Infiltration factors

8			
	'SCI' FACTOR	WEIGHT (%)	
1) \$	Surface Lithology	35	
2) I	Lineament	20	
3) 1	Karst Features	30	
4) I	Orainage Density	15	

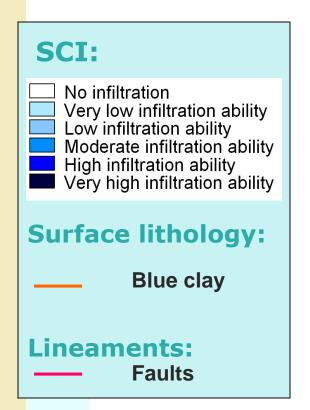
SCI INDEX	Description
>0.40	No Infiltration
0.41-0.85	Very Low Infiltration Ability
0.86-1.30	Low Infiltration Ability
1.31-1.75	Moderate Infiltration Ability
1.76-2.20	High Infiltration Ability
>2.20	Very High Infiltration Ability

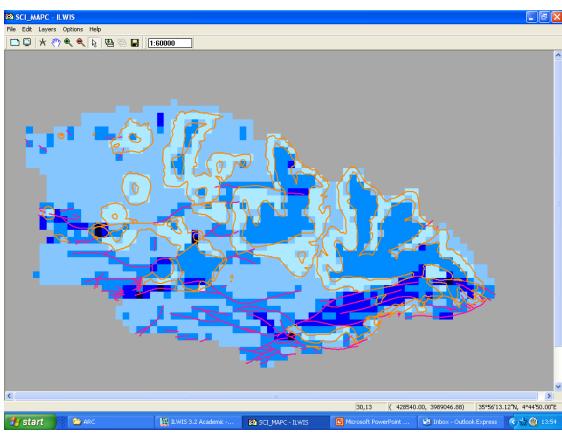






Resource Interdependencies ...









EduNatHer project meetings

