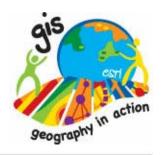




Marco Painho painho@isegi.unl.pt

5<sup>th</sup> August 2008 www.isegi.unl.pt









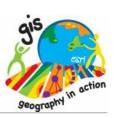










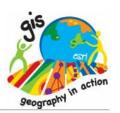


## **SUMMARY**

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- 2. The SuGIK Consortium
- 3. Main Goals
- 4. Proposed Approach
- 5. The GIS&Science Master Program

- 6. Target Groups & Final beneficiaries
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Program funded by the European Union and implemented by the African, Caribbean and Pacific Group of States Secretariat to improve and strengthen the capacity of ACP Higher Education Institutions at three constitutive levels:



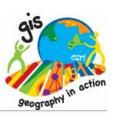
- Institutional / administrative
- Academic
- Research and technology strengthening



**SuGIK** – Submitted to the EDULINK 2<sup>nd</sup> Call for Proposals (October 2007)







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### **Lead Institution**

Instituto Superior de Estatística e Gestão de Informação Universidade Nova de Lisboa - ISEGIUNL (Portugal)



#### **Partner Institutions**

Universidade Católica de Moçambique – UCM (Mozambique)

Universidade de Cabo Verde – UniCV (Cape Verde)

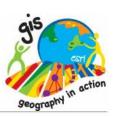


**Associate Institution** ESRI-Portugal









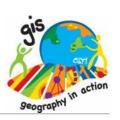
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## **Overall objective**

Develop, implement and disseminate a best practice model consortium of EU-ACP Higher Education Institutions (HEIs) for the institutionalization of GIS&Science Master Programs in Cape Verde and Mozambique







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## **Specific objectives**

- Enhance the overall management, academic, and technological capacity of UniCV and UCM, in order to support the transfer and the implementation of the three editions of a GIS&Science postgraduate course.
- Support target HEIs with training, quality standards, resources and technologies.
- Provide scope for mutually beneficial structural and educational development in a perspective of long-term collaboration, allowing other network co-operation initiatives and further study and skills transfer opportunities between the partners and other European institutions.





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## 1. Enhancing post-graduate administration capacity

- SuGIK's first set of activities will aim at strengthening administrative and technical capacities of the partner universities to effectively implement a distance Master's program in GIS&Science.
- To this end, a management and administration model will be developed in cooperation with the ISEGIUNL.





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## 2. Adapting European curricula to African reality

- The ISEGIUNL's GIS&Science postgraduate program will be adapted to the needs and realities of the labor market in Mozambique and Cape Verde.
- During the project's first year, the partner institutions will conduct a regional and local study on the necessities of professionals in different activities in the areas of geographic information.

This will help to identify the specific competencies that the GIS&Science postgraduate course should promote and ensure an efficient reformulation of the contents that must be proposed for the 2<sup>nd</sup> and 3<sup>th</sup> editions of the course.





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## 3. Delivering a self-sustainable Master's programme

- The postgraduate course will be organized into two semester modules distributed through five learning areas.
- During the first year, the course will be taught by ISEGIUNL teachers to a group of selected students from both partner institutions.
- In the second year this course will be given by ISEGIUNL teachers in a partnership with selected students from the 1<sup>st</sup> edition of the course.
- Lastly, in the third year of the project, all teaching activities will be carried out by the best students of the 1<sup>st</sup> and 2<sup>nd</sup> editions of the course.



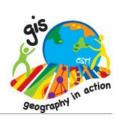


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## 4. Meeting geoinformation professional needs

- Upon completion of the Master's program, students will be able to apply their knowledge in key scientific and technological fields considered strategically relevant to support decision making in key social and environmental development areas.
- In a broader sense, SuGIK will benefit the communities in Mozambique and Cape Verde as government departments, local authorities, private companies or NGOs will be able to recruit highly qualified researchers and GI professionals to analyze key issues in disaster prevention, health, public safety, among others.





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## 2. The SuGIK Consortium

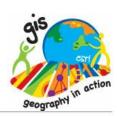
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1st SEMESTER	2 <sup>nd</sup> SEMESTER	3rd SEMESTER	
Geographic Information System and Science	Remote Sensing		
Geospatial data models	GIS and Modeling	Dissertation	
Geographic databases	Geospatial Data Mining		
GIS Applications I	GIS Applications II		





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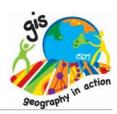
## **Target groups:**

- Senior management and faculty staff of the GI partner institutions departments
- Graduate students in Geographic Information relevant areas
- Target professional in local and regional government departments

#### Final beneficiaries:

- Community Based Organisations
- Local authorities
- Research organisations/Researchers
- SME/SMI businesses which rely on the use of geographic information





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- 1. GIS&Science Postgraduate Diploma/Master Degree Certification 40 students of UniCV and 60 students of UCM
- 2. Development and implementation of a Management and Administration Model for GIS&Science postgraduate education in the partner institutions
- 3. Training of, at least, 8 teachers in each one of the partner institutions. Upgrading and enhancing the qualifications of teaching staff and administrators of the two ACP HEIs.
- 4. Re-design and Implementation of the 8 current modules of the ISEGIUNL's postgraduate course
- 5. Creation of a Quality Assurance Board and provide target HEIs with a best practice model and adequate methodologies, guidelines, and tools to develop, improve and consolidate the existing academic network between EU and ACP Portuguese-speaking countries.





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**Activity Area 1**: Project management development

**Activity Area 2**: Administrative and organisational project implementation

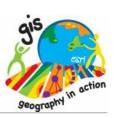
**Activity Area 3**: Implementation and Delivery of the 1<sup>st</sup> edition of GIS&Science Postgraduate Course Training Activities

**Activity Area 4**: Reformulation and design of the GIS&Science Master Program and didactic preparation of the *curricula* content for the 2<sup>nd</sup> edition

**Activity Area 5**: Support a self-sustainable GIS&Science postgraduate programme delivery and innovation during the 3<sup>rd</sup> edition

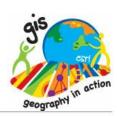
Activity Area 6: Promotion of cooperation between EU and ACP Portuguese-countries HEIs in the field of GIS&Science education and research





1. SuGIK's scope	1990	Annual GIS Seminar
The SuGIK Consortium     Main Goals	1993	Gl as part of a course – Statistics and Information Management Undergraduate Program Gl as an autonomous course – Statistics and Information Management Master Program
4. Proposed Approach	1995	GI as an autonomous course – 2 years Undergraduate Program
5. The GIScience Master Program	1998	GI in Post-Graduation Program – Demographical, Social and Geographical Information Systems
6. Target Groups & Final beneficiaries	1999	Gl as an autonomous course – 4 years Undergraduate Program
7. Estimated Results	2002	GIS&Science Master Program (UNIGIS) – 1st Edition
8. Main Activities	2003	Program educie in the Sector Master program in GIS&Science (e-learning).  Czech Republic
9. ISEGI's GIScience Education	2004	GIS Masters Frogram Britis ion wire than Brown several yearing Possettaching ngary
background	2005	• Takes advantage of the synergies created by the UNIGIS consortium  Program eduGI-A-2 - EC ALFA program, No. Il 0426-A-FI • Fully available through the internet since 2002 (1st edition)  Poland  Particular
10. Current Stage	2006	GIScieficet <i>Culine mas De vellope sièren in pal</i> Eprtuguese university  Prograficedet 中央的中央中央中央中央中央中央中央中央中央中央中央中央中央中央中央中央中央中央
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## SuGIK's identity: design studies



Sustainable Geographic Information Knowledge Transfer for Post Graduate Education





Sustainable Geographic **Information Knowledge Transfer** for Post Graduate Education







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## SuGIK's Portal: design studies



Sustainable Geographic Information Knowledge Transfer for Postgraduate Education Vovidades

Contactos

Links

Mapa do Portal













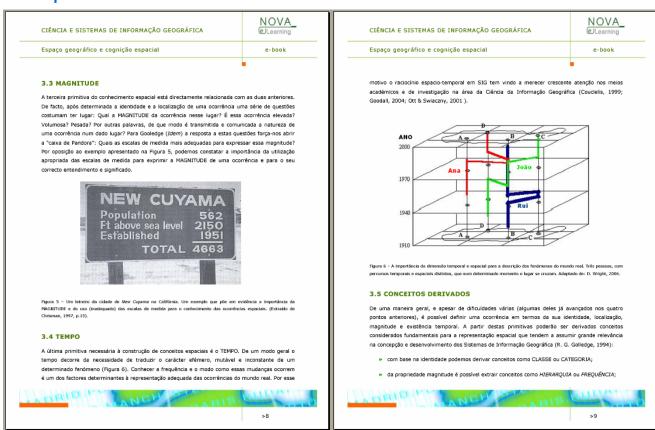






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# **SuGIK's Master Program**: Course re-design and contents adaptation







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## SuGIK's Master Program: Course divulgation and promotion



Flyer production and dissemination of the GIS&Science Master Program – UniCV and UCM

**Opening workshop arrangement** – allowing for project kick off and the validation of the working procedures related to the project management and the initial action plan operations review.





# Doubts Comments Suggestions?

# **Geographic Information Knowledge Transfer for a Sustainable Postgraduate Education**

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5th August 2008 www.isegi.unl.pt











