



REGION OF CRETE CRINNO

ACTION 5
INCUBATOR OF IDEAS OF UNIVERSITY STUDENTS

UNISTEP



TECHICAL UNIVERSITY of CRETE
UNIVERSITY of CRETE
FORTH / STEP-C

Coordinator: Assis. Prof. V. C. Kelessidis



ELEMENTS OF ACTION

OBJECTIVE :

Creation of favourable environment for the growth of entrepreneurial culture of students of HIGHER EDUCATION INSTITUTIONS

DURATION

2 YEARS

Budget

400.000 €

Training of Students:

45.000 €

Incubator of Ideas:

335.000 €

Network of Mentors:

20.000 €





AIMS

- Creation of favorable environment for the development of original products or services from students
- Development of prototypes as a first step towards the creation of new enterprises
- Enrichment of knowledge of students for the business via the seminars



INCUBATOR OF IDEAS - METHODOLOGY

- Idea of students
- Collaboration with laboratories of Institutions :
 - ❖ Access to infrastructure and equipment
 - ❖ Technical support
- Submission of proposals
- Evaluation/approval
- Implementation - 8 month period (2 cycles):
 - ❖ Technical and administrative support
 - ❖ Training
 - ❖ Submission of reports
 - ❖ Final reports of assessment





SEMINARS - METHODOLOGY

STARTING-UP OF NEW VENTURES

Four units (2 times) in Chania and Heraklion :

- ❖ Introduction to implementation / application of original ideas
- ❖ Financing of new ventures
- ❖ Legal issues of realization of ideas and intellectual property
- ❖ Development of business plan

Seminar Instructors :

- ❖ Prof. N. Bilalis, TUC
- ❖ Prof. K. Zopounidis, TUC
- ❖ Ass. Prof. E. Marias, UOC
- ❖ Mr . A. Saitakis, FORTH / STEP-C

Presentation of success stories of enterprises
(with the help of KETA)





RESULTS

- 20 prototypes were developed
- 100 students attended the seminars on starting-up of new enterprises
- Development of methodology for the “Incubator of Ideas”
- Awareness and support of HEI



PROTOTYPES



An autonomous, multi-mission platform for detection, surveying and transmission of data and images
(TECHNICAL UNIVERSITY OF CRETE)



Design of an autonomous navigation system for an unmanned VTOL (Vertical TAKE-OFF AND LANDING)
(TECHNICAL UNIVERSITY OF CRETE)



Development of a seismic dampener with the use of smart electro-rheological materials
(TECHNICAL UNIVERSITY OF CRETE)

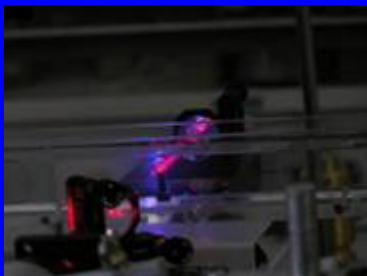
PROTOTYPES



BlueReRun Bluetooth reconfigurable run time environment (TECHNICAL UNIVERSITY OF CRETE)



Production of thermal energy from peach pits (TECHNICAL UNIVERSITY OF CRETE)

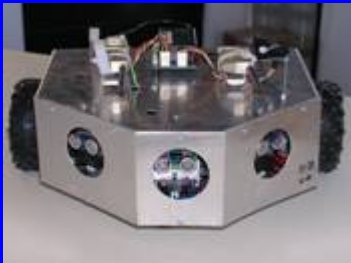


Interferometric cochlea (TECHNICAL UNIVERSITY OF CRETE)

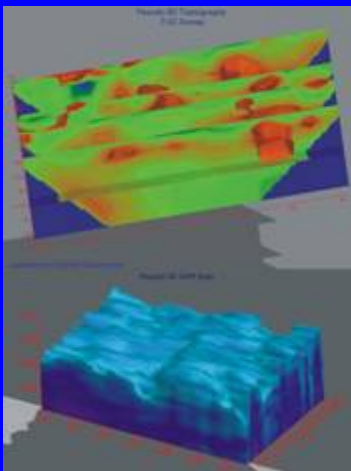
PROTOTYPES



Software and electronic library for the synthesis of furniture (TECHNICAL UNIVERSITY OF CRETE)



Autonomous robotic vehicle
(TECHNICAL UNIVERSITY OF CRETE)

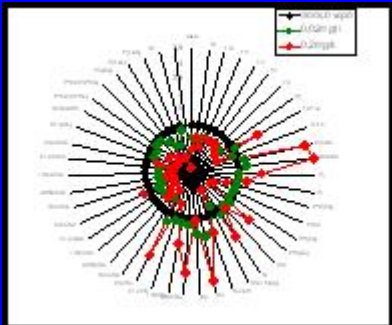


Pilot study of geophysical methods to a construction site in TUC (TECHNICAL UNIVERSITY OF CRETE)

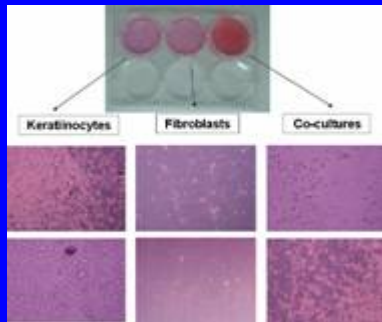
PROTOTYPES



Production of ecological hydraulic lime
(TECHNICAL UNIVERSITY OF CRETE)

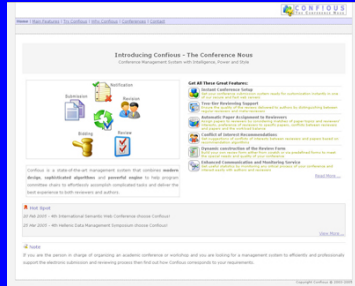


Algae-based water quality biosensor for detecting at least one chemical or biological warfare agent
(FORTH / STEP-C)



Production of skin cultures for autografting
(FORTH / STEP-C)

PROTOTYPES



Confious – Conference management system
(FORTH / STEP- C)



Automatic temperature control system
(FORTH / STEP-C)



Biosynthesis of flavonoids, genistein and quercetin,
from *Saccharomyces cerevisiae* with biotechnological
methods
(FORTH / STEP-C)

PROTOTYPES



Emerging applications of genomic research in plants and pathogenic micro-organisms of agricultural interest (**FORTH / STEP-C**)



Process development for the production of an alternative fuel from a mixture of used vegetable oils (**UNIVERSITY OF CRETE**)



Control of the bee parasite *Varroa destructor*, through the isolation of potentially drastic acaricides contained in *Ditrichia viscosa* and *Anageris foetida* (**UNIVERSITY OF CRETE**)

PROTOTYPES



Development of methodology for evaluation of visual performance when driving at night
(UNIVERSITY OF CRETE)



Low Cost Local Wireless Services for Mobile Phones
(UNIVERSITY OF CRETE)

...CONTINUATION OF PROTOTYPES

- Software and electronic library of furniture
 - Project proposal within EPAN framework, International Cooperation in Industrial Research
- Process development for the production of an alternative fuel from a mixture of used vegetable oils
 - Participation and AWARD in the Panhellenic student competition on business planning, IDEOPOLIS 2004, Univ. of Perous
 - Project proposal 'Biodiesel' production from useless farm side-products' in EU Life-Environment
- An autonomous, multi-mission platform for detection, surveying and transmission of data and images & Interferometric cochlea
 - Project proposal in the Regional Innovation Pole of Crete



PROMOTION (1)



- Logo UNISTEP
- First promotional brochure
- Web site, Technical University and University of Crete
- Local newspapers and radio :
 - Description of program / promotion
 - Invitations for submission of proposals and attending the seminars
- Final promotional brochure of results of UNISTEP



PROMOTION (2)

Two conferences → Heraklion , 5 December
→ Chania , 9 December

- Results presentation and product exhibition
- Invited organizations for funding support, business angels , Incubators, local and national authorities

CRINNO conference

- Exhibition of products





PROMOTION (3)

- IASP → A paper for UNISTEP was prepared and submitted
 - **But**, did not get approval by E.U. officer to go and present paper
- Technical Engineering Chamber (TEE) conference, 15 December
 - «Growth of business skills in Greece and the role of Greek Engineers» - Presentation of UNISTEP





FUTURE STEPS

- Methodology in place, best practice
- Environment more favorable
- Awareness of student and professor community
- Strong support for continuation
- The pilot action proved that “Incubator of Ideas” aids the transformation of new ideas into products or services
- We have submitted UNISTEP Plus in the Regional Innovation Pole of Crete



Many THANKS to:

- Students
- Professors / technical staff
- Instructors of seminars
- Mentors
- Advisory teams
- Steering Committee of UNISTEP
- Administrative / supporting staff
- Region of Crete, GSs: Mr. A. Karountzos & Mr. S. Tsokas
- CRINNO Coordinators: Dr. M. Kassotaki & Dr. K. Strataridakis
- European Commission for funding support
- Technical University of Crete, University of Crete, FORTH / STEP-C

