Green Energy & Blue Growth: drivers for development across the Black Sea

Monday, 14 October 2019
Hellenic Ministry of Foreign Affairs

The Blue Lab Project: A business innovation Center for Blue Growth
Nikoletta Psalti
Blue Lab Communication Manager
Intro: What is Blue Lab

Blue Lab is the first center to promote and support business innovation exclusively for Blue Growth in Greece. It is a flagship initiative of the Municipality of Piraeus, aiming to provide a springboard for developing new ventures, ideas and products using advanced technology, always within the Blue Economy.

It is a modern and technologically advanced place that welcomes young people who want to develop technological and business skills.

Through a range of services, Blue Lab cultivates the spirit of innovation and entrepreneurship.
## Project Basic Info

<table>
<thead>
<tr>
<th><strong>TITLE</strong></th>
<th>Business Innovation Center for Blue Growth</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CONTRACTING AUTHORITY</strong></td>
<td>Municipality of Piraeus</td>
</tr>
<tr>
<td><strong>FUNDING</strong></td>
<td>Region of Attica</td>
</tr>
<tr>
<td><strong>CONTRACTOR</strong></td>
<td>PLANET S.A. following an international tender</td>
</tr>
<tr>
<td><strong>LAUNCH/DURATION</strong></td>
<td>21.05.2019 / 36 Months</td>
</tr>
<tr>
<td><strong>BUDGET</strong></td>
<td>1,450,000 € excluding VAT</td>
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Cultivation and promotion of innovation and its connection to entrepreneurship in the Blue Economy sector in the city of Piraeus

The project will contribute to the:

- Mobilization of young scientists and potential entrepreneurs in the field of Blue Economy
- Development of new products and services in the filed of Blue Economy
- Utilization of new technologies in the development of innovative products and services in the field of Blue Economy
- Training and guidance of new scientists/ potential entrepreneurs in the utilization of new technologies
- Increase youth awareness on the importance of competitiveness and Blue Growth for both the Greek and the European Economy
## Project Scope/Work Phases

### Phase A

**Center Creation**

This phase includes all the necessary preparatory activities for the Center to be operational and able to provide the foreseen services:

- **Configuration of infrastructure** (reception and working areas)
- **Acquisition, installation and operation of basic and specialized technological equipment**
- **Creation of corporate identity and communication material** (website, leaflet, Social Media)
- **Establishment of operation regulations**
- **Mobilization of Scientific Staff, selection of administrative Staff**

### Phase B

**Center Operation**

This phase includes all provided services and actions that derive from the Center’s operation:

- **Preparation of Calls, evaluation of summitted applications, selection of participants**
- **Provision of services for the maturity of entrepreneurial ideas in the field of blue economy**
- **Tutorials on the use of specialized technical equipment**
- **Provision of technical equipment for advanced users**
- **Training visits for pupils and students**
- **Provision of Information on the activities of the Center and the services offered**
- **Promotion of the Center and Blue Growth**
- **Organization of informative events**, aiming to promote the Center and to approach potential participants
- **Organization of networking workshops and international study visits**
- **Creation and distribution of scientific articles**

### Phase C

**Center Operation Transition**

The phase includes actions for the delivery of the Center to the Municipality of Piraeus:

- **Provision of Building Infostructure**
# The Project / Phases & Timetable

- **Phase A:** Center’s Creation (duration: 4 months)
- **Phase B:** Center’s Operation (duration: 24 months)
- **Phase C:** Center’s Operation Transition (duration: 8 months)

<table>
<thead>
<tr>
<th>Phase</th>
<th>Duration (Months)</th>
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</thead>
<tbody>
<tr>
<td>2019</td>
<td>2020</td>
</tr>
<tr>
<td>6 7 8 9 10 12 1 2 3 4 5 6 7 8 9 10 11 12</td>
<td>1 2 3 4 5 6 7 8 9 10 11 12</td>
</tr>
<tr>
<td>Center’s Creation</td>
<td>Phase B</td>
</tr>
<tr>
<td>Center’s Operation</td>
<td></td>
</tr>
<tr>
<td>Center Operation Transition</td>
<td>Phase C</td>
</tr>
</tbody>
</table>

- Delivery of technical equipment, educational and communication material to the Municipality of Piraeus

![Current Date](image)
Center Creation (Phase A)
Blue Lab Facilities/ Communication Material

- In the center of Piraeus
- Easily accessible
- 370 m² of space
- Open Space configuration
Center Operations (Phase B)
Blue Lab Services

Support of new entrepreneurship ideas (Entrepreneurship Consulting)
- Needs Assessment
- Consulting Support (trainings)
- Tailor made consulting (Coaching / Mentoring)

Use of Technological Equipment
- 3D & Digital Technology tutorials
- Provision of technical equipment for certified users
- Educational Visitations
## Center Operations (Phase B)
### Services & Participants

<table>
<thead>
<tr>
<th>Services</th>
<th>Addressed to</th>
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<tbody>
<tr>
<td><strong>Support for New Entrepreneurial Ideas</strong></td>
<td>Groups of potential entrepreneurs or individuals who have an entrepreneurial idea within the sector of Blue Growth and need support and guidance in order to develop their idea</td>
</tr>
<tr>
<td><strong>3D and Digital Technology Tutorials</strong></td>
<td>Groups or people who want to be educated and experiment with the function of advanced 3D designing and printing machines and sophisticated sensors, activators and micro-electro engineering systems</td>
</tr>
<tr>
<td><strong>Provision of Technological Equipment to advanced users</strong></td>
<td>People who are familiar with the specialized equipment and software in order to produce pilot products in the sector of the Blue Economy</td>
</tr>
<tr>
<td><strong>Educative Visitations</strong></td>
<td>In schools (Primary and secondary education) or groups of scholars who would like to get to know the capabilities of the advanced technological equipment</td>
</tr>
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Center Operations (Phase B)  
Blue Lab Technical Equipment Tutorials

3D Design

- Training in the production of 2D and 3D designs of any type
- Creation of components, assemblies and dimensional design drawings
- Presentation of design methodology through clear and practical examples.
- Teaching of 3D Scanning technology, thereby obtaining an overview of the design in three dimensions.

3D Printing

- Introduction of participants to the principles of 3D Printing and the different technologies available at BlueLab
- Participants will learn the principles of 3D printing methods, its capabilities and acquire basic knowledge on the operation of 3D Printers
- Familiarization with the specifications of the different materials used.
- Introduction to recycling and the use of appropriate equipment for the production of recycled raw materials for 3D printers.

Digital Technology & Automation

- Familiarization of participants with the use and applications of digital technology & automation equipment.
- Training in the basics of electronics programming and the basics of robotics using sensors, the construction of simple electronic circuits and simulation of real or imaginary environments using VR equipment.
Center Operations (Phase B)

blue Lab: 3D Design & Printing Equipment

- Advanced 3D Design software
- 3D Scanners of different technologies and capabilities
- 3D Printers of different technologies, sizes, and materials
- Plastic recycling equipment for production of 3D printers’ raw material.
Center Operations (Phase B)
Blue Lab: Digital Technology & Automation
Equipment/Sensors & Microcontrollers

Kit Arduino Uno
Kit Arduino Mega
Kit Rasberry Pi
Multiple types of sensors (measuring pressure, humidity, temperature)
Microcontrollers (motor movement, robots, light monitoring)
Center Operations (Phase B)
Blue Lab: Support of new entrepreneurship ideas

- Consulting Services
- Assessment
- Tailored Support

- Development of Business Skills
- Business Idea Growth
- Promotion of Entrepreneurship idea

- Consulting Services
- Advisory & Custom Support

- Networking Workshops
- International Study Visits
Center Operation (Phase B)
Blue Lab Service Provision

- **Support for New Entrepreneurial Ideas**
  - 3D & Digital Technology Tutorials

- **Provision of Technological Equipment to advanced users**
  - Educative Visitations

Services are provided in circles.
In total the Blue Lab is expected to conclude 6 circles of 4 months each.
Out of the 4 months, 3 concern direct services to participants, whereas the first month of each circle is dedicated in the selection procedure of participants, after reviewing relevant call applications.
The selection procedure will be repeated for every circle.

Services are provided continuously based on Blue Lab schedule.
The specific service call remains open throughout the center’s operation period.
This means that applications for these services are constantly reviewed.
Blue Lab Team

Joint monitoring committee
Formed by Region of Attica and Municipality of Piraeus executives

Municipality of Piraeus
- City Council
- City Directorate of Planning & Development
- Project Monitoring Committee

Region of Attica

Core Center Team
- Head of the Center
- Project Manager and Quality Assurance Manager
- Business Consults (2)
- Funding Consultants Legal Consultant
- Communication Officer
- Technical Consultant
- Scientific Monitoring Committee
  - Expert in Fisheries and aquaculture
  - Expert in coastal & marine tourism
  - Expert in shipbuilding
  - Expert in Maritime & Sustainable Shipping
  - Expert in ICT
- Administrative Support Team

Blue Lab operation is supported by a variety of experts of various backgrounds who support the core team, ensuring the smooth operation of the Center and providing high quality services.
Blue Lab: Communication Information

Working Hours
Monday to Friday
10:00 – 21:00

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