

BLUE BIO MED

Mediterranean Innovation Alliance for Sustainable Blue Economy

La Blue Bioeconomy nell'area mediterranea: strategie
e opportunità d'innovazione per le regioni italiane - 12 aprile 2022

Presentazione del Technology Forecast

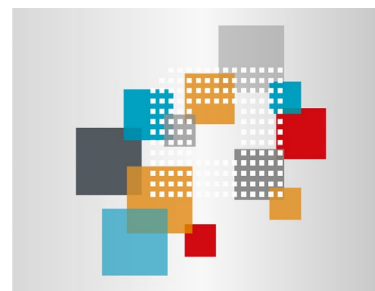
12 APRILE 2022
10:00 – 12:00

«La Blue Bioeconomy
nell'area
mediterranea:
strategie
e opportunità
d'innovazione per le
regioni italiane»



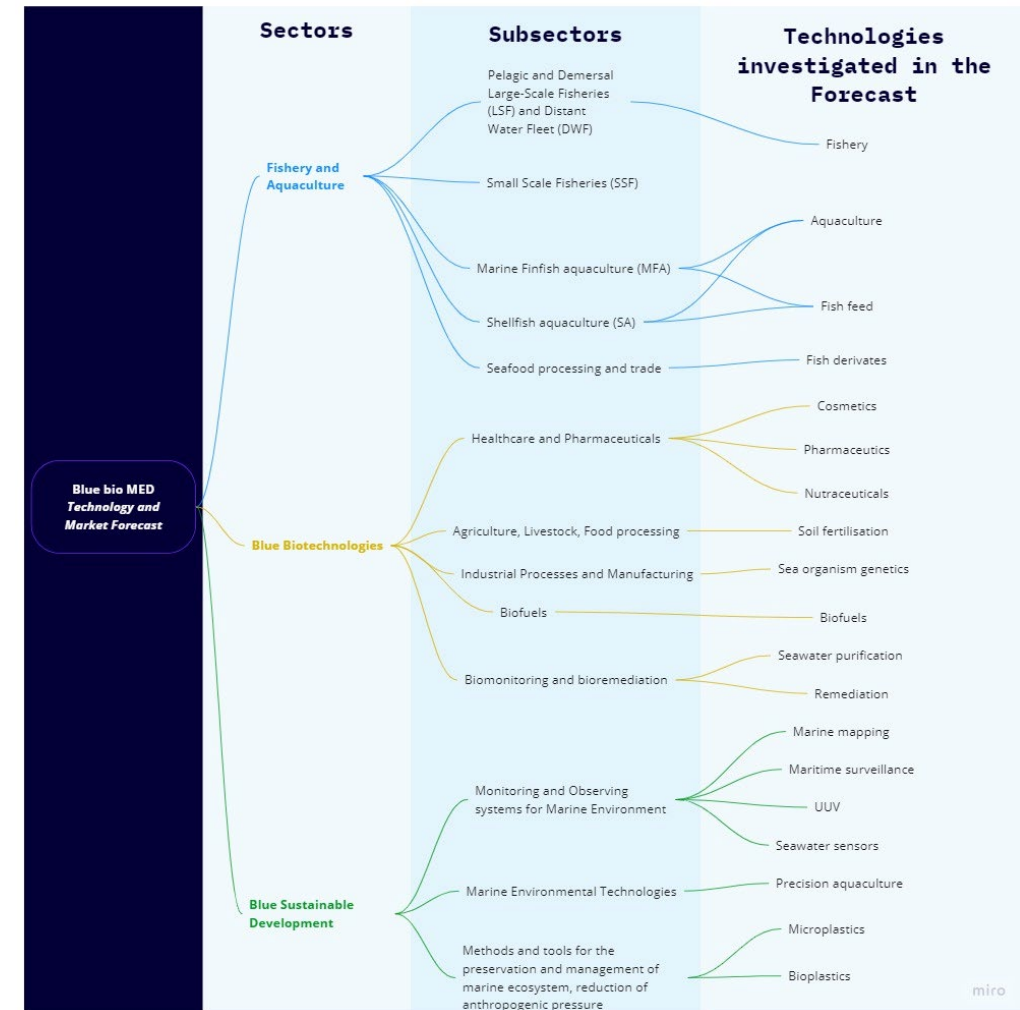
Technolgy and Market Forecast: la metodologia d'indagine

**Riccardo Priore –
Ufficio per la valorizzazione della
ricerca
Area Science Park**



Technology Forecast: objectives

The technology and market forecast discloses the technology and market forecasts for the main sectors pertaining the Blue Bioeconomy and their contribution to foster the Sustainable Development Goals in the Euro Mediterranean area.



THE PATENT INTELLIGENCE APPROACH

	Patent intelligence (aka Patent Landscape)
Examples	<ul style="list-style-type: none"> • market analysis • competitor watch • technology scouting (& head hunting)
Main target audience	<ul style="list-style-type: none"> • IP managers • R&D and HR managers • upper management • PATLIB centres, technology transfer offices
Purpose	<ul style="list-style-type: none"> • addressing strategy-related issues, e.g. <ul style="list-style-type: none"> – understanding technology trends – identifying potential partners – understanding strategy of competitors
Quantity of documents	<ul style="list-style-type: none"> • USUALLY, LARGE QUANTITIES OF DOCUMENTS

- Questions to be answered either by means of qualitative or quantitative features:

- ❖ Which technological context is the activity of my competitors focused on ?
- ❖ Are there new technological trends emerging in my sector?
- ❖ What are the countries in which the most relevant competitors are headquartered? In which countries are most often filed the patent applications?
- ❖ How can I identify the potential cooperators working in my technical sector (either analyzing the patent applications or the NPL)?
- ❖ Which are the most prolific researchers/inventors?
- ❖ How can I evaluate the quality of the RTD activities or of the legally protected product/process?
- ❖ How can I identify the granted patents which are still valid?
- ❖ How can I estimate the innovation level of a specific technology?
- ❖ How can I identify a patent agent/attorney skilled in the technical sector of my interest? How can I identify the patent agents/attorneys supporting my closest competitors?

THE RESULTS

https://blue-bio-med.interreg-med.eu/news-events/news/

Home EVISE EPO - PATSTAT. Wor... Login | Derwent Inn... Panoramica delle vi... Welcome to TimDo... Patents by technolo... CompuMark - Trad... Un approccio big d... www.di-srv.unisa.it/... Biopatent Law Pate... Regione Autonomo...

interreg
Mediterranean
BLUE BIO MED

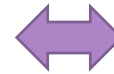
NEWS

Thematics From To Keyword
Thematics Ex : 12/12/2016 Ex : 15/06/2017 Ex : report OK

BLUE BIO MED
BLUE BIO MED issues a Report on Blue...
09/03/2022
BLUE BIO MED has identified three broad fields of interest within the blue bioeconomy sector, which are deeply investigated in the project "Technology and Market forecast". The report provides...

GOVERNANCE
Interreg EURO-MED Academy Launched!
11/02/2022
The online course "Promoting innovation for sustainability transitions in the Mediterranean" created by PANORAM-MED and Generalitat de Catalunya is now open for registrations

BLUE BIO MED
BLUE BIO MED in cooperation with B-BLUE, the...
Today, Blue Economy plays a key role in the EU sustainable transition, especially because it encourages the exploitation of the wealth offered by oceans, seas and coastal areas in a sustainable way...



https://areasciencepark.sharepoint.com/sites/BLUBIOMED

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AREA
SharePoint

Cerca nel sito

BLUE BIO MED
Gruppo privato

Home page + Nuovo ⚙️ Dettagli pagina 📄 Analisi

Conversazioni
Documenti
Blocco appunti
Pagine
FISHERY (Fishery and ...
AQUACULTURE (Fisher...
FISH MEAL (Fishery an...
FISH DERIVATIVES (Fis...
COSMETICS (Blue Biot...
PHARMACEUTICS (Blu...
NUTRACEUTICALS (Bl...
SOIL FERTILIZATION (B...
SEA ORGANISMS' GE...
BIOFUELS (Blue Biotec...
SEAWATER PURIFICATI...
REMEDIATION (Blue Bl...

+ Aggiungi

Mantenere aggiornato il team con Notizie nel sito del team
Nella nuova home page del sito è possibile creare...
Aggiungi notizie

Attività Visualizza tutto

Power BI dashboards URLs
Priori Riccardo
Elenco creato 20 giorni fa

Project deliverables
4.Complete_R...elopment_Area
Priori Riccardo
Visualizzato 20 giorni fa

Links to the Blue Bio Med MS Power BI dashboards Visualizza tutto

Type of file	URL	Dataset	Main topic
Power BI Dashboard Blue Biotechnology	URL Soil Fertiliz...	Soil Fertilization	Agriculture, Livestock, Food processing
Power BI Dashboard Blue Biotechnology	URL Biofuels	Biofuels	Biofuels
Power BI Dashboard Blue Biotechnology	URL Seawater p...	Seawater purification	Biomonitoring and bioremediation
Power BI Dashboard Blue Biotechnology	URL Remediation	Remediation	Biomonitoring and bioremediation
Power BI Dashboard Fishery and aquac...	URL Fishery	Fishery	Fishery and aquaculture
Power BI Dashboard Fishery and aquac...	URL Aquaculture	Aquaculture	Fishery and aquaculture
Power BI Dashboard Fishery and aquac...	Fish meal	Fish meal	Fishery and aquaculture
Power BI Dashboard Fishery and aquac...	URL Seafood pr...	Seafood processing and trade	Fishery and aquaculture
Power BI Dashboard Blue Biotechnology	URL Cosmetics	Cosmetics	Healthcare and Pharmaceuticals
Power BI Dashboard Blue Biotechnology	URL Pharmaceu...	Pharmaceutics	Healthcare and Pharmaceuticals
Power BI Dashboard Blue Biotechnology	URL Healthcare	Healthcare	Healthcare and Pharmaceuticals



THE PATENT SEARCH CRITERIA

The selection of the patent documents has been performed using the database Orbit Intelligence (see also the report *“How to read this document”* and the chapter *“References”*). The queries are listed in the following table:

Dataset		Orbit query (FamPat collection)	ND Patent families	Applications
Blue Biotechnology	Cosmetics	(+ALGA+ OR SEA_WEED+)/TI/AB/CLMS/ADB/ICLM/KEYW AND (A61K-036/02 OR A61K-036/03 OR A61K-036/04 OR A61K-036/05)/IPC/CPC (A61K-008 OR A61Q-019 OR A61P-017)/IPC/CPC ((SEA OR MARIN+ OR MARITIM+))/TI/AB/CLMS/ADB/ICLM/KEYW 2 AND 3 1 AND 4	833	2778
	Pharmaceutics	((DRUG+ OR ANTI_MICROB+ OR BIO_POLIM+ OR ENZYM+ OR MEDICAMENT+)) 5D (SEA+ OR MARIN+ OR	191	433

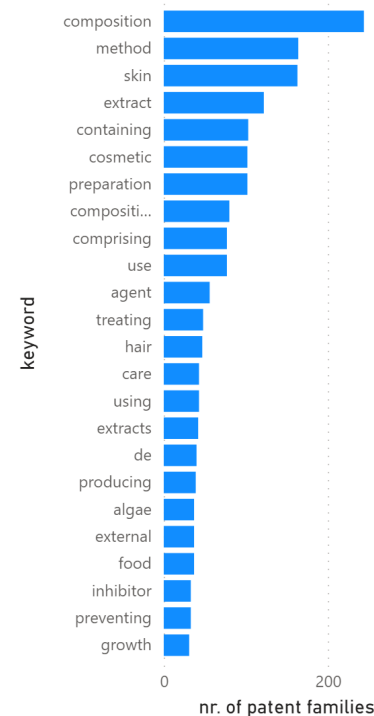


THE QUALITY CONTROL

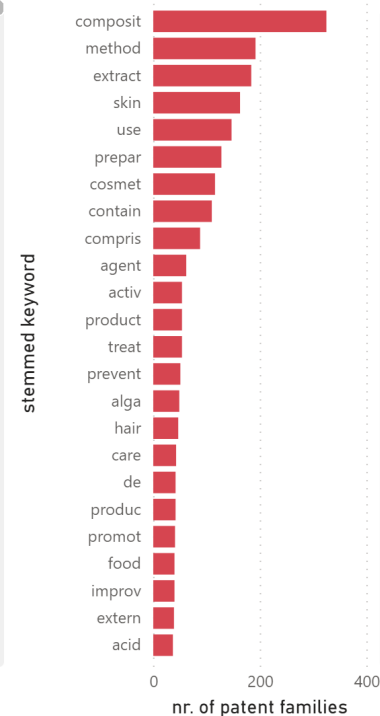
Quality control: analysis of patents titles' keywords and stemming



Count of patent families per keyword



Count of patent families per keyword



Keyword filter:

- ☐ 1,3-propanediol
- ☐ 1.3-propanediol
- ☐ 3,4-dihydroxyphenyl
- ☐ 3-poliinsaturado
- ☐ abil
- ☐ abirrit
- ☐ abl
- ☐ absorpt
- ☐ acceler

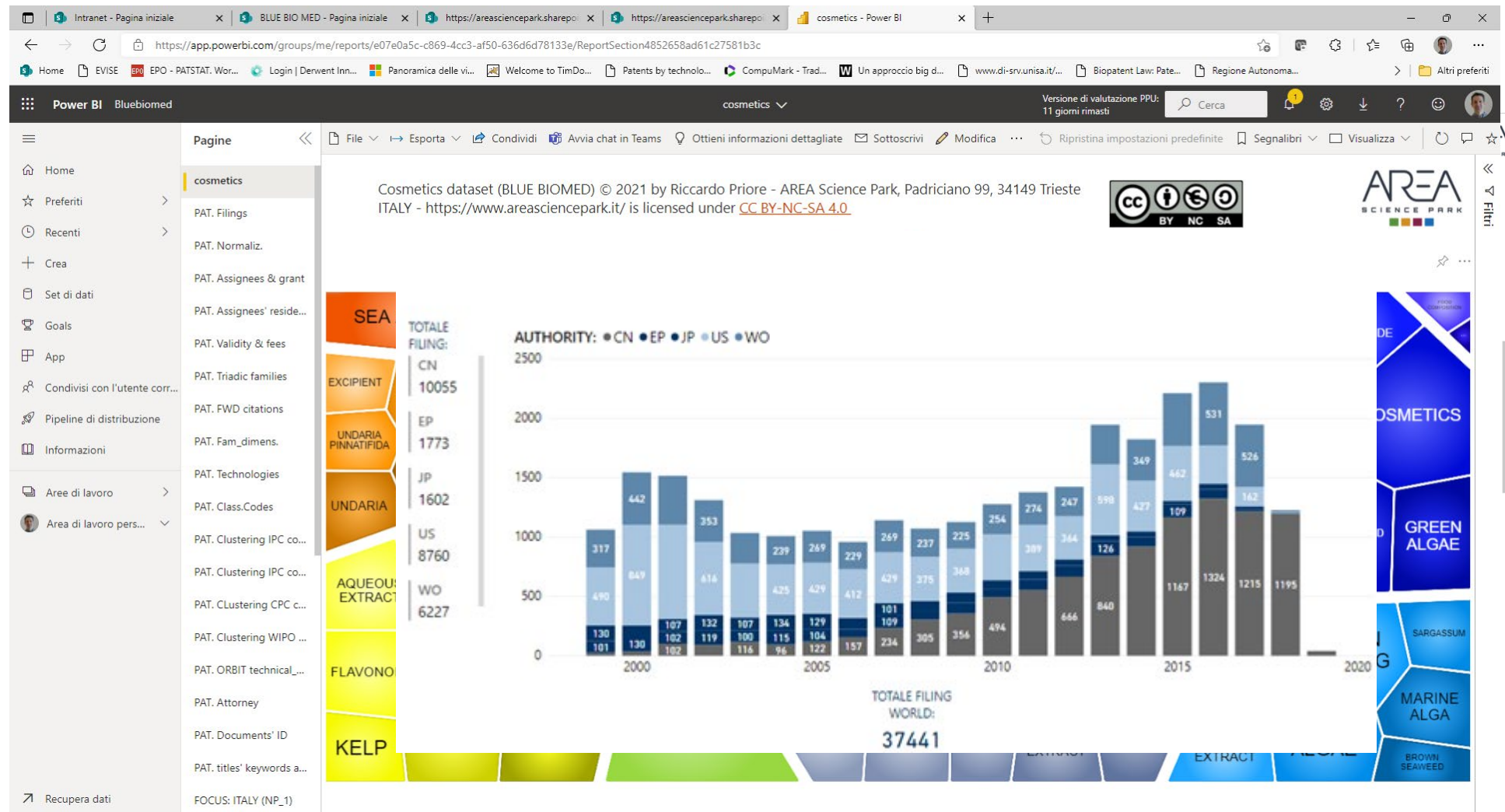
Patent family nr. filter

- ☐ 5992991
- ☐ 6225646
- ☐ 7686800
- ☐ 7836301
- ☐ 7934047
- ☐ 8608693
- ☐ 8772890
- ☐ 8869389
- ☐ 9087746
- ☐ 9124940

docdb_family_id appln_title

5992991	Medicinal and cosmetic topical preparations - contg. extracts of tl Chondrus crispus or Gigartina mamilliosa
6225646	Process for the preparation of thallophytic or bryophytic cytorrhys chemicytorrhysates prepared thereby, and the use thereof for nut supplementation
7686800	USE OF SHEETS FOR PRODUCING BODY COMPRESSES AND A PRI DEVICE THEREFOR
7836301	Use of purified siliceous earth containing silicic acid
7934047	Extract of blue alga with high magnesium content, useful for derm cosmetic treatment of skin and hair, stimulates synthesis of adenc

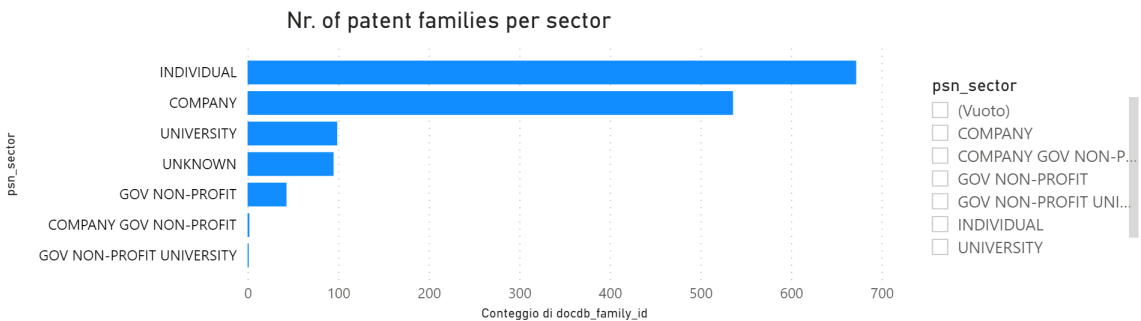
THE SEARCH PHASES





FURTHER INFORMATION FROM PATENTS:

Patent documents' ID, Publication Nr., Applicants/assignees lists:



Applicants' name counts:

3722

docdb_family_id	Publ. Nr.
39272875	AP2010005247A0
51022289	AP2015008861A0
9488210	AP732A
9488210	AP9701085A0
34636639	AR049764A1
35151201	AR057275A1
36072152	AR058751A1
36072152	AR058752A1
36072152	AR058753A1
38222322	AR063773A1
38222322	AR063774A1
39609288	AR064846A1
42407056	AR070003A1

docdb_family_id	psn_sector	psn_name
5992991	INDIVIDUAL	SCHMIDT-BRUCKNER,HEINRICH
6225646		ANNA BUANKU
6225646	COMPANY	SOCOP NAHRUNGSMITTEL HANDELSG BERLIN
6225646		VERZICHT DES ERFINDERS AUF NENNU
6225646	COMPANY	YAMAKAWA BOEKI
7686800	INDIVIDUAL	HASLAUER, PAUL
7686800	INDIVIDUAL	PAUL HASLAUER
7836301	INDIVIDUAL	RICHTER, RUTH, 40477 DUESSELDORF
7934047		CLAUDIA JASSOY
7934047		ELKE KURTH

psn_name

- ☐ (Vuoto)
- ☐ AARU JIYON UITAKAA
- ☐ AAT COSTECH COMPANY
- ☐ ABE SHINICHI
- ☐ ABE TADAAKI
- ☐ ABRIL JESUS
- ☐ ABRIL, JESUS RUBEN
- ☐ ABRIL, JESUS, RUBEN
- ☐ ACCESS BUSINES GROUP I...
- ☐ ACCESS BUSINESS GROUP I...
- ☐ ACCESS BUSINESS GROUP I...
- ☐ ACCESS BUSINESS GROUP I...
- ☐ ACTIGENOMICS

psn_sector

- ☐ (Vuoto)
- ☐ COMPANY
- ☐ COMPANY GOV NON-PROFIT
- ☐ GOV NON-PROFIT
- ☐ GOV NON-PROFIT UNIVERSITY
- ☐ INDIVIDUAL
- ☐ UNIVERSITY
- ☐ UNKNOWN

FURTHER INFORMATION (NOT ONLY PATENTS):

Focus on Italy (not only patents): identification of institutions collaborating



data extracted from TIM (<http://tech.timanalytics.eu/>)



TECHNOLOGY FORECAST: DOCUMENT STRUCTURE

- Introduction
- How to read this document
- Technology forecast and importance of SDGs in Blue Bioeconomy
- Complete report on patent and NPL analysis
 - *Part I: Fishery and Aquaculture*
 - *Part II: Blue Biotechnology*
 - *Part: Blue Sustainable Development*
- Key points on Patent and NPL
- Final remarks and recommendation

Technology Forecast: settori d'indagine

1. Fishery and aquaculture

- a. Pelagic and Demersal Large-Scale Fisheries (LSF) and Distant Water Fleet (DWF)
- b. Small Scale Fisheries (SSF)
- c. Marine Finfish aquaculture (MFA):
- d. Shellfish aquaculture (SA)
- e. Seafood processing and trade.

2. Blue Biotechnologies

- a. Healthcare and Pharmaceutical applications
- b. Agriculture, Livestock, Food processing:
- c. Industrial Processes and Manufacturing
- d. Biofuel
- e. Biomonitoring and Bioremediation

3. Blue sustainable development

- a. Monitoring and Observing systems for marine environment
- b. Marine Environmental Technologies
- c. Methods and tools for the preservation and management of marine ecosystem, reduction of anthropogenic pressure