

BHARATHIDASAN UNIVERSITY

Tiruchirappalli- 620024, Tamil Nadu, India

## **Programme: M.Sc., Biotechnology(Environment)**

**Course Title : Entrepreneurship for Green Products Course Code : EIBC01** Unit-II **Bio markets - business strategy and marketing** Name : Dr.S.Umamaheswari **Assistant Professor Department of Environmental Biotechnology** Biomaterial Lab, BDU.Trichy - 24

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# ENTREPRENEURSHIP FOR GREEN PRODUCTS COURSE CODE: EIBCO1 UNIT II BIO MARKETS- BUSINESS STRATEGY AND MARKETING

Dr. S. Umamaheswari

Assistant Professor

Dept. of Environmental Biotechnology

Bharathidasan University



BIO MARKET BIO MARKETS

Bio market is a term that can refer to different things depending on the context. Here are some possible meanings of bio market:

- A market for biotechnology products and services, such as drugs, diagnostics, vaccines, biofuels, and bioplastics. The global biotechnology market was estimated at USD 1,224.31 billion in 2022 and is expected to be worth around USD 3,210.71 billion by 2030.
  - A market for organic or natural products, such as food, cosmetics, clothing, and household items. These products are made without synthetic chemicals, pesticides, hormones, or genetically modified organisms. Bio-market.ro is an example of an

online store that sells organic products in Romania.



A market for bioenergy or biofuels, which are renewable sources of energy derived from biomass, such as wood, crops, waste, and algae. Bioenergy can be used for electricity, heat, or transport. The global bioenergy market size stood at USD 344.90 billion in 2019 and is projected to reach USD 642.71 billion by 2027.

### **World Bio Market Insights**

News & Inspiration for the bioeconomy

Best Bio Shops & Markets in Brussels





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#### Some examples of bio markets are:

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## Negotiating the road from lab to the market

Negotiating the road from lab to the market is a topic that involves the challenges and strategies of transferring new technologies from the research environment to the commercial sector. It is relevant for scientists, entrepreneurs, investors, and policymakers who are interested in innovation and economic development. Some of the aspects of this topic are:

- How to identify and evaluate the market potential of a scientific idea or invention.
- How to protect and market the intellectual property rights of a technology.
- How to find and negotiate with suitable partners, customers, or investors for technology transfer.
- How to manage the risks, costs, and benefits of technology commercialization.
- How to deal with ethical, social, and environmental issues related to technology development and diffusion.





# What are the Strategies for Negotiating the Road from Lab to the Market





**#1:** *Identify and evaluate the market potential of your technology.* You need to understand the needs and preferences of your target customers, the size and growth of the market, the competitive landscape, and the regulatory and legal environment. You can use tools such as patent landscape reports, market research, and customer feedback to assess the viability and value of your technology.

• This means that you need to do some research and analysis to find out who would buy or use your technology, how much they would pay for it, how many of them are there, who are your competitors, and what are the rules and laws that apply to your technology. For example, if you have developed a new drug, you need to know who are the patients who need it, how effective and safe it is compared to existing drugs, how big is the market for it, who are the other drug companies that offer similar or alternative products, and what are the regulations and standards that you need to follow to get approval and sell your drug.





technology or similar products.



**#2:** *Protect and market your intellectual property rights.* You need to secure your ownership and control over your technology, as well as communicate its benefits and uniqueness to potential partners, investors, or consumers. You can use tools such as patents, trademarks, trade secrets, and licensing agreements to protect and monetize your IP assets.

This means that you need to make sure that no one else can copy, steal, or use your technology without your permission or compensation. You also need to make sure that people know what your technology is, what it can do, and why it is better than other technologies. For example, if you have developed a new software application, you need to make sure that no one else can access or modify your source code without your consent or payment. You also need to make sure that people know what your software does, how it works, and why it is more useful or efficient than other software applications.





You can use various legal instruments and strategies to help you achieve these goals. For example, you can use patents to obtain exclusive rights over your invention for a limited period of time, and prevent others from making, using, selling, or importing your invention without your authorization. You can use trademarks to identify and distinguish your products or services from those of others, and create a brand image and reputation for your technology. You can use trade secrets to protect confidential information that gives you a competitive advantage over others, such as formulas, algorithms, or processes. You can also use licensing agreements to grant or obtain permission to use someone else's IP rights in exchange for a fee or royalty.



*#3: Find and negotiate with suitable partners or investors.* You need to identify and reach out to entities that have the resources, expertise, and network to help you develop, manufacture, and distribute your technology. You can use tools such as networking events, pitch competitions, incubators, accelerators, and online platforms to showcase your technology and attract interest.

This means that you need to find and connect with people or organizations that can provide you with funding, support, and guidance to bring your technology to the market. You also need to convince them that your technology is worth investing in or collaborating with. For example, if you have developed a new device, you need to find and contact potential manufacturers, distributors, and customers that can help you produce, sell, and deliver your device. You also need to persuade them that your device is innovative, reliable, and profitable.





You can use various opportunities and platforms to help you achieve these goals. For example, you can use networking events to meet and interact with people who share your interests, goals, or challenges, and exchange ideas, contacts, or referrals. You can use pitch competitions to present and demonstrate your technology to a panel of judges, investors, or experts, and get feedback, exposure, or funding. You can use incubators or accelerators to join a program that provides you with mentoring, training, resources, and access to potential partners, investors, or customers. You can also use online platforms to showcase your technology to a wider audience, and connect with people who are looking for or offering similar technologies.

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![](_page_12_Figure_1.jpeg)

*#4: Manage the risks, costs, and benefits of technology commercialization*. You need to balance the technical, financial, and operational aspects of bringing your technology to the market. You need to plan ahead for potential challenges, such as delays, failures, disputes, or lawsuits. You also need to monitor and evaluate your progress and performance, as well as adjust your strategy accordingly.

This means that you need to consider the trade-offs and uncertainties 0 involved in developing and marketing your technology. You need to anticipate and prepare for possible problems or obstacles that may arise along the way, such as technical glitches, budget overruns, market changes, or legal issues. You also need to measure and assess how well you are doing and what you can do better, such as by setting goals, milestones, indicators, and feedback mechanisms. You also need to be flexible and adaptable to changing circumstances and opportunities, such as by revising your plans, methods, or partners.

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You can use various tools and methods to help you manage these aspects. For example, you can use risk analysis to identify and evaluate the potential threats and opportunities that may affect your technology commercialization process, and devise strategies to mitigate or exploit them. You can use cost-benefit analysis to compare the expected costs and benefits of different alternatives or scenarios for your technology commercialization process, and choose the most optimal or feasible one. You can also use project management tools to plan, organize, execute, monitor, and control your technology commercialization activities, such as by defining tasks, roles, resources, schedules, budgets, quality standards, and communication channels.

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*#5: Deal with ethical, social, and environmental issues related to technology development and diffusion.* You need to consider the impact of your technology on society and the environment, as well as the expectations and responsibilities of various stakeholders. You need to adhere to ethical principles and standards, as well as comply with relevant laws and regulations. You also need to engage with the public and address any concerns or controversies that may arise.

![](_page_14_Picture_2.jpeg)

This means that you need to think about the consequences and implications of your technology for people and the planet, both in the short term and in the long term. You need to respect the rights, interests, and values of different groups or individuals that may be affected by or involved in your technology, such as customers, employees, suppliers, regulators, competitors, or communities. You need to follow the rules and norms that govern your field of technology, as well as the laws and regulations that apply to your location or market. You also need to communicate and interact with the public and other stakeholders about your technology, its benefits, its risks, its limitations, its alternatives, or its controversies.

## What are the processes of Negotiation with Financiers, Government and Regulatory Authorities

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Negotiating with financiers, government and regulatory authorities is a complex and challenging process that involves many factors and skills. Here are some of the processes that may be involved in such negotiations:

*#1:* Preparing and presenting a compelling case for your project or proposal. You need to demonstrate the value, feasibility, and impact of your project or proposal to the financiers, government and regulatory authorities. You need to provide clear and convincing evidence, data, and arguments to support your claims. You also need to anticipate and address any potential objections, questions, or concerns that they may have. You can use tools such as business plans, financial projections, market analysis, risk assessment, and impact evaluation to prepare and present your case.

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#2: Building trust and rapport with the decision-makers and stakeholders. You need to establish and maintain a positive and respectful relationship with the financiers, government and regulatory authorities. You need to show that you understand their interests, needs, and constraints, and that you are willing to cooperate and collaborate with them. You also need to communicate effectively and transparently with them, and keep them informed of any changes or developments in your project or proposal. You can use tools such as networking, social media, newsletters, meetings, and feedback mechanisms to build trust and rapport with them.

![](_page_17_Picture_0.jpeg)

#3: Negotiating the terms and conditions of the agreement. You need to negotiate the details of the agreement with the financiers, government and regulatory authorities. You need to identify and prioritize your goals, options, and alternatives, as well as those of the other parties. You need to find common ground and mutual benefits, as well as resolve any conflicts or disputes. You also need to adhere to the legal and ethical standards and norms that apply to your project or proposal. You can use tools such as negotiation strategies, tactics, techniques, and skills to negotiate the terms and conditions of the

![](_page_17_Picture_2.jpeg)

agreement.

# What will be the Strategies for pricing

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Some strategies for pricing are:

Value-based pricing: Pricing a product or service based on how much the customer perceives its value and is willing to pay for it. This strategy requires a understanding of the customer's needs, deep preferences, and willingness to pay, as well as the benefits and differentiation of the product or service. For example, a coffee company with strong brand loyalty and quality may charge higher prices than its competitors based on the perceived value of its products.

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Competitive pricing: Pricing a product or service based on the price of competing products or services in the market. This strategy requires a careful analysis of the market, the competitors, and the positioning of the product or service. For example, rental properties that lower the rental price to match or undercut the market average to attract more tenants.

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**Price skimming:** Setting new product prices high and subsequently lowering them over time as demand declines or competition increases. This strategy aims to maximize profits by capturing customers who are willing to pay a premium for a new or innovative product or service. For example, innovative electronics sold initially at high prices and then reduced as newer models are introduced.

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**Cost-plus pricing:** Pricing a product or service by adding a fixed percentage or amount of profit to the total cost of production or delivery. This strategy ensures that the business covers its costs and earns a desired profit margin. For example, a restaurant that charges \$15 for a dish that costs \$10 to make, resulting in a 50% markup.

**Penetration pricing:** Pricing a new product or service low to quickly gain market share and customer loyalty. This strategy aims to create a large customer base and generate word-of-mouth referrals, as well as discourage potential competitors from entering the market. For example, a streaming service that offers a low introductory price or a free trial period to attract subscribers.

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*Economy pricing:* Pricing a product or service low to target price-sensitive customers and achieve high sales volume. This strategy requires minimizing costs and expenses, such as marketing, packaging, and distribution. For example, generic or store-brand products that offer basic features and functionality at low prices.

#### **DYNAMIC PRICING TABLE**

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Dynamic pricing: Pricing that varies based on market and customer factors, such as demand, supply, seasonality, location, time, or behavior. This strategy allows the business to adjust prices in real time to optimize revenue and profit. For example, rideshare services with price surges during peak hours or events.

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