

University of Mohamed Khider Biskra
Faculty of Science And Technology
Departement of electrical engineering
First year science and technology-reneweable energy
Course: Professions in science and Technologies 2
2021-2022
Semester 2
Dr:A.Boucetta

CHAPTER 7

SUSTAINABLE DEVELOPMENT AND BUSINESS

COURSE OVERVIEW

1. The company/ Economic actor
2. Impact of the company's activities on the environment
3. SD & Enterprise

The company/ Economic actor

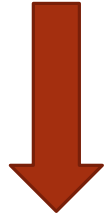
- The company brings together all the activities of an individual or a group of individuals who work to provide goods or services to customers.
- It can have various regulatory statuses.
- The objective of the company is to satisfy its customers to create wealth. This allows for job creation and salary payments. Through the payment of taxes and duties, the company also contributes to collective life.

Target objective

Economic Development



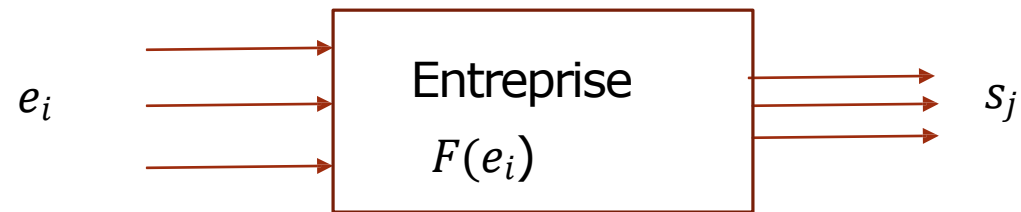
Growth of endogenous capacity



Collaborative work under a common strategy and goal at the national level

Enterprise model

systemic approach



$$s_j = F(e_i) \quad \text{Max } F(e_i)$$

Constraints:

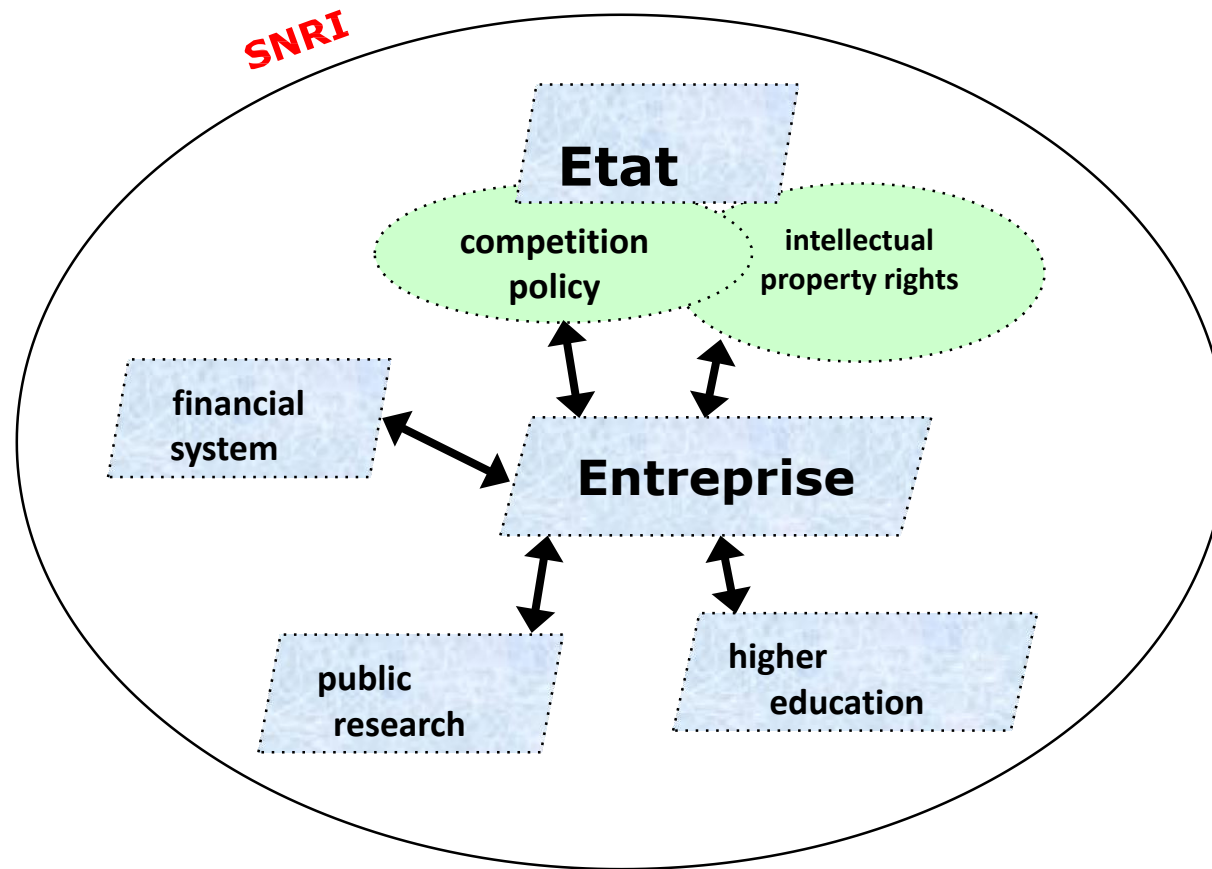
Technology

Management mode

Quality of resources

New approach

Integrated approach: National Research and Innovation System Concept



4 column template

- 4-column template for strengthening national innovation systems

Overall conditions (Economic; Policy; Legal; Administrative) Ex: Banking System/Financial; Transparency; Low Protection; Monopolization; Value of Innovations in Culture/Mentality etc...	Education system (Availability; Quality and access to vocational training; Qualification; R&D institutions and structures; etc.)	Network development Between economics and science (national and international) through effective and recognized/solicited organizations. (In Germany for example: Steinbeis; Fraunhofer; Technology Centres)

Impact of the company's activities on the environment

Some examples :

- ✓ Challenges/benefits of Sustainable Development for the company
- ✓ Means of engagement in a Sustainable Development approach:
- ✓ iSO 14001 Certification
- ✓ Labeling techniques (Ecolabel, Organic label, FSC label, energy labeling, ...)
- ✓ Global Reporting Initiative (GRI)...
- ✓ Global rankings of the most sustainable companies (Dow Jones Sustainable Index, Global 100, ...)

SD & Enterprise

- It is now a matter of integrating Sustainable Development (SD) into the company's strategy, at the organizational level and even in daily management, to steer it and make it one's own.
- SD Strategic Plan: Establishment of SD departments
 - Identifying SD issues
 - Adapting the SD approach to the company's culture and sector of activity
 - Managing people through SD
 - Steering SD
 - Human Resources in service of SD
 - Evaluating one's SD approach
 - Adhering to a framework.
 - Integrating finance into one's SD approach
- Reference: [: https://www.dunod.com/entreprise-economie/boite-outils-du-developpement-durable-et-rse-53-outils-et-methodes](https://www.dunod.com/entreprise-economie/boite-outils-du-developpement-durable-et-rse-53-outils-et-methodes)