



1. Innovation ecosystem in [Tunisia/CAP BON]

This document will give you an information about the Innovation ecosystem at the National Level and also at the regional level, specifically in CAP BON. The aim of this project is the development of the CAP BON region in his main sectors.

The Innovation ecosystem at the National Level:

In fact, Tunisia is one of the typical innovation leaders in Africa. It has a higher expenditure on education and R&D. It has a strong financial market indicators such as venture capital deals. An openness to technology adoption and inward knowledge flows. It has an improving research base. An active use of information and communication technologies (ICTs) as well as a stronger use of their IP systems. Tunisia is well classified in innovation in MENA region. His Global Innovation Index (GII 2020) is 65/131. *Source: World Intellectual Property Organisation (WIPO).* As an Institution, Tunisia has 14 universities with a General Direction for Technologic studies (DGET). About 600 Laboratories and units and 40 Research centers. It has also 10 Technopoles and about 72 support structures. 199 financial mechanisms. 21 Incubators/accelerators. 701 start-ups. 68 Fab Labs. 120 Investors, 19 cyberparks and 68 public services. As an innovation Infrastructure, Tunisia has essentially: El Ghazala Technopole for ICT. The Bio technopole of Sidi Thabet for Health sector. The Technopole of Sfax, the Bizerte competitiveness pole for Agrifood, the Monastir competitiveness Pole for Textile, The Gafsa competitiveness Pole. The Innovation Cedria Smart Tech and the south competitiveness Pole. The Business environment include the Tunisian Union for Industry, Commerce and Hand Craft (UTICA), the Confederation of Citizen Entreprises of Tunisia (CONNECT), the Mecatronic clusters, the TexMed clusters, the Pharma in: Pharmaceutical cluster, the Lactimed Cluster, the Anima investment Network (ANIMA), the Interprofessional Group of Fishery Products (GIIP), the Union of Small and medium Industries of Tunisia (UPMI), The Tunisian Union of Agricultures and Fisheries (UTAP), the Arab Institute of Business Leaders (IACE). Tunisia has several support structures like the National Agency for scientific Research Promotion under the Ministry of Higher education and Scientific Research (MESRS). The Agency for Promotion of Industry and Innovation (APII). The National Institute of Normalization and Industrial Property (INNORPI). The Tunisian R&d Platform. The Agriculture Investment Promotion Agency (APIA), the University National Center of Scientific and Technical Documentation (CNUDEST). Concerning the Incubators and the accelerators, we have the Wiki Start up. the Network of services for entrepreneurs and enterprises (RNPE). The Biat Foundation, Labess incubator, The Network of Agricultures enterprises (RNPEA) and The Business Intelligence Center. *Source: Ministry of Higher Education and Scientific Research (MESRS).*

The Innovation ecosystem at the Regional Level: CAP BON

CAP BON is in northeaster of Tunisia, surrounded by the Mediterranean Sea on both sides. It is administrated by Nabeul Governorate. It is known by its agricultural riches and its touristic potentials. CAP BON is also known in Tunisia and abroad for its handicraft which consists of artistic potteries. (Figure N°1) The CAP BON has a touristic vocation. It has led to the prosperity of the artisanal activity of the region, in particular pottery, stone sculpture, leather goods and mosaics. Moreover, despite its limited useful agricultural area (4% of the total agricultural area of the country), the governorate contributes up to 15% of national agricultural production, thanks to the know-how of farmers and their specialization in certain areas. products such as tomatoes, peppers, citrus fruits... The region represents 85% of the national production of citrus fruits, 63% of the national production of tomatoes 97% of the national production of strawberries, 40% of the vine products and 90% of the national production of condiments.





Fish fishing remains a primary activity in the local economy, it represents 16% of national production, or nearly 166,000 tonnes. The governorate also has 712 industrial companies (with 10 jobs or more), particularly in the processing of agricultural products (canned tomatoes, jam, wine, etc.). 346 companies are totally exporters operating in the sectors of industry, services, agriculture and tourism. The number of foreign and mixed-capital companies amounts to 460. *Source: INTECMED RAIT report 2020*

2. How the ecosystem will be supported by INTECMED project

Intecmed Project give us the opportunity to coordinate many activities of technology transfer with other structures from other ministries at regional level. In fact, through the Regional Alliance of Innovation (RAIT), we become closer to the region to promote the commercialisation of research results through innovative incubators. Through this approach, we make connections with enterprises, start-ups, investors, mentors and researchers to encourage start ups to develop their region in two main sectors in CAP BON: Agrofood and Hand Craft. The ecosystem will have the competence in the future to do this experience with other sector to develop other regions. Also, the benefit of this project is not only at the national level but also at the international level through e-bazare platform and through study visits and through exhibitions.

3. The Regional Alliance of Innovation Transfer (RAIT) in [Tunisia/CAP BON]

The RAIT is an effective tool promoting regional development based on quadruple Helix approach (*Figure N°2*). It is an interface between many actors (Public and Private) sharing the same objectives and focusing on the same sector. The RAIT was composed on key representatives' members of the regional innovation ecosystem of CAP BON. It is a Group of decision-makers, academics, entrepreneurs, and civil society with the obligation of proximity, interaction and sharing interests.

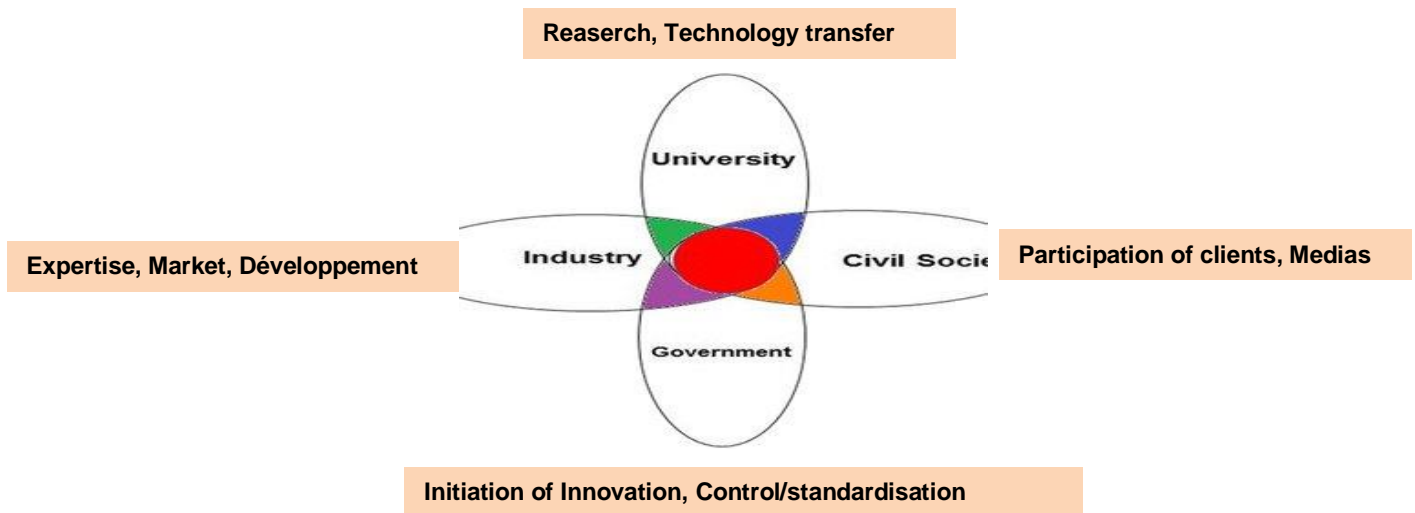


Figure N°2: Quadruple Helix Approach



In fact, the benefit of the decision-makers is to promote new opportunities for business creation in the region. For Academia, the benefit is the Promotion of their products and transfer their technology on a national and Mediterranean level. For the Industry: The openness to new solutions to their needs, new products, new services, national and Mediterranean networking, new markets. The benefit for Civil society is to find Responses to their customer needs. So, the government is there to initiate, control and adjust all the activities. His benefit is to develop 12 start-ups in the main sectors of the region. The scientific are there to share their knowledge in the evaluation of the projects and their impacts. The enterprises will share their expertise and present their needs. Also, the civil society will share the realistic needs of the client. So, the RAIT is a good tool for the networking between Private and Public sectors. The main actors in the RAIT of Tunisia are essentially from: government, academia, Industry, and civil society like mention in the table below.

Table N°1: The composition of Tunisia RAIT

Government	Academia	Industry	Civil Society
<p>The National Agency for the Promotion of scientific Research (ANPR)</p> <p>Chamber of Commerce and Industry of Cap Bon (CCI CAP BON)</p> <p>General Directorate for the Valuation of scientific Research (DGVR): Ministry of Higher Education and Scientific Research</p> <p>Borj Cedria Technopole Management Company (SGTBC): Ecopark</p> <p>Regional Union of Agriculture and Fishing of Nabeul (URAP Nabeul)</p> <p>Regional Delegation of Craft Nabeul (ONA Nabuel)</p>	<p>National Center for Research in Material sciences (CNRSM)</p> <p>Energy Research and Technology Center (CRTEN)</p> <p>Borj Cedria Biotechnology Center (CBCB)</p> <p>Water Research and Technology Center (CERTE)</p> <p>Higher Institute of Technology Studies of Nabeul (ISET Nabeul)</p>	<p>STIFEN entreprise</p>	<p>Creative Tunisia</p>



CBBC, CRTEn, CBBC, CNRSM.



Figure N°2: The CAP BON localisation

In fact, three meetings were done with the RAIT in March 2021 (Photo N°1) and February 2021 to present the project, discuss its objectives, the details of the conception and the implementation of the activities. We have also discussed the agreement and their missions in the project. We have done a ceremony (Photo N°2) to sign the Memorandum of understanding. We have also discussed the RFIP and the e-bizarré activities. The future activities will be the preparation of regional call, the organisation of dissemination events, Interplays, selection process etc.



Photo N°1: Webinar for the presentation of the project



Photo N°2: Ceremony of the signature of the Tunisia RAIT

Pr Chedly Abdelly, « ANPR »	Mr Moez Hasen, « CCI/CAPBON »	Mme Rim Said, « DGVR »
Mr Mohamed Hicheri, « URAP NABEUL »	Mr Slim Zouari, « URAP NABEUL »	Mr Mohamed M'dimagh, « ONA NABEUL »
Mr Anis Chaouachi, « CNRSM »	Mme Kalthoum Makhlof, « CRTEN »	Mr Naceur Djebali, « CBCB »

Photo N°3: The Memorandum of understanding signed by 13 Members

