

Twenty-fifth meeting of the Working Group of the Parties to the Aarhus Convention.

Thematic session on GMO's, 08 June 2021

Biosafety Activities: Tunisia

To address the impact of the fast-expanding living modified organisms (LMOs) resulting from modern biotechnology on the economy and the environment, many activities have been undertaken:

- ❖ Ratification of the Cartagena Protocol on Biosafety (2003);
- Undergoing capacity-building projects and training activities
- Development of a permanent commission on biosafety and three sub-committees (Legal framework, Network of Laboratories for GMO Detection & Quantification and Communication, education and public awareness).
- Creation of the National Gene Bank;
- Creation of institutes, schools, research centers and laboratories specialized in handling biotechnology: The sectors that developed the biotechnology approaches are agriculture, health, environment and industry;

Capacity-Building Projects financed by the United Nations Environment Programme – The Global Environment Facility (UNEP-GEF)

Main objectives relating to public awareness, education and participation on LMO's/GMO's

- Promote public awareness
- Establish and consolidate a fully functional and responsive regulatory regime taking into consideration participation of the public in decision-making according to the provisions of the Cartagena Protocol for Biosafety
- Develop initiatives to build capacities to promote public education and participation regarding LMOs/GMOs

Implementation of a National Biosafety Framework

- UNEP-GEF Project (2007 2015)
- National Executing Agency: Ministry in charge of Environment/ General Direction of Environment and Quality of Life (DGEQV)

Building Capacity for Effective public Participation in biosafety matters : (BCH 1 et 2)

- UNEP GEF Project (BCH1: 2007 2008 & BCH2 2011 –2013)
- National Executing Agency: Ministry in charge of Environment/DGEQV







République Tunisienne Ministère de l'Equipement, de l'Aménagement du Terntoire et du Développement Durable Développement Durable





Implementation of National Biosafety Framework in Tunisia

Abdelhakim Aissaoui¹, Hatem Ben Belgacem¹, Hazar Belli¹, Maher Medini², Sana Jaballah³, Raoudha Hellal⁴, Afef Saffar⁵ and Maher Chaouachi⁵

1: Ministry of Environement and Sustainable Development, 2: National Gene Bank, 3: Agri-Food Technical Center, 4: Central Laboratory of Analysis and Assays, Laboratory of Seed Analysis and Plants , 6: High Institute of Biotechnology of Monastir

Project GEF / UNEP (GFL - 2328 - 2716-4953); National Executing Agency: MEDD / DGEQV; Cost of the project: 927.000 US\$; GEF fund 848.900 US\$; Co-financing: 78.000 US\$ (in cash); Duration of the project (June 2007 - Mars 2015)

MAIN OBJECTIVES

- To integrate biosafety in to a national development strategy;
- To establish and consolidate a fully functional and responsive regulatory regime in line and other international obligations;
- Prepare specific training guides and manuals;
- Enhance existing institutional facilities and infrastructures to undertake GMO detection and monitoring activities;
- Set up a mechanism for monitoring of enforcement;
- Promote public awerness and participation.

Output 5: Public awareness, participation and education

- Organization of several meetings of awareness
- Organizing a week of biosafety during the last week of may 2013 for
- many NGO and different stakeholders : information & awareness
- Organizing the days of biodiversity and biosafety during the last week of may 2015: information & awareness, media involved
- ◆Edition and dissemination of an interactive Cd rom on GMO's in the
- different national events





◆Translate, design and publication of technical guides, strategy and action plan on biosafety

- ◆2014 : Creation of commission of communication and public
- Action plan of communication on biosafety was prepared and on going to be adopted
- Example of survey results with a sample of 2000 people

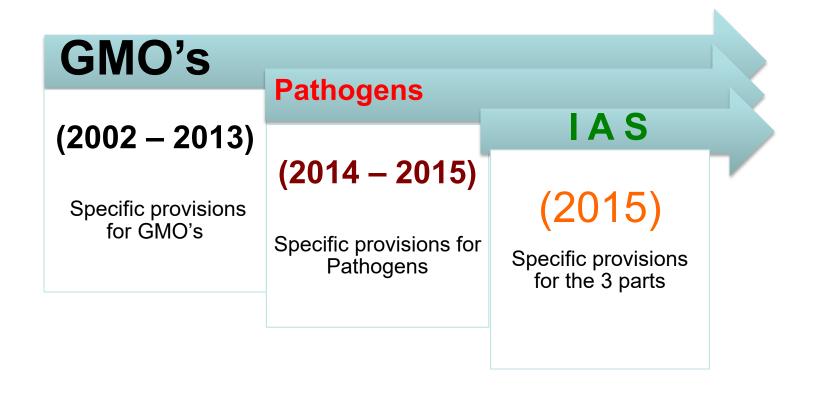
Avez-vous déjà entendu parler des OGM (Organismes Génésique mens Modifièr *) « Out « Hom





Institutional Measures

Draft biosafety law (case of GMO's): Include articles (22 and 23) about participation of public in decision-making



Creation of many NGO's specialized in biosafety and Biotechnolgy issues: Civil society directly involved in the process of awareness and education

Institutional Measures

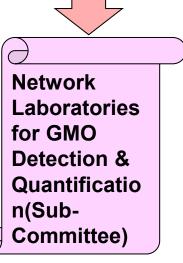
Program of Work on public awareness, education and participation (2011-2020)

Establishment of sub-committee of Communication, Education and Public Awareness regarding GMO's - 2014:

- 1. Implementation of national communication plan on biosafety (case of GMO's).
- 2. Ensure the respect of our national obligations in accordance with Cartagena Protocol in terms of information exchange in Biosafety and activate the National BCH (in particular Articles 20, 21 and 23);
- 3. Develop and validate supports and outreach materials for public awareness and education

National Technical Committee on Biosafety





Communication,
Education and
Public
Awareness
(SubCommittee)

How has the public benefited? Awareness

❖ Development, translation and dissemination of publications and technical guides in native language

Introductory guide for biotechnology, biosafety and GMOs detection and quantification (in French and English)

Technical guide of the biological risk analysis related to the use of natural and genetically modified organisms (in French and English)

National Strategy and Action Plan on Biosafety (the case of GMO's)

Booklet and interactive CD on GMOs









❖ Dissemination: BCH : https://bch.cbd.int/database/record.shtml?documentid=109202

How has the public benefited: Awareness

National Level

Public awareness seminars and workshops:
Celebration of the International Day for
Biodiversity: opportunity to promote the different
activities related to biosafety issues and involve
local community in biosafety matters



Regional Level

GMO detection training for arabic countries: National Gene Bank in 2016



League of Arab States Arab Organization for Agricultural Development





Workshop on Detection and Identification of Living Modified Organisms for Francophone Africa, Tunis, Tunisia in 2018









Public Education and participation

Biosafety in academic courses at universities: Biotechnology and Agricultural Institutes

Civil society promoting biosafety education programs:

Biosafety caravans







Preparing and adopting of a National Action Plan for Communication on Biosafety (4 Parts): Many actions were developed to promote public participation















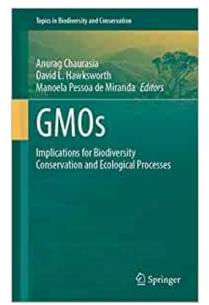
Useful links





Biosafety Protocol News 2018/ CBD, Biosafety Unit: Experiences and Lessons Learned from Tunisia https://bch.cbd.int/protocol/outreach/newsletter/tunisia's%20article.pdf





Tunisia Chaptar on the GMO's Implications for Biodiversity Conservation and Ecological Processes book published by Springer: The Use of Modern Biotechnology in Tunisia – Regulatory Framework https://link.springer.com/chapter/10.1007/978-3-030-53183-6_25

Challenges and Priorities

- Setting in place a national legal biosafety system
- ❖ Capacity to mainstream and promote biosafety into other plans and sector development policies (Industry, Agriculture, Health)
- Mobilization of financial resources to implement the NFB including some components of communication plan on biosafety: Process Sustainability
- Private sector involvement
- Socio-economic consideration

Next steps

- ❖ Adoption of National Biosafety Law taking into consideration :
 - Post-COVID recovery plans
 - **❖** Adoption of National Food and Feed Safety law: 2019
 - Creation of the National Authority for Food Safety: 2019
- ❖ Capacities Building of Network of National Official Control Laboratories for GMO Detection & Quantification : training on BRM; Synthetic Biology, Sequencing; Personal Protection Equipemets that meet with Biological Security standards;
- Accreditation Process of National Control Laboratories for GMO's,
- Implementation plan for the Cartagena Protocol and capacity building action plan (2021-2030)

شكرا على حسن المتابعة

Thank you for your attention

Merci pour votre attention

Gracias por su atención

Спасибо за внимание