



National School of Agriculture in Meknès Morocco

Knowledge Management Processes in ENA-Meknès



Workshop «Knowledge Management » Rabat, 19 June 2022



Ecole Nationale d'Agriculture de Meknès

History

- 1942: Creation of Moroccan School of Agriculture
- 1957 : Change of name :
Moroccan School of Agriculture => National School of Agriculture of Meknès
- 1964 : Implementation of 4-years program
=> Training of polyvalent agricultural engineer
- 1972 : Implementation of 4-years program
=> Training of specialized agricultural engineer
- 1986 : Implementation of 6-years program
=> Training of specialized agronomist engineer (Master degree)
- 2008-2009: Alignment on « Bac + 5 » training system



Status

- The National School of Agriculture (ENA) in Meknes (ENA) is a **public institution of higher education in agriculture with administrative and financial autonomy.**
- Since its creation in 1942, ENA was placed under the **Governmental Authority in Charge of Agriculture.**
- As an institution of higher education, ENA must comply with the **regulations of the law 01-00** which organizes higher education sector in Morocco.
- Accreditation of the education curriculum and the management of faculty members career is under the Governemental Authority in charge of Higher Education



Missions

According to the law 01-00, the missions of ENA consist of :

- Providing **quality education** programs leading to the degree of “**Ingénieur Agronome**” equivalent to a Master’s Degree
- Undertaking **continuing education (training)** programs to prepare youth for the integration in the job market;
- Carrying out **scientific and technological research activities** in the various fields of agriculture and rural development;
- Contributing to **knowledge dissemination and technology transfer.**



Students and Alumni

Students (2021-2022) :

- ✓ Current Student Nb : 540 (120-130 students/year, 10 % foreign students)
- ✓ Women : 333 (64,5 %)
- ✓ Foreign Students : 36 (13 Nationalities)

Alumni :

- ✓ By the end of the year 2021, more than 4000 alumni have graduated (450 of them are foreign from the Sub-Saharan Africa countries).
- ✓ ENA's Alumni are active in various fields, both at the national and international levels
- ✓ Insertion rate : 96% (62% in the private sector, 26% in the public sector, 12% in the semi-public sector); 58% in the agricultural sector.



Resources and Facilities

Human Resources:

- ✓ 60 permanent faculty members
- ✓ 20 vacancies (teachers + professionals)
- ✓ 140 administrative, technical and support staff



Resources and Facilities

Facilities :

✓ ENA is organized in **8 training and research departments** :

- Basic Sciences and Food Technology
- Agronomy and Plant Genetics
- Arboriculture-Viticulture
- Plant Protection and Environment
- Soil Science and Agricultural Machinery
- Animal Production and Range Management
- Agricultural Economics
- Rural Development Engineering



Resources and Facilities

Facilities :

Modern teaching and research facilities :

- Modern Educational Block : 5 Amphitheatres
- Classrooms
- Laboratories (Labs/Dept and Central Lab)
- Library, ENAnet Center
- Pedagogical Farm (Practical education)
- Housing studios for national and international trainees



Knowledge Creation

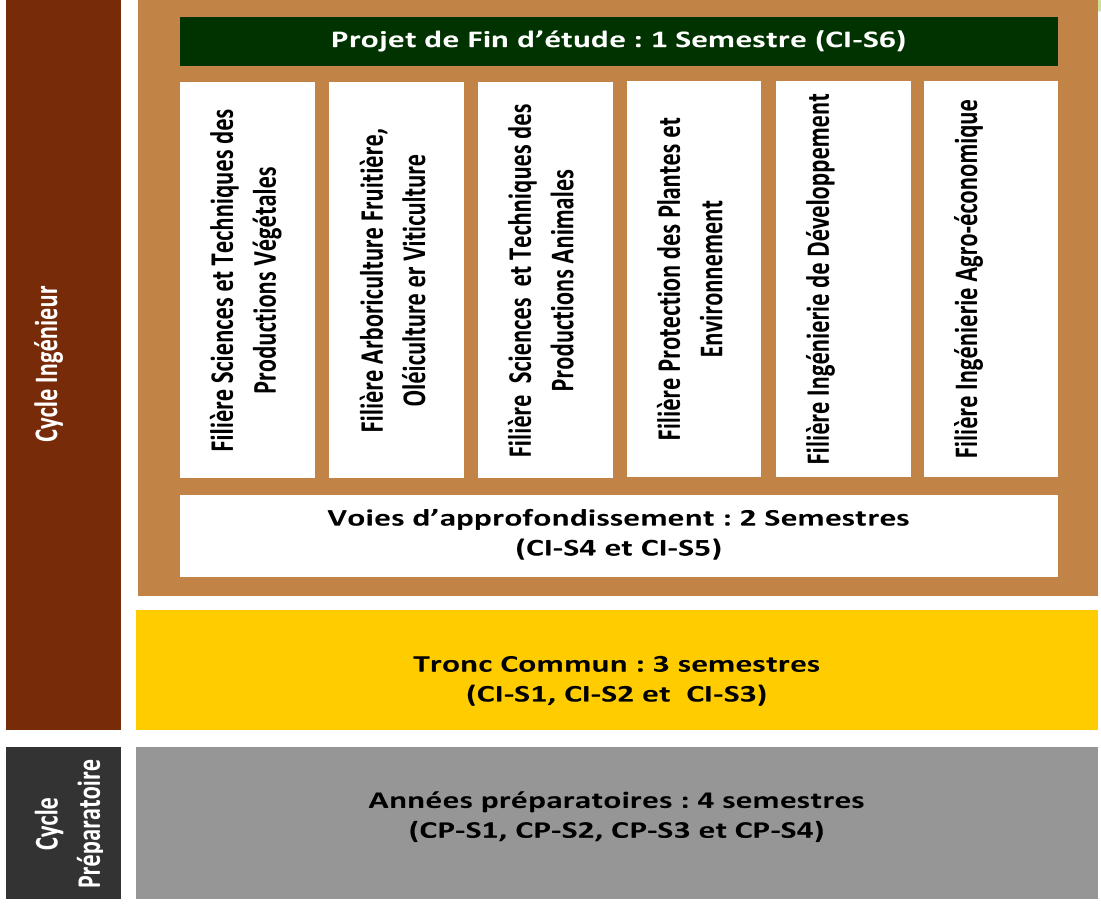
**As a higher education institution,
Knowledge is created by :**

- ✓ **Education**
- ✓ **Research**



Knowledge Creation : Education

*Accredited curriculum
2014-2019
In accordance with
National Standards of
Pedagogical
Regulations*



*New accreditation in preparation (2019-2024) :
Readjustment of
education programs
according to the needs of
the profession and the
labor market*



Knowledge Creation : Research and Research-Development

Integrating Education with Research:

- Education through research : use of research results and experiences in education
- Education to Research : initiation of students to research (seminars, graduation thesis)

Integrating Research with Development :

The areas of Research must target national priorities of agricultural and rural development (Green Morocco Plan Strategy) as well as respond to expectations of professionals.



Knowledge Creation : Research and Research-Development

Research areas :

The research areas covered are mainly those of the **Green Morocco Plan / NEW Green generation:**

- Crop production and diversification for various ecological zones in Morocco
- Fruit trees development, olive growing and viticulture
- Natural resources management: soil, water, rangeland, forests, etc.
- Biodiversity, biotechnology and plant genetic improvement
- Animal production on farm and on rangeland
- Food technology and local produce valorization
- Protection of Plants and Environment
- Agricultural machinery and mechanization
- Agricultural economics and market research
- Rural sociology and development engineering
- Information Technology and Communication



Knowledge Creation : Research-Development

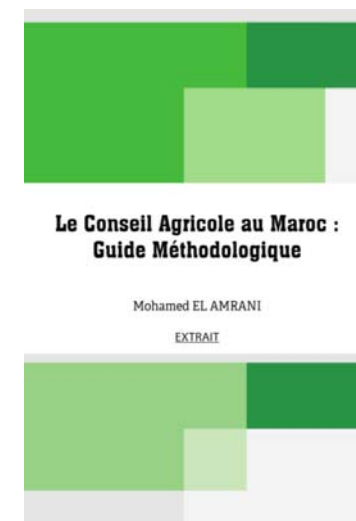
10 Accredited research team : 45 research axis

Intitulé de l'équipe	Acronyme de l'équipe	Nombre d'axes de recherche	Responsable de l'équipe
Dynamiques Rurales, Innovations et Développement Durable	DRIDURA	5 axes	Pr. EL AMRANI Mohamed
Sociétés Rurales et développement territorial	Rural <i>Observ</i>	4 axes	Pr. AZIZ Larbi
Technologies, Education et Développement Rural	TDRE	3 axes	Pr. FAGROUD Mustapha
Interactions Plantes-pathogènes et Phytoprotection	Phyto-ENA	4 axes	Pr Abdeslam TAHIRI
Zoologie Agricole	EZA	5 axes	Pr. BOUTALEB JOUTEI Abdelmalek
Agroécologie et Environnement	AGREE	6 axes	Pr. ECHCHGADDA Ghizlane
Amélioration et Valorisation en Production Fruitière	AVPF	5 axes	Pr. MESSAOUDI Zerhoun
Systèmes Sol-Plante-Eau-Climat et Management durable en Agriculture	SPEC-trum	3 axes	Pr. BOUABID Rachid
Biotechnologies, Procédés et Chimie des Aliments Fonctionnels et des Nutraceutiques	QualiFoods_ENA	5 axes	Pr. BELKORA Ilham
Diversité génétique, Agrophysiologie, Adaptation et Profilage chimique des plantes	DAAP	5 axes	Pr. BAHRI Hakima



Knowledge Creation : Scientific Production

- More than 120 Students Projects Graduation/year
- More than 90 scientific publications by year (1,5 publication/teacher/year)
- Annual production of a collection of scientific publications
- Edition of an online scientific journal (ENA-Meknès) : www.alternativesrurales.org (6th Number)
- Revue Marocaine des Sciences Agronomiques et Vétérinaires (IAV Hassan II)
- National and International Journals



Knowledge Storage

-Several Structures :

- A Service of Academic and Students Affairs : Management of Students Projects Graduation**
- Direction of Research : Management of Research, collection and sharing of scientific publications**
- Documentation Center with modern management tools : Storage and sharing the Knowledge (Books, Journals, Reports, Students Graduation Projects, ...)**
- Center of Training and Support to Rural Development : Production of audiovisual media on Pedagogical supports and new Innovations**



Knowledge Dissemination and Technologies Transfer

- Dissemination of knowledge and research achievements:

*** Scientific and technical publications : 90 publications/year in national and international Journals**

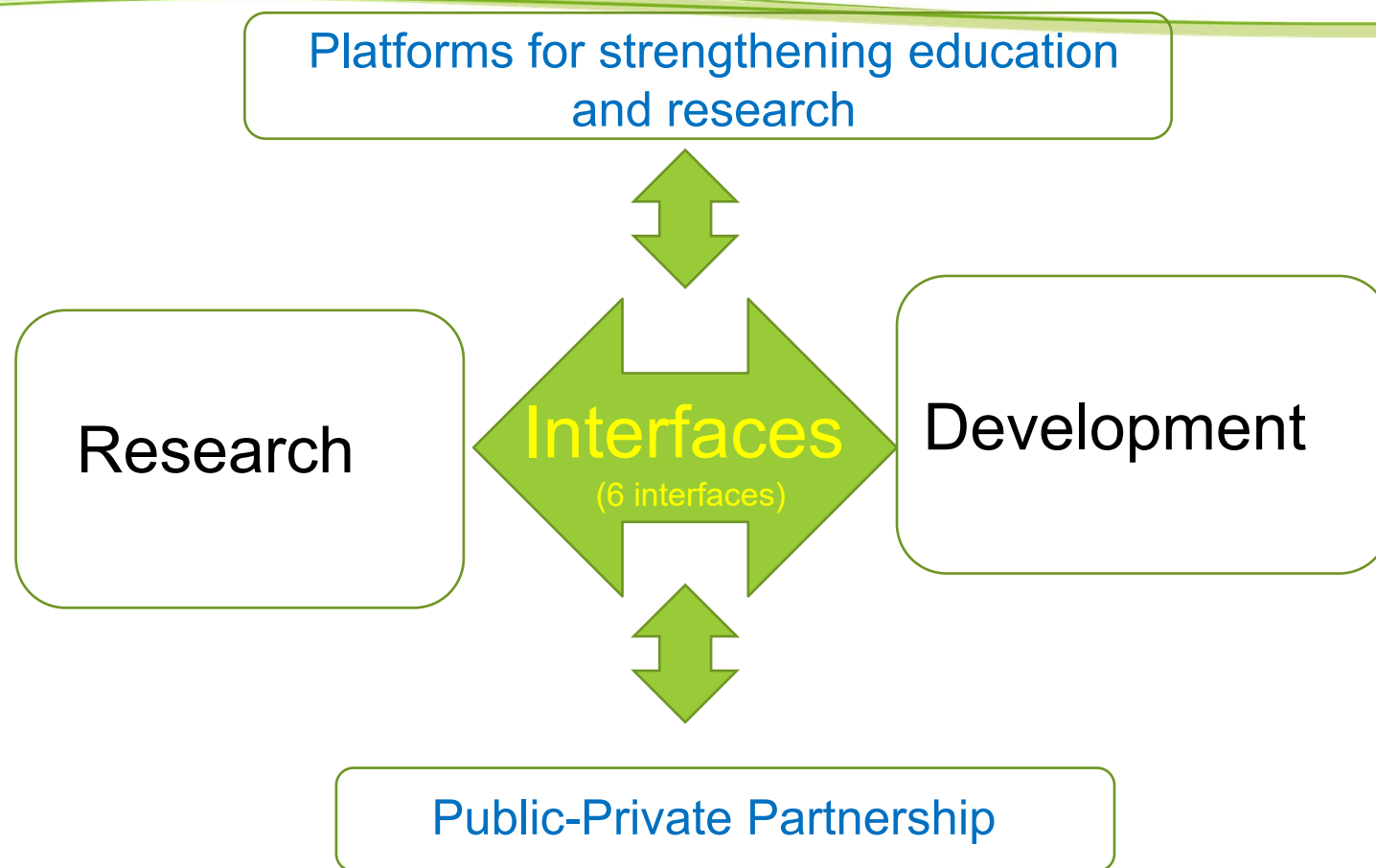
*** Seminars, Congresses, Workshops, Information days, ...: A hundred or so scientific and technical events between 2012 and 2018, nearly 15 events a year**

- Technology Transfer:

6 Interfaces and Competence Centers: Training, Demonstration Platforms, etc.



Knowledge Dissemination and Technologies Transfer



Knowledge Dissemination and Technologies Transfer

Pedagogical and Research Farm (90 ha):
Platform for practical education, research and technologies transfer



Knowledge Dissemination and Technologies Transfer

Agropôle Olivier :

a center of excellence for the development and promotion of the olive oil value chain. This center was created to assist and support the olive tree growers and the olive oil production in the country.

25 ha: orchards, nursery, laboratories, crushing plant, trituration residue recovery units, training, tasting competition, advice and technical assistance ...



Knowledge Dissemination and Technologies Transfer

Center for Training and Support to Rural Development :

a platform concerned with agricultural research and development studies, training for the agricultural sector, audio-visual production, expertise and extension



Knowledge Dissemination and Technologies Transfer

Ferti-Conseil:

a soil testing laboratory approved by the Government for soil- water-plant analyses and recommendations to farmers in terms of crop fertilizing and soil management.



Knowledge Dissemination and Technologies Transfer

Phyto-Conseil:

a plant pest and disease diagnostic laboratory concerned with identifying crop pests and diseases and issuing recommendations to farmers



Knowledge Dissemination and Technologies Transfer

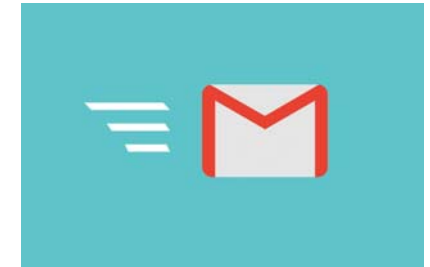
Center for Experimentation of Agricultural Machinery and Equipments (CEAMA):

a center of expertise for developing technical references and subsequent recommendations to the local farmers.



Knowledge Sharing Tools

- **Scientific and technical journals** : National and International
- **Open ENA Journal** : Alternatives Rurales : www.alternativesrurales.org
- **Scientific Events**
- **Training**
- **Library (Documentation Center)**
- **Internet** : email, website,
- **Social networks** : Facebook, Youtube,...
- **Media** : Radio and TV



Future Prospects

- Development of a new strategy of internal and external communication
- Development of a new strategy of Knowledge Management
- Support needed in terms of training and technical assistance





National School of Agriculture in Meknès (Morocco)

Thank you for your attention

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