



National School of Agriculture in Meknès (ENA)

Morocco

*Serving Agriculture
and Rural
Development for
more than 77 years*



June 2020



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**

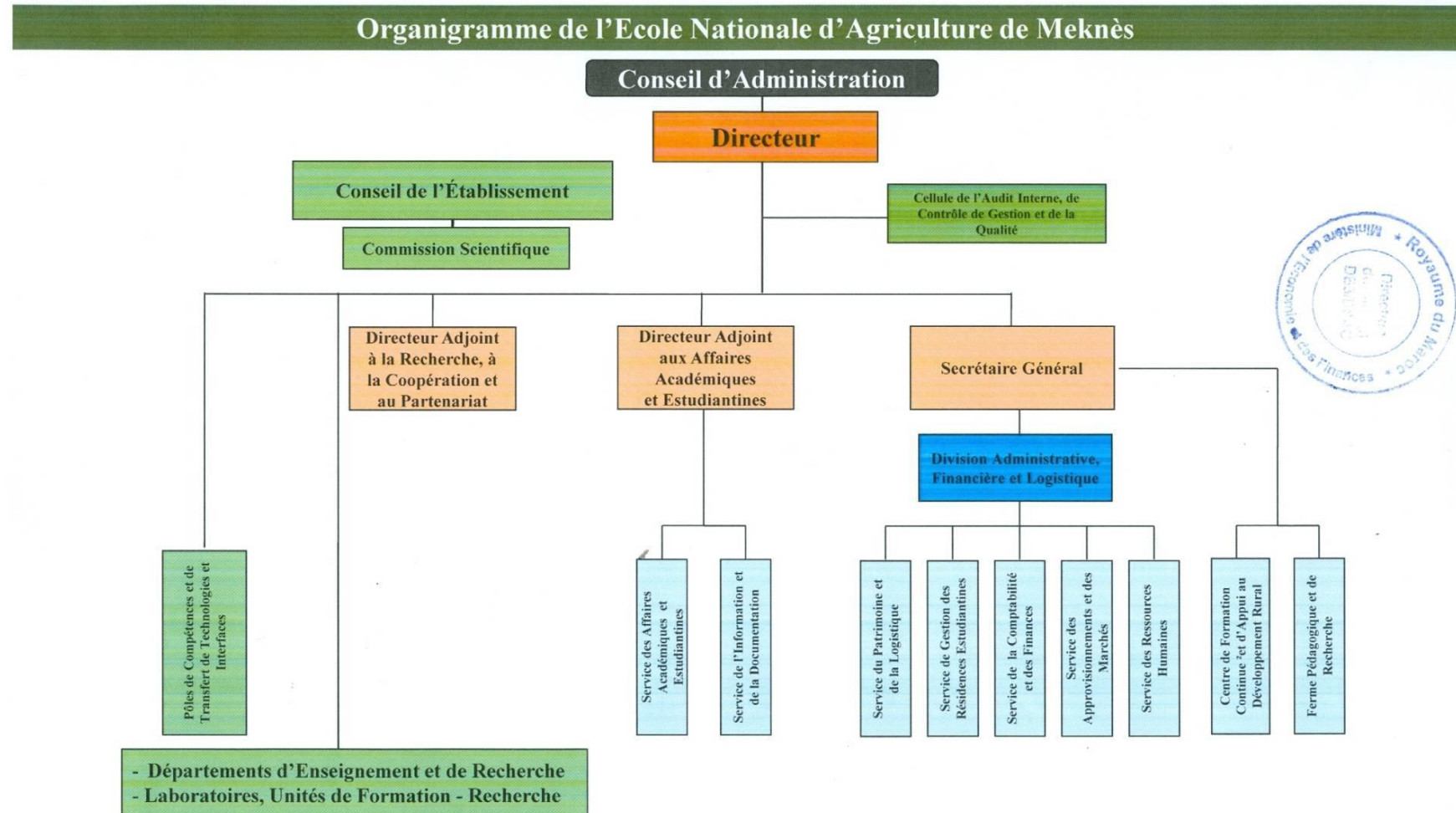
Missions

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**.

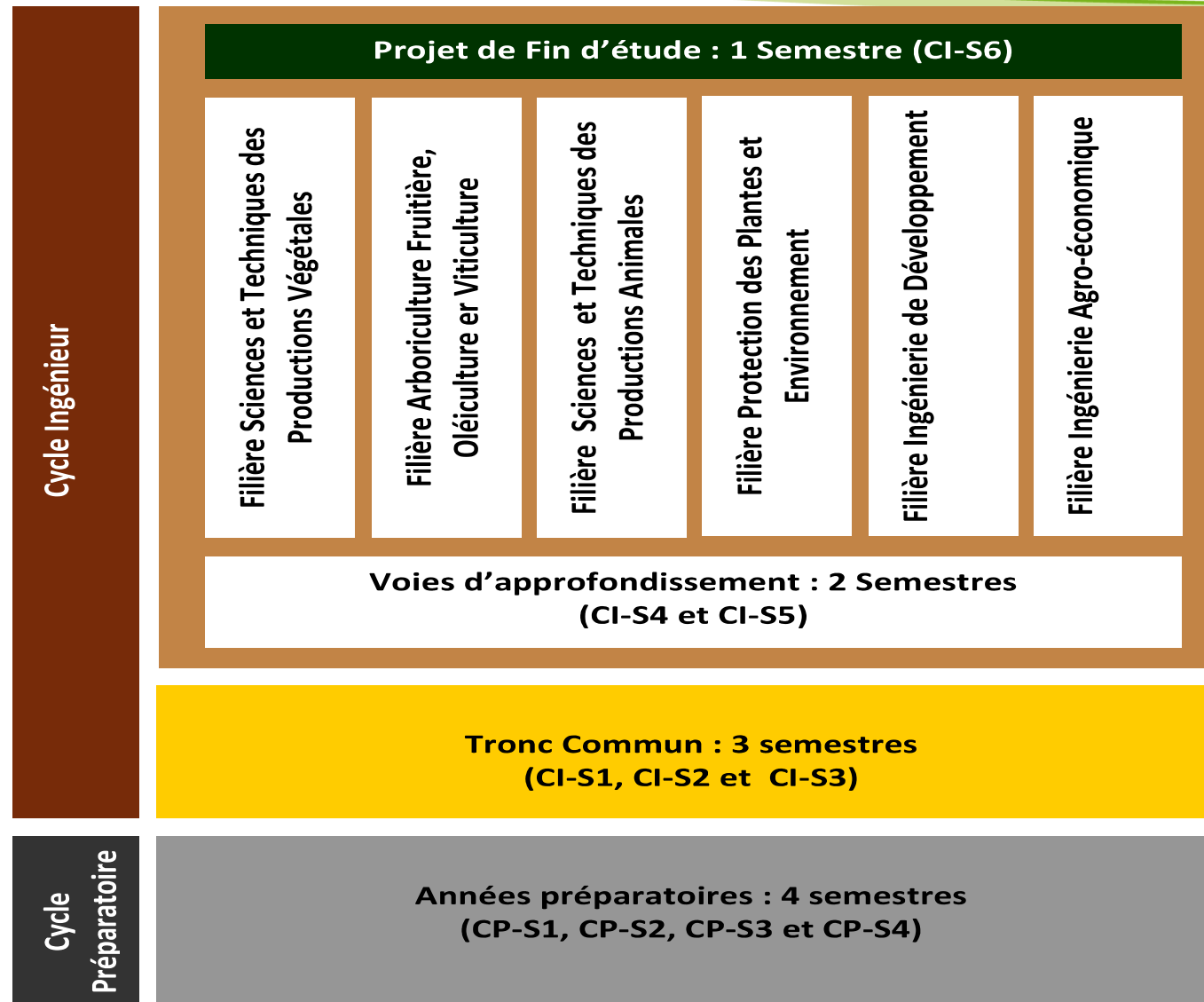


Governing bodies



Initial education: Curriculum

**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**

Initial education: Curriculum

Traineeships : Highlight of the education at ENA-Meknès

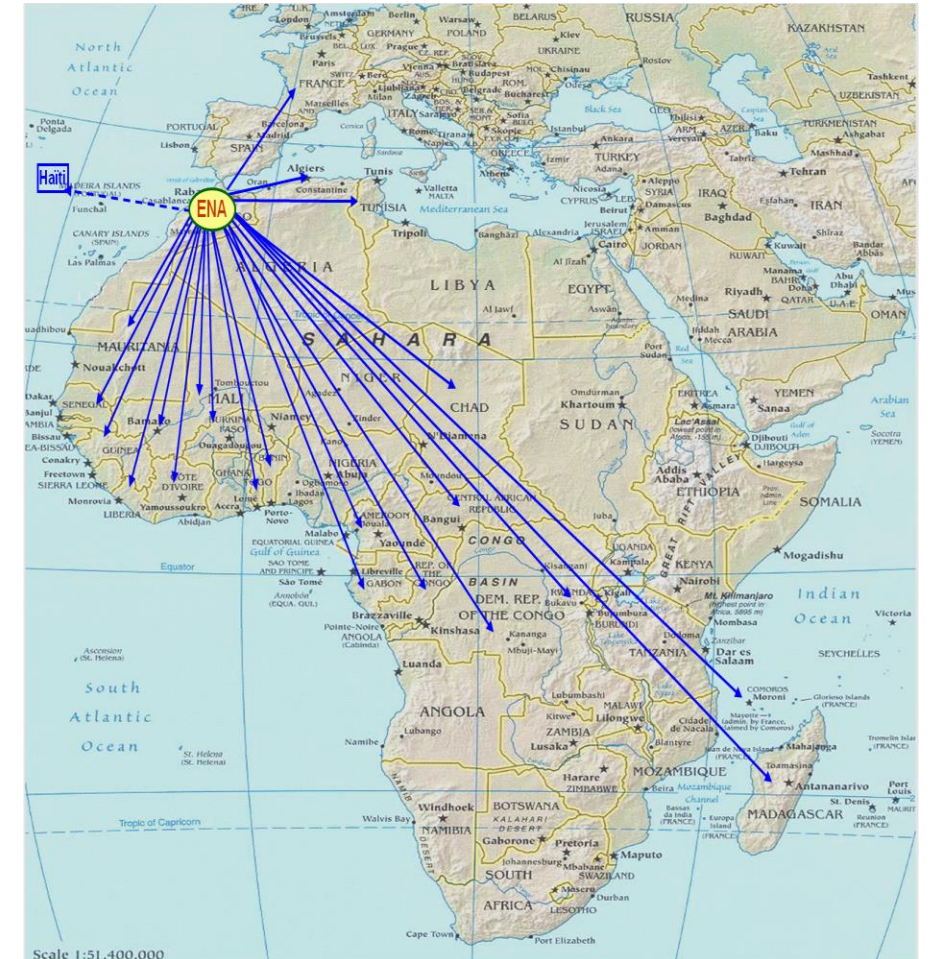
- Crucial importance in the training curriculum : duration (25-60% Total Hours/ semester), accompaniment, evaluation (1 module, coefficient 10)
- Permanent contact with the exploitation and agricultural institutions and companies
- Field or professional trainings are implemented to expose the students to real world experiences in agriculture and agro-industry
- Every year, there is at least one field training inserted in the program.

Alumni insertion

- **120-130 alumni** graduate each year (10% from francophone African countries; 13 countries in sub-Saharan Africa) and constitute good ambassadors of ENA and Morocco in their own countries.
- By the end of the year 2018, more than **3700 alumni** have graduated from ENA, with more than 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. They are hired by **governmental institutions** as well as by the **private sector**.
- An **alumni insertion monitoring unit**, has been created to follow and evaluate the insertion of alumni in the job market).
- Study on insertion (66th class, 2012): **insertion rate 96% (62% in the private sector, 26% in the public sector, 12% in the semi-public sector)**; 58% in the agricultural sector; 42% via insertion test; 29% via direct employer contact; 18% by response to an ad; 2% via Training Institution

Foreign alumni

- 10% of the total number of students per year
- 458 alumni between 1946 and 2018
- 225 alumni of 3 European Countries (1946-1991): France (215), Spain (10), Yugoslavia (1)
- 1 alumni of Palestine
- 227 alumni from 27 countries in sub-Saharan Africa (since 1960)
- Foreign alumni: Ambassadors of ENA and Morocco in their countries.



Alumni insertion

**Annual organization of an ENA
Students Forum in partnership with
the profession
(12th Edition in 2018)**



**Openness to the professional world
and preparation for insertion into
market job**



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.

Research-Development

Research areas :

The research areas covered are those of the **Green Morocco Plan**, namely:

- 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

Research-Development

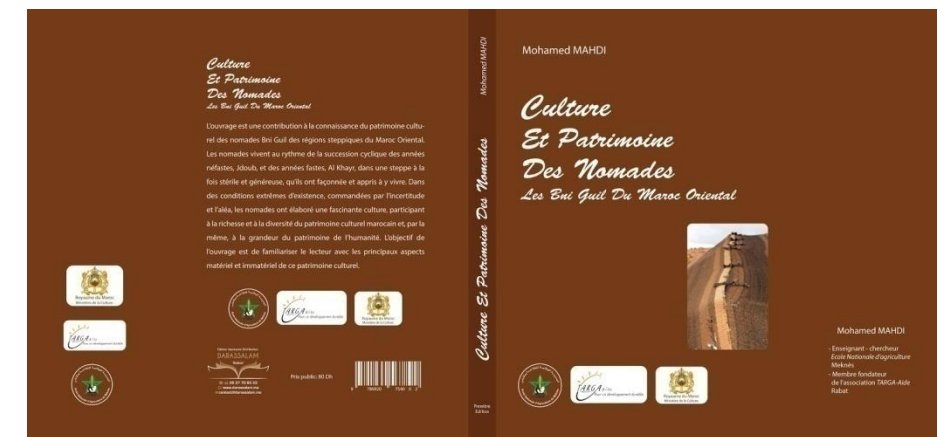
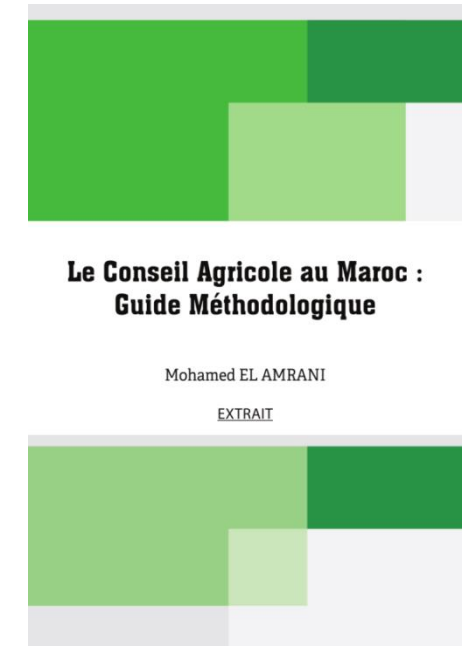
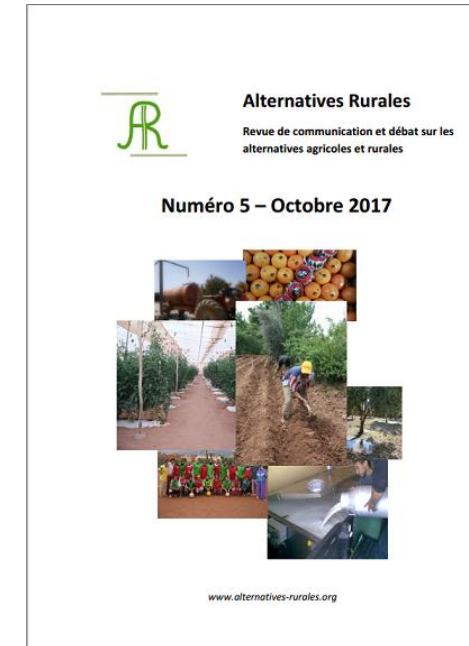
10 Accredited research team : 45 research axis

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

Research-Development

Scientific Production :

- 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:
www.alternativesrurales.org (6th Number)



Knowledge Dissemination and Technologies Transfer

- Dissemination of knowledge and research achievements:

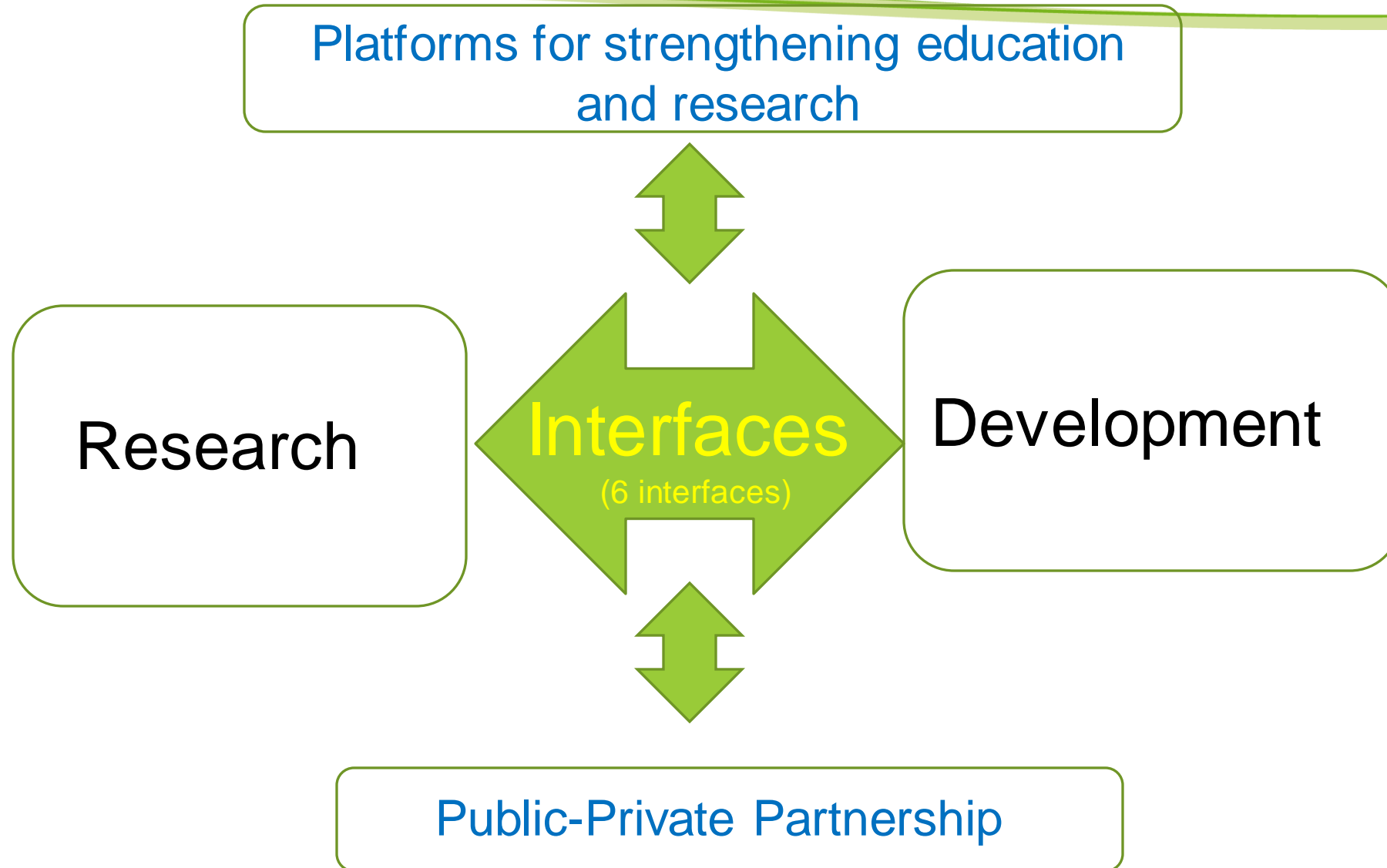
- * Scientific and technical publications : 90 publications/year**

- * Seminars, Congresses, 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.



Cooperation and Partnership

ENA works with various partners such as:

- Universities and higher education and research institutions (national and international)
- Public organizations
- Private operators
- Professional organizations
- Local government organizations
- Agencies for international cooperation
- NGOs

More than 60 cooperation agreements have been signed in the last 3 years



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 :

- Educational Block : Amphitheaters
- Classrooms
- Laboratories
- Experimental farm
- Library, internet
- Housing studios for national and international trainees and visitors)



Resources and Facilities

Student residences and dependencies:

Three dormitories (residences with a capacity of **600 students** with **dependencies** (restaurant, laundry, infirmary, sports facilities ...)).





National School of Agriculture in Meknès (Morocco)

Thank you for your attention

Abdellah ABOUDRARE

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Partnership***

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