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ⵎⴰⵔⴻⵎⴰⵏ ⵉⵏⵓⵔⵓⵏ ⵉⵏⵓⵔⵓⵏ ⵉⵏⵓⵔⵓⵏ
Institut National de la Recherche Agronomique

Information / Knowledge management at INRA - Morocco

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Agricultural research as an answers to strategic challenges



INRA is a public institution under the supervision of the Ministry of Agriculture, Fisheries, Rural Development , Water and Forests

1914 - 2014
100*ans*

INRA's mission is to ensure **sustainable** agricultural development and natural resources use (water, soil and biodiversity) through knowledge generation and technology creation.

INRA Organisation

The governance authority

Board of Directors

Decision-making body

Technical committee

Delegated by the BoD on technical specifications

Management

Executive body chaired by the Director

The Administration

Division of Human and financial resource management

Scientific Division

8 *Science Departments*

Division of Information and communication

INRA Organisation

10

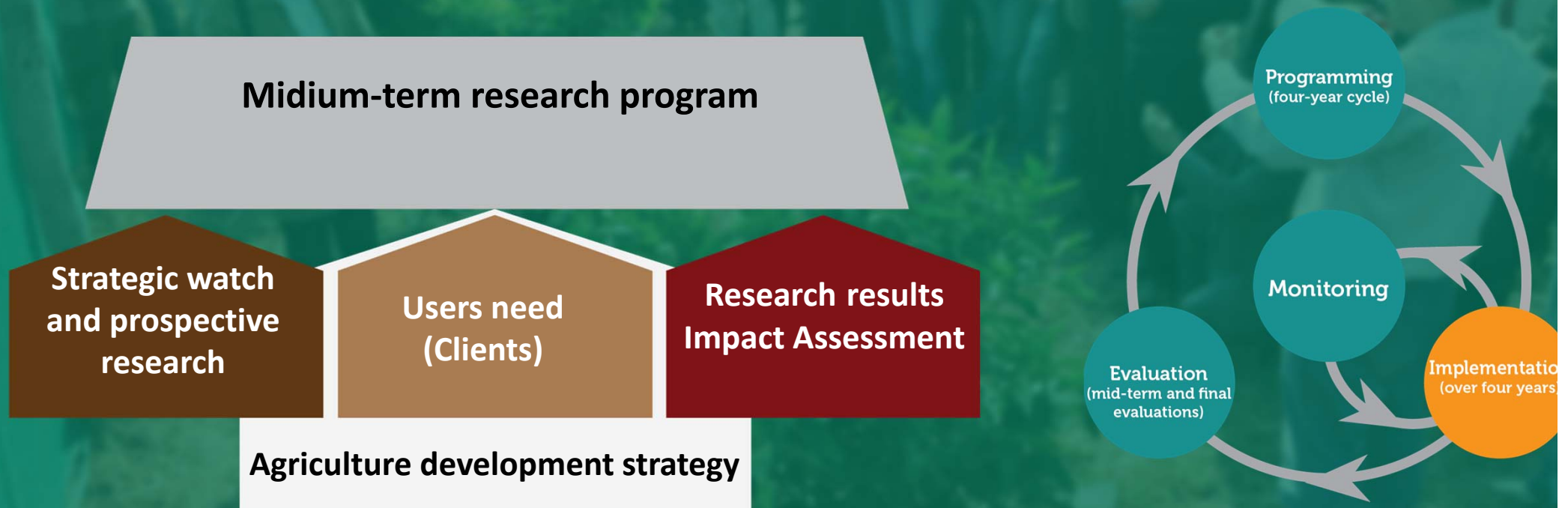
Regional Research
Centers



A map of Morocco with 10 regional research centers marked by purple dots. The centers are labeled as follows:

- Tanger
- Kénitra
- Rabat
- Settat
- Meknès
- Oujda
- Tadla
- Marrakech
- Errachidia
- Agadir

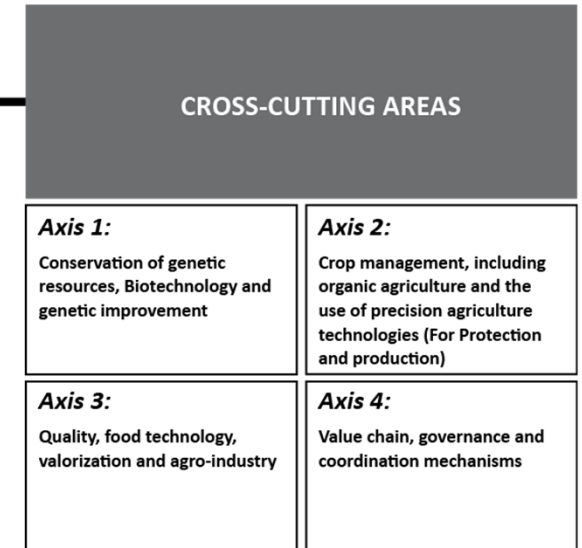
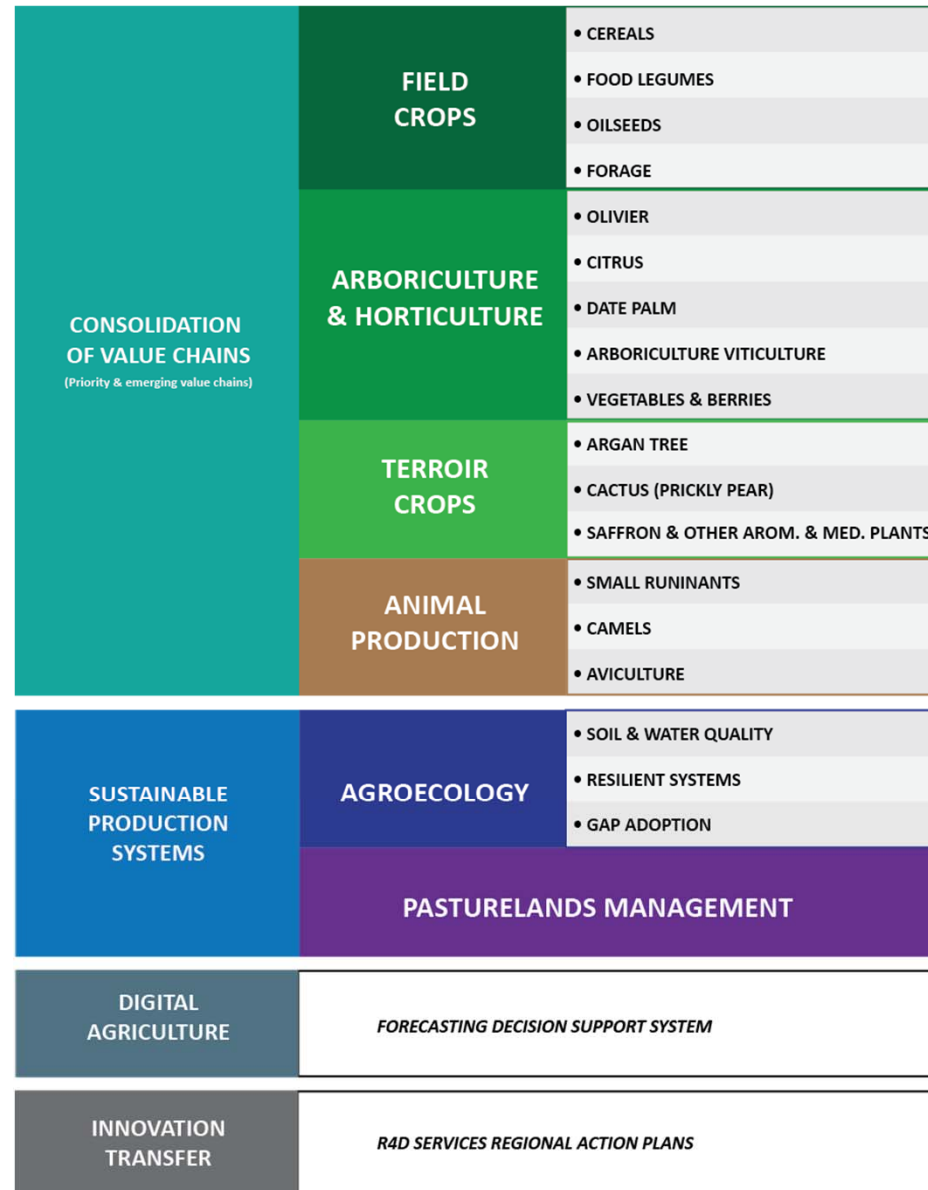
Research Program structuring



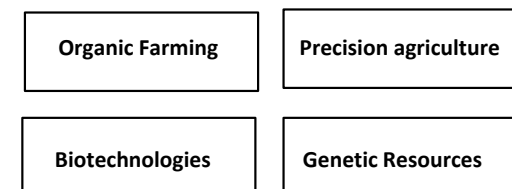
Research Program structuring

4

Programmes



4 Thematic networks



INRA strategic domains

- ❑ Plant breeding and biotechnology;
- ❑ Soil Mapping, Testing, fertility and Management
- ❑ Characterization and conservation of natural resources: water, soil and agro- biodiversity;
- ❑ Water management, climate change and drought mitigation, and desertification control;
- ❑ Development of management practices that improve productivity and quality of products of different commodities;
- ❑ Diversification of agricultural products and improvement of their competitiveness;
- ❑ Conservation agriculture for food security and climate change;
- ❑ Plant protection and health
- ❑ Development of remote sensing and geographical information systems;
- ❑ Characterization of local sheep and goat races genetic resources and their valorization ;
- ❑ Socio-economic and impact studies;
- ❑ Participatory research for agricultural development ;
- ❑ Development of new processes for better valorization of agricultural products.

Knowledge Generation

24 Research Units

Research
Projects
elaboration

Knowledge
Generation
and technology
creation

Knowledge and
technology
sharing

10 R&D Units

Generation

Verification

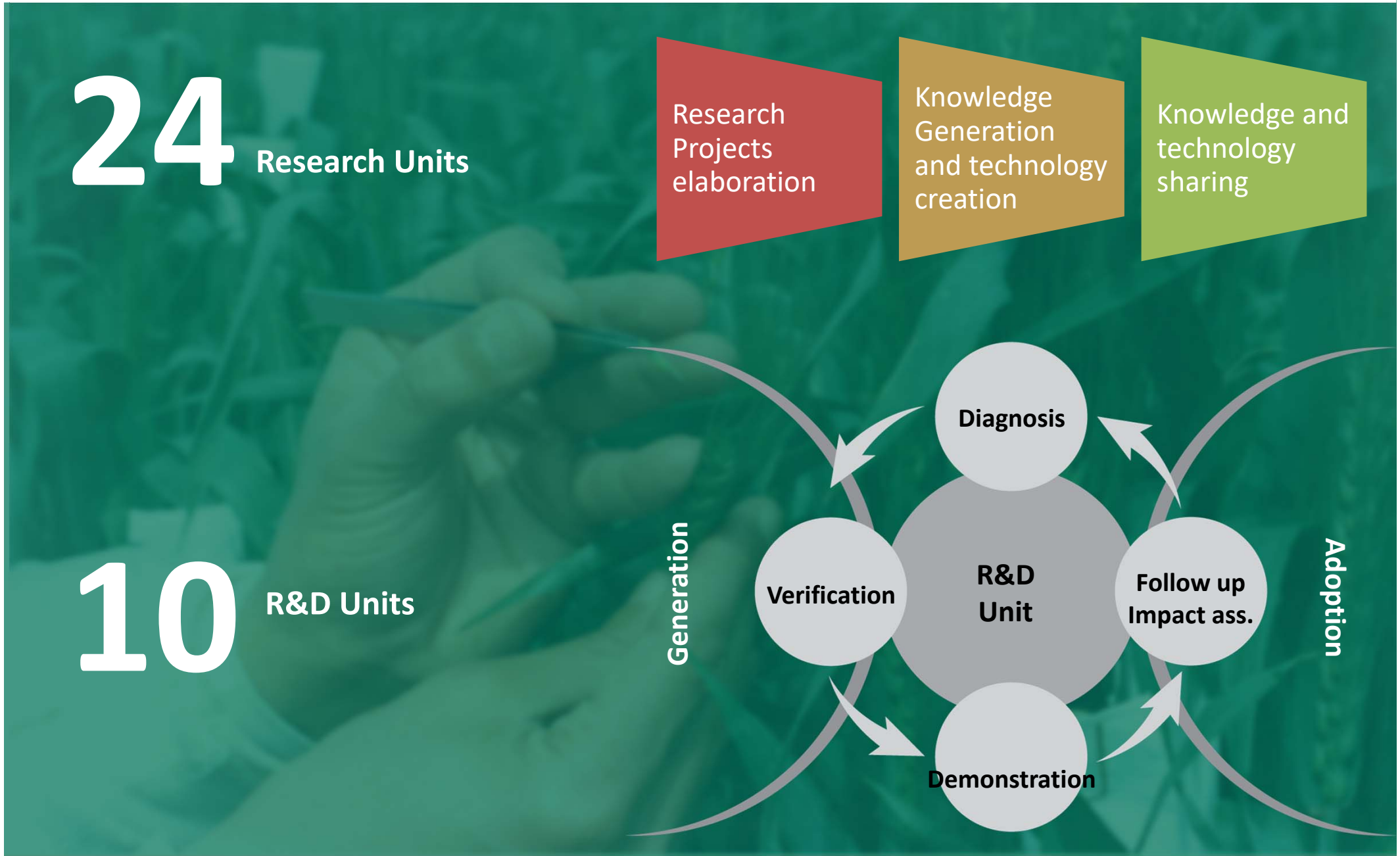
Diagnosis

R&D
Unit

Demonstration

Follow up
Impact ass.

Adoption



National networking & collaboration in international landscape

Collaborative research, Technology transfert, Service delivery, Research Funding, Institutional support, Capacity Building, Orientation of research programs, Evaluation of national development strategies, National scientific responsibility ...

Moroccan Universities and research Centers

Government agencies for development and extension

National System of Agricultural research and training

Economic interest group, federations, associations, cooperatives, NGOs ...

Agribusiness, Seed processing, food processing, chemical, machinery...

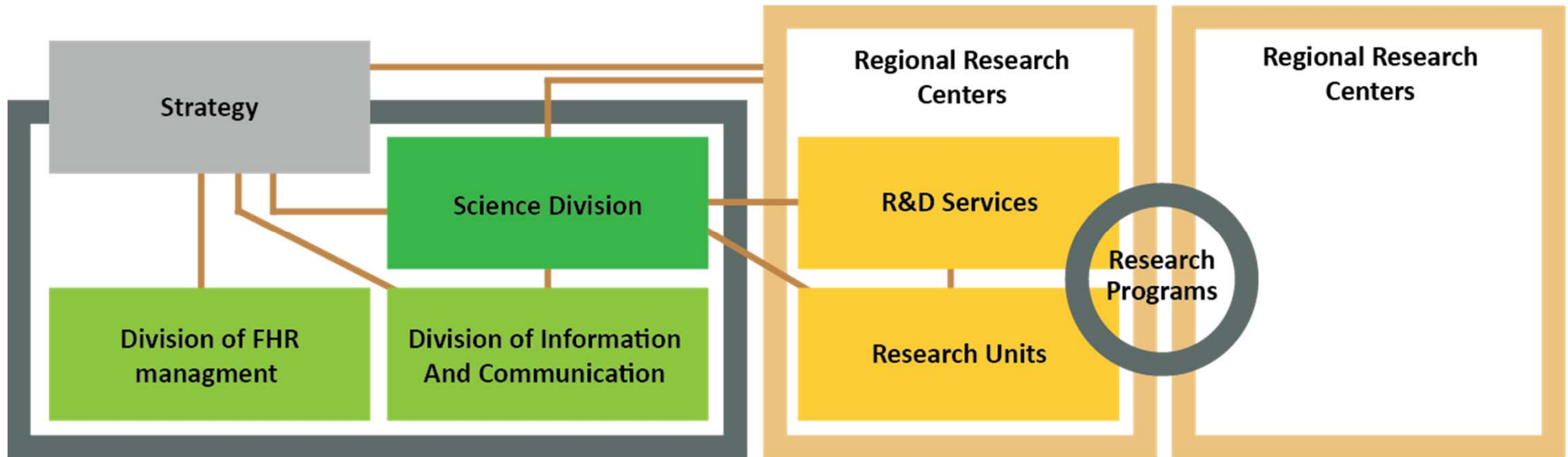
Corporate social responsibility

International research institutions and universities

International Consortia and Research Centers

Development organizations and international foundations

Stream of Knowledge within INRA



Regional Research Centers :
Knowledge elaboration

Science division :
Knowledge evaluation,
assertion and capitalisation

Division of Information and communication :
Information Management
Information Technology

Research knowledge capitalisation

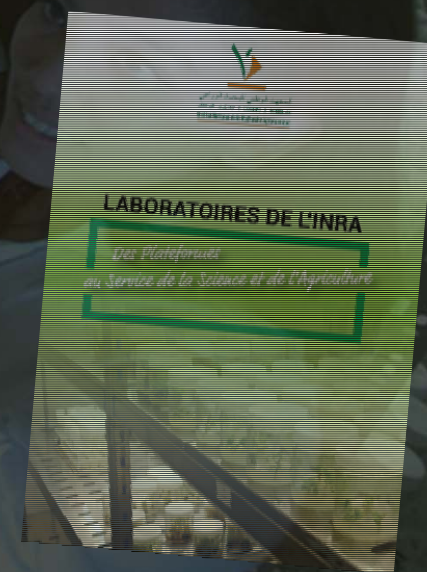
INRA Editions :

- The Medium Term Research Program document gathering all informations about approved projects to be implemented.
- Annual action plans of research centers
- Annual reports of research centers
- INRA annual report (with a list of articles published in scholar journals)
- The Evaluation Report of the Medium Term Research Program document
- Mission reports
- Scientific Books, Extension leaflets
- Scholar journal (Afrimed online)



Other knowledge capitalisation

- Editions: The documents on organisation (INRA missions, organisational charts, descriptions of research platforms etc.);
- Elaboration of the formalized operating procedures.



Knowledge sharing

INRA WEB Portal

www.inra.org.ma

- Holds information on the Institution, research programs, STI Scientific and technical information.
- Provide access to the INRA scientific Journal Afrimed with link full text (1021 papers) and Technical collection partly
- On going activities , News and events, INRA Webinars
- Links to INRA regional and thematic websites and social media (twitter, Youtube and LinkedIn)



twitter.com/INRAMaroc



www.linkedin.com/company/inrama



www.youtube.com/INRAMaroc

Knowledge sharing

Thematic websites

- **Soil fertility map in Morocco (GIS Website)**

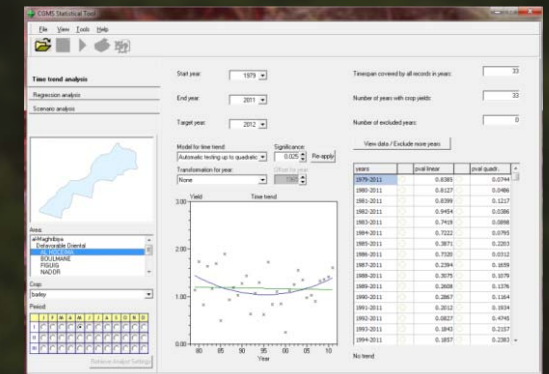
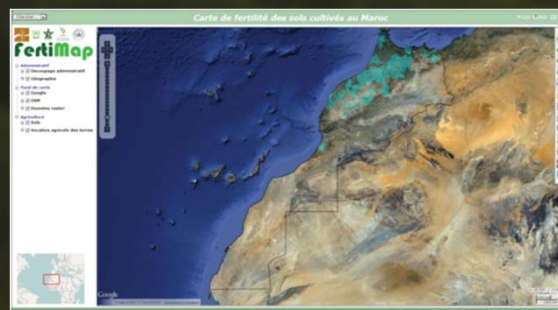
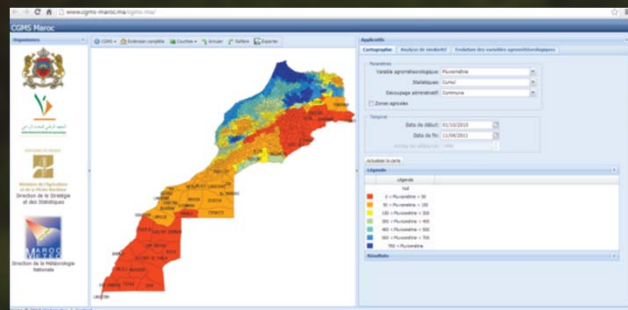
An innovative fertilization consultancy

- **Climate Change Assessment (GIS Website)**

An integrated package of models which allows users to assess the impact change on agriculture.

- **CGMS (Crop Growth Monitoring System) (GIS Website):**

Weather monitoring, Crop growth modelling and Statistical methods.



CGMS Statistical Toolbox

Knowledge sharing (Demonstration days)



Future Prospects

- Building a national information and communication knowledge management system which strengthen the capacity to manage and facilitate access to and broker the sharing of agricultural information among Moroccan NARS, Stakeholders and last mile User (Farmers)
- Capture oral knowledge delivered in events (face to face communication, open days, seminars and webinars)
INRA have a good experience on the use of virtual Collaboration tools and streaming to wide open access to INRA events on the Net .
- Implement the MEL (Monitor Evaluation and Learning) tools to knowledge research management and delivery

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