Information / Knowledge management at INRA - Morocco

OTMAN SEBBATA
Information Management/Information Technology

ABDELALI MOUAAID
Agronomist/Research Management
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
10 Regional Research Centers
Research Program structuring

Mid-term research program

Strategic watch and prospective research

Users need (Clients)

Research results Impact Assessment

Agriculture development strategy

Programming (four-year cycle)

Monitoring

Evaluation (mid-term and final evaluations)

Implementation (over four years)
Research Program structuring

4 Programmes

4 Thematic networks

- Organic Farming
- Precision agriculture
- Biotechnologies
- Genetic Resources

CROSS-CUTTING AREAS

Axis 1: Conservation of genetic resources, Biotechnology and genetic improvement
Axis 2: Crop management, including organic agriculture and the use of precision agriculture technologies (For Protection and production)
Axis 3: Quality, food technology, valorization and agro-industry
Axis 4: Value chain, governance and coordination mechanisms
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

10 R&D Units

Research Projects elaboration
Knowledge Generation and technology creation
Knowledge and technology sharing

R&D Unit

Diagnosis
Verification
Follow up Impact ass.
Demonstration

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

Division of Information and communication:
Information Management
Information Technology

Science division:
Knowledge evaluation, assertion and capitalisation
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)
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 of climate change on agriculture.
- **CGMS (Crop Growth Monitoring System) (GIS Website):**
  Weather monitoring, Crop growth modelling and Statistical methods.
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
Thank you for your attention

Committed to resilient, sustainable and competitive agriculture