

**Ministry of Agriculture** 

Institution de la Recherche et de l'Enseignement Supérieur Agricoles



### PRIMA opportunities for Southern Mediterranean Countries: Case of Tunisia

Prof. Ali RHOUMA – Director of Research – IRESA NCP – PRIMA Tunisia



## Outline

Some indicators of the Agriculture sector in Tunisia

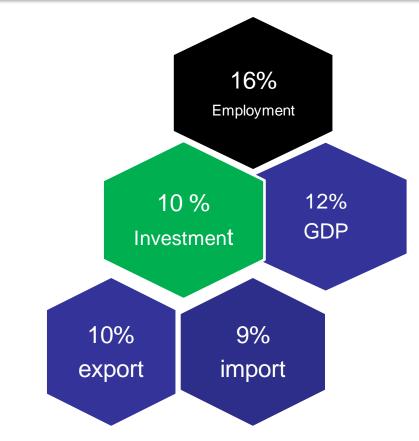
Main chalenges of the agriculture sector in Tunisia

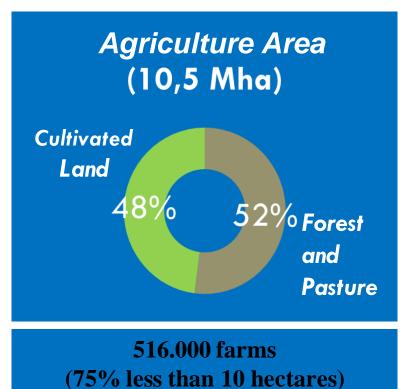
Overview of the Agricultural research system in Tunisia

Main research axes and priorities related to PRIMA

Conclusion

### The agriculture sector in Tunisia





The sector is growing at around 3% per year

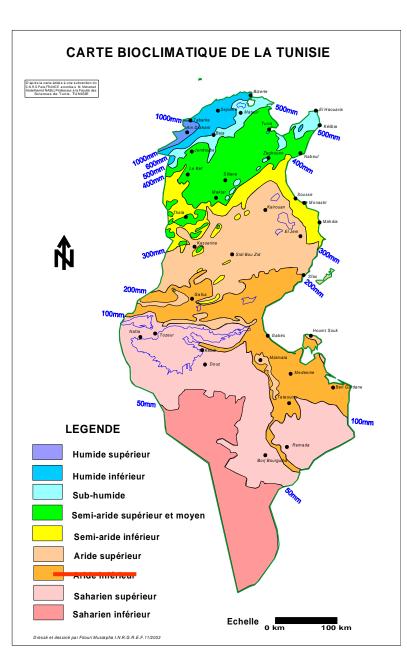
(cereals 32%; <u>Olive Growing</u> 32%).



#### The main challenges are:

- 1. Food security in a globalized and volatile international environment
- 2. Contribution to growth: Production, productivity, added value and investment
- 3. Preservation of natural resources (eau, soil) in a context of climate change
- 4. Integration of value chain and organization of the profession
- 5. Territorial development Social equity

#### **Climate change effects**

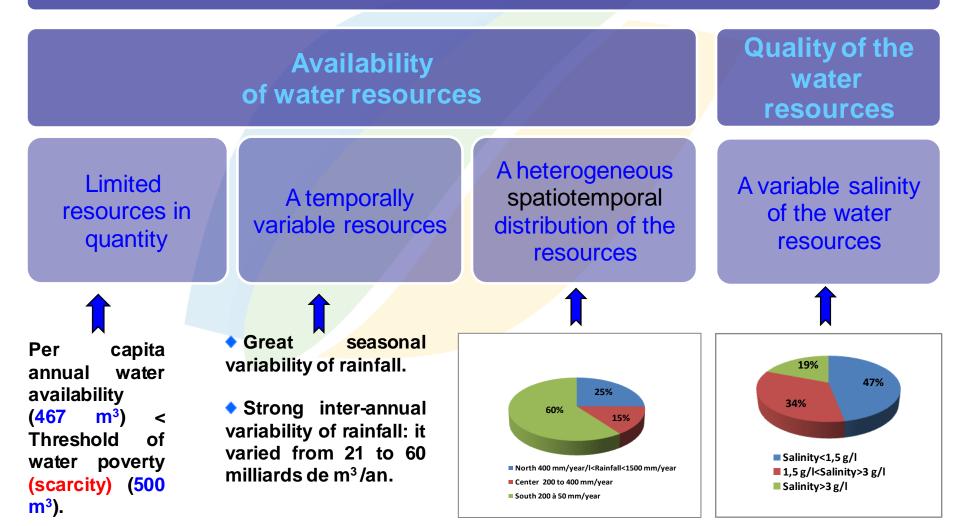


- The most vulnerable region because of high climatic variability.
- Water deficit and drought represent a permanent risk for rainfed agriculture.
  Drought may occurs: 1 year out of 3 or out of 4.
- Severely dry years (deficit > 50%), drought persistence: more frequent in the south and the center than in the North.
- -Moderate temperatures, but very hot conditions frequent may occur from May to September

-High temperatures (45 C in August) may affect cereal production when they occur in the growing season by increasing the evaporation rate.

# Features and characteristics of water resources in Tunisia

#### Water challenges in Tunisia

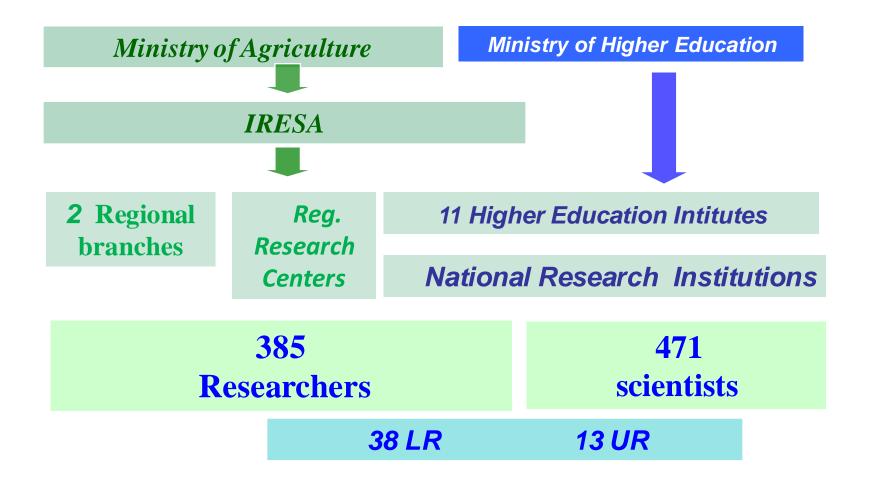


#### The Agricultural Research in Tunisia: More than one century

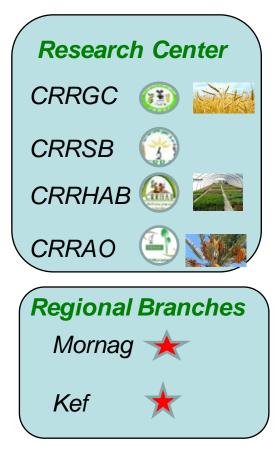
The Agricultural Research in Tunisia backs to more than one century :

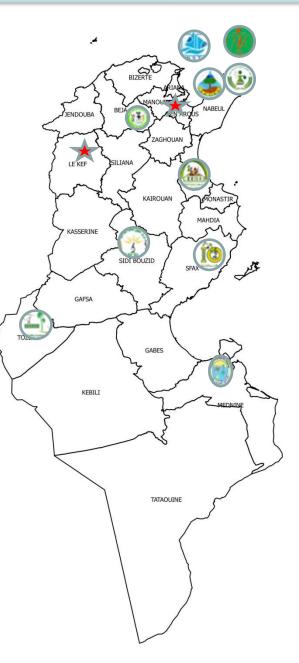
- 1. 1897: Establishment of Livestock Laboratory (Actually Veterinary Institute of Tunisia; IRVT)
- 2. 1898: Colonial School of Agriculture (actually INAT)
- 3. 1913: Botanic Service of Tunisia (actually INRAT) Interest: cereals (varietals creation, techniques,...)

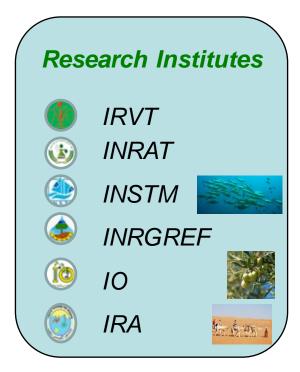
#### **Research and Higher Education Institutions of IRESA**



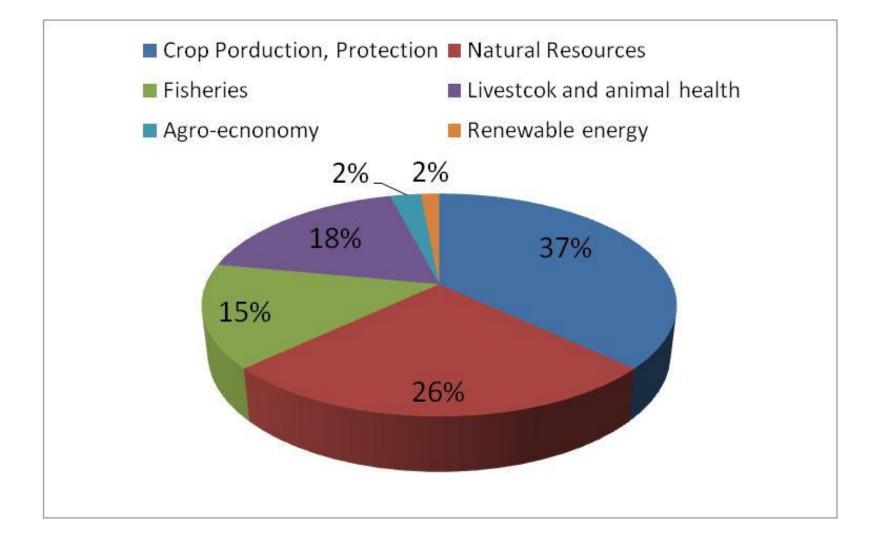
#### **Geographic distribution**



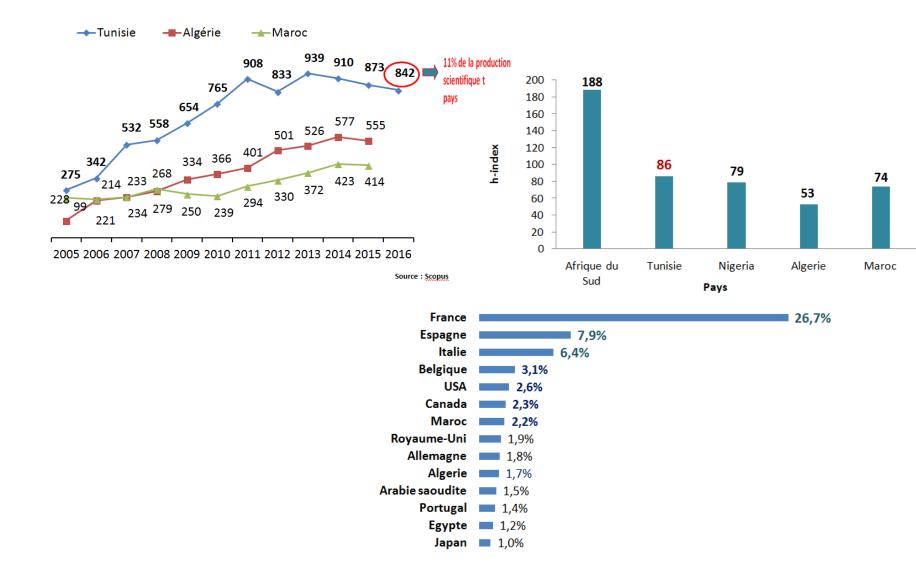




#### **Main research activities**



#### **Research activities: scientific Production**



#### Main agricultural Research Priorities in Tunisia fitting with PRIMA (In Progress)

> Improving the efficiency and durability of farming systems :

Development of innovative water savings techniques and agronomic packages (Conservation agriculture)

Development of varieties specifically adapted to rainfed agriculture, water scarcity and rainfall variability

Improvement and valorisation of local genetic resources

> Valorisation of non-conventional waters :

The treated waste water: complementary treatment

The desalinization of salt water, brackish water and sea water: development of innovative approaches, technico economic and environmental evaluation of operational solutions within a systemic approach



#### Conclusion

- 1. Exchange of Data Bases :
  - 1. Laboratories and research unities
  - 2. Finished projects (Arimnet, EranetMed, Bilateral projects, ENICBCMED, WW2015,..)
- 2. Organization of brokerage event
- 3. Organization of regional Prima NCP meeting to exchange on experience, best practice and stakeholders feedback and topics of interest ;
- 4. Organizing meetings between EU and southern stakeholders to reinforce the Networking for partner search and share of working procedures





## Thank you for your attention... muchas gracias





#### Tunisia, the 4th exporter of olive oil.

Olive oil represents almost 47% of agri-food exports and 5.5% of total exports of the country. Tunisia exports about 70% of its production, an average of 165,000 T/year, and is 4th exporter country.

Besides the traditional market (UE), Tunisia exports to other distant markets such as the United States, China, Japan, South Korea, Australia, Russia...