

SUPMED EVENT

"Experience-sharing Event on Technical, Organizational and Policy Levers and Obstacles in Promoting Agroecology in the Mediterranean Area".

Cairo, December 17th-18th, 2024



NATIONAL SCHOOL OF AGRICULTURE MEKNÈS

STATUS



- Public Institution Under the Authority of the Ministry of Agriculture



- Financial Autonomy

MISSIONS

- Higher Education in Agriculture
- Scientific and Applied Research
- Continuing Education and Knowledge Dissemination





NATIONAL SCHOOL OF AGRICULTURE MEKNÈS



وزارة الفلاحة والصيد البحري
والتنمية القروية والمياه والغابات
القطرية
MINISTÈRE DE L'AGRICULTURE, DE LA PÊCHE MARITIME,
DU DÉVELOPPEMENT RURAL ET DES EAUX ET FORÊTS

AGROECOLOGY IN MOROCCO: POLICY OVERVIEW

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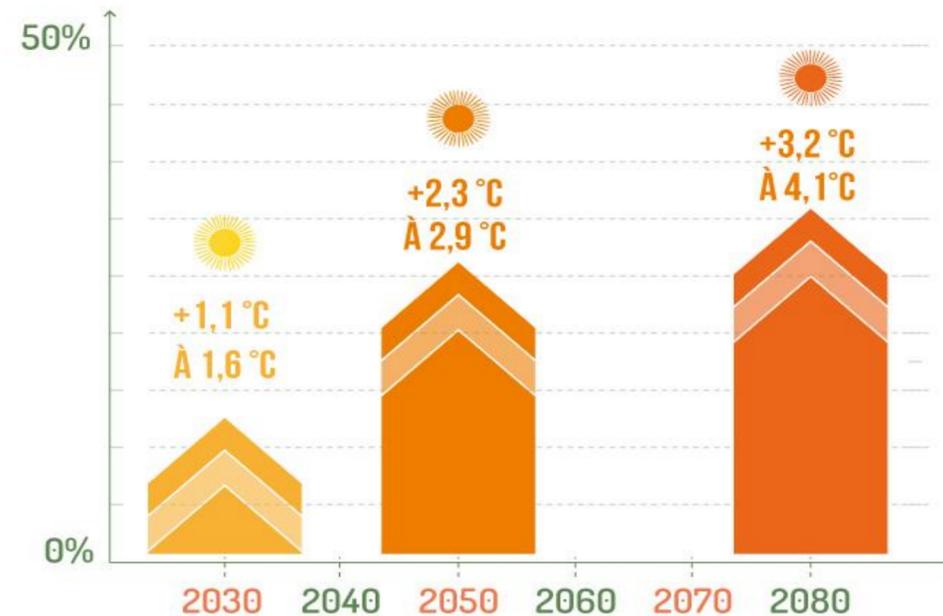
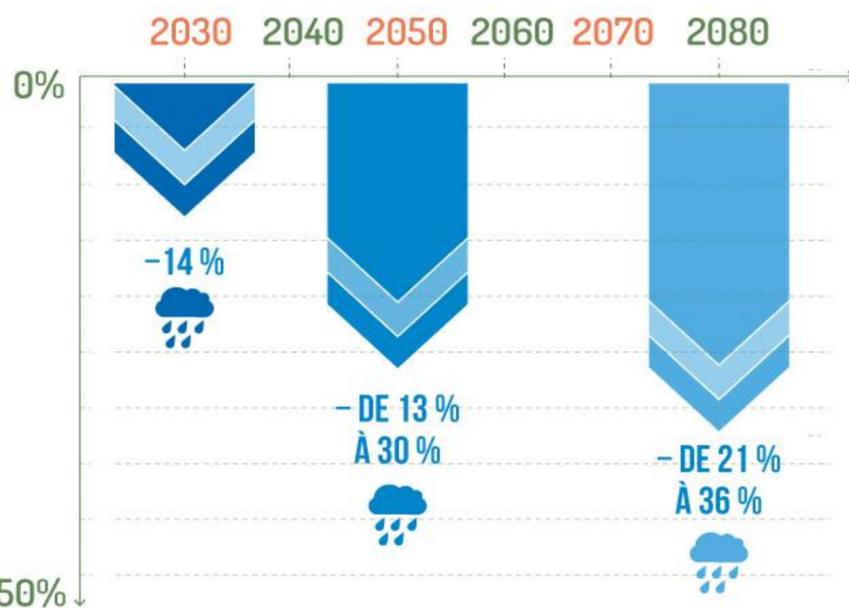
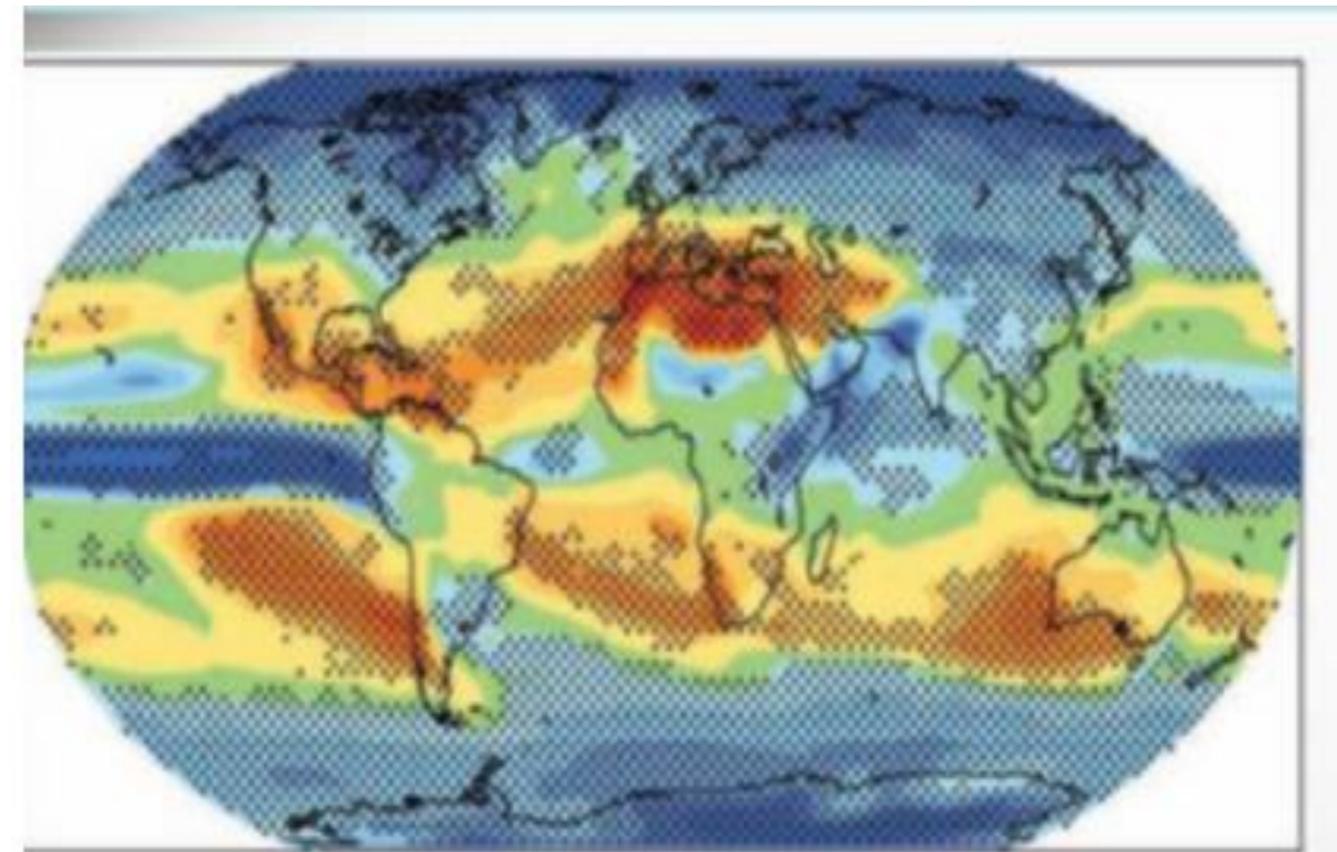
Fouad RACHIDI, PhD



MOROCCO AND CLIMATE CHANGE

The IPCC (Intergovernmental Panel on Climate Change) predicts the impacts of climate change for the year 2100:

- Morocco is among the areas affected by climate change;
- Increase in the frequency of extreme phenomena: Long and frequent periods of drought and sudden and violent floods.

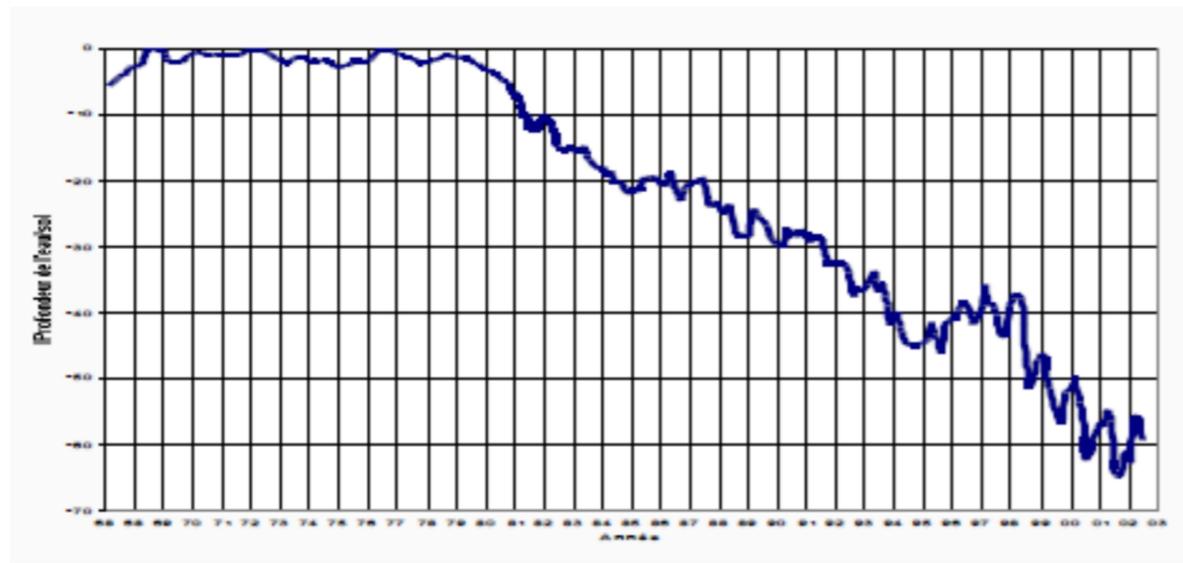
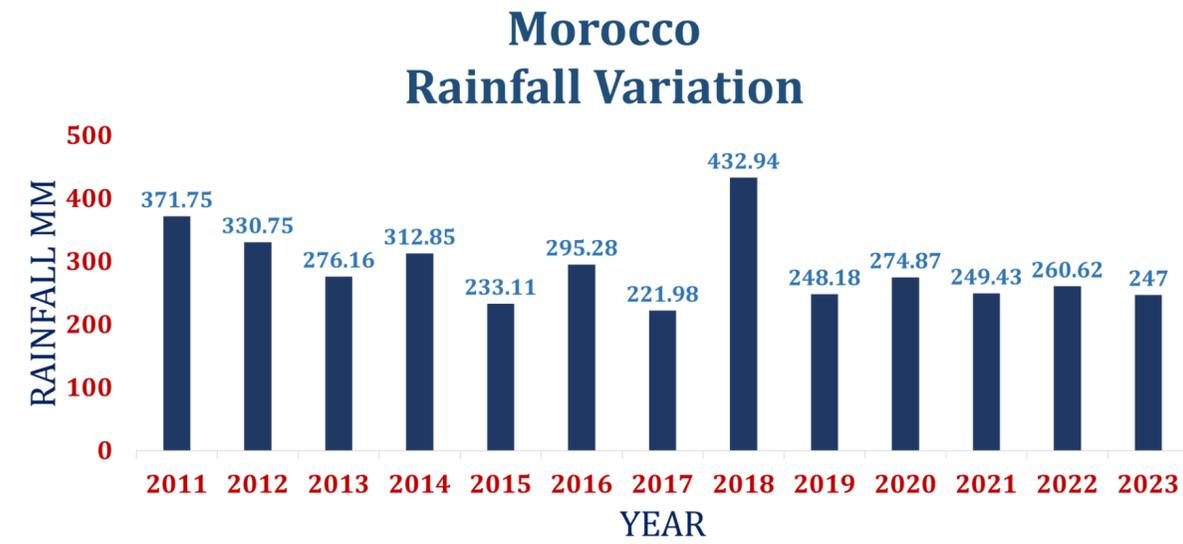
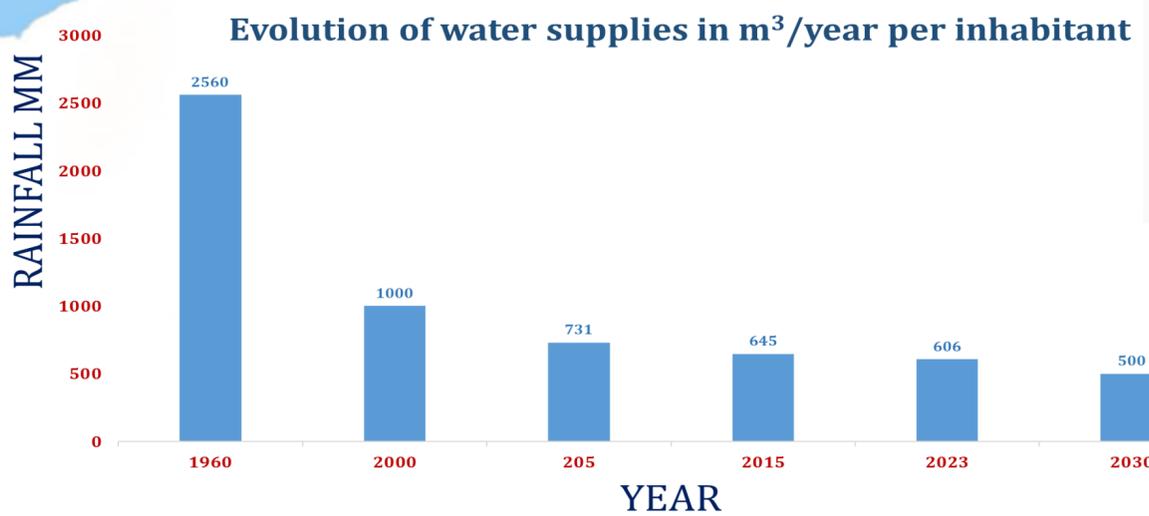
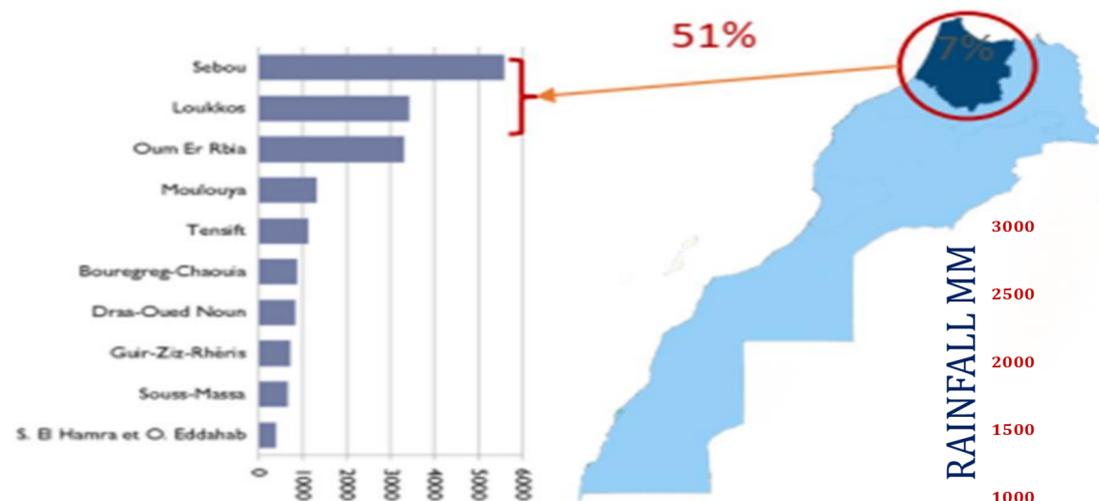




MOROCCO AND CLIMATE CHANGE

Water resources constraint

- Scarcity of water resources and multiplication of extreme phenomena and overexploitation of aquifers
- 51% of the country's water resources are concentrated in 7% of the surface area of the national territory (9 RBAs in Morocco)

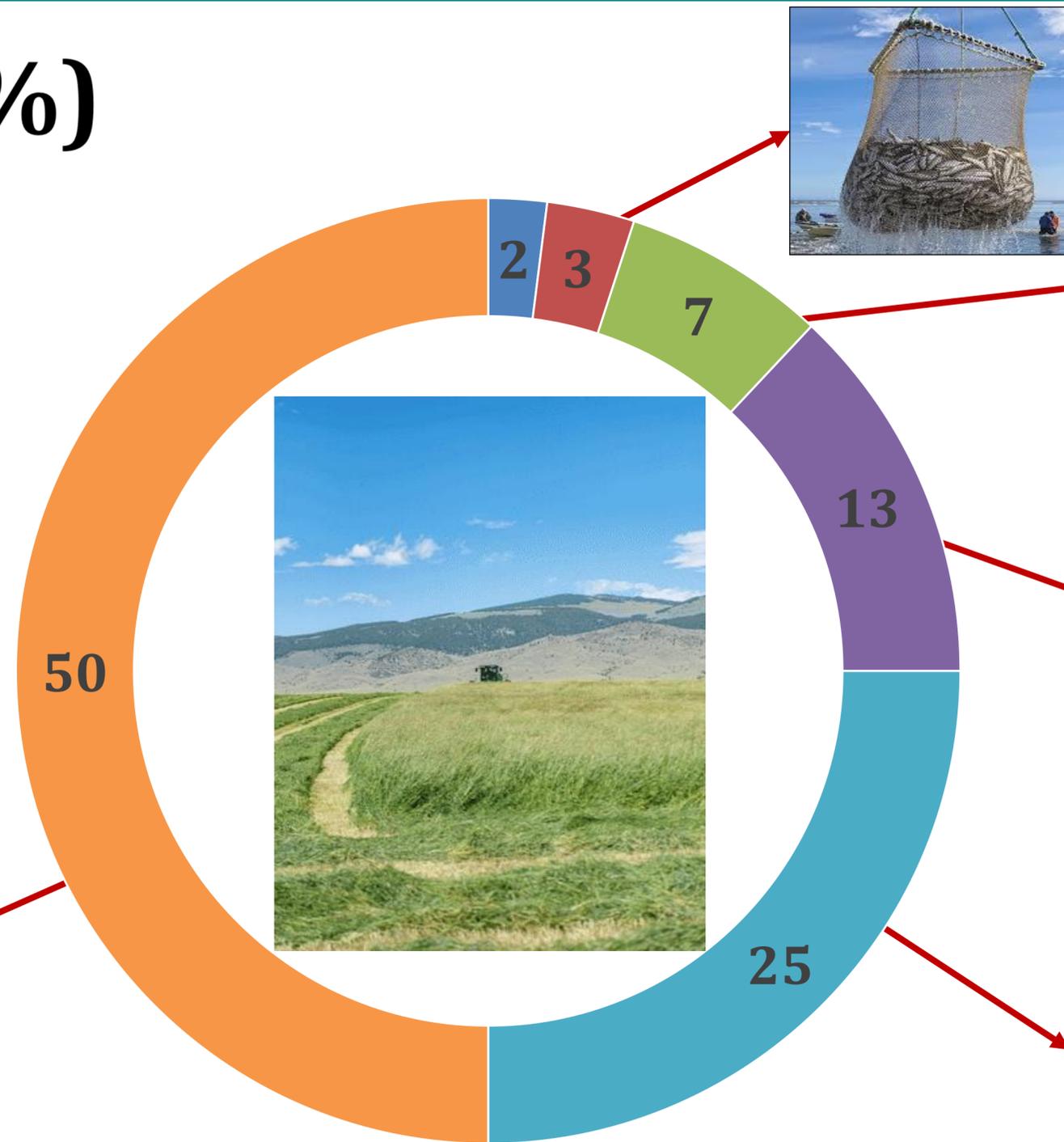




ECONOMIC SECTOR IN MOROCCO

GDP by Sector (%)

- Miscellaneous
- Fishing
- Tourism
- Agriculture
- Industry
- Services





AGRICULTURE IN MOROCCO

Agriculture is a very important economic sector in Morocco.



It generates between 11% to 19% of the gross domestic product (GDP) depending on the year climatic conditions.

The country's growth rate is strongly correlated to that of agricultural production.

Nearly 45% of the Moroccan population lives from this sector.



MOROCCAN AGRICULTURE STRATEGIES AND AGROECOLOGY

Do We have an explicit Agroecology policy in our Agricultural strategies? Not Yet.

- **BUT** Since 2008, 2 Agricultural strategies : Morocco Green Plan (2008-2020) and Green Generation (2020-2030):
 - Keywords: Resilience, Adaptation to Climate Change, Organic farming, Soil conservation practices, Conservation tillage, irrigation water saving, Improving farmer's income, small scale farming, food security and food sovereignty...
- The first local call for an R&D proposal with Agroecology as a keyword was in 2018.
- There are some active NGOs that are in the field promoting of agroecology (Terre et Humanisme, RIAM, Agrisud, Migration & Development)





THE MOROCCO GREEN PLAN 2008-2020



The "Morocco Green Plan" was founded on **two Pillars**

Pillar 1

Modern agriculture with **high added value**: irrigated areas and favorable rainfed agriculture.

Pillar 2

Small scale farming in the most vulnerable areas.



Diversity and Adaptation of the Moroccan Agricultural Production



Diversity



Efficiency



Human and Social Value



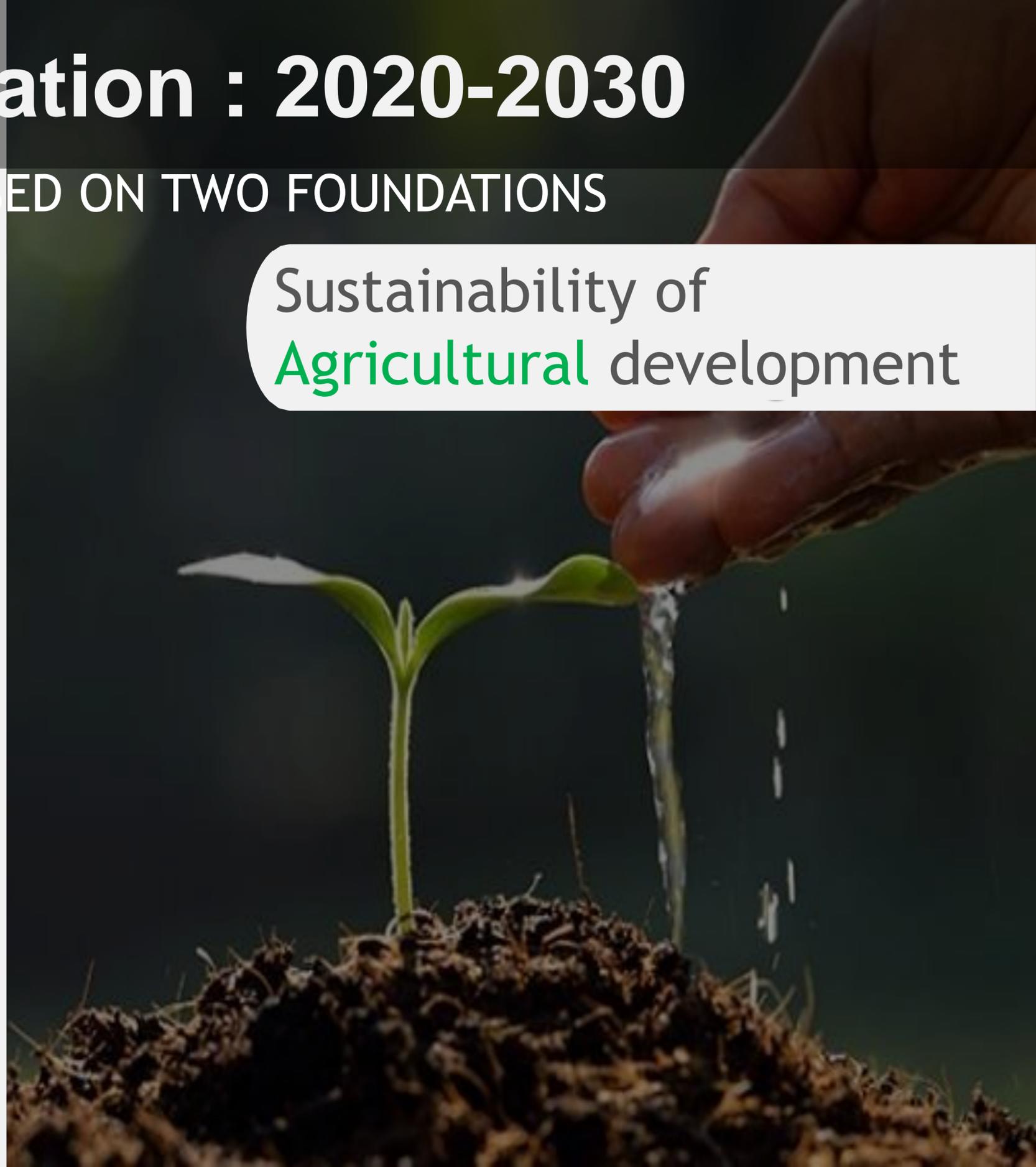
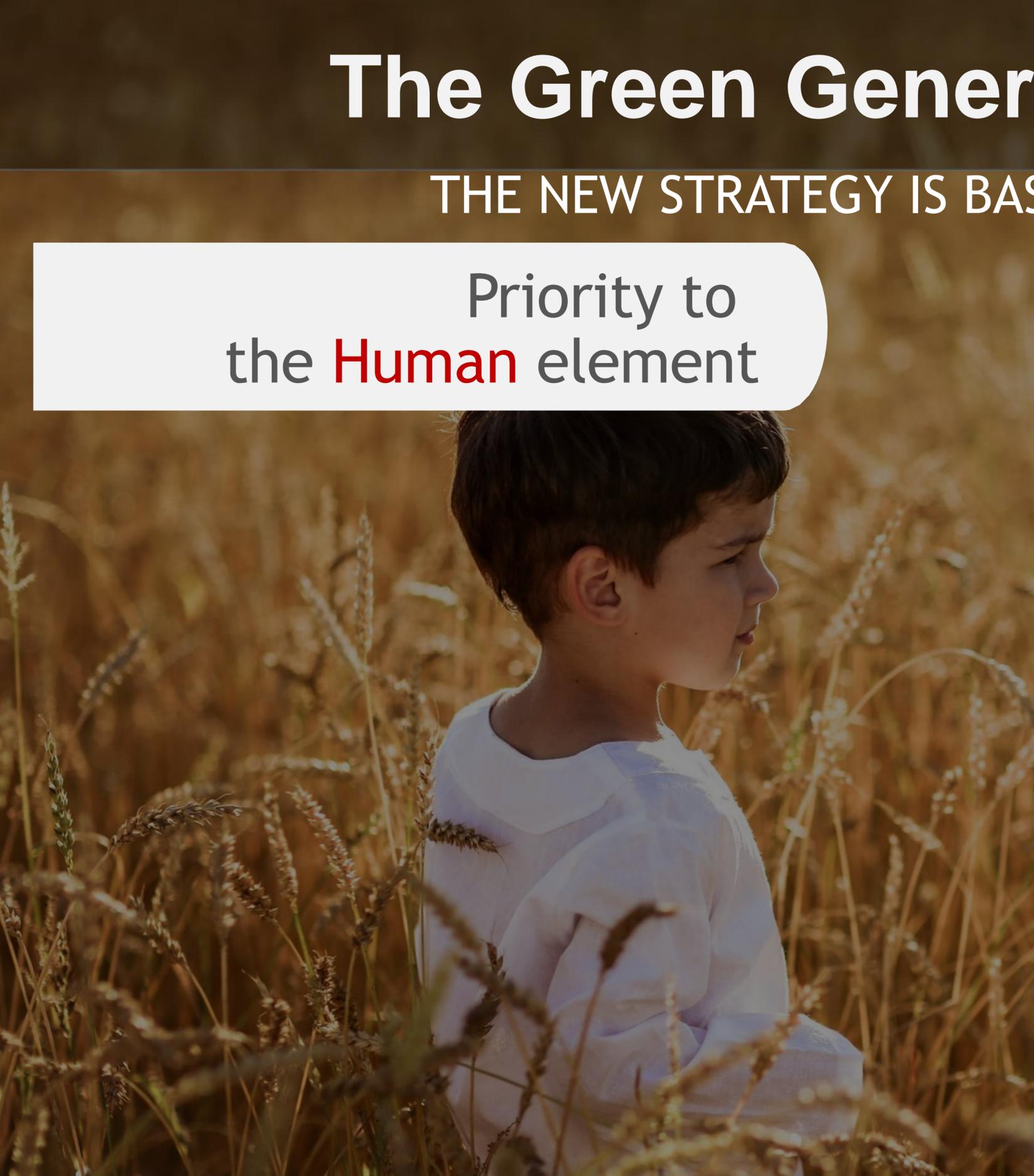
Responsible Gouvernance

The Green Generation : 2020-2030

THE NEW STRATEGY IS BASED ON TWO FOUNDATIONS

Priority to
the **Human** element

Sustainability of
Agricultural development





THE GREEN GENERATION

PRIORITY TO THE HUMAN ELEMENT SUSTAINABILITY OF AGRICULTURAL DEVELOPMENT



Human and Social Value

New **generation** of agricultural middle class

400,000 households accessing the middle class
3-4 M farmers with social protection



Resilience

New **generation** of young agricultural entrepreneurs

1 Mha Collective Lands valued
350,000 new farmers and agricultural entrepreneurs
150,000 young people trained



Responsible Governance

New **generation** of agricultural organizations

x5 grouping rate
30% of the public budget managed by the profession



Cocreation of knowledge



Culture and Food Traditions

New **generation** of support mechanisms

2M farmers connected to agricultural e-services
5,000 agricultural advisors

Consolidation of agricultural sectors
x2 GDPA and x2 exports
70% of production valued



Resilience

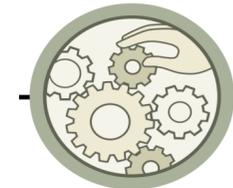


Recycling



Efficiency

Modern and **efficient** distribution chains
12 modernized wholesale markets
Modernized souks



Synergies



Diversity

The Green Generation

2020-2030

Quality, innovation and **Green-Tech**
120 approved slaughterhouses
x2 health checks



Cocreation of knowledge

Resilient and **eco-efficient** agriculture
x2 **water** efficiency
Soil **conservation**



Circular and Solidarity Economy

FAO Elements of Agroecology : 9 of 10



ON-GOING PROGRAMS

PNAEPI
2020-2027

1 Millions ha
drip irrigation
850000 ha

ZERO
Tillage

1 Millions ha
no till
250 000 ha

Organic
Farming

100 000 ha Organic
farming
18.531 ha cultivated
species and around
201.728 ha for
spontaneous species
(2022).

Solar
Pumping

Subsidies
20%

Agroforestry
program

500 000 ha
100 000 farmers
50 Millions trees
to plant by 2030

Morocco
Forest
2020-2030

Target 600 000 ha
by 2030
20 000 ha/year

CROSS CUTTING



الجيل الأخضر
GENERATION GREEN
2020 - 2030

FONDS de
DÉVELOPPEMENT
Agricole



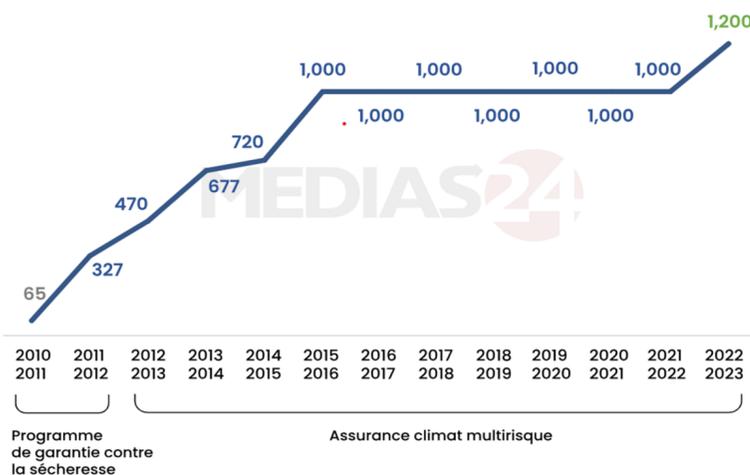
Les Aides Financières de l'État pour la promotion des
investissements agricoles



ON-GOING PROGRAMS

Agricultural Insurance

Evolution of the total insured area (1000 ha)



Evolution of the total fruit tree insured area (ha)



Youth Entrepreneurship Program

- About 20,000 young people have benefited from the agricultural entrepreneurship support program
- 44 young people were trained and their innovative projects were rewarded and supported (via a national competition).
- 220 young people (including 55 women) were also supported (as Service provider cooperatives)
- Around 120 women's cooperatives were also trained in digital technologies.
- Finally, 8,800 agri-food companies and organizations certified by ONSSA (National Office for Food Safety) benefited from improved market access and strengthened their food safety.



THE ENAM STRATEGY FOR THE AGROECOLOGY

I. IMPROVING THE EDUCATION CURRICULUM: NEW CURRICULUM IN AGROECOLOGY

Education

New Curriculum in Agroecology (MSc level) to support GG's strategy by reduce the lack of executives and engineers to contribute to the acceleration of Morocco's agroecological transition.



Research

Innovating in agroecological practices and environmental education (The Agroecology R&D Platform)



Promoting, training, disseminating agroecology practices

A R&D Center for promoting innovations and supporting the agroecological transition





THE ENAM STRATEGY FOR THE AGROECOLOGY

II. NATIONAL CENTER FOR INNOVATIONS IN AGROECOLOGY (CNIA)

The missions assigned to the center are :

Promote agroecology at National and Regional Levels (MENA, Africa)



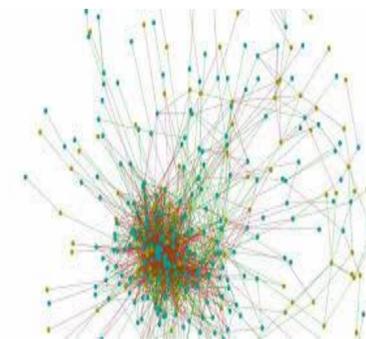
Stimulate innovation in agroecological practices leading to profitable, resilient, eco-efficient and environmentally friendly production systems



Build an agro-ecology network (researchers, public and private institutions (national and international), NGOs and Associations



Act as a resources center to strengthen the capability of farmers, sons of farmers, agricultural advisers, public administration executives and private entities interested and/or involved in the issue of agroecology





WHERE WE ARE NOW?



SOURCE: HLPE (2019) FIVE LEVELS OF TRANSITION TOWARDS SUSTAINABLE FOOD SYSTEMS AND RELATED PRINCIPLES OF AGROECOLOGY



THANK YOU FOR YOUR ATTENTION





THE GREEN GENERATION

Priority to the Human element

New **generation** of agricultural middle class

Sustainability of Agricultural development

Consolidation of agricultural sectors

New **generation** of young agricultural entrepreneurs

The Green Generation

Modern and efficient distribution chains

New **generation** of agricultural organizations

2020-2030

Quality, innovation and Green-Tech

Génération
génération
New **generation** of support mechanisms

Resilient and eco-efficient agriculture

New Generation of Agricultural Middle Class

350 to 400 K Households accessing the middle class

2.5 Mha Insured area

3.3 M Farmers with social protection

3.3 M Reduction of the gap SMAG/SMIG

THE GREEN GENERATION



Human and Social Value

Contribute to the emergence of an agricultural middle class by improving farmers' incomes and protection



Expanded and targeted incentives to improve incomes



Agricultural insurance



Social protection & Farmer status



Revaluation of the SMAG & Working Conditions

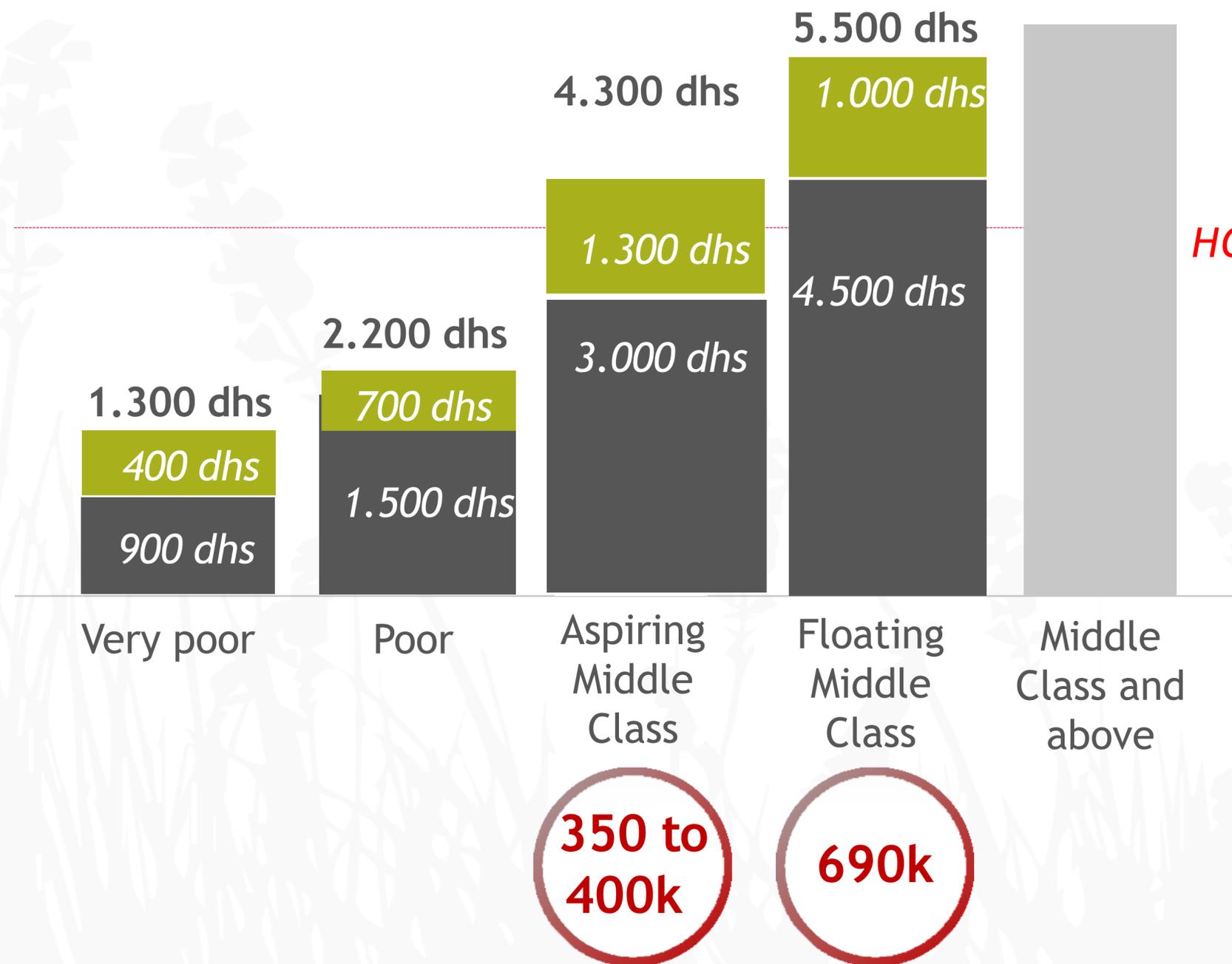


THE GREEN GENERATION



Human and Social Value

The strategy will allow 350 to 400,000 agricultural households to access the middle class and stabilize 690,000



New Generation of Young Agricultural Entrepreneurs

1 Mha

Collective lands developed

180k

New young operators

170k

Jobs in agricultural services and processing

150k

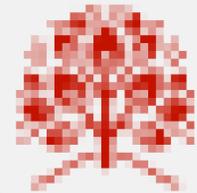
Young people trained (2021-2030)

THE GREEN GENERATION

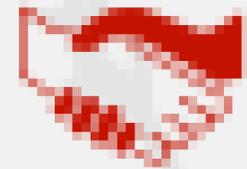


Resilience

Support the professional integration of young people and offer them income-generating opportunities



Offer for the development of collective lands



Aid for installation and agricultural farm



Aid for entrepreneurship



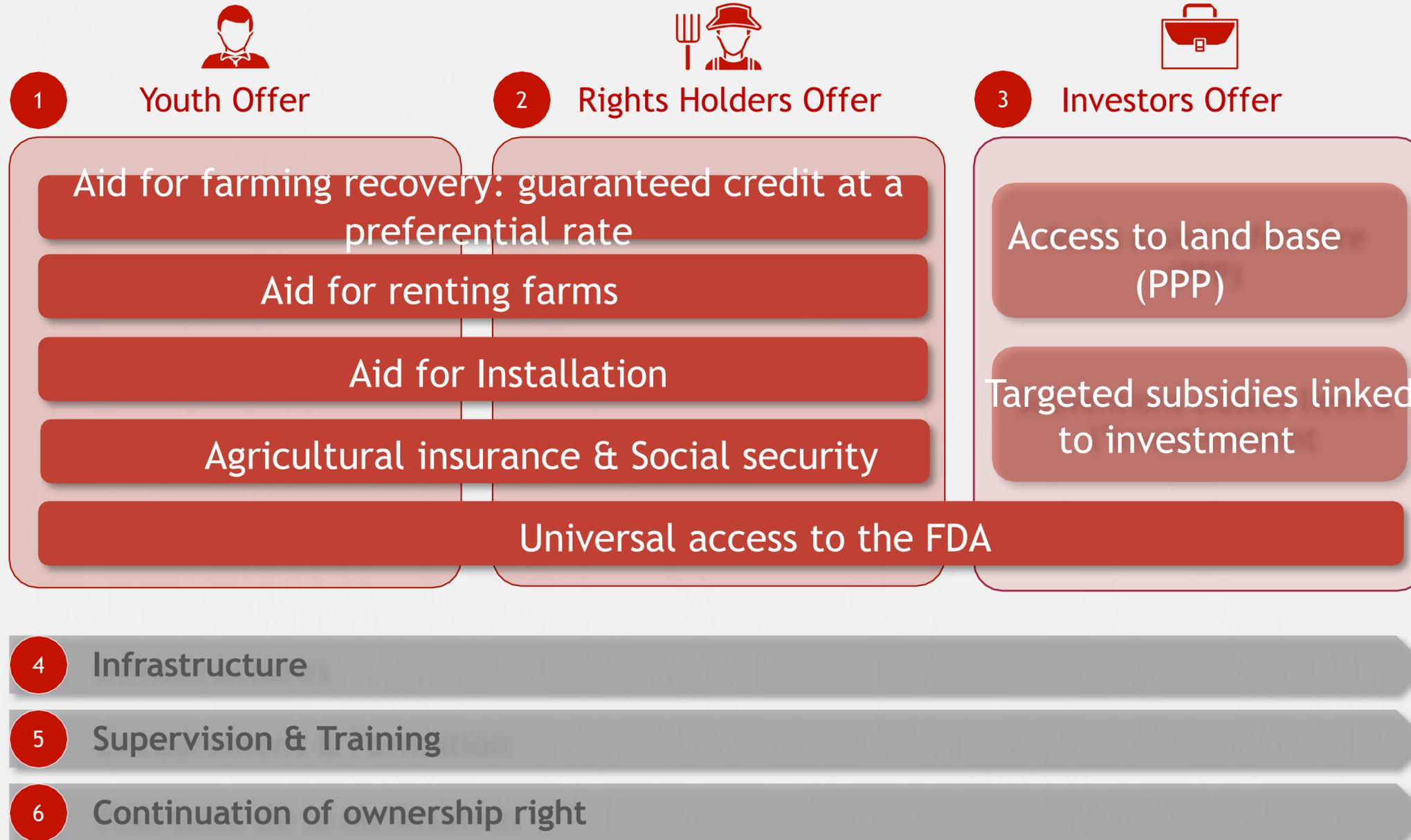
Training & Professional qualification



Collective Lands: 3 offers and 3 cross-cutting axes

Individual Offers

Cross-cutting



200k Beneficiaries among which

45k Youths

Intergenerational transmission, a major challenge to ensure the continuity of the development of the agricultural sector

Farmers relatively old on average

360k farms
of more
than 65
year old



Older farmer
wishing to
sell or rent his
land



Agricultural
farm
transfer
system



Young buyer
wishing to add
value to the
land

New Generation of Agricultural Organizations

25%

Grouping rate

30%

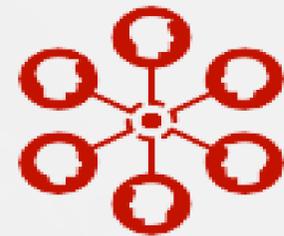
Public budget
managed
by the profession

THE GREEN GENERATION



Responsible
Gouvernance

Continue the structuring, grouping and aggregation of farmers around efficient agricultural organizations



New socio-economic organizations of farmers



Empowerment of the profession



New Generation of Support Mechanisms

5 000

Agricultural advisors

2 M

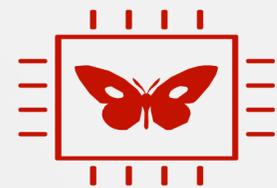
Farmers connected
to e-services

350
to
400k ha

Additional
area in solidarity
agriculture

THE GREEN GENERATION

Reform and modernize the support mechanisms for farmers to professionalize agriculture



Agricultural advisory reform



Digital agricultural services



New generation solidarity agriculture projects



**Culture
and Food
Traditions**



**Cocreation
of
knowledge**



Priority to the Human element

Sustainability of Agricultural development

New generation of agricultural middle class

Consolidation of agricultural sectors

New generation of young agricultural entrepreneurs

The Green Generation

Modern and **efficient** distribution chains

New generation of agricultural organizations

2020-2030

Quality, innovation and **Green-Tech**

*Génération
génération*
New generation of support mechanisms

Resilient and **eco**-efficient agriculture

Consolidation of Agricultural Sectors

200 à 250 Md DH
Agricultural GDP

x1.5
Yields

50 à 60 Md DH
Export per year

70%
Valued production

100k Ha
New organic area

THE GREEN GENERATION



Continue the development of sectors, through more targeted intervention on the upstream and the reallocation of efforts on the downstream



Maintaining the investment effort and rationalization of incentives on the upstream



Support for the competitiveness of exports



Acceleration of the valorization of agricultural products



Emergence of new sectors with potential



Modern and Efficient Distribution Chains

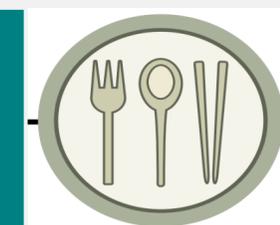
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Marchés de gros
Modernized
wholesale
markets



Modernized souks

THE GREEN GENERATION



Culture
and Food
Traditions

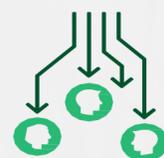
Structure and modernize distribution channels to maximize the value captured by farmers and improve the quality of products sold to end consumers



Wholesale Market Reform des marchés de gros



Rehabilitation of the souks



Strengthening distribution channels and storage platforms



Quality, innovation and Greentech



THE GREEN GENERATION

Improve the quality of production and adapt it to agricultural and technological trends and new consumption patterns



Dissemination of innovation, R&D and precision agriculture



Strengthening quality, standardization and control



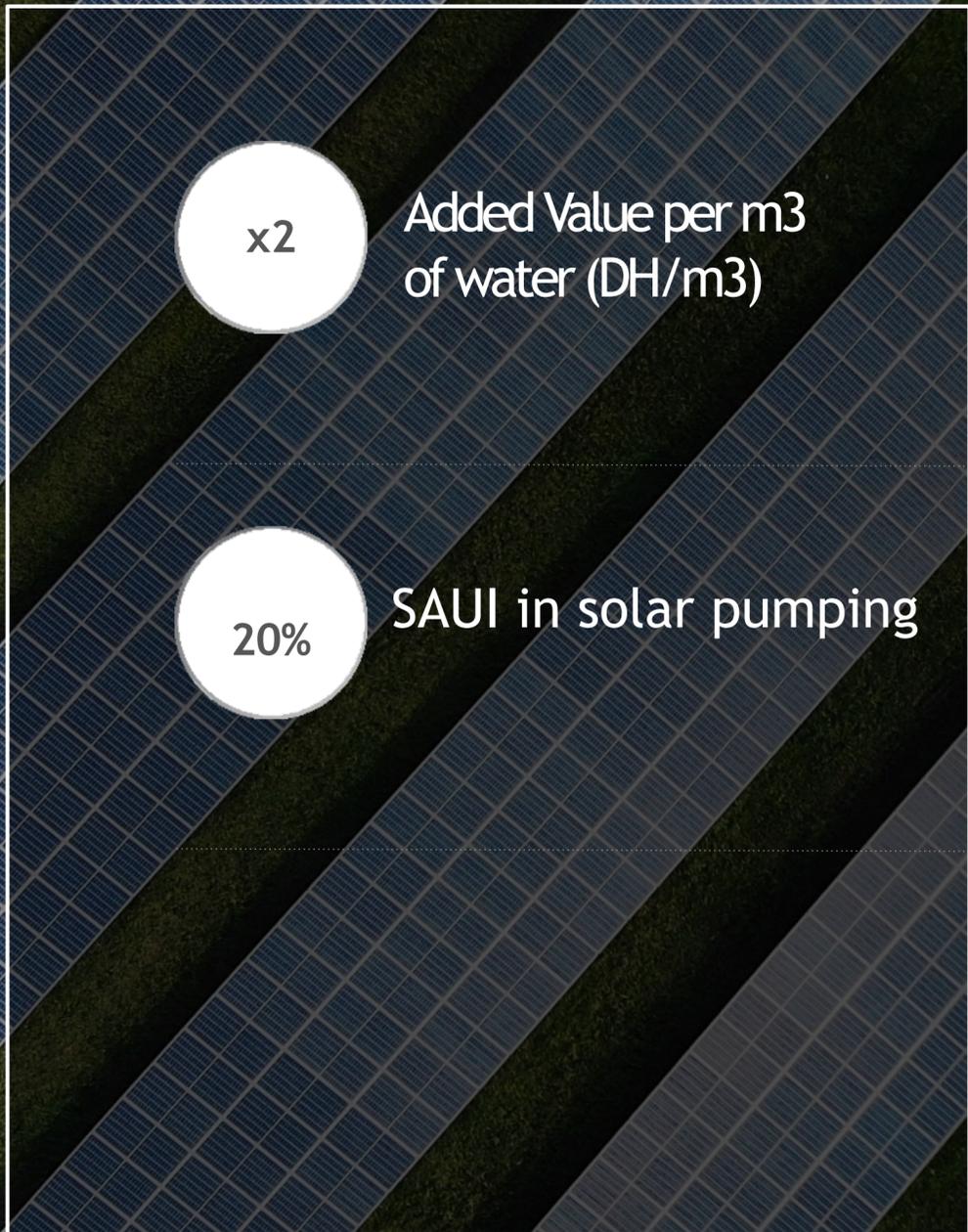
Resilience



Diversity



Resilient and eco-efficient agriculture



THE GREEN GENERATION

Investing in water and energy efficiency in order to preserve natural resources and create new income-generating and employment activities

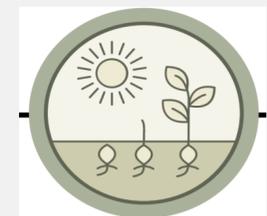
 Continuation of water mobilization and saving programs

 Promotion of renewable energies

Solar

Biomass

 Dissemination of soil conservation techniques



Efficiency



Diversity



Synergies



Recycling



Resilience