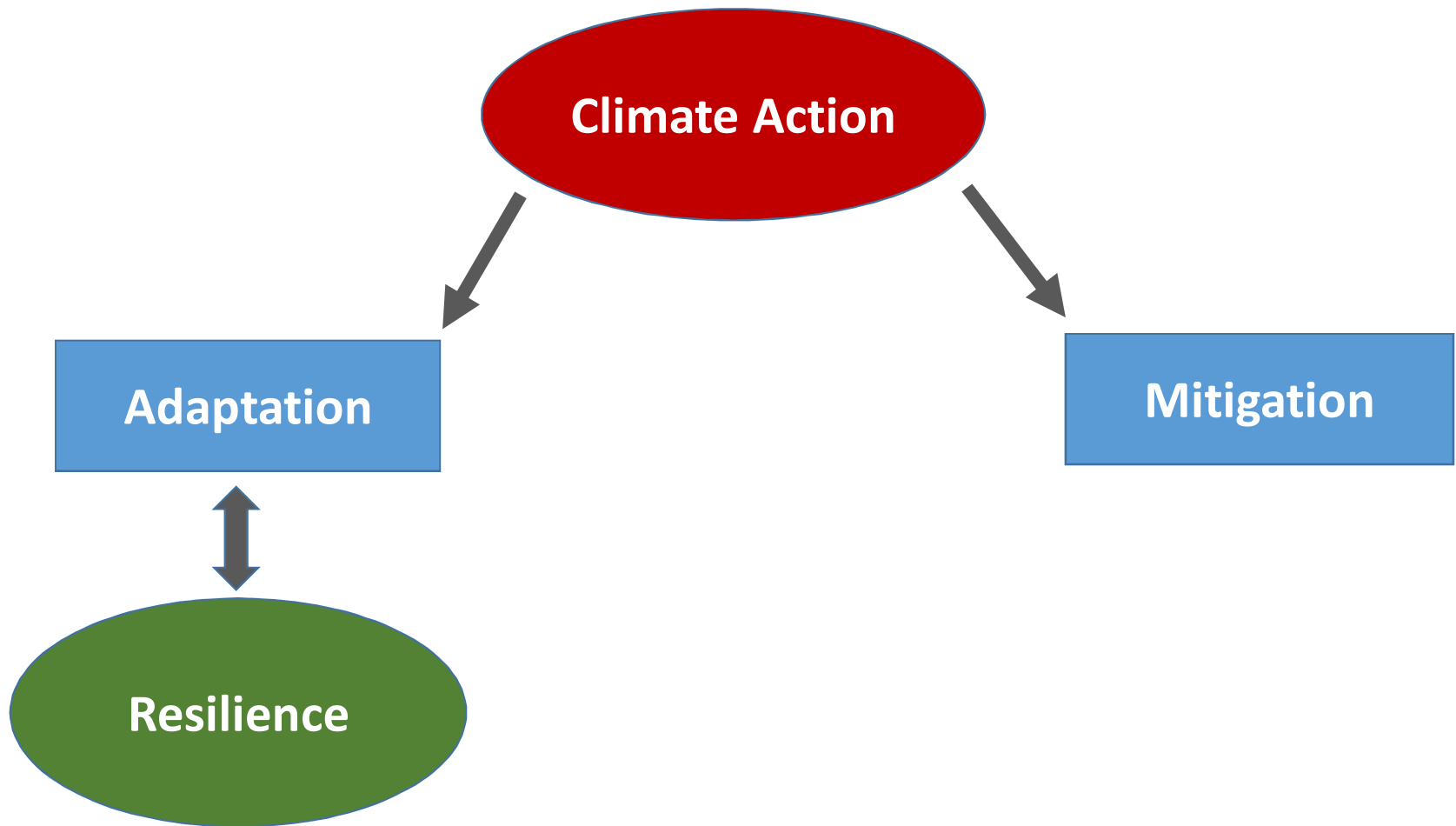


Regional Consultation on Climate Change for the 2019 Arab Forum on Sustainable Development and High-Level Political Forum

Climate Change Impact, Adaptive Capacity and Response Measures for Enhanced Resilience

Marwan Owaygen

Beirut, 21-22 March 2019



Enhancing Resilience

**Anticipating the adverse effects
of climate change**

**Taking appropriate actions to prevent
or minimize the damage they can cause**



Anticipating the adverse effects of climate change

- ❑ A comprehensive understanding of the impacts of climate change on key sectors (water, agriculture, environment, health, etc.) is essential to developing informed adaptation responses to climate change.
- ❑ Encourage efforts to upgrade work on longer-term climate projections.



Enhancing Resilience

**Anticipating the adverse effects
of climate change**

**Taking appropriate actions to prevent
or minimize the damage they can cause**

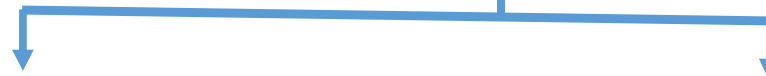
**Taking appropriate actions to prevent or minimize
the damage the adverse effects of climate change can cause**



**Long term
(Sea level rise)**



**Short and
medium term**



**Disaster Risk Reduction
(e.g. floods control)**

**Climate-resilient
farming systems**

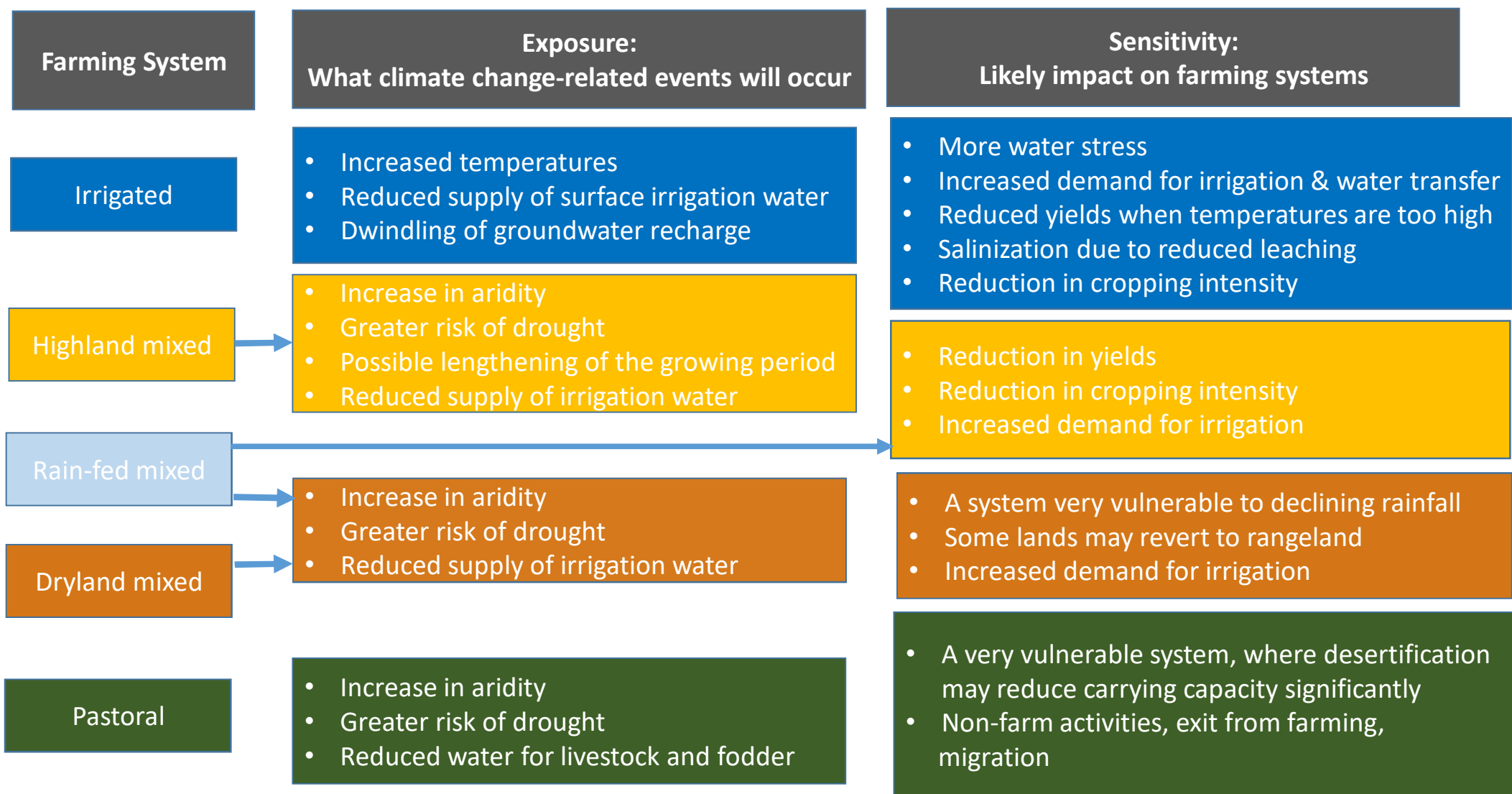



Figure 1: Climate change impact on farming systems of the Arab Region
Source: World Bank, 2013

- 
- ❑ With modernization and urbanization, agriculture's share of the region's fast expanding economies has been declining, but the sector is still growing in absolute terms. It remains key to primary production and is the mainstay of the rural economy.
 - ❑ Overall, agriculture contributes 13 per cent to regional GDP, and considerably more in some countries.

Agriculture share in GDP:

- >20 per cent: Sudan, Syria
- >10 per cent: Egypt, Mauretania, Morocco
- >5 per cent: Algeria, Iraq, Tunisia, Yemen

Employment in agriculture

Algeria: 11%
Egypt: 28%
Iraq: 23%
Morocco: 39%

**Taking appropriate actions to prevent or minimize
the damage the adverse effects of climate change can cause**



**Long term
(Sea level rise)**



**Short and
medium term**



**Disaster Risk Reduction
(e.g. floods control)**

**Climate-resilient
farming systems**



- ❑ Governments of the region should develop strategies for adapting to climate change.
- ❑ Because aridity will increase and water is the binding constraint to agriculture in the region, they should evaluate trade-offs between **supporting climate change responses in agriculture** and **preparing parts of the rural economy for transition** away from agriculture including off-farm income.

Source: Arab Horizon 2030: Prospects for Enhancing Food Security in the Arab Region (2017)



International Development Research Centre
Centre de recherches pour le développement international



Knowledge. Innovation. Solutions.

Savoir. Innovation. Solutions.