

Managing Resilience Across Sectors

“The Morocco Integrated Risk Management Experience”



The World Bank

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Different exogenous shocks are impeding Morocco's economic development, i.e. natural disasters

Agadir 1960 and Al-Hoceima 2004 Earthquakes

12,000 and 600 dead respectively

Tsunamis

Repeat of 1755 Lisbon
earthquake > 10 meter waves
in Casablanca

Tangier Floods 2008

30 dead; economic
loss in industrial
zones



Extreme Economic Losses are Possible!

Morocco National Hazards Probabilistic Risk Assessment (MnhPRA)

	Worst Case Impact * (US\$)	AAL (MAD)	GDP**	Budget**
Earthquakes	5.4 billion	98 million	5.5%	17.1%
Floods	3.9 billion	485 million	4.0%	12.4%
Tsunamis	6.8 billion	14 million	6.9%	21.4%

* 10,000 event

** Based MhnPRA; I-O model and a CGE model data also available

Commodity Price (Energy) Volatility

Cost of Subsidies-Actual versus Budgeted



Subsidy expenditures are now the second line item in the budget of the government, after employee salaries, and, in 2012, reached a high of 6.2% of GDP.

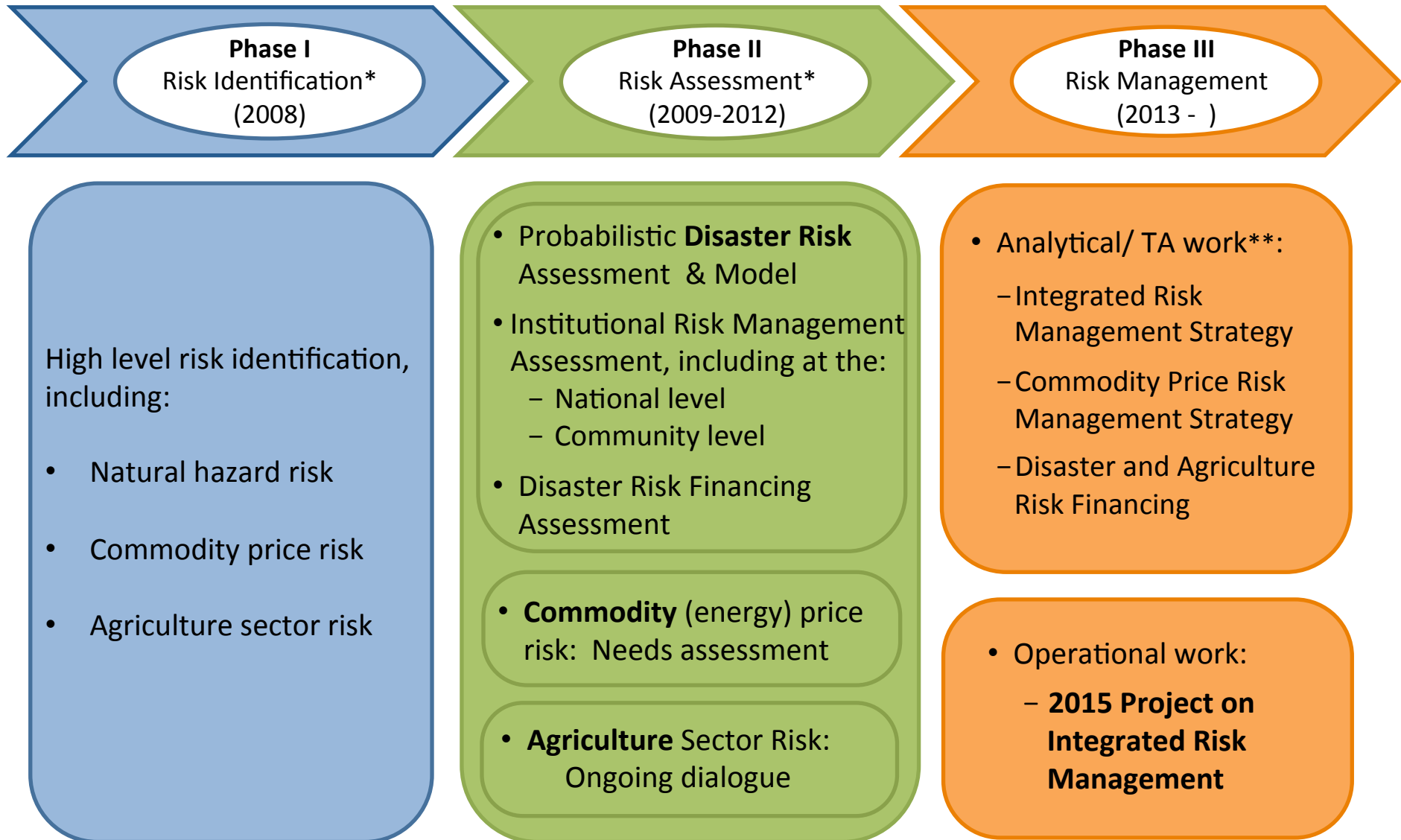
Risks in the Agriculture Sector



Risks in the agricultural sector which constitutes 15% of GDP and 40% of employment matter significantly


INTEGRATED APPROACH TO RISK MANAGEMENT IN MOROCCO (2008 - ONWARD)

Overview of Morocco - Bank Partnership



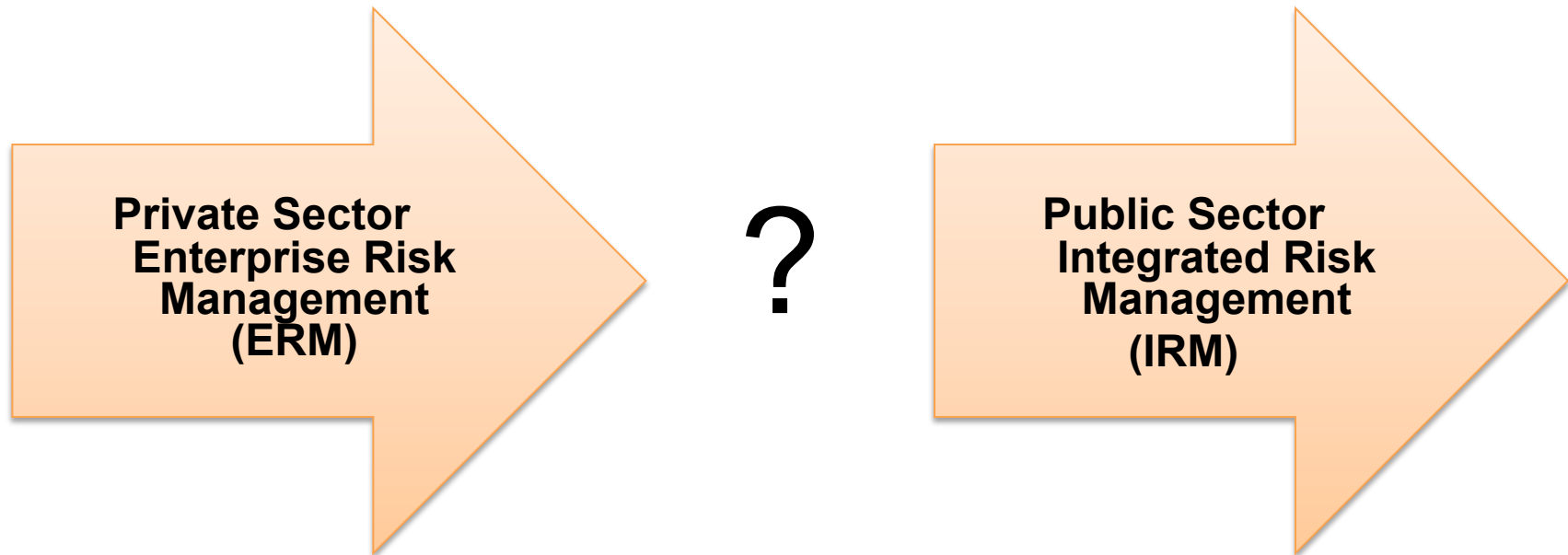
*Financed by a variety of donors, including GFDRR, the Swiss Development Corporation (SDC), the FIRST Initiative, and the Trust Fund for Environmentally and Socially Sustainable Development (TFESSD)

** Financed by the CMI, Bank BB and SECO (tbd)

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Towards a Public Sector “Integrated Risk Management (IRM)” Model

- **Traditional Risk Management in the Public Sector**
 - Fragmented information sources
 - Risk management often conducted in silos
 - Risk management rarely coordinated and risk interdependencies not recognized
 - Focus on the “ex-post” disaster response instead of “ex-ante” risk mitigation activities



Morocco “Risk Management and Resilience Fund”

Objective is to improve integrated decision making and finance high priority risk mitigation activities

- 1) National Steering Committee across Line Ministries
- 2) Financing Mechanism: Fonds de Lutte Contres des Catastrophes Naturelles
- 3) Systematic Decision Making and Investment Allocation Process

Significant Opportunities and Benefits of IRM....

- Identifying Risks and Preparedness
 - ✓ consistent identification and prioritization of key risks facing a country
 - Improving understanding of risk interdependencies
 - ✓ risks are too often treated in silos but they are becoming more and more interdependent—i.e., climate change/ urbanization
 - Enhancing communication and coordination
 - ✓ enhances vertical and horizontal integration within the government and involves other key stakeholders
 - Making Informed and Cost-Effective Decisions
 - ✓ helps answer questions on “biggest bang for the buck” in terms of risk reduction by looking at risks cross sectorally
- *Based on good risk analytics can thus providing top decision makers with a more complete “dashboard” of exposure and possible solutions*

...But Many Challenges and Questions Remain

- Data availability/ consistency challenge for “risk analytics”
 - ✓ Easiest for natural hazards, but other sectors
 - ✓ What is the common metric?
- Lead agency and coordinator for risk management across sectors
 - ✓ What is the most appropriate institutional set-up
 - ✓ National Steering Committees (a la Singapore, Netherlands)
 - ✓ Dedicated national risk management office (a la Japan/ UK)
 - ✓ Central fiscal risk unit in Ministry of Finance (a la Columbia)
- Most appropriate role for Line Ministries/ Local Governments
 - ✓ Even with central coordination Line Ministries/ Local Governments remain key
- Best mechanisms to incentivize risk mitigation actions
 - ✓ Dedicated financing windows/ conditional grant making mechanisms
- Complex stakeholder engagement and coordination!!!



New 2015 World Bank financed project in support
of Integrated Risk Management in Morocco

World Development Report 2014: Risk and Opportunity

Morocco Approach to Risk Management Fully Consistent with WDR 2014 on Risk and Opportunity



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