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International Technical Webinar

How to strengthen the capacity to manage risks in agriculture: Experiences from practice

An Overview of the Four E-learning Courses on Agricultural Risk Management (ARM)

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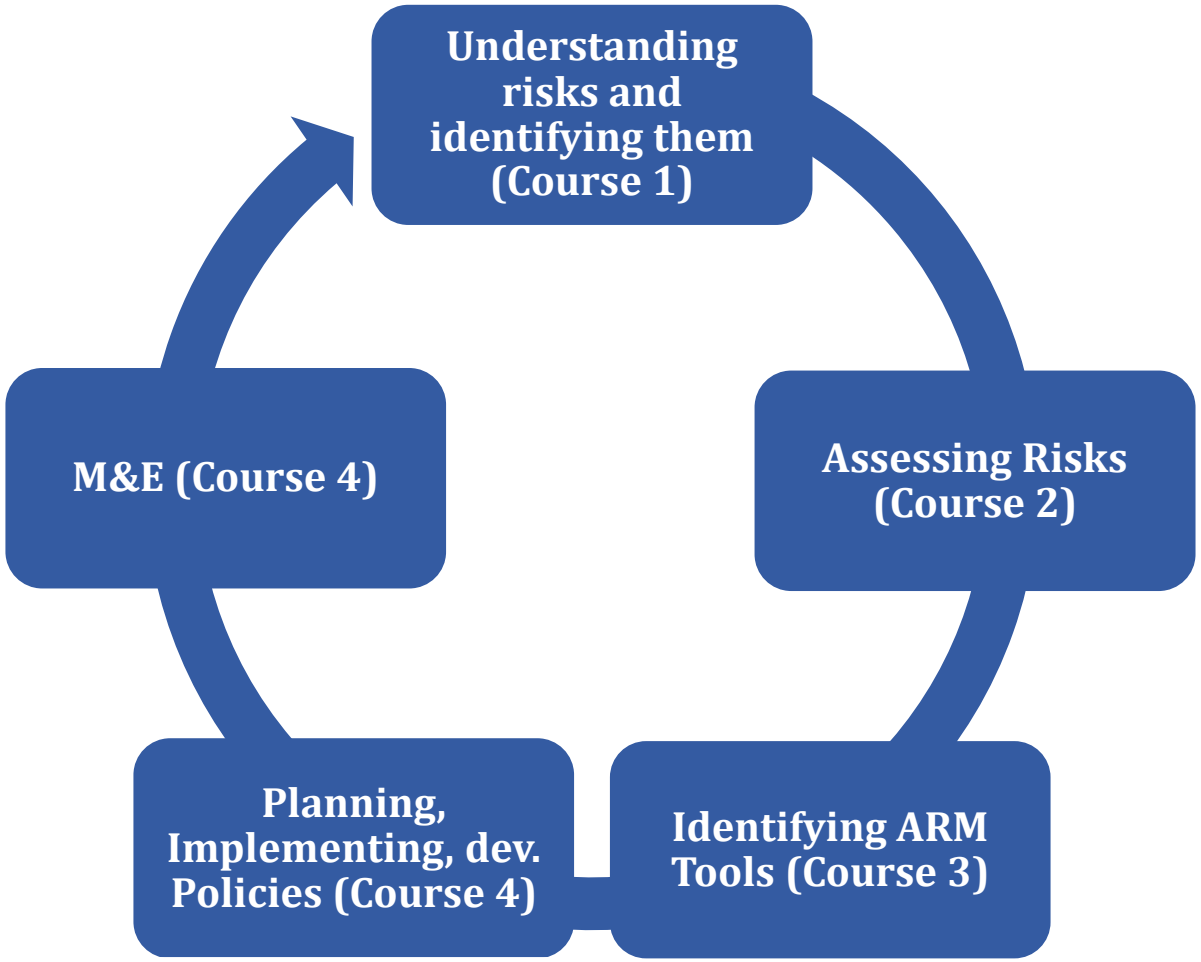
Target Audience

1. Policy Group - Dealing with Policy Formulation:
   - Policy makers, planners, and government officials.
   - Academic learners interested in risk management in agriculture (at basic levels)
   - Development practitioners dealing with ARM
2. Farm Group - Primary Producers and helpers:
   - Farmers,
   - farm management advisors,
   - farmer organizations and communities;
3. Service Group - Intermediaries in Value chain :
   - Service and input providers,
   - Intermediaries dealing with ARM services.
   - Other operators in the agri-food value chains.

Framework: Risk Management Strategy Cycle



Source: Adapted from PARM (2018)

1
COURSE

Understanding the Risk Environment in Agriculture

Understanding the Risk Environment in Agriculture

Learning Objectives

- Get an overview of different **types of risks** affecting activities in agri-food system, their **characteristics,** and main **causes**
- Appreciate potential **implications** of these risks to farmers and other stakeholders in the agri-food system
- Learn about the **holistic approach** (interactions of risks, strategies and policies) to risk management in agriculture
- Learn how managing risks can contribute to **improved livelihood** and **food security**

2
COURSE

Assessing Risk in Agriculture

Assessing Risk in Agriculture

Learning Objectives

- Get an overview of different **qualitative** and **quantitative methods** commonly used to rank and **prioritize** risks
- Learn about the process and outcome of a **risk assessment** at the local area and national levels
- Know about **risk mapping** and **risk assessment and management capacity profiles** in the country
- Appreciate what **key information** is required for carrying out a risk assessment process

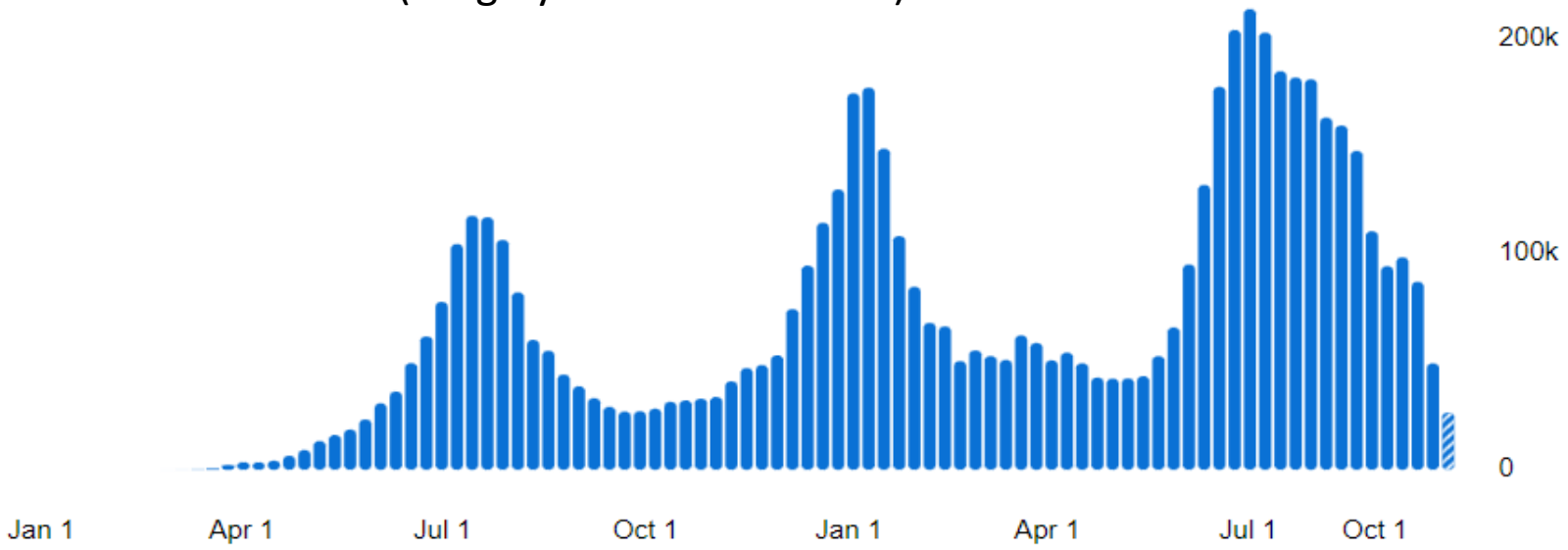
EXAMPLES of new risks:

Africa: Three waves of COVID-19 - new confirmed cases

Africa

6,074,624
confirmed cases

Cumulative deaths 147,777 (2.43% vs global rate of 2.04%) (excl. North Africa)
Estimated reduction in 2020 GDP growth in SSA 5.5% (roughly USD 368 mill PPP)

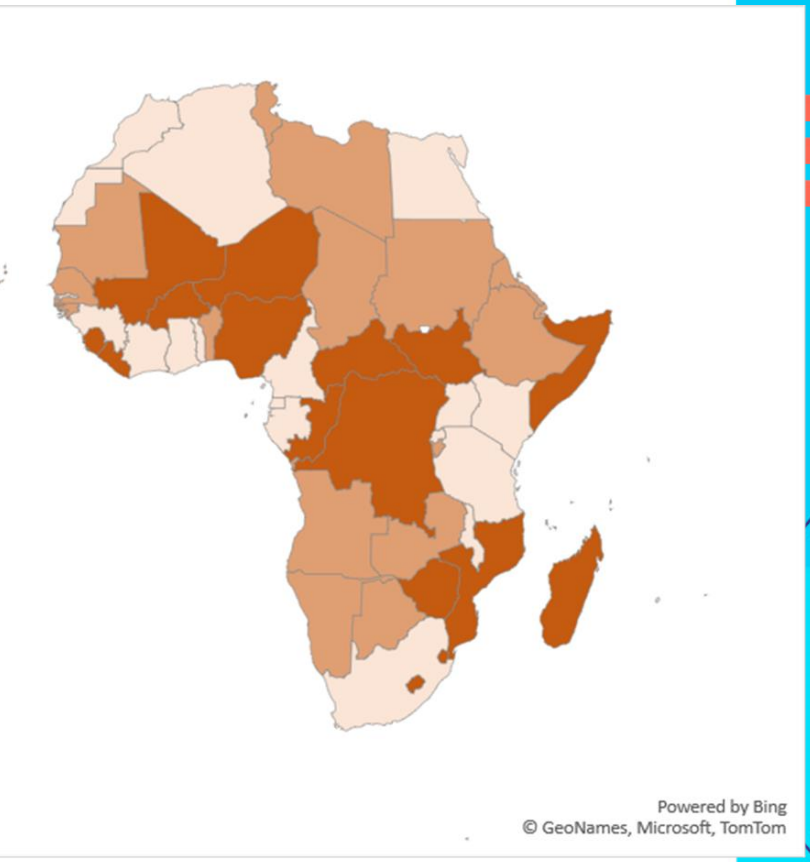


(https://covid19.who.int/)

Composite Vulnerability Index-2 (CVI-2) with equal weights to P1 to P4 Pillars

- With **coping capacity and resilience,** CVI-2 produces a valuable list of priority **countries requiring external assistance** to deal with the impact of COVID-19 disaster on food security.
- Priority list in CVI-2 includes – **11 LDCs, 8 LLDCs & 1 SIDS**
- Vulnerable countries lacking internal coping capacity (**Burkina Faso, Central African Republic, Mali, and Niger**) move up into this Priority 1 group as compared to CVI-1.
- Those with higher scores on the coping capacity index (**Botswana, Namibia, Sao Tome and Principe, and Tunisia**) move down and out of this group.
- The least vulnerable 5 are- **Morocco, Gabon, Algeria, Mauritius and Egypt.**

Somalia*
South Sudan*
DRC*
Zimbabwe
Mozambique*
Libya
Liberia
Sierra Leone*
Central Af Rep*
Cabo Verde
Nigeria
Madagascar*
Mali*
Lesotho*
Niger*
Burkina Faso*
Congo, Rep
Eswatini



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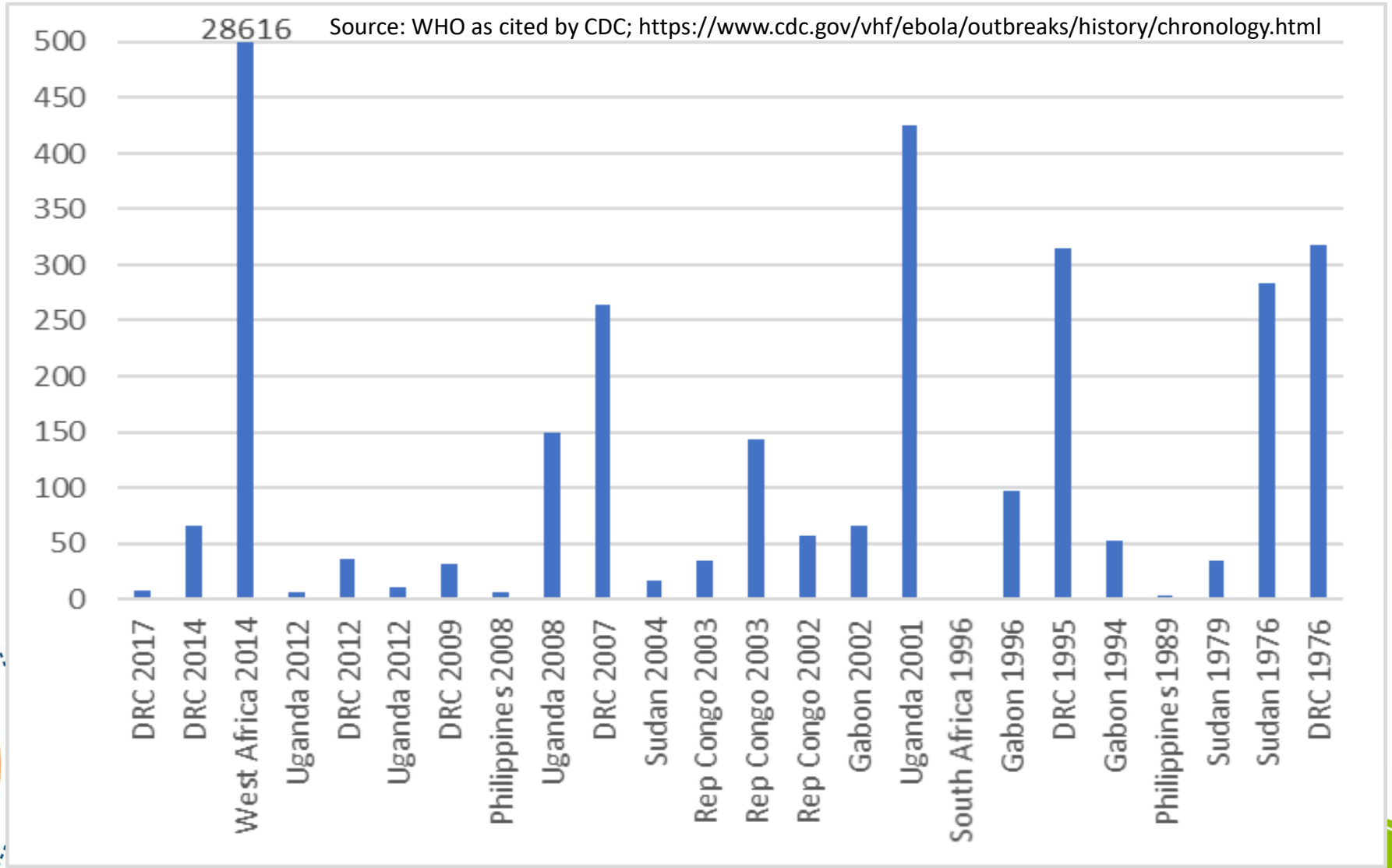
Known cases of Ebola Virus Disease

The overall impact of the 2014-15 Ebola crisis on Guinea, Liberia, and Sierra Leone has been estimated at $2.8 billion (World Bank)

Every 6-7 years a major one since 1995?



3
COURSE

Agricultural Risk Management Tools

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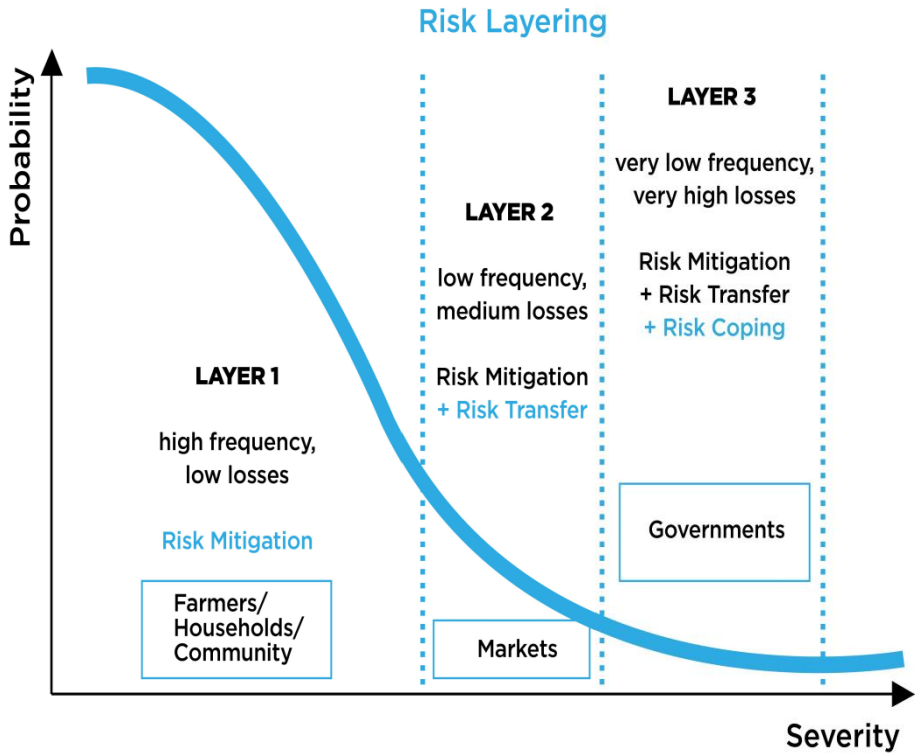
Risk Layers: Frequency (Probability) and Severity (Impact) and Management Options



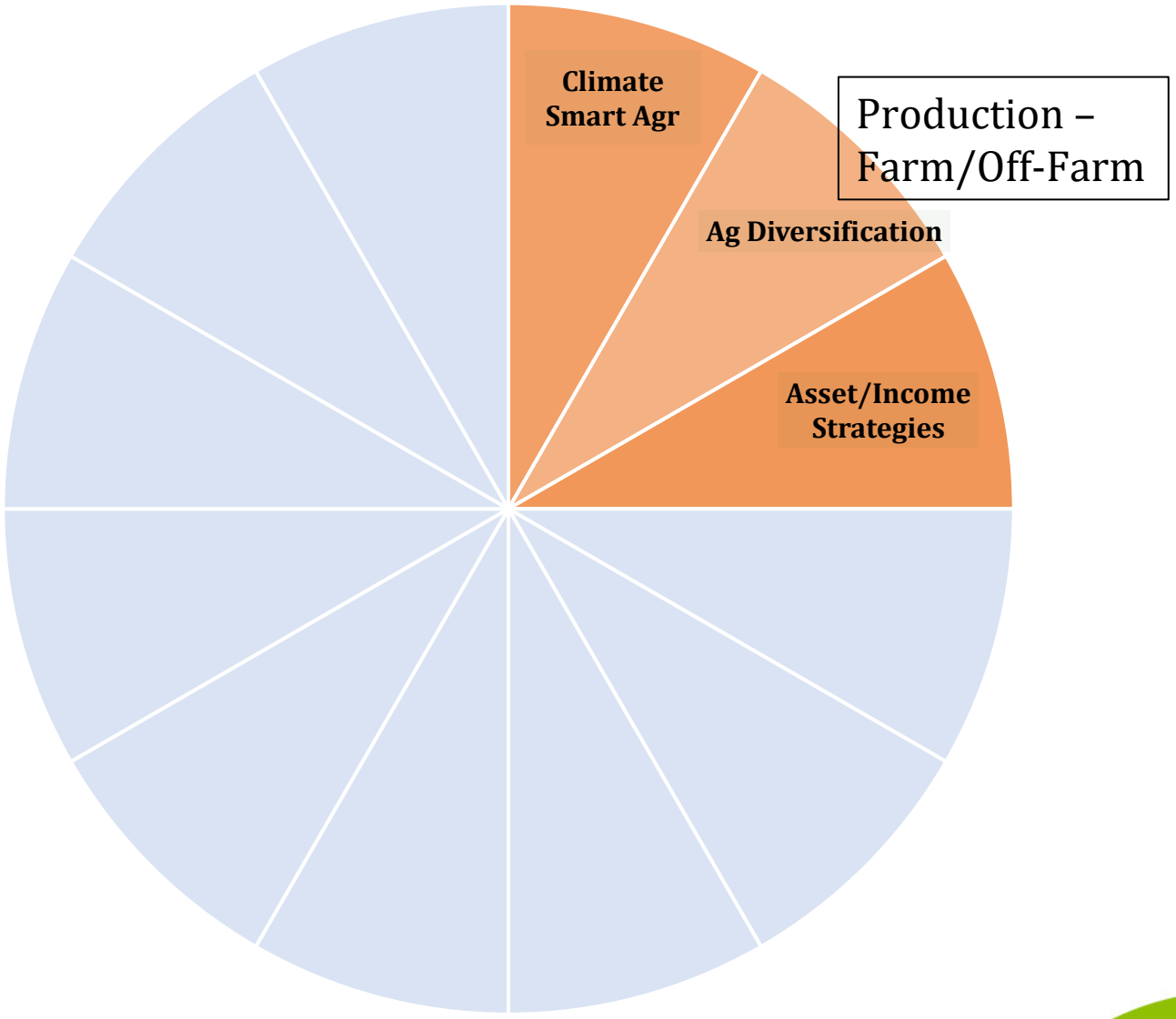
Source: PARM (2018) as adapted from World Bank (2016)

Agricultural Risk Management Tools

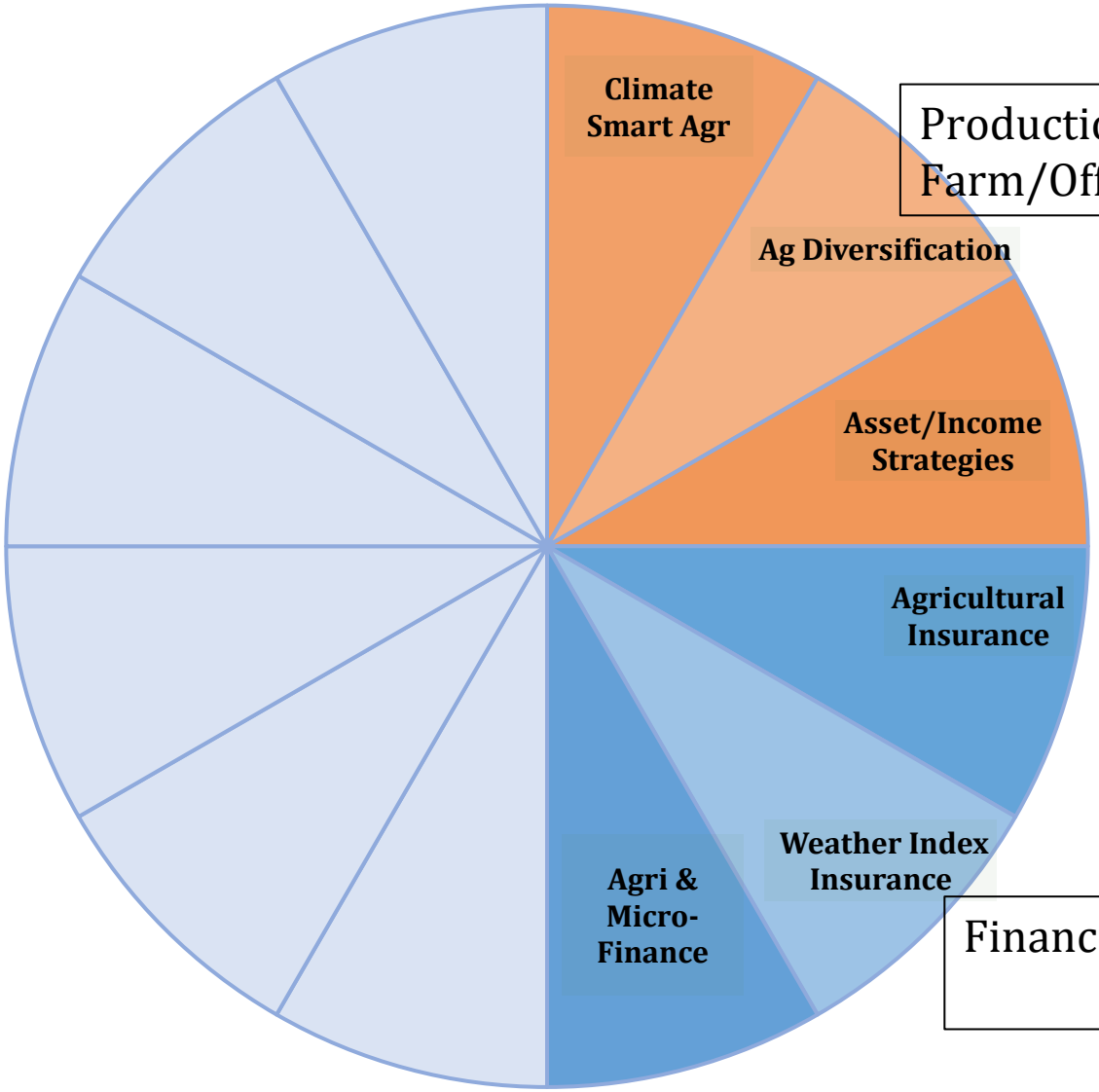
Learning Objectives

- Providing an outline of the main **on-farm** and **off-farm** ARM tools
- Describing major **production**, **finance**, **market**, and **government-support** related ARM tools
- Identifying the **suitability** of these tools alone or in combination for a given situation
- Appreciating the **advantages** and **disadvantages** of ARM tools

Selected ARM Tools



Selected ARM Tools



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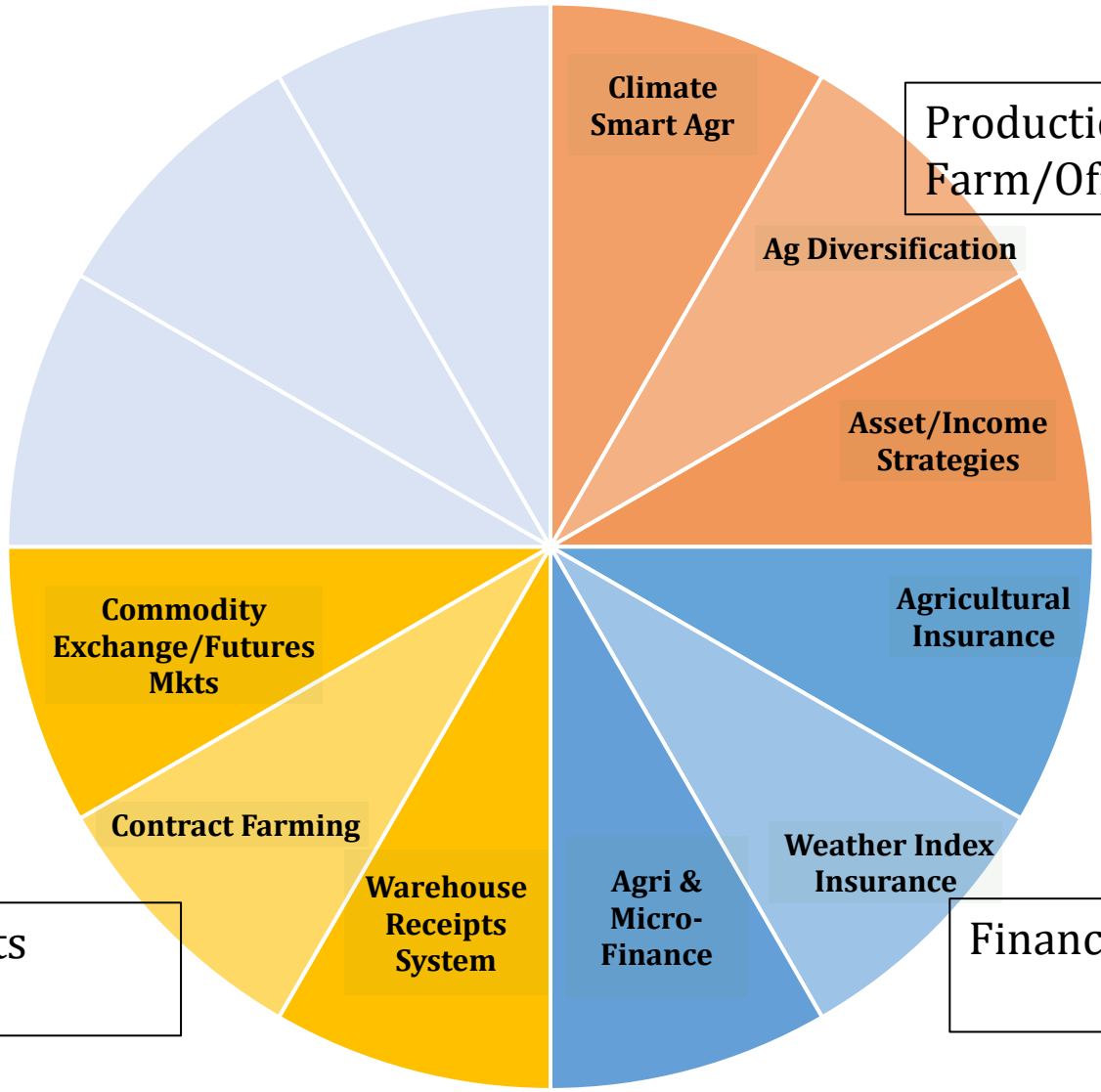
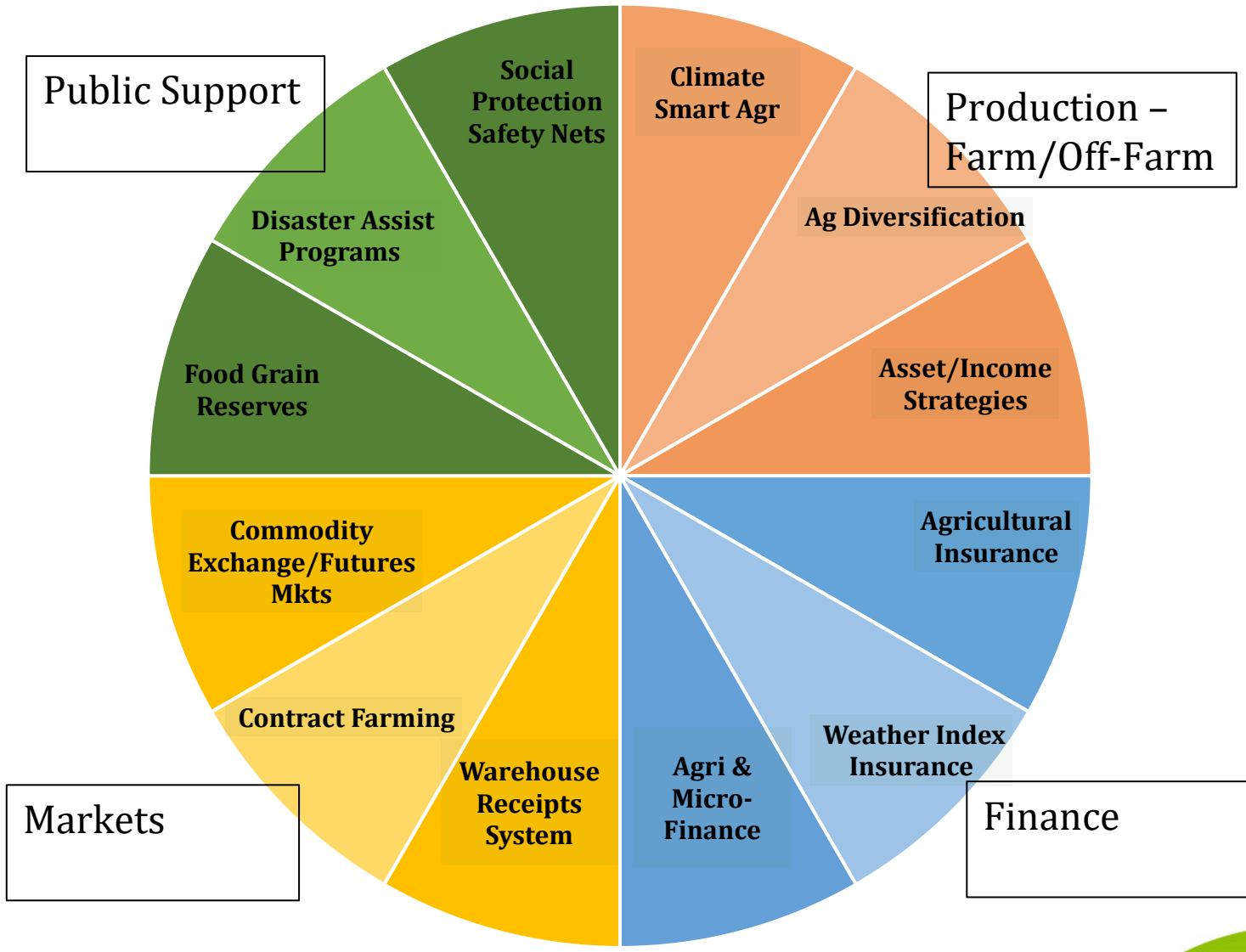


Selected ARM Tools



Selected ARM Tools

Each tool follows the following format:

- **What is it**? – Concepts and Characteristics
- **Suitability** of the tool (for whom, for what type of risk, for which crops or livestock, where and under what conditions)
- **Advantages** (pros - general positive aspects)
- **Disadvantages** (cons - general negative points)
- **Examples and/or Case studies** – one each, total 12
- **Assessment test** for students, and
- List of relevant **references** for further information

4
COURSE

Agricultural Risk Management Strategy, Policy and Mainstreaming

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Capstone Course with 4 lessons:

Developing and implementing ARM strategy at three different levels dealing with what can be done to deal with given risk s in a coordinated manner

* HOLISTIC COORDINATED STRATEGIES, * PUBLIC POLICIES and * MAINSTREAMING

Lesson 1:Farm Level (Micro)

>Selecting risks, tools, consolidating & prioritizing ARM strategies

>Farmers' role in linking with other levels

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Capstone Course with 4 lessons:

Developing and implementing ARM strategy at -

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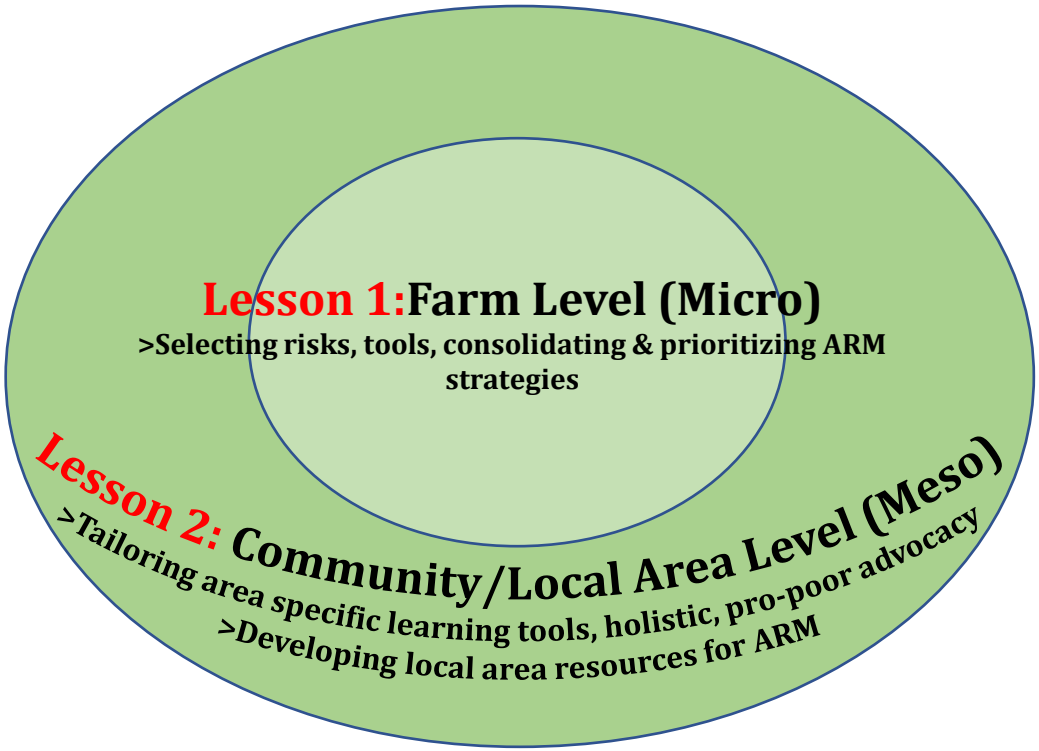

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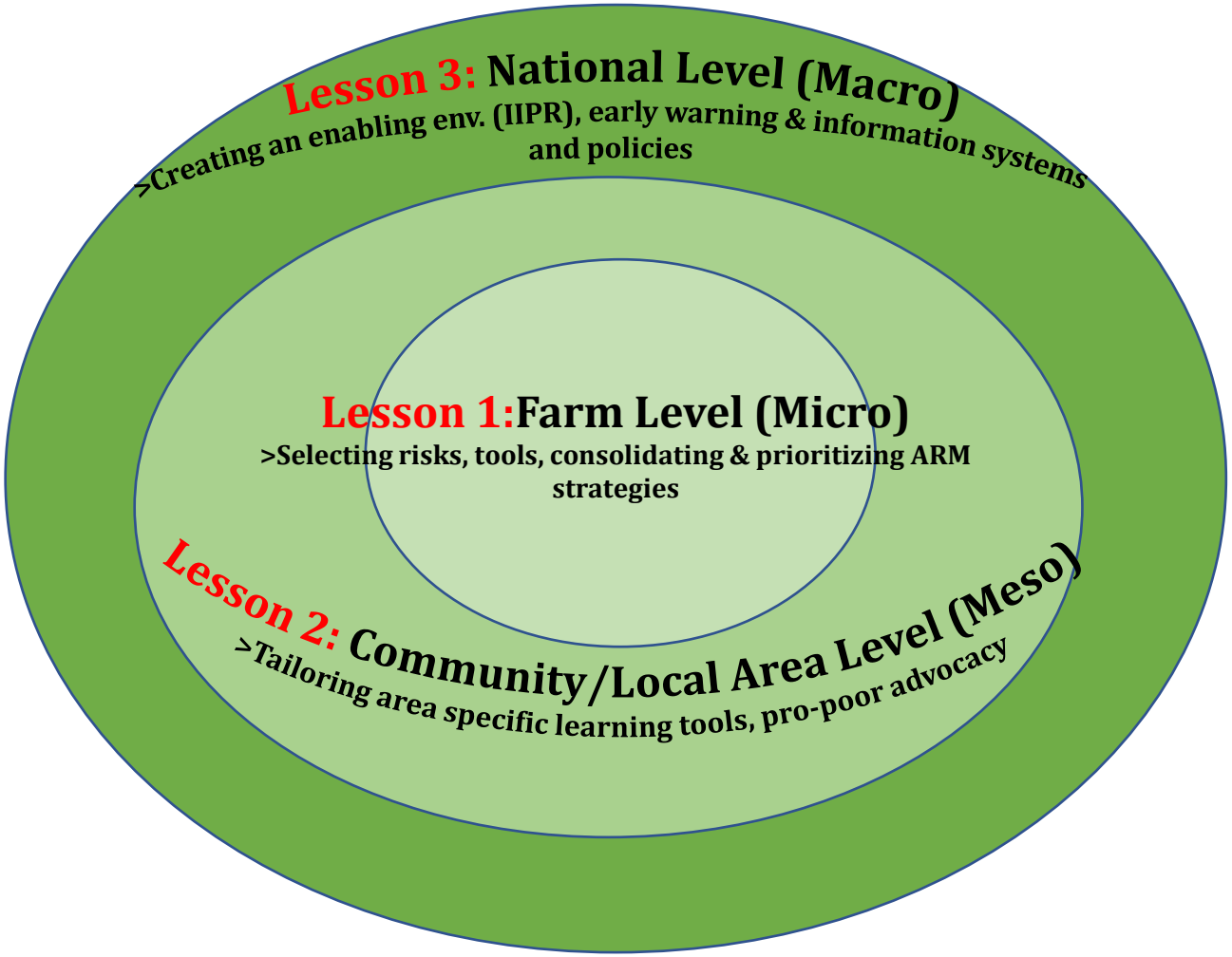

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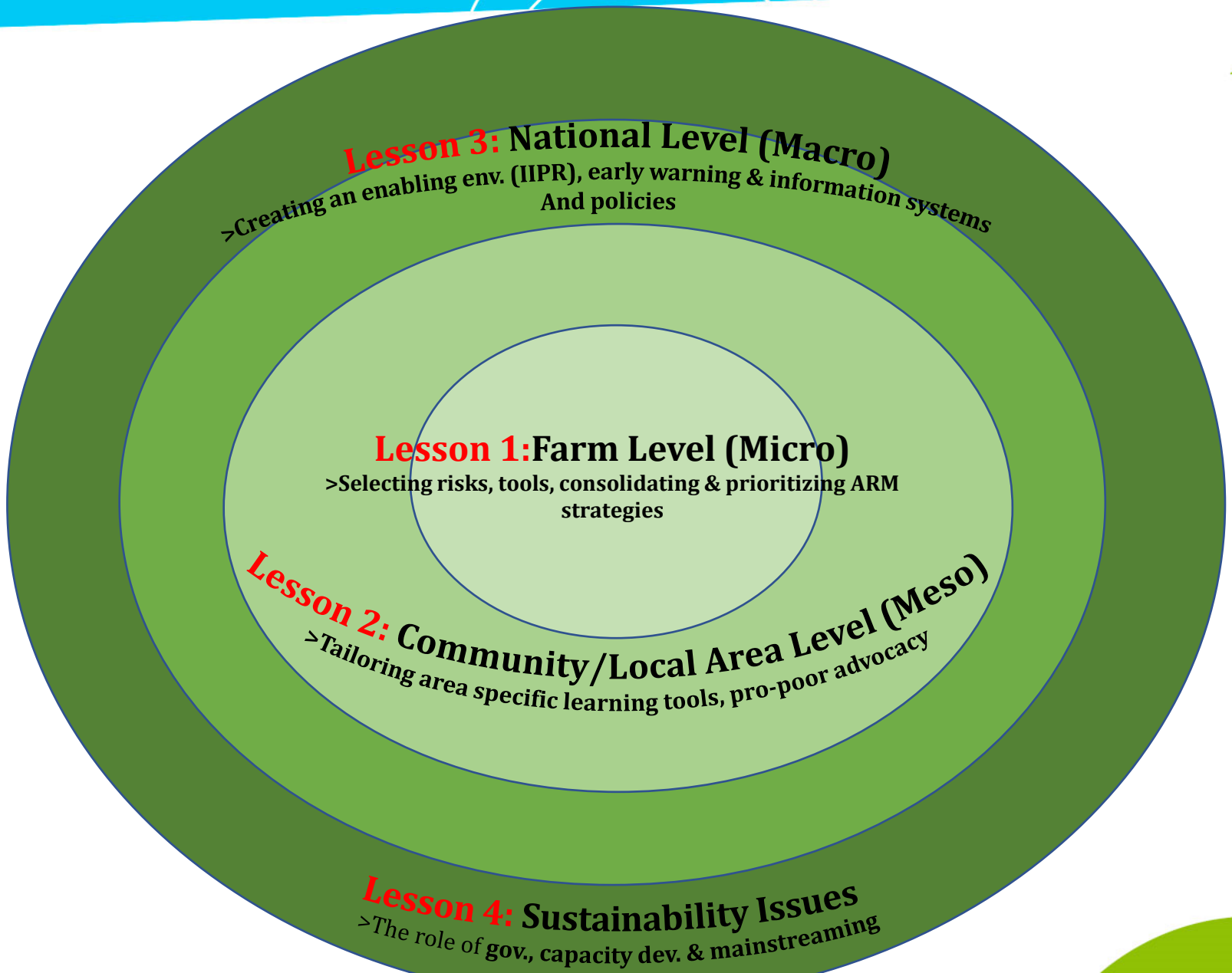

Concluding Comments

- Of course, **agriculture is dependent on natural elements, so it is prone to risk**. As demonstrated by the **COVID-19 pandemic,** new and more severe threats exist for all those connected to agri-food systems and their food security and livelihoods. But we can learn about different **ways to manage the risk** or to mitigate its impact.
- In general, **developing countries lack the capacity** to deal with these risks. The good news is that it is possible to **develop risk management capacity; resources are** available for human skills building.
- Specifically, about these courses, there are **limitations.** Even though various practical examples and case studies are provided, it is not a hands-on vocational training course. It needs to be supplemented with practical **examples, best practices, and the experiences** of practitioners.
- Also, with the help of additional resources such as detailed **content documents** and other vital references for each course, keener learners can seek much more profound knowledge. Primarily an **academic and guided learning can be set up** based on these courses.
- You can get a **certification badge** after completing each course and the test.

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Thank you for your kind attention

Comments, questions are welcome

(email: k.gunjal@gmail.com)

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