

## **IAASTD Global Assessment Outline**

### ***Section I    Setting the scene***

#### **Chapter 1    Conceptual framework and context**

- 1.1    Definitions of key terms;
- 1.2    Conceptual framework: key elements
- 1.3    Indirect and direct drivers of change

#### **Chapter 2    Status of development and sustainability conditions today**

- 2.1    Indicators - qualitative and quantitative s
- 2.2    Hunger, nutrition and human health
- 2.3    Poverty and livelihoods
- 2.4    Environment and natural resources
- 2.5    Social sustainability
- 2.6    Key issues

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Section I will present the fundamental inquiry framing the Assessment: “How can we reduce hunger and poverty, improve rural livelihoods and facilitate equitable, socially, environmentally and economically sustainable development through the generation, access to and use of agricultural knowledge, science and technology”?

The section will define key terms; present the conceptual framework that will guide the Assessment; discuss the indirect and direct drivers of change in AKST systems; and review the state of key development and sustainability conditions in today’s world. The section will also discuss the key issues to be explored in order to help AKST to help meet development and sustainability objectives.

## **Section II                      *Historical and Current Perspectives***

### **Chapter 3            Evolution of AKST since 1945**

- 3.1    Typology and evolution of AK systems
- 3.2    Relevance of different knowledge systems to development and sustainability objectives
- 3.3    AKST: History and trends
- 3.4    AKST: Funding and economic returns
- 3.5    Role of institutional AKST
- 3.6    Role of local AKST
- 3.7    Interactions between institutional and local AKST
- 3.8    Neglected potentials

### **Chapter 4            Impacts of agricultural systems, including AKST, on development and sustainability objectives<sup>1</sup>**

- 4.1    Impacts of AKST on development and sustainability objective
- 4.2    Contributions of non-KST factors to development and sustainability objectives

### **Chapter 5            Factors affecting the generation of, access to and use of AKST**

- 5.1    Impacts of factors on the development and sustainability objectives
- 5.2    External factors that facilitate or inhibit the design and use of AKST

Section II introduces the history and current role of AKST in addressing the development and sustainability objectives of improved nutrition, human health, and livelihoods; reduced hunger and poverty; and environmental and social sustainability; and the key issues related to the role of AKST in meeting these objectives (globalization, urbanization, institutional change, water quantity and quality, etc.), described in Section I, Chapter 2.6. It will present a critical assessment of recent and on-going AKST research agendas, capacities and capabilities.

It will take an integrated view of agriculture in its broadest sense, i.e., the use of the renewable resources of ecosystems, terrestrial and aquatic, to produce diverse goods and services (food, timber, medicines, energy, etc.) needed for human life and for development. Therefore, it will assess production systems in their entirety and complexity.

The historical perspectives will primarily focus on the past 60 years because this period, which followed the end of World War II (1945), is recognized for rapid advances in AKST that influenced overall development in almost all parts of the world. However, recognizing that there is an extensive body of knowledge from the past hundreds and thousands of years, this Section will also place the progress made in the last 60 years within the broader historical context.

<sup>1</sup> Development and sustainability objectives: improved nutrition, human health and livelihoods; reduced hunger and poverty; and environmental and social sustainability.

## **Section III                    Plausible Futures**

### **Chapter 6            Alternative futures for AKST**

- 6.1    Review of existing plausible futures exercises and potential utility for IAASTD
- 6.2    Assessment of indirect drivers of alternative futures in IAASTD
- 6.3    Assessment of direct drivers of alternative futures in IAASTD
- 6.4    Assessment of modelling tools and qualitative approaches for alternative futures

### **Chapter 7            Alternative futures: Storylines and scenarios for IAASTD**

- 7.1    Scenario 1
- 7.2    Scenario 2
- 7.3    Scenario 3
- 7.4    Scenario 4
- 7.5    Scenario 5

### **Chapter 8            Storyline/Scenario Outputs and Analyses**

- 8.1    Outputs for development and sustainability objectives
- 8.2    Outputs for the key challenges and issues
- 8.3    Interpretation and synthesis of outputs

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Section III builds on two of the major outputs of the previous sections: lessons learned about the successes and failures of AKST in meeting the development and sustainability objectives that are the focus of the IAASTD, and the key challenges and issues identified in Section I, Chapter 2.6, e.g., urbanization, water quantity and quality.

It will review the relevance of similar storyline and scenario development and application exercises; assess the selection of a set of closely compatible existing scenarios as a starting point; and then review and adapt the scenarios relevant to the goals of IAASTD. Each storyline will be enriched through a more comprehensive representation and analysis of the development of AKST, and then brought to life through scripted storylines which weave together the global development goals, the key challenges and issues, AKST and enabling policy and institutional contexts.

## **Section IV The Way Forward: AKST, Policies and Institutions**

- Chapter 9 The impact of AKST on development and sustainability objectives**
- 9.1 Future challenges in addressing development and sustainability objectives
  - 9.2 Options for meeting future challenges
  - 9.3 Impacts of AKST on the development and sustainability objectives under different scenarios
- Chapter 10 The Way Forward: Policies, regulations, and institutions and the development and sustainability objectives**
- 10.1 Scenario analysis: Policy environment
  - 10.2 Scenario analysis: Policy instruments
  - 10.3 Policy, regulatory and institutional implications under the different scenarios
  - 10.4 Synthesis and ways forward
- Chapter 11 Developing future capacities to generate, disseminate, access and use AKST**
- 11.1 Implications for investment from scenario analysis
  - 11.2 Implications for capacity development from scenario analysis
  - 11.3 Synthesis and ways forward
- Chapter 12 Learning, change and commitment: scenario analysis**
- 12.1 Convergence: scenario analysis
  - 12.2 Learning and change: scenario analysis
  - 12.3 Knowledge systems under different scenarios
  - 12.4 Emergent paradigmatic elements and contrasts
  - 12.5 Implications for individuals and institutions
  - 12.6 The way forward: commitment and action
- Chapter 13 Summary of IAASTD findings in relation to the development and sustainability objectives and the key challenges and issues**

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Section IV will assess how AKST can affect the development and sustainability objectives in the future. The chapter will assess how conventional technologies and knowledge, new agricultural technologies and knowledge, non-agricultural technologies and knowledge, and local community-generated technologies and knowledge can contribute to addressing the development and sustainability objectives under different scenarios.

It will assess policies, regulations and institutions in terms of assistance for the use and dissemination of AKST to address the development and sustainability objectives and the key challenges and issues and will examine the relevance to achieving the goals of individual, professional, institutional and social learning, change and commitment.