

TEEB for Agriculture & Food Interim Report - TABLE OF CONTENTS

ACKNOWLEDGEMENTS	ii
FOREWORD	iii
PREFACE	iv
EXECUTIVE SUMMARY	viii
TABLE OF CONTENTS	xiv
GLOSSARY & KEY CONCEPTS	xvi
LIST OF ACRONYMS	xix
LIST OF BOXES	xx
LIST OF FIGURES	xxi
1 ECO-AGRI-FOOD SYSTEMS	1
What are 'eco-agri-food systems', and are they working?	1
Food security for all as a human right	1
Improving well-being and livelihoods	4
Fulfilling the needs of future generations	8
How does the eco-agri-food systems complex score overall?	11
2 MAKING THE INVISIBLE VISIBLE	17
The invisibility of nature in decision-making	17
Unpacking TEEBAgFood	17
A TEEBAgFood Showcase: Ecosystem services in smallholder rice production systems in Asia	20
Food	21
Raw materials	22
Genetic diversity	22
Habitat for species	23
Biological control	23
Freshwater	23
Cultural heritage	24
Measuring what we manage: the need for re-evaluation	24
3 EVALUATING COMPLEXITY: WHAT SHOULD WE VALUE AND WHY?	27
Towards developing a universal framework	28
The Opportunity	29
The Challenges	29
Elements of the Valuation Framework	31
Valuation 'Framework' versus 'Approach' versus 'Methodologies'	31

Value-addition': Valuing costs, benefits and externalities	32
Beyond Economic Value-addition - Social value, resilience value, risks & uncertainties	34
Typology and Scale – recognizing diverse systems, reflecting real landscapes	35
Boundaries – life cycle approach and value chains	36
System Dynamics - modeling evolving policy & physical environments	37
Using the framework	38
At a policy level	38
At a business level	39
At a national accounting level	40
And overall	40
4 FROM ECONOMIC ANALYSIS TO SOLUTIONS FOR POLICY, FARMING, BUSINESS AND CONSUMERS	43
Contextualizing the sector-specific case studies	46
Taking stock: What have we learned from the exploratory studies?	47
Biodiversity	48
Impacts and Externalities	48
Extending the scope of work	48
Feedback loops: Ecosystem health-human health	50
Policy as a cause and catalyst for change	52
A call for the end of business-as-usual and the need to act now	59
How can TEEBAgFood contribute to change?	60
Commissioning and leveraging research on all aspects of the eco-agri-food systems complex	60
Developing a TEEBAgFood Community of Practice: A call to get involved	61
Dissemination, outreach and communications through novel means	62
APPENDIX I Abstracts of TEEBAgFood exploratory studies	67
APPENDIX II Valuation of rice agro-ecosystems	73
APPENDIX III Livestock 'bottom up' assessment	81
APPENDIX IV Ecosystem services and pastoralism in the Maasai Steppe	89
APPENDIX V Modelling agroforestry systems	93