

# CONTENTS

**Boxes, Figures, and Tables**    vii

**Preface**    xi

**Executive Summary**    xiii

**Acknowledgments**    xxiii

**Acronyms and Abbreviations**    xxv

**1. Reasons for Assessing the Value of the  
Innovation Systems Perspective**    I

Knowledge Generation and Application in a Changing  
Agricultural Context    I

Toward Operational Agricultural Innovation Systems    8

Grounding the Innovation Systems Concept in the “New Agriculture”    9

Organization of This Study    II

**2. The Innovation Systems Concept: A Framework for Analysis**    12

Origins of the Innovation Systems Concept    13

Innovation versus Invention    18

Key Insights from the Innovation Systems Concept for Diagnostic and  
Intervention Frameworks    18

Innovation Systems and Value Chains    24

Comparison of NARS, AKIS, and Agricultural Innovation Systems    25

Toward Practical Applications of the Innovation Systems Concept    31

<b>3. Research Methodology and Case Study Descriptions</b>	<b>32</b>
Research Methodology	32
Case Study Selection	33
Information Collection	33
Case Study Descriptions	35
<b>4. Innovation System Capacity: A Comparative Analysis of Case Studies</b>	<b>48</b>
Actors, Their Roles, and the Attitudes and Practices That Shape Their Roles	48
Attitudes and Practices	54
The Enabling Environment	59
Summary of the Analysis of Innovation Capacity in the Case Studies	61
<b>5. Reviewing the Innovation Systems Concept in Light of the Case Studies</b>	<b>66</b>
The Nature of Contemporary Agricultural Challenges	66
Key Characteristics of Innovation across the Case Studies	68
Common Interventions and Their Limits	77
<b>6. Toward a Framework for Diagnosis and Intervention</b>	<b>84</b>
An Intervention Framework for Developing Agricultural Innovation Systems	84
The Pre-Planned Phase in the Orchestrated Trajectory	90
The Foundation Phase	92
The Expansion Phase	93
The Nascent Phase in the Opportunity-Driven Trajectory	95
The Emergence Phase	95
The Stagnation Phase	97
A Dynamic System of Innovation	99
<b>7. Conclusions</b>	<b>105</b>
The Nature of Innovation: Nine Findings	105
The Value of the Innovation Systems Concept	111
Implications for the World Bank	113
<b>Annex A: Agricultural Innovation Systems: A Methodology for Diagnostic Assessments</b>	<b>117</b>
<b>Annex B: Case Studies and Authors</b>	<b>129</b>
<b>Annex C: Case Study Detailed Summary Tables</b>	<b>131</b>
<b>Notes</b>	<b>145</b>
<b>References</b>	<b>147</b>
<b>Index</b>	<b>151</b>