

CONTENTS

| | |
|-----------------------|-----|
| Foreword | v |
| List of Abbreviations | vii |

PART I Global Economic Transitions and Next Evolutionary Industrial Acts

| | | |
|-----------|---|-----|
| Chapter 1 | Industry 4.0: What Does It Mean for the Circular Economy in ASEAN? <i>Venkatachalam Anbumozhi and Fukunari Kimura</i> | 1 |
| Chapter 2 | Connecting Sustainable Lifestyles, Industry 4.0, and the Circular Economy <i>Heinrich Wyes</i> | 36 |
| Chapter 3 | Evolutionary Acts and Global Economic Transition: Progress of the Circular Economy in ASEAN <i>Chettiyappan Visvanathan and Venkatachalam Anbumozhi</i> | 67 |
| Chapter 4 | The Evolution of Industry 4.0 and its Impact on the Knowledge Base for the Circular Economy <i>Henning Wilts, Oliver Lah, Laura Galinski</i> | 106 |

PART II Finding Economic Values and Capturing Firm Competitiveness

| | | |
|-----------|---|-----|
| Chapter 5 | Maximising Economic Benefits and Firm Competitiveness <i>Erskin Blunck, Hedwig Werthmann, and Venkatachalam Anbumozhi</i> | 127 |
|-----------|---|-----|

| | | |
|-----------|--|-----|
| Chapter 6 | An Assessment of Vietnamese Firms’ Readiness to Adopt a Circular Economy <i>Thao Hoa Dinh and Hong Long Nguyen</i> | 161 |
|-----------|--|-----|

| | | |
|-----------|---|-----|
| Chapter 7 | Establishing Green Finance System to Support the Circular Economy <i>Huifang Tian</i> | 203 |
|-----------|---|-----|

PART III Understanding the Risks and Adverse Social Impacts

| | | |
|-----------|--|-----|
| Chapter 8 | Mitigating the Risks and Adverse Impacts of Implementing Services for the Internet of Things <i>Jootae Kim and Ahreum Hong</i> | 235 |
|-----------|--|-----|

| | | |
|-----------|--|-----|
| Chapter 9 | Mitigating the Adverse Impacts of the Circular Economy: Implementation and Role of Governments <i>Muhammad Cholifihani</i> | 261 |
|-----------|--|-----|

| | | |
|------------|--|-----|
| Chapter 10 | Innovation of Finance for Industry 4.0 in ASEAN <i>Takashi Hongo</i> | 284 |
|------------|--|-----|

PART IV The Financing Essentials of Integrated Strategies

| | | |
|------------|--|-----|
| Chapter 11 | Managing the Transition to Industry 4.0 through Multilevel Governance Systems <i>Olivier Lah</i> | 307 |
|------------|--|-----|

| | | |
|------------|--|-----|
| Chapter 12 | Managing the Transition through Multilevel Governance <i>Sweta Prabhakar</i> | 325 |
|------------|--|-----|

| | | |
|------------|--|-----|
| Chapter 13 | Enhancing Regional Architecture for Innovation to Promote the Transformation to Industry 4.0 <i>Krishnamurthy Ramanathan</i> | 361 |
|------------|--|-----|