

Table of Contents

Part 1: Introduction

Chapter 1: Introduction 3
Boriana Rukanova, Niels Bjørn-Andersen, Fred van Ipenburg, Stefan Klein, Godfried Smit, Yao-Hua Tan

Part 2: Living Labs

Chapter 2: Introduction to the Living Lab Approach 31
Allen Higgins, Stefan Klein

Chapter 3: Beer Living Lab – Intelligent Data Sharing 37
Boriana Rukanova, Ziv Baida, Jianwei Liu, Eveline van Stijn, Yao-Hua Tan, Wout Hofman, Rolf T. Wigand, Fred van Ipenburg

Chapter 4: Paper Living Lab – Integration of SMEs 55
Jussi Autere, Kari Korpela, Katrine Augustinussen

Chapter 5: Food Living Lab – Complexity of Export Trade 73
Stefan Henningsson, Niels Bjørn-Andersen, Alexander Schmidt, Barbara Flügge, Helle Zinner Henriksen

Chapter 6: Drug Living Lab – Cold Chain Monitoring 91
Allen Higgins

Chapter 7: Drug Living Lab – Supply Chain Security and Control 109
Stefan Klein, Allen Higgins, Alexander Kipp, Anita Mangan

Chapter 8: The Concept of Living Labs as Social Infrastructures for Innovation 123
Allen Higgins, Stefan Klein

Part 3: ITAIDE Information Infrastructure (I3) Framework

Chapter 9: ITAIDE Information Infrastructure (I3) Framework 137

Stefan Henningsson, Richard Budel, Uri Gal, Yao-Hua Tan

Chapter 10: Information Technology (IT) 157

Ziv Baida, Frank Koldijk, Yao-Hua Tan, Allen Higgins

Chapter 11: Standardised Data Models 175

Barbara Flügge, Alexander Schmidt, Marta Raus, Tobias Vogel

Chapter 12: Interoperability Tools 201

*Slawomir Ulankiewicz, Stefan Henningsson, Niels Bjørn-Andersen,
Barbara Flügge*

Chapter 13: Procedure Redesign Methods 223

Jianwei Liu, Wout Hofman and Yao-Hua Tan

Chapter 14: Network Collaboration Models 255

Stefan Klein, Allen Higgins, Boriana Rukanova

Part 4: Lessons for Practice

Chapter 15: Value Assessment of Business-to-Government

IT Innovations: The Case of e-Customs 273

Alexander Kipp, Marta Raus, Janwei Liu, Stefan Klein

Chapter 16: Implementation Framework for e-Solutions

for Trade Facilitation 285

*Eveline van Stijn, Thayanan Phuaphanthong, Somnuk Keretho,
Markus Pikart, Wout Hofman, Yao-Hua Tan*

Part 5: Conclusions

Chapter 17: Conclusions 321

*Yao-Hua Tan, Niels Bjorn-Andersen, Stefan Klein, Boriana Rukanova,
Fred van Ipenburg, Godfried Smit*

Glossary 333

Annex 1: Overview of Systems Envisaged in the MASP 343

Annex 2: AS-IS Process Model for Beer Export to the US 351

Annex 3: The Legal Environment of the MASP 352

Annex 4: Stepwise Approach to Derive Deployable Artifacts 353

**Annex 5: Simplified Interaction Model for the Export
of Dairy Products from Denmark to Russia 354**

**Annex 6: Excerpt of an XML Schema for Goods Items that are Applied
in Transit Declarations 355**

List of Abbreviations 357

List of References 363