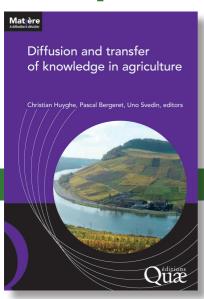
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# Diffusion and transfer of knowledge in agriculture

Christian Huyghe, Pascal Bergeret, Uno Svedin, editors

2016, Éditions Quæ Matière à débattre et décider series ISBN 978-2-7592-2595-8, reference 02571EPB

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This book focuses on innovation in the agri-food system and the new paradigm drawn by bioeconomic approaches and principles. It draws on contributions presented during the 29th EURAGRI annual conference held in Luxemburg (September 2015) as well as on other workshops organised as part of EURAGRI.

EURAGRI is an informal gathering of EU research and higher education organisations and ministries interested in agri-food research. It works as a platform of exchange and discussion on topics of common interest pertaining to the organisation, orientation and outlook of agri-food research in Europe in connection with global changes.

Christian Huyghe is a plant geneticist and has been researcher at INRA in the Plant Genetics Division on grain legume and on forage legumes and grasses. He coordinated several European projects or work packages of projects. He implemented the Carrefour de l'Innovation Agronomic, dedicated to the dissemination of research results and innovations towards farmers, advisory services, agri-food companies. He is presently Scientific Director of Agriculture at INRA. He is involved in regulatory domains as in the French Committee for Variety Registration and the French pesticide regulation named. He chairs the Scientific Committee of Acta, coordinating the various French agricultural technical institutes.

Pascal Bergeret is Doctor in agricultural economics, Montpellier University (1986). He worked in agricultural research and development programmes in Nepal, Cameroon, and Vietnam. He was Head, environment and sustainable development, for GRET, a French NGO involved in international development work, and was later appointed as Director, Innovation Department, in the French Ministry of Agriculture, Food and Forest. During that period he was mandated as French representative in SCAR. He is presently Director of the Mediterranean Agronomic Institute, Montpellier, one of the four institutes of the International Centre for Higher Agronomic Studies (CIHEAM).

**Uno Svedin**, born 1943, PhD, is Senior Researcher at the Stockholm Resilience Center (SRC) at Stockholm University and former Professor at the same University. He is Doctor *honoris causa* at the Linköping University were he was adjunct Professor 1994-2004. He has been Director of Research at the Swedish Council for Planning and Coordination of Research (FRN) until 2000 and after that Director of International Affairs at the Swedish Research Council Formas until retirement 2010. He is member of the EURAGRI Board and was member of the initiating PREFARN Group in the EU preparing for the re-establishment of the EU-SCAR and member and later chair of its coordinating Working Group. He has been the chair of the EU Consultative Forum for Sustainability and the Environment.



#### Summary

Introduction, Innovation in the agri-food system and the bioeconomy

Pascal Bergeret, Christian Huyghe, Uno Svedin

#### I. Sustainable Agriculture, Forestry and Fisheries. A challenge for Europe

Erik Mathijs, Gianluca Brunori, Michael Carus, Michel Griffon, Luisa Last

Introduction • The transition to a sustainable European bioeconomy: premises and conditions

- State of play in the bioeconomy
  Scenarios
- Recommendations

#### II. Sustainability as innovation: challenges and perspectives in measurement and implementation

Vera Bitsch

Introduction • Innovation: definition and framework

• Defining sustainability • Challenges in developing a measurement system • Examples of measurement of sustainability in agricultural value chains • Critical issues in the development of measurement systems and conclusions • References

#### III. The contributions of the social sciences and humanities to the bioeconomy: implications for agriculture and food

Uno Svedin

Introduction • Framing the issues • The agri-food bioeconomy • Conclusion • References

#### IV. Food value chains: a challenge for innovation

Wolfgang Bokelmann

Introduction • Means of coordination: the governance perspective • Future challenges • References

#### V. Obstacles to the diffusion of innovation in the agricultural sector

Wolfgang Bokelmann, Bettina König

Innovation: the key to meeting future challenges

- Driving forces of innovation
  Delving into the concept of innovation • Practical experience
- Taking a systemic view Uncertainty in the innovation process • Incentives in the innovation process • Considering the entire process
- References

#### VI. Confrontation of knowledge transfer models between advanced innovation systems and post-socialist regions in Central Europe

Niclas Rüffer

Introduction • Research design and methodology

- Effective knowledge and technology transfer highperforming regional systems vs. the Opole Voivodship
- Conclusion Acknowledgements Bibliography

#### VII. Agricultural knowledge chain - Examples from SLU, Alnarp, Sweden

Lena Ekelund

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• Other forms of collaboration • References

#### VIII. New strategic approaches for promoting the diffusion of innovations within the horticultural sector

Myriam Stenger, Marianne Altmann, Monika Schreiner Introduction • Forming the future in German horticulture - the mandate • Mode of diffusion structured and participative • Achieving successful innovation diffusion • Well-equipped for the future – strategic guidelines • References

Final conclusion Carole Crumley, Bettina Heimann

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