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Dr. Roland Kupers

Personal data

Born Nov. 26 1959 in The Hague, Netherlands

Work experience

2010 - INDEPENDENT ADVISOR - COMPLEXITY, RESILIENCE, ENERGY TRANSITION

Global Advisor – International Methane Emissions Observatory UNEP – 2021- initiated and designed a new €100mln climate institution hosted at UNEPwith support from the European Commission, and the US government.

Visiting Researcher - Institute for Advanced Studies University of Amsterdam 2018 –

Professor of Practice Thunderbird School of Global Management Arizona State University- Executive Master of Arts in Global Affairs & Management- 2020-

Visiting Professor Singapore Management University – Master of Tri-sector collaboration 2013 - 2018

Global Methane Policy Advisor – Environmental Defense Fund – 2013 - 2020

Senior lecturer Strategy at Nijenrode University – Complexity, Strategy and Sustainability for MBA and New Board programmes – 2003 – 2019

Associate Fellow Oxford University Smith School of Enterprise and the Environment 2010 – 2017

Guest Researcher at the Potsdam Institute for Climate Impact Research – Economic policy for climate impact mitigation for EU27 - 2010-2012

Associate Professor, Master of Public Affairs, Sciences Po, Paris, France – Complexity and Public Policy 2010-2012

Research Director THNK – The Amsterdam School for Creative Leadership 2012-2013

1999 - 2009 ROYAL DUTCH SHELL

Various positions at Shell, including:

Vice President Global LNG

- Head of LNG Business Unit. With 14% annual growth, no.1 market share and over \$2 bln profit, it was one of RDS' key business units.
- As the LNG business is fundamentally a rare "network" business, where the elements are critically interdependent, the central function adds unique value and perspective.

Vice President Sustainable Development

- Group responsibility for the implementation, learning and communication of Shell's commitment to contribute to sustainable development. Budget € 50m.
- Publication of the annual sustainability report and management of the Group's Corporate Identity Programme. Relationship management with key external stakeholders, internal change management programs, new social performance discipline.
- Operationalising of \$250 mln Shell Foundation, a new registered charity in 2001.

1998 SABBATICAL YEAR

- Capita Selecta in Complexity and management (ref. Santa Fe Institute)
- Organizational Learning and Transformation Management
- Lectured at Nijenrode business school, McKinsey, Monitor, KPMG etc..

1986 - 1997 AT&T

Various positions in research and management, with as final position:

Regional Managing Director Northern Europe

- As MD for AT&T Communications Services Nederland, responsibility for 80 AT&T staff and activities in the Netherlands, from six different divisions.
- Responsible for the AT&T business in the Benelux, Switzerland, Austria, Nordics and Baltic's. Shared revenue responsibility \$300 million.

Degrees

PHD THESIS -The complexity frame for public policy and management - Nyenrode Business University - 2014

MASTERS DEGREE in Theoretical Physics and Computer Science - State University Groningen 1988

BACHELORS DEGREE – Physics and Philosophy - State Univ. Groningen 1982 LIBERAL ARTS - Vrije Hoge School –1978

BACCALAUREAT C - Lycée Français in Wash. DC, Bonn, The Hague - 1977

Languages

Fluent in English, French, German, Italian and Dutch

Books

A CLIMATE POLICY REVOLUTION — WHAT THE SCIENCE OF COMPLEXITY REVEALS ABOUT SAVING THE PLANET, Roland Kupers, Harvard University Press 2020

COMPLEXITY AND THE ART OF PUBLIC POLICY: SOLVING SOCIETY'S PROBLEMS FROM THE BOTTOM-UP, with David Colander, PRINCETON UNIVERSITY PRESS 2014

THE ESSENCE OF SCENARIOS: LEARNING FROM THE SHELL EXPERIENCE, with Angela Wilkinson, Amsterdam University Press 2014

TURBULENCE – A CORPORATE PERSPECTIVE ON COLLABORATING FOR RESILIENCE, Roland Kupers (Ed.), AMSTERDAM UNIVERSITY PRESS 2014

Book chapters

COMPLEXITY, CULTURE AND BANK PRIVITISATIONS - IN FINANCE AND THE COMMON GOOD

Roland Kupers

Amsterdam University Press (2019)

A RESILIENCE FRAME FOR SMART CITIES – IN 'CREATING, ANALYSING AND SUSTAINING SMARTER CITIES: A SYSTEMS PERSPECTIVE (EDITORS: IAN ABBOTT-DONNELLY AND HAROLD 'BUD' LAWSON Roland Kupers and Hsi Ching Song College Publications (2017)

A COMPLEXITY LENS ON THE DUTCH ENERGY TRANSITION - IN 'GOVERNING IN AN INTERCONNECTED DYNAMIC' (IN DUTCH)

Roland Kupers

Netherlands Ministry of Economic Affairs (2017)

Is the Circle really Round? - Chapter 11 in Reflections on the Transition to a Circular Economy (in dutch)

Roland Kupers

Netherlands School for Public Policy (NSOB) (2015)

WHEN FUTURES LOCK-IN THE PRESENT: TOWARDS A NEW GENERATION OF CLIMATE SCENARIOS

D. Mangalagiu, A. Wilkinson and R. Kupers

Reframing the Problem of Climate Change - From Zero Sum Game to Win-Win Solutions Chapter 8 - Routledge 2011

ASSESSING GREEN GROWTH: THE CASE OF EUROPE

C. Jaeger, L. Paroussos, D. Mangalagiu, R. Kupers, A. Mandel, J. Tàbara.

Reframing the Problem of Climate Change –From Zero Sum Game to Win-Win Solutions Chapter 5- Routledge 2011

Selected Papers

GREENING SCHOOLYARDS - AN URBAN RESILIENCE PERSPECTIVE

Leah Flax, Renet Korthals Altes, Roland Kupers and Brett Mons Cities 106 (2020) 102890

THE ENERGY TRANSITION THROUGH A COMPLEXITY LENS

Peter Sloot, Roland Kupers en Bob van der Zwaan, Rijksoverheid.nl (2019)

COMPLEXITY - A BIG IDEA FOR EDUCATION?

Jane Drake, Roland Kupers and Rose Hipkins International Schools Magazine, Spring 2017

A RESILIENCE FRAMEWORK FOR SMART CITIES

Roland Kupers, Song Hsi Ching Civil Service College Singapore, Nov. 2016

A CASE STUDY FOR A NEW METRICS FOR ECONOMIC COMPLEXITY: THE NETHERLANDS

A. Zaccaria, M. Cristelli, R. Kupers, A. Tacchella and L. Pietronero Journal of Economic Interaction and Coordination (2015)

THRESHOLD MODELS OF TECHNOLOGICAL TRANSITIONS

P. Zeppini, K. Frenken, R. Kupers

Environmental Innovation and Societal Transitions (Accepted – October 2013)

LIVING IN THE FUTURES: HOW SHELL'S SCENARIO PLANNING APPROACH DELIVERS BETTER LEADERSHIP

A. Wilkinson and R. Kupers

Harvard Business Review (May 2013)

HOW PLAUSIBILITY-BASED SCENARIO PRACTICES ARE GRAPPLING WITH COMPLEXITY TO APPRECIATE AND ADDRESS 21ST CENTURY CHALLENGES

Wilkinson, R. Kupers, D. Mangalagiu

Forecasting & Social Change 80 (2013) 699-710

Transformative targets in sustainability policy-making: The case of the 30 percent EU mitigation goal

J. D. Tabara, D. Mangalagiu, R. Kupers, C. Jaeger, A. Mandel, L. Paroussos Journal of Environmental Planning and Management 2012, 1–12

REINTEGRATING THE SOCIAL SCIENCES

The Dahlem Group, David Colander & Roland Kupers & Thomas Lux & Casey Rothschild, 2010. Middlebury College Working Paper Series 1033, Middlebury College

CLIMATE CHANGE POLICY. POSITIVE OR NEGATIVE ECONOMIC IMPACT?

Roland Kupers, Diana Mangalagiu

European Climate Forum Working Paper, (1/2010)

WHAT ORGANISATIONAL LEADERS SHOULD KNOW ABOUT THE NEW SCIENCE OF COMPLEXITY

R. Kupers

Complexity, Wiley (2001)

A STOCHASTIC APPROACH TO LARGE SCALE CLUSTERING OF MATTER IN THE UNIVERSE

L. Pietronero, R.Kupers

Fractals in Physics, North Holland Publishing, (1986) p.319

Selected Reports

RESILIENCE IN COMPLEX ORGANISATIONS

Roland Kupers

World Economic Forum – Global Risk Report (2018)

LEARNING FOR RESILIENCE AND COMPLEX SYSTEMS THINKING

Roland Kupers and Mark Foden The Resilience Shift (2017)

ECONOMIC COMPLEXITY

Luciano Pietronero, Masud Cader, Andrea Gabrielli, Matthieu Cristelli, Roland Kupers, Emanuele Pugliese, Andrea Tacchella, Andrea Zaccaria, Università La Sapienza – World Bank Group (June 2017)

THE OTHER KNOB: TACKLING METHANE EMISSIONS

Roland Kupers

Veolia Institute contribution to COP21 (2015)

ENABLING BUSINESS DECISIONS THAT INTEGRATE NATURAL CAPITAL – LEARNING FROM A COMPLEX SYSTEMS PERSPECTIVE

Roland Kupers, Mark Gough, Martin Lok, Filipa Saldanha, Richard Spencer Institute of Chartered Accountants of England and Wales (2015)

A New Growth Path for Europe

C. Jaeger, L. Paroussos, D. Mangalagiu, R. Kupers, D. Tàbara and A. Mandel

German Federal Ministry for Environment, Nature Conservation and Nuclear Safety, European Climate Forum (2011)

THE OXFORD SCENARIOS: BEYOND THE FINANCIAL CRISIS

B.S. Flowers, R. Kupers, R., D. Mangalagiu, R. Ramirez, J. Ravetz, J., J. Selsky, C. Wasden, A. Wilkinson Institute for Science, Innovation and Society – University of Oxford (2010)

Re|Source 2050 Flourishing from Prosperity: Faster and Further

Wilkinson, B.S. Flowers (editor), W. Thomas, N. Davis, A. Litovsky, R. Kupers, J. Hudson, and F . Thompson.

Smith School of Enterprise and the Environment, University of Oxford (2012)

Videos

RESILIENCE ENGINEERING EDUCATION

Roland Kupers, Mark Foden The Resilience Shift, 2017

RESILIENCE AND COMPLEXITY ARE CONNECTED - AN INTRODUCTION TO RESILIENCE

Roland Kupers, Mark Foden and Mark Hainge Rockefeller Foundation 100 Resilient Cities, 2017

Selected speeches

COMPLEXITY IN PRACTICE: FIVE POLICY EXAMPLES

Netherland America Foundation New York City, November 15th, 2017

COMPLEXITY AND RESILIENCE IN CITIES

Future Resilient Systems programme - Singapore-ETH Centre, Singapore, October 13th, 2017

APPRENDRE LA RESILIENCE AVEC LE JEU NEXUS

Villes et territoires résilient - Les colloques de Cerisy Cerisy la Salle, July 26th, 2017

RESILIENCE GARAGE - FOUR TASTER SESSIONS WITH SEOUL, GLASGOW, PANAMA CITY AND DALLAS

100RC Global Resilience Summit New York City, July 26th, 2017

A RESILIENT APPROACH TO INNOVATION

COTEC annual meeting Porto, May 15th, 2017

RESILIENCE AND RISK MANAGEMENT - A PRACTICAL TOOL

International Risk Governance Council IASS Potsdam, March 16th, 2017

REDUCING METHANE EMISSIONS FROM THE OIL AND GAS INDUSTRY

COP22 and the Climate and Clear Air Coalition Marrakech, November 16th, 2016

MEXICO CITY RESILIENCE GARAGE

Rockefeller Foundation 100 Resilient Cities Laboratorio para la ciudad, Mexico City, April 19-22, 2016

MITIGATING METHANE EMISSIONS

COP21 and the Veolia Institute Le Bourget Paris, December 8th, 2015

NATURE AND THE ART OF POLICY MAKING

World Forum on Natural Capital Edinburgh, November 23rd, 2015

SUSTAINABILITY - NARRATIVES AND POLICY

OECD - Complexity of the Economy: Research and Policy Implications Paris, October 26th, 2015

TOWARDS AN ADAPTIVE GOVERNMENT

Ministry of Internal Affairs and Kingdom Relations Amersfoort, August 31st, 2015

COMPLEXITY, ETHICS AND ABNAMRO

The Hague Symposium on Ethics & Finance Senate Chamber - The Hague, April 15th, 2015

ENERGIEWENDE: INCREMENTAL CHANGE OR SYSTEM TRANSITION?
A joint event of the Hertie School of Governance and TU-Campus EUREF Berlin, November 14th, 2014

COMPLEXITY AND THE ART OF PUBLIC POLICY

Harvard Kennedy School Cambridge, MA, September 16th, 2014

COMPLEXITY AND THE ART OF PUBLIC POLICY - with Eric Beinhocker, INET Blavatnik School of Government and the Smith School of Enterprise and the Environment

Oxford, May 8th, 2014

A GREEN GROWTH PATH FOR EUROPE

7th European Conference on Sustainable Cities and Towns, April 2013 Vienna, January 2013

UNE NOUVELLE VOIE DE CROISSANCE POUR L'EUROPE

Comité Scientifique et Industriel dese TABLES RONDES DE L'ARBOIS, Aixen-Provence, April 2013

CROISSANCE VERTE: LES ALLEMANDS SAVENT-ILS QUELQUECHOSE QUE NOUS NE SAVONS PAS?

Office Cheroufiens des Phosphates Paris, December 2012

ECONOMIC MODELS AND GLOBAL CHALLENGES

BEPA, the Bureau of European Policy Advisors, European Commission, Brussels, October 2011

LEARNING WITH FUTURES (with Angela Wilkinson) WRR - Scientific Council for Government Policy

The Hague, June 2010

THE OXFORD SCENARIOS: BEYOND THE FINANCIAL CRISIS

Cambridge Sustainability Programme, Cambridge, May 2010

THE ENERGY AND ENVIRONMENT POLICY PROCESS

GSD BIG STEP conference Brussels, April 2010

HOW DO COMPANIES MAKE DECISIONS UNDER UNCERTAINTY

Certain or uncertain: an adventure around uncertainty and science - Netherlands Royal Academy of Science (KNAW) Amsterdam, April 2008

THE FUTURE OF ENERGY - SHELL SCENARIOS

Honours Class Erasmus University Economics Faculty Rotterdam, December 2006

THE CRITICAL ROLE OF GLOBAL CORPORATIONS — HOW DOES GLOBAL BUSINESS IMPACT SOCIETY? Dräger Foundation — VII Zavikon Conference, Dresden, Feb 2003

SCENARIOS FOR PROTECTED AREAS

International Union for the Conservation of Nature Gland – April 2003

"THE EARTH SUMMIT LISTENED TO THE VOICES OF BIG BUSINESS, NOT THE NEEDS OF THE PLANET"

Oxford Union Oxford, October 2002

A CORPORATE PERSPECTIVE ON SUSTAINABLE DEVELOPMENT

World Summit on Sustainable Development (WSSD)
Johannesburg, September 2002

CORPORATE SOCIAL RESPONSIBILITY

ACDE Christian Employers Buenos Aires, May 2002

Governance

- MIGRANT NATION global migration Board member 2020 -
- ENVIRONMENTAL DEFENSE FUND EUROPE Board member 2018 -
- DE GIDS Literary magazine Board member 2018 -
- TOMOKO MUKAIYAMA FOUNDATION Cultural foundation Board member 2017-
- New Economics Metrics fintech company Managing Director 2015.
- HESTER VAN EEGHEN BV (design company) Director 1988-
- NETHERLANDS ORGANISATION FOR SCIENTIFIC RESEARCH (NWO) Advisory Board Complexity – 2011-2018
- LEAD INTERNATIONAL Chairman of the board of Trustees 2010-2014
- GLOBAL SYSTEM DYNAMICS & POLICY Advisory Board 2010-2012
- SHELL GAS AND POWER INT'L BV Managing Director 2005-2010
- ERASMUS UNIVERSITY ROTTERDAM Member Business Advisory Council IBEB – 2005-2007
- STICHTING BEELDENDE KUNST (art foundation) -Board member -1998-2005
- ROYAL DUTCH/SHELL GROUP COMMITTEES Secretary of Sustainable Development, Brand and reputation, Social Investment 2001-2003
- Shell Service International Executive Committee -1999-2001
- AT&T COMMUNICATIONS SERVICES BV Managing Director-1995-1997

Other interests

 Carpentry, yoga, sculpture, literature, theater, ski-trekking, reading The Economist