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About the author

Oscar Kraan was born on the 9th of December 1985 in The Hague, The Netherlands. After graduating in 2004 from the Gymnasium Haganum in The Hague, he went to Leiden to study physics. During his studies in physics Oscar got interested in the energy transition and was invited for two honours programs related to the energy transition. In this period, he also served in various committees of his study, student and sport association. He finished his Bachelor's studies in 2012 with a bachelor thesis in which he compared the potential of wind and wave energy. He then continued his studies with an M.Sc. in Energy Science at Utrecht University which he obtained in 2013. He graduated with a combined internship and master thesis on agent-based modelling of space heating in the built environment, conducted at and in collaboration with Shell.

After graduating Oscar continued to work on the energy transition and started his PhD which was Shell sponsored and conducted in collaboration with Leiden University, Utrecht University and Delft University of Technology. In the last five years he conducted research on energy scenarios and the simulation of the evolution of energy system focusing on the dynamics between individual incentives and collective behaviour. This work has resulted in five scientific articles, several opinion articles in Dutch media and strategic insights for various stakeholders. In addition, Oscar supervised Master student thesis projects at various Universities in The Netherlands. Next to his scientific work Oscar collaborated with Shell's scenario team on the *Net Zero Emission outlook* as well as Shell latest scenario *Sky*. From November first 2018 Oscar will be working at Deloitte as Senior Strategy Consultant for energy related industries.

Publications

Scientific publications

Kraan, O., Kramer, G.J., Haigh, M, Laurens, C.. *The Energy Transition: A reliance on technology alone ultimately leads to a bet on Solar Fuels*, to be submitted.

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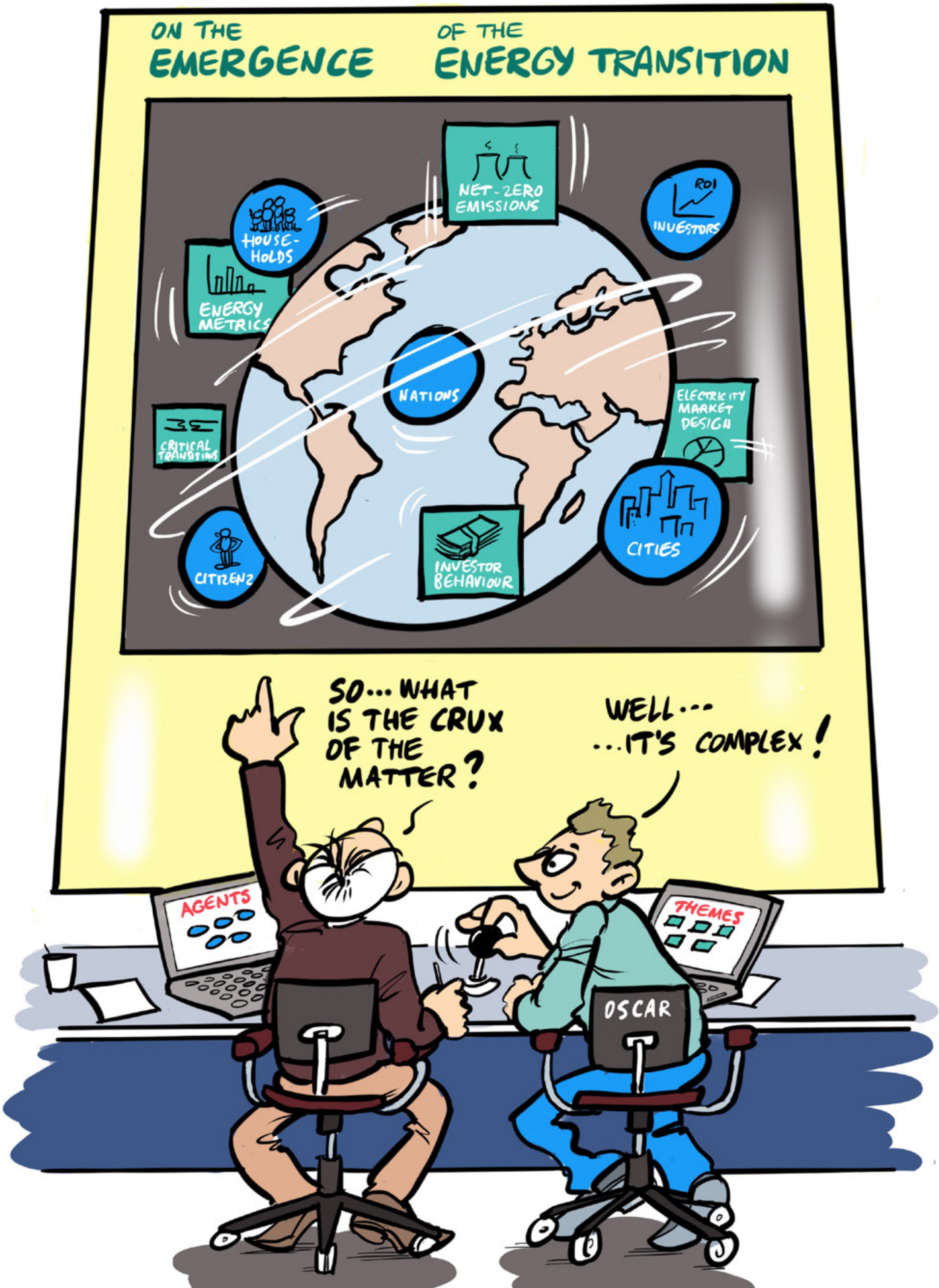
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