

Joe Ravetz is Co-Director of the Centre for Urban Resilience at the University of Manchester. He works on sustainable cities and regions, and has developed the *Synergistics* method for mapping and designing the *collective urban intelligence*. His main publications include the 'City-Region 2020', 'Environment and City', and the forthcoming 'Deeper City: collective intelligence and the pathways from smart to wise' (Routledge). He produced "The future of the urban environment and ecosystem services in the UK" 2016 report for the Government Office of Science.