

Swarm Planning: The Development of a Planning Methodology to Deal with Climate Adaptation | Springer Science & Business Media, 2013 | Rob Roggema | 9789400771529 | 286 pages | 2013

The Development of a Planning Methodology to Deal with Climate Adaptation. Authors: Roggema, Rob. Free Preview. Opens a new, more flexible way of thinking about how to plan for and respond to climate adaptation, based on the behavior of swarms in nature. Emphasizes new approaches to spatial design and planning which anticipate future uncertainty. Offers many examples using the Swarm Planning Framework to design landscapes. Richly illustrated with color maps and images. see more benefits. Buy this book. Climate change adaptation is the process of adjusting to current or expected climate change and its effects. It is one of the ways to respond to climate change, along with climate change mitigation. For humans, this includes mitigating harm and exploiting opportunities; for natural systems, humans may intervene to help adjustment. Without mitigation, adaptation alone cannot avert the risk of "severe, widespread and irreversible" impacts. For instance, climate change may be too much for some natural The resulting Greenest City Plan, released in July, 2011, includes mitigation actions and an action directing development of an adaptation strategy under the Climate Leadership goal. The City of Vancouver's mitigation commitment is to reduce greenhouse gas emissions in the community by 33% below 2007 levels by 2020. They concluded that adaptation was a cost effective way of dealing with many climate change impacts.3 According to a recent University of Waterloo research project, climate change adaptation is "simply good and smart business for Canada". 4. 3 National Round Table on the Environment and the Economy. 2012. Paying the Price: The Economic Impacts of Climate Change for Canada. 4 See footnote 1. A Workbook for Developing Risk-Based Adaptation Plans. Cover photograph: Waquoit Bay National Estuarine Research Reserve. From: National Oceanic and Atmospheric Administration/Department of Commerce, photographer Rick Crawford. The Workbook presents a step-by-step application of a risk management methodology to climate change adaptation. By taking a risk-based approach to assessing vulnerability, users have a formal way to choose among adaptation actions. Selected actions are not simply beneficial, they rise to the top because they will be best for reducing risk. However, many development policies, plans and projects currently do not take climate change into account due to a lack of awareness and clarity on how to effectively develop and integrate adaptation options. Integrating adaptation into development cooperation provides an essential opportunity to make more climate-resilient development investments. - M 7 " Develop institutional capacity for adaptation: Identify institutional capacities needed to deal with adaptation as a continual change process. - M 8 " Local climate stresses, vulnerability, resilience: Identify local information on climate change vulnerability. Training Methodology The course is based on the Harvard Case Method,4 which conveys teaching messages mainly through interactive practical work by trainees.