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Swarm Planning: The Development of a Planning Methodology to Deal with Climate Adaptation

By Rob Roggema

Springer, Netherlands, 2016. Paperback. Book Condition: New. 235 x 155 mm. Language: English . Brand New Book ***** Print on Demand *****.This book shows that the problem of climate adaptation, which is described in social planning terms as wicked, is at odds with the contemporary practice of spatial planning. The author proposes a new adjusted framework which is more adaptable to unpredictable, wicked, dynamic and non-linear processes. The inspiration for this new method is the behaviour of swarms: bees, ants, birds and fish are capable of self-organization, which enables the system to become less vulnerable to sudden environmental changes. The framework proposed in Swarm Planning consists of these four elements: Two levels of complexity, the first being the whole system and the second its individual components. Each of these has different attributes for adapting to change. Five layers, consisting of networks, focal points, unplanned space, natural resources and emerging occupation patterns. Each layer has its own spatial dynamic, and each is connected to a spatial scale. Non-linear processes, which emerge in different parts of the framework and include emerging patterns, connectedness and tipping points among others. Two planning processes; the first, from small to large works upward from the slowest...



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