


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## Abstract

Under the general r  
demands of human  
Fundamental to cop  
approaches that po  
for clues to ways in which to meet the challenge, it would make sense to look to areas of human  
experience where change and the interaction of human and natural systems have been addressed  
before. We examine the intellectual areas of ecology and risk, and find that the attribute of resilience is  
a strong theme. A three-class typology of resilience (resistance to change; change at the margins;  
openness and adaptation), is developed to structure the discussion and clarify the issues. We argue  
that, whereas the nature of the problems facing humanity demands entertaining responses across this  
spectrum, current institutions and policy processes appear to be locked into "type 2"—change at the  
margins.



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