Integrating ecosystem services and resilience into sustainability



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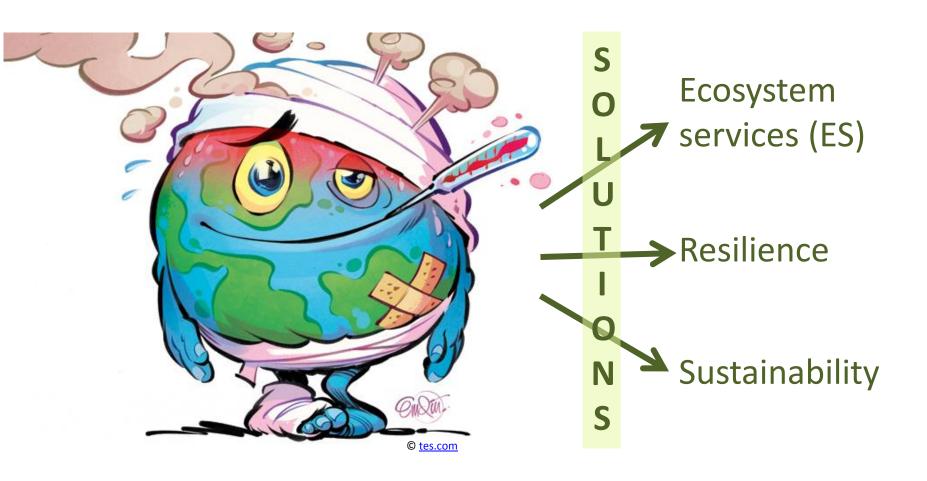
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Claessens Hugues, Dufrêne Marc, Maréchal Kevin & Messier Christian

What solutions to the environmental crisis?



What solutions to the environmental crisis?



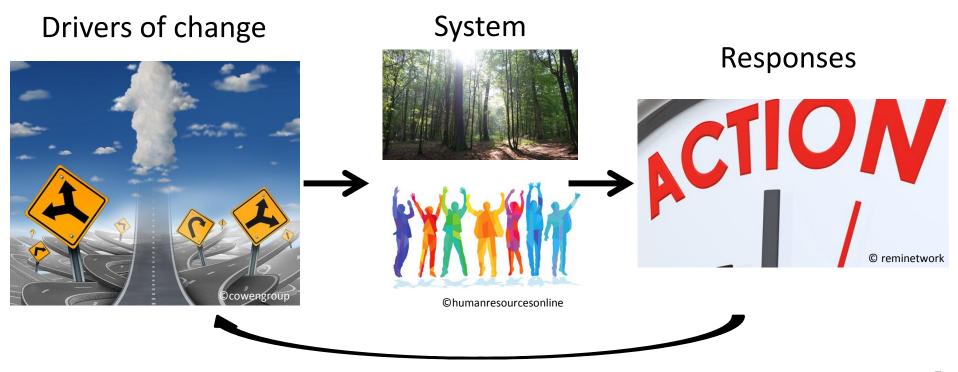
ES to highlight interrelationships between nature & society

ES = contributions of nature to human well-being

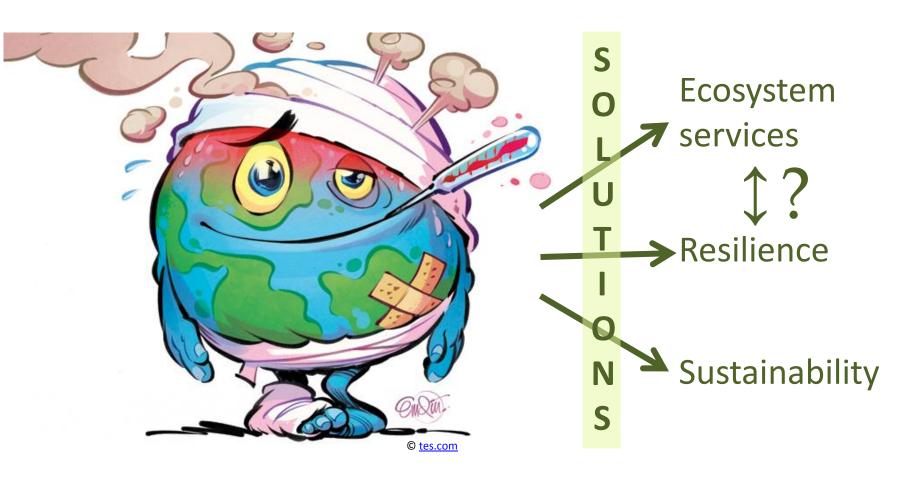


Resilience to cope with changes and uncertainty

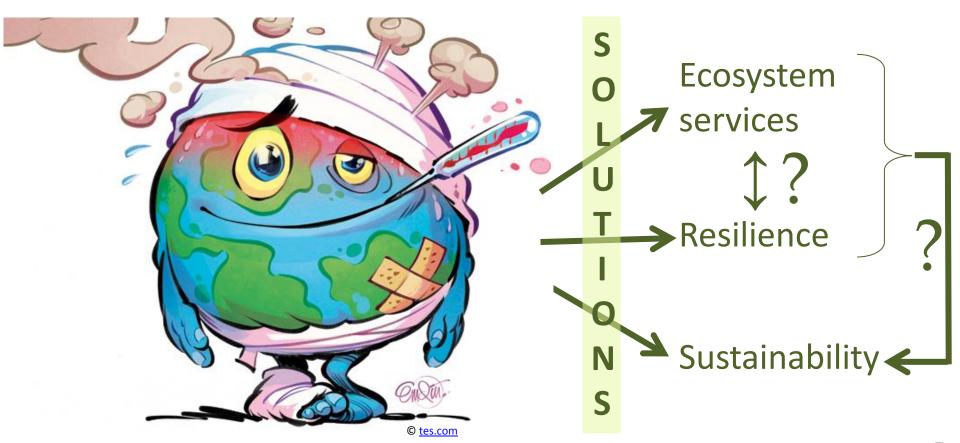
Resilience = capacity to face disturbances



Little is known about the pairing of ES & resilience



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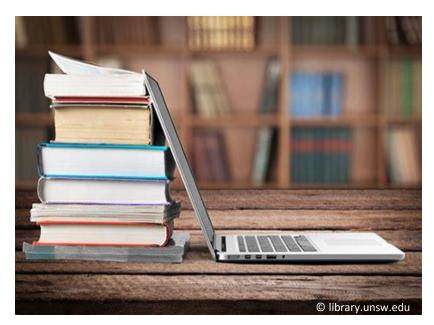
Literature review



Scopus: resilien*, adapt*, resistan*, ecosystem service and sustainab*

About 200 papers

Literature review



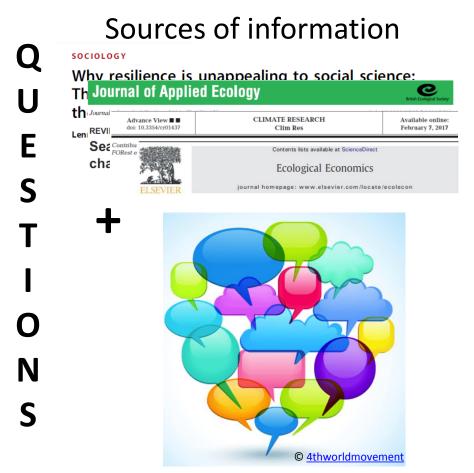
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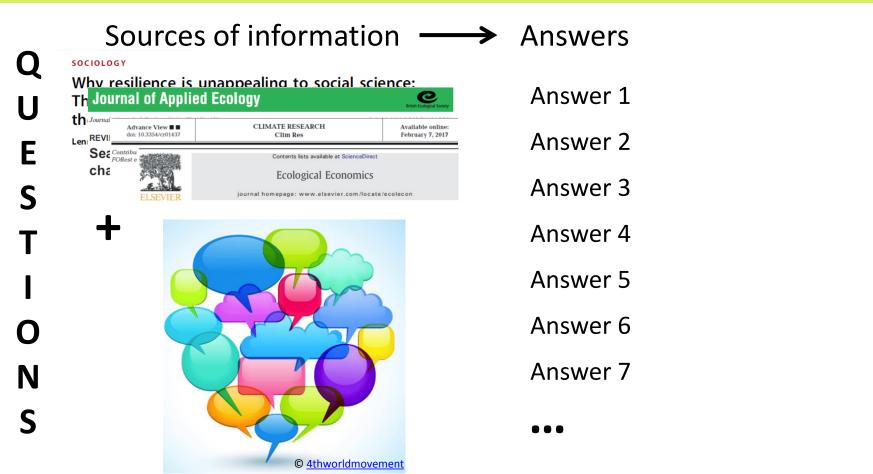
About 200 papers

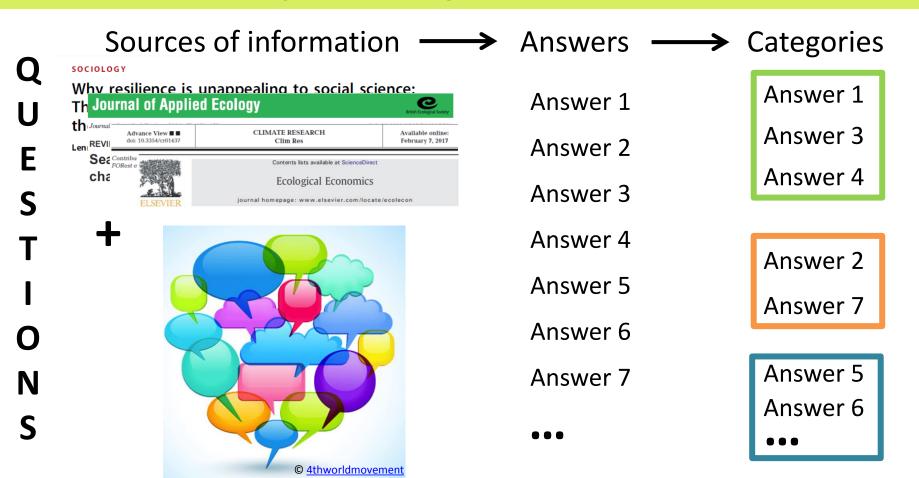
Interviews with experts



35 experts in 34 institutions of 15 countries around the world





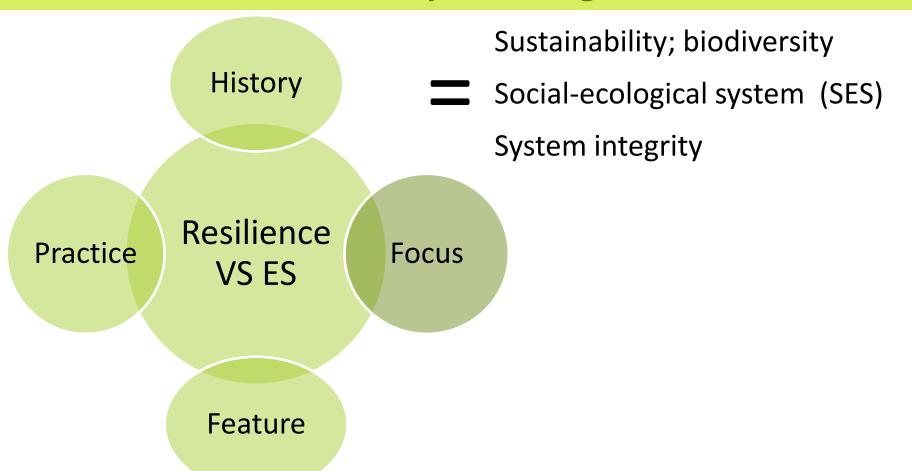


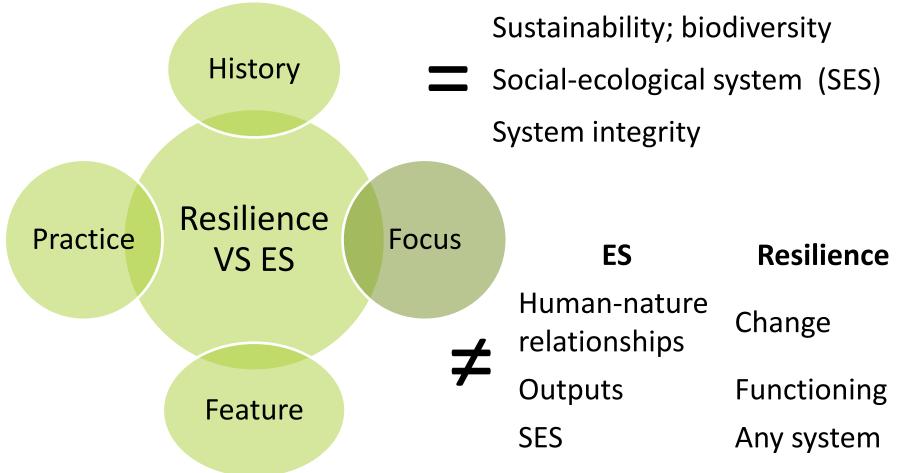
Comparing resilience & ES















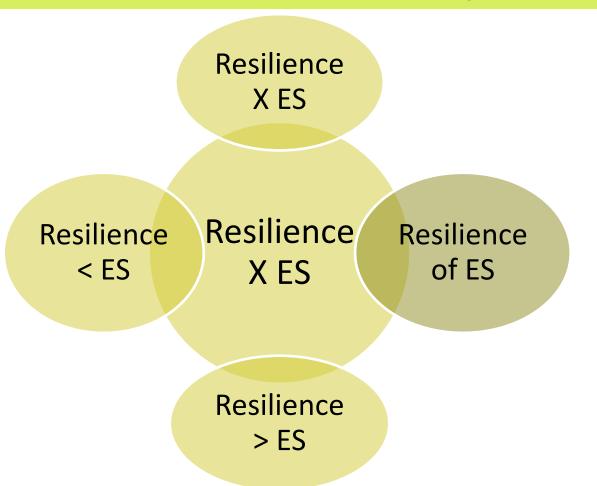
Pairing resilience & ES





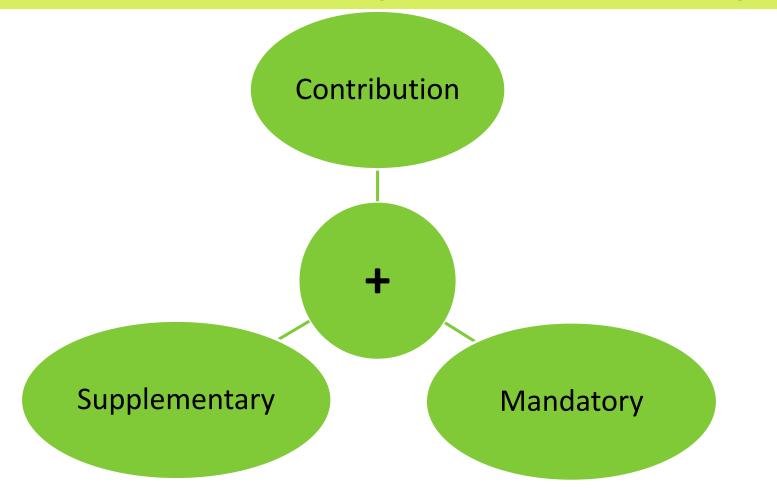


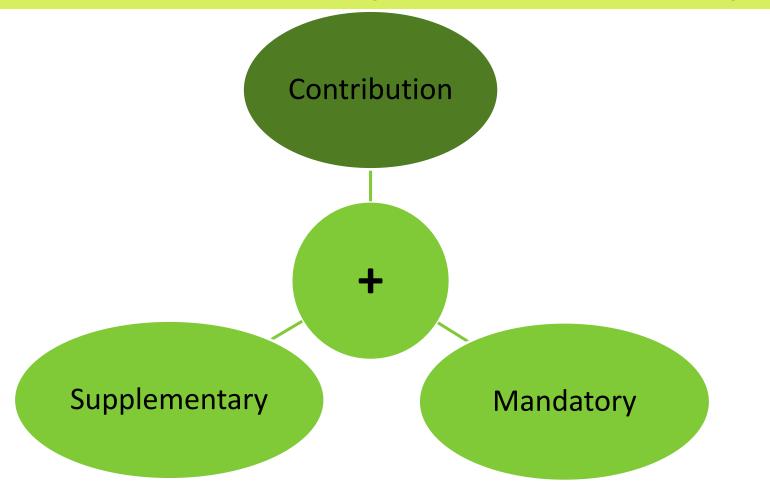
- Integrated conceptual framework
- Integrated assessment framework
- Management of resilience& ES
- Decision-making on ES & resilience

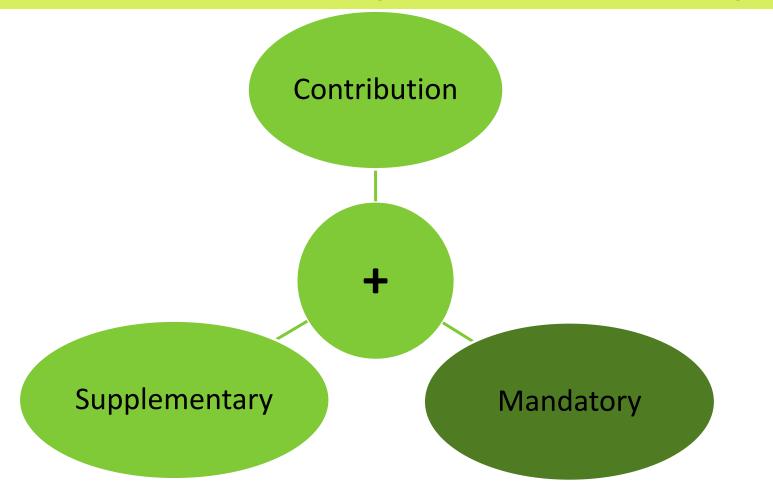


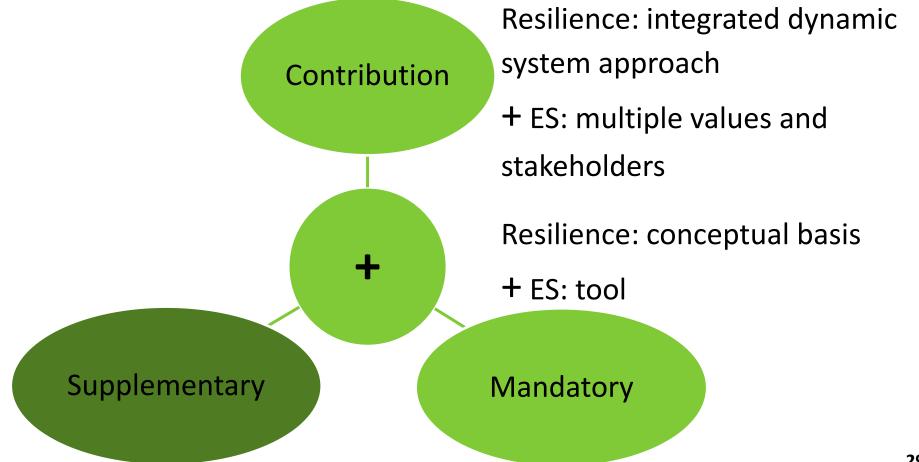


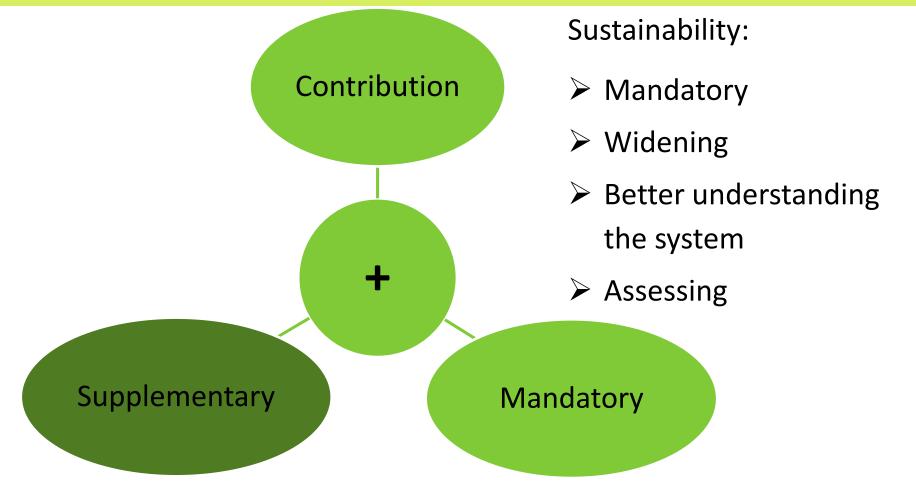


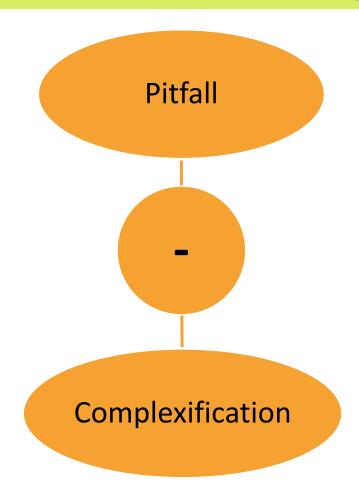


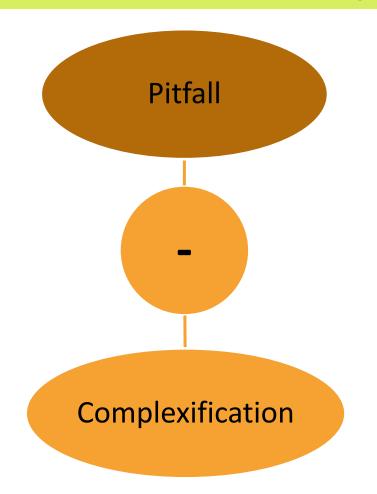




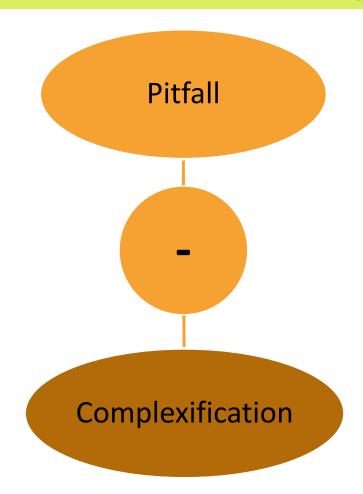








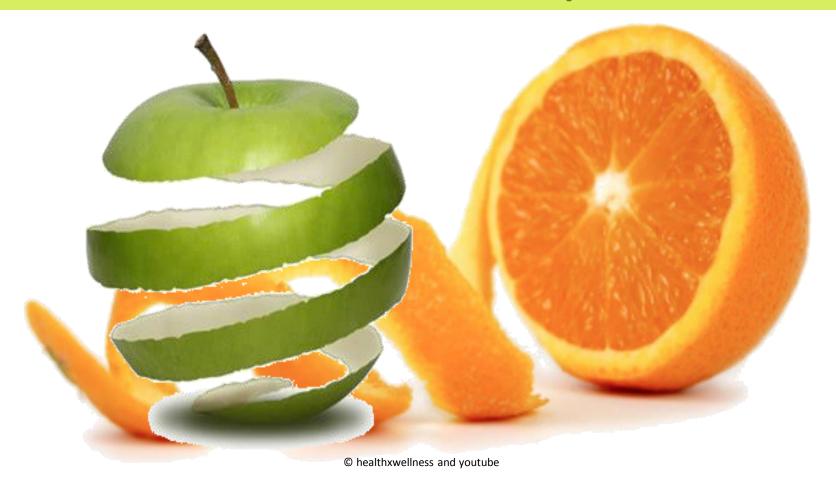
- Resilience of ES: only one of many forms of resilience
- Normativity of ES
- Over-interpretation of ES
- Resilient system not providing desired ES
- Overconfidence in resilience



ES & resilience two separate concepts with their own strengths and weaknesses



But ES & resilience are closely interlinked



Pairing ES & resilience is mainly beneficial



But pairing them is not always advisable



Pairing ES & resilience can promote sustainability



But their pairing should not overshadow other important aspects of sustainability







