



Lite till om
NYCKELKOMPETENSER

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Integrated Problem-Solving Competency



Values-thinking Competency



Map, specify, apply, reconcile and negotiate sustainability values

Intrapersonal Competency / Mindset



Futures-thinking Competency



Create future non-intervention scenarios

Craft future sustainability visions

Implementation Competency

Implementation Actions



Systems-thinking Competency



Analyze complex problem in current state and its history

Develop sustainability transition strategies

Strategic-thinking Competency



Iterative process

Collaborate in each step of the problem-solving process

Interpersonal Competency



(Brundiens et al 2021)

Sources: Wiek et al. 2011, Wiek et al. 2016

© Icons: Warren et al. 2014

KOMPETENSERNA ÄR NÖDVÄNDIGA MEN INTE TILLRÄCKLIGA



One expert stressed how values-thinking competency and sustainability values need to be the main reference point for the other competencies:

The competencies alone without being placed within a sustainability context can ... be utilized for distinctly unsustainable nefarious purposes ... and lead to very unsustainable outcomes.

REFERENSER

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- Wiek A, Lang DJ (2016) Transformational sustainability research methodology. In: Heinrichs H, Martens P, Michelsen G, Wiek A (eds) *Sustainability science: an Introduction*. Springer, Dordrecht.
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