Panarchy in the Anthropocene

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Anthropocene: man made era

Scientists say that a new geological epoch - characterized by mass extinctions and serious disruptions to natural systems - has been named Anthropocene, or human dominated...

Champ-i-o-nes! Champ-i-o-nes! Go humans! Go humans! Who da man? Who da man?

In your face, Holocene losers.

The trouble with you, Frank, is that you just can't bring yourself to celebrate achievement!

(With apologies to Bill Bailey)
“Nature’s creative power is far beyond man’s instinct of destruction”

Jules Verne
“Every act of creation is first an act of destruction”

Pablo Picasso
Backloop learning:
objective: understand and use potential

- Entrepreneurial and creativity oriented
- Bottom Up
- Problem reformulation
- Disruptive
- Tacit knowledge
- Effectuation (cf Sarasvathy)
- Communicative (understanding meaning, cf Habermas)
- inductive
Transformative learning objective: effecting change in a frame of reference (Mezirow)

Frame of reference:
- Transformation by critical reflection on assumptions
- Change Habits-of-mind
- Change Point-of-view

Three nested systems
“Design is invisible”
“Destroyed by care”
“The minimal intervention”
Lucius Burckhardt
Transformative learning

Art & Discours for changing perspectives

Lucius Burckhardt: Strollology (Science of Strolling)

Spaziergangwissenschaften
Radical and intensive method for changing perspective
Spaziergang wissenschaften

All about changing perspectives & critical reflection on beliefs
“True change takes place in the imagination”
Thomas Moore
Transformative learning

2 x 10 mio€ EU funded projects:
Autonomous robot harvesting
and many more examples
“Imagination is the beginning of creation. You imagine what you desire, you will what you imagine and at last, you create what you will”

George Bernhard Shaw
Transformative learning is powerful tool for creating change by being prepared to expect the unexpected
Panarchy is about how you can make a difference for the good or worse