"The Promise and Peril of Permaculture" Video Notes

- Permaculture = "nexus of nexi"
 - Beneficial design approach that encompasses agriculture, architecture, ecology, economics, land access, community issues- all connections between systems
 - Aim self-sufficiency in not only food but beyond livelihoods
- Permaculture Design Certificate (PDC)
- Peril of permaculture affects those interests (corporate agriculture, utility companies, pharmaceutical companies...) that suffer from the benefits people & communities could enjoy.
 These perils are typically financial but ultimately, without practicing permaculture, everyone suffers in the long run.
- "best business decision is the same as the best ecological decision" from INHABIT video

Reading Notes

Permaculture: A Designer's Manual

- Cooperation is required for common survival therefore the author argues authority should be rejected because personal responsibility is key
- Destructive systems (including consumerism & overconsumption) are "investments in our own annihilation" the opposite of permaculture is extinction
- Beneficial design aimed at self-reliance and energy consumption or energy generation
- Basic "law of return" cannot simply take from resources without putting something back = imbalance in a system
- Design Principle #2: The Problem is the Solution
 - These are perspectives- does the designer want to acknowledge the benefits and potentials? Or only perceive conditions as problems?

Notes from daily observations

- Personal responsibility over authority concept relates to regulation concept in <u>Cradle to Cradle</u> book
 - Regulation is another mechanism to allow pollution/ destruction at a controlled & monitored rate but does not necessarily solve ecological concerns
 - This is a concern I have long thought about as I work in an environmental regulatory agency
- A colleague of mine said "there are no weeds, only misplaced plants." This fits quite well when
 describing beneficial design in permaculture. Thinking back on McDonough & Braungart's Cradle
 to Cradle, design is the result of intention. Intentionally encouraging "weed" growth to advance
 self-sufficiency and energy consumption/ production might push us to transition away from the
 undesirable connotation of the word "weed."
- Related to Design Principle #2- I see this constantly with shoreline stabilization! Waterfront
 owners perceive vegetated riverbanks or shorelines as problems and wish to "protect" the
 uplands with rock or bulkheads after clearing the vegetation. There are so many benefits to
 vegetated shorelines, including stabilization, but people developing these sites (the designers)
 incorrectly perceive natural banks as problems.



LIVING SHORELINES SUPPORT RESILIENT COMMUNITIES

Living shorelines use plants or other natural elements—sometimes in combination with harder shoreline structures—to stabilize estuarine coasts, bays, and tributaries.



One square mile of salt marsh stores the carbon equivalent of 76,000 gal of gas annually.



Marshes trap tidal waters, grow in elevation as sea biodiversity, level rises.



Living shorelines sediments from improve water quality, provide allowing them to fisheries habitat, increase and promote recreation.



Marshes and oyster reefs act as natural barriers to waves. 15 ft of marsh can absorb 50% of incoming wave



Living shorelines are more resilient against storms than bulkheads.



shorelines in the U.S. will be hardened by 2100, decreasing fisheries habitat and biodiversity.



Hard shoreline structures like bulkheads prevent natural marsh migration and may create seaward erosion.

