1) Importance of shared understandings:

<u>WISDOM</u>: knowing what to overlook William James

KNOWLEDGE:the cognizance one existence takes of anotherGeorge Santayana

INFORMATION: Data ordered for a purpose

DATA: Perceptual stimuli

2) Openness to other's ways of thinking and working:

Small number systems: ex. billiard balls on a pool table, planets in the solar system; useful system characterizations and predictions can be made focusing on pair-wise interactions...example analytic approach: Newtonian celestial mechanics.

Medium number systems: ex. most social-ecological systems of interest, (e.g. landscapes, cities, neighborhoods); too many components to treat analytically as small number systems, too few to treat as large number systems – inherent system complexity, often structured hierarchically, leads to deep uncertainty regarding future system behavior and performance...example analytic approach: probabilistic simulation modeling.

Large number systems: ex. gas molecules in this room, population of the U.S.; useful system characterizations and predictions can be made focusing on central tendencies, averages...example analytic approach: statistical predictions of behavior of a gas under changing temperature or pressure.

3) Frameworks for synthesis: Trajectories of Change and Alternative Future Scenarios





4) A basis for resilient futures should:

- a) Speak to purposes, directly addressing fundamental processes the futures seek to sustain;
- b) Be clear enough for all sorts of people to understand;
- c) Honestly acknowledge the consequences of achieving desired future conditions, which requires evaluating landscape state and process together as they co-vary over a specified span of time and space;
- d) Be humble and pragmatic, helping steer choices when data, information and knowledge are incomplete.

With appreciation to: Lynch, K. . 1981. A Theory of Good City Form . MIT Press, ISBN: 9780262120852.