DONELLA MEADOWS - A Pecha Kucha
Walter C. Paine Science Education Award (1990)

MacArthur Fellowship (1994)

John H. Chafee Excellence in Environmental Affairs Award (2001, posthumous)
Dancing with Systems

1. Get the beat
3. Expose your mental models to the open air
8. Pay attention to what is important, not just what is quantifiable
10. Expand time horizons

We can’t control systems or figure them out. But we can dance with them!

Donella Meadows
Who lives in the Global Village?

If the world were a village of 1,000 people, it would include:

- 584 Asians
- 124 Africans
- 95 East and West Europeans
- 84 Latin Americans
- 55 Soviets
- 52 North Americans
- 6 Australians and New Zealanders

Of the total $3 million:

- $181,000 goes to weapons and warfare
- $159,000 for education
- $132,000 for health care
Places to Intervene
(12 Leverage Points)
12. Constants, parameters, numbers (such as subsidies, taxes, standards)
11. The size of buffers and other stabilizing stocks, relative to their flows
10. Structure of material stocks and flows (such as transport network, population age structures)
9. **Length of delays, relative to the rate of system changes**
8. Strength of negative feedback loops
7. Gain around driving positive feedback loops
6. Structure of information flow
5. Rules of the system (such as incentives, punishment, constraints)
4. Power to add, change, evolve, or self-organize system structure
3. Goal of the system
2. Mindset or paradigm that the system arises from
1. Power to transcend paradigms