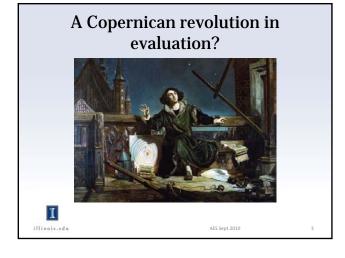


#### **Confucius:**

By three methods we may learn wisdom:
 First, by reflection which is noblest.
 Second, by imitation, which is easiest.
 Third, by experience which is the bitterest.

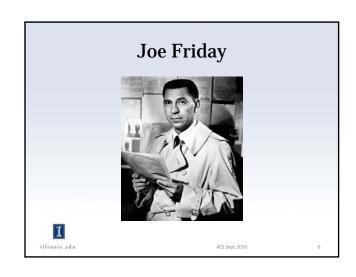


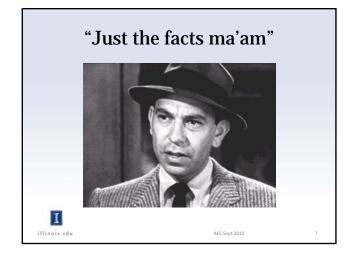
#### **Today's Topics**

- "Just the facts ma'am"—Its an evidencebased world
- Living in an age of numbers—Metric mania and the quantified self
- Longing to grasp complexity—well, sort of

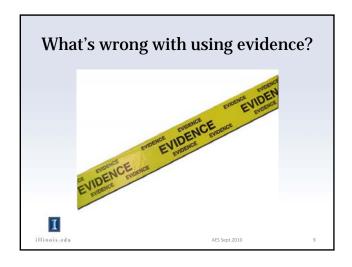


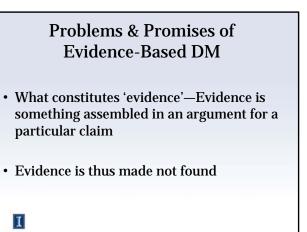
# Today's Topics Combating phronemophobia Thinking may not save us—but consider the alternative Exploring a new world of 'use'

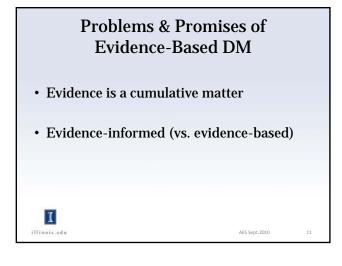


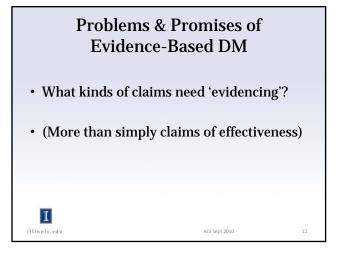


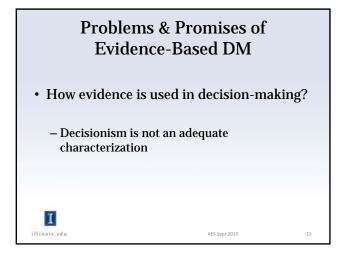


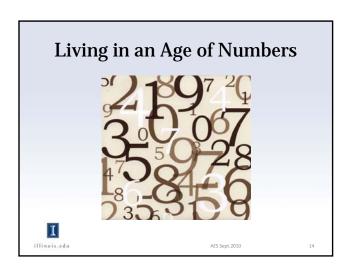












#### Living in an Age of Numbers

"Numbers make problems less resonant emotionally but more tractable intellectually"

--G. Wolf, "The Data-Driven Life," *New York Times*, April 26, 2010



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#### Living in an Age of Numbers

- 2009: \$2.4B USD spent on 13 OMB designated statistical agencies
- 2009: \$5.5B USD direct federal funding for all statistical activities of \$500K or more
- FY2011 US Department of Education budget request for R,D,&D = \$272M



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#### "Measuring Progress in Societies"

Is life getting better? Are our societies making progress? Indeed, what does "progress" mean to the world's citizens? There can be few questions of greater importance in today's rapidly changing world. And yet how many of us have the evidence to answer these questions?



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#### "Measuring Progress in Societies"

 The Global Project on "Measuring the Progress of Societies" seeks to become the world wide reference point for those who wish to measure, and assess the progress of their societies.



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### Happy Planet Index http://www.happyplanetindex.org/



Measure of social wellbeing that goes beyond GDP

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#### **Happy Planet Index**

"The social well-being indicator measures how people experience their connections with others and the strength of those relationships. It is comprised of two component indicators that measure supportive relationships and trust and belonging."

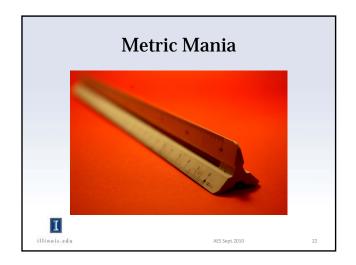


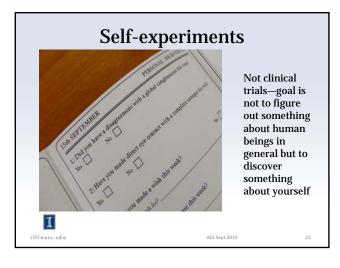
#### **Happy Planet Index**

"These can be thought of representing people's experiences of 'thick' and 'thin' relationships: 'thick' relationships are strong connections people experience with those who are close to them; 'thin' relationships are more numerous connections people establish with others encounter in broader social spheres"



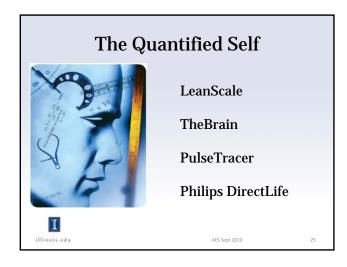
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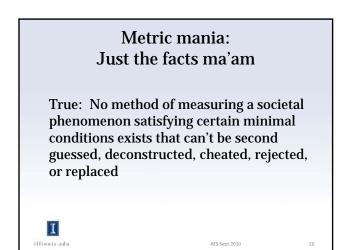




# Evaluation tools for Self-experiments • Trixie Telemetry (www.trixietracker.com) • Bedpost (http://bedposted.com) • Kibotzer (www.kibotzer.com)

1





#### Metric mania: Just the facts ma'am

False: Only the really easy to measure stuff is what is being counted and thereby skewing our sense of what it means to be effective, have impact, and so on.



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#### Metric mania: Just the facts ma'am

True: We may need metrics to fight

metrics

True: Evaluators need to help stakeholders and clients decide how metrics might inform our decisions without becoming them



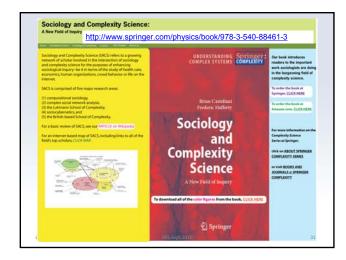
Are Metrics Blinding Our Perception?, New York Times Nov. 21, 2009

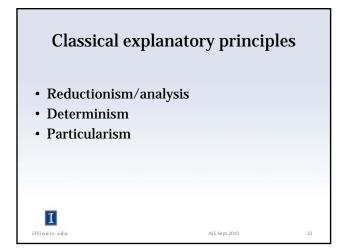
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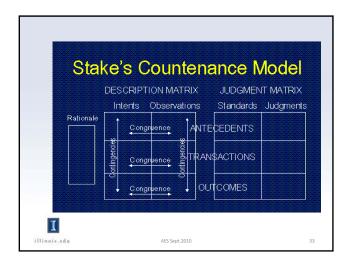
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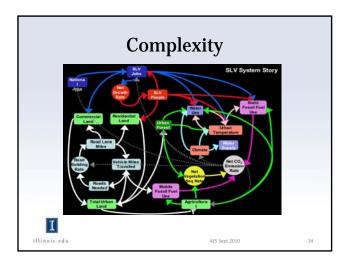












#### Complexity science principles

- Regards actors, social structures, and environmental circumstances as interactive, adaptive, and interdependent
- Holism; indeterminism, dissolution of strict observer—observed separation



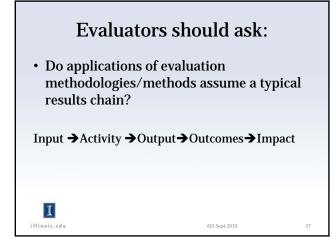
# "An evaluation program must match the dynamics of the system to which it is applied"

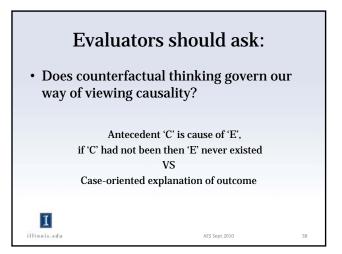
--G. Eoyang & T. Berkas, Evaluation in a Complex Adaptive System, 1998



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#### **Evaluators should ask:**

- What does the evaluation assume about the system/organization in which the intervention (evaluand) unfolds with respect to change, outcomes, management, etc.?
- How do we move from evidence-based practice to practice-based evidence?

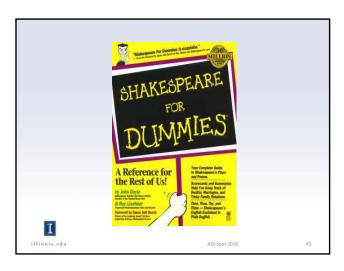


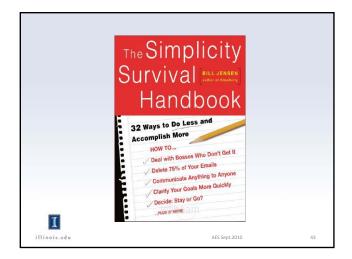
#### A Copernican Revolution?

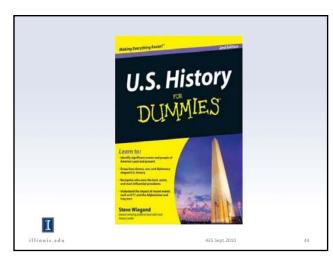
 A new paradigm for evaluation something like evaluation as social navigation: Organized action (based on evidence) focused on directing the course of social change toward a set of valued (but negotiable) goals

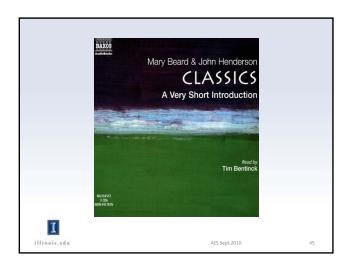






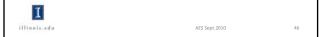


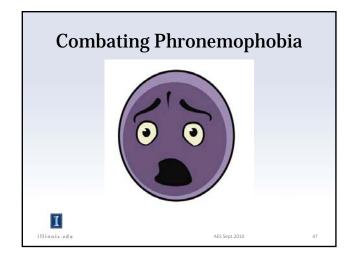


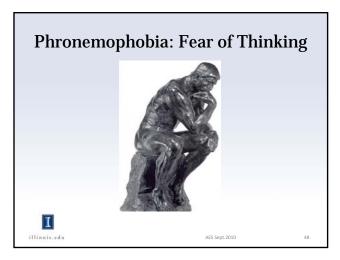


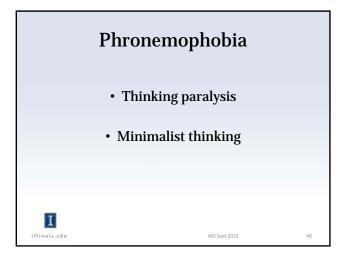
# Longing to grasp complexity—well, sort of...

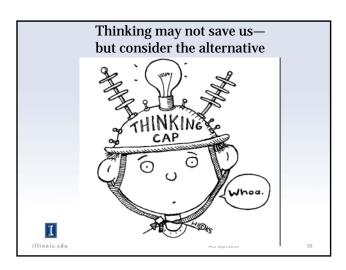
- We are uncomfortable with unpredictability, uncertainty & ambiguity
- 'Clear it up' by setting specific measurable goals
- · 'Sort it out' by doing a logic model
- 'Get it under control' through accountability

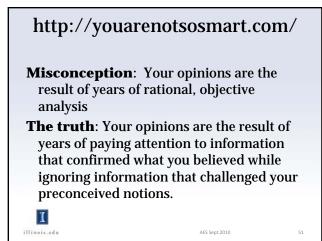


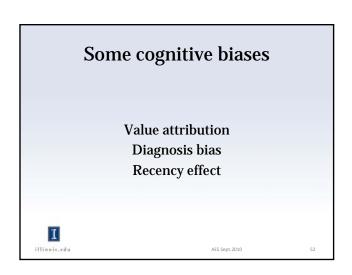


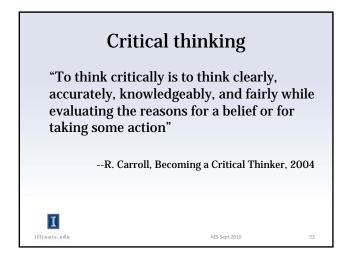


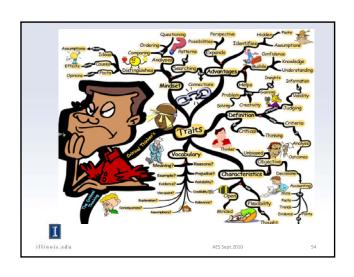
















# Developments affecting our understanding of 'use'

- Communicative/argumentative turn in policy & planning
- Studies of use of evidence in practitioner decision making
- The 'co-production' of science & society
- · Implications of the risk society



### Communicative/argumentative turn in policy & planning

 Judgment and decision is not the automatic application of rules or algorithms but a process of deliberation which weighs beliefs, principles, and actions under conditions of multiple frames for the interpretation and evaluation of the world.

--John Dryzek



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# Use of evidence in practitioner decision making

- · What information/data gets noticed
- Whether it is understood as evidence for some claim
- How it is used
   All depend on the situated cognitions and actual realities of work practices



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#### 'Co-production' of science & society

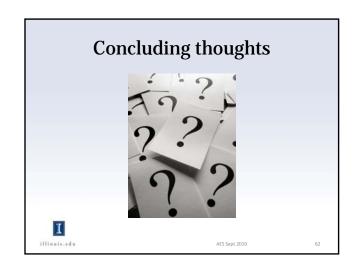
 The ways in which we know, interpret, evaluate, and represent the world are inseparable from the ways in which we choose to live in it



# The risk society

- · Managing risk not simply a matter of evaluation experts calculating impacts, costs and benefits
- "Using" social science and evaluation must entail examining aims of interventions





#### **Knowledge production/** Knowledge product framework

• Thinking about programs and policies (evaluands) and evaluation in terms of processes of knowledge production and consumption



#### Social monitoring & navigation framework

• Programs, policies, and evaluations ≠ products but are co-constructed, dynamic, evolving, learning, material & linguistic actor networks of continuous design and redesign, implementation, and individualand system-level adaptive change



