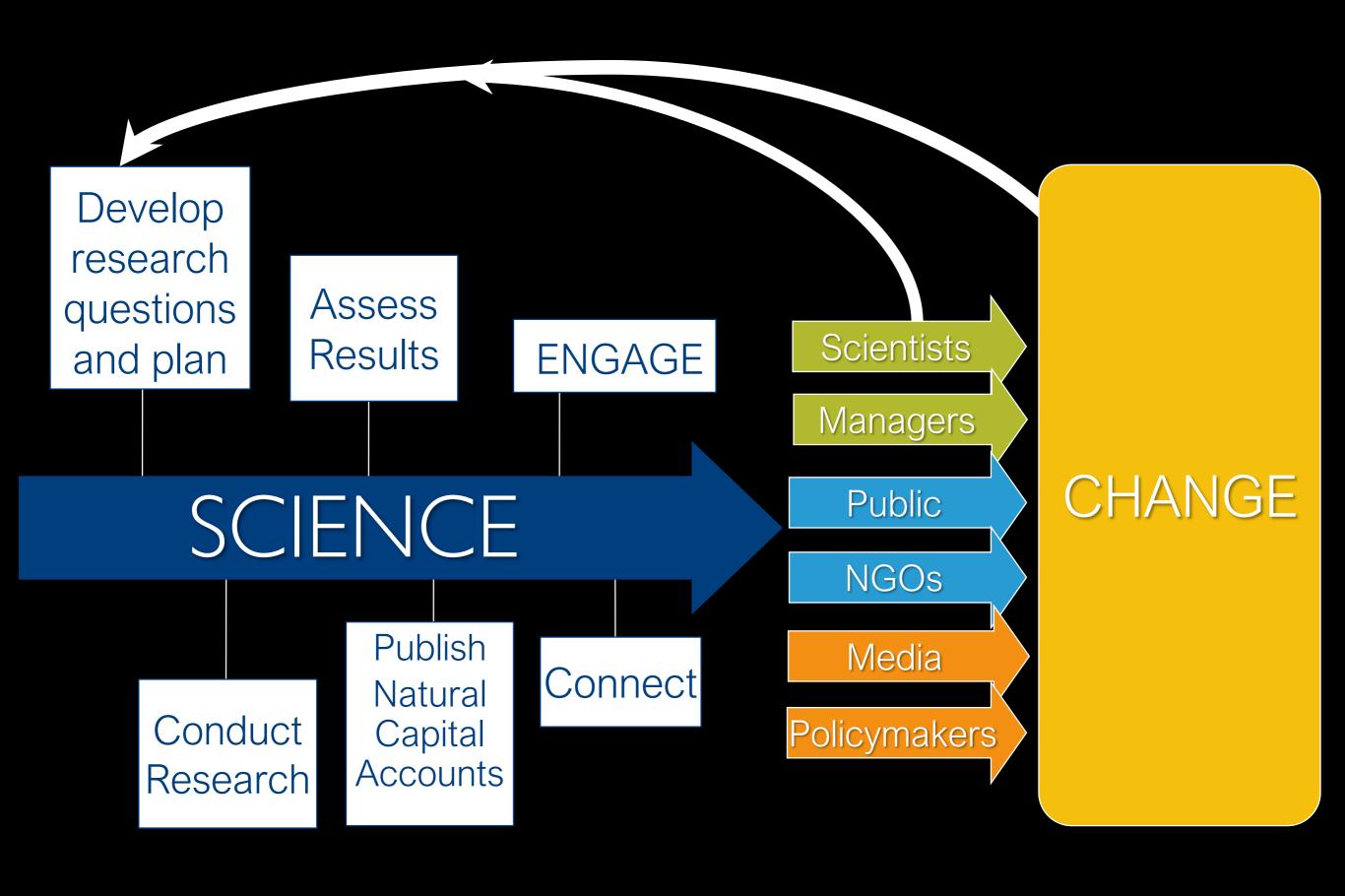
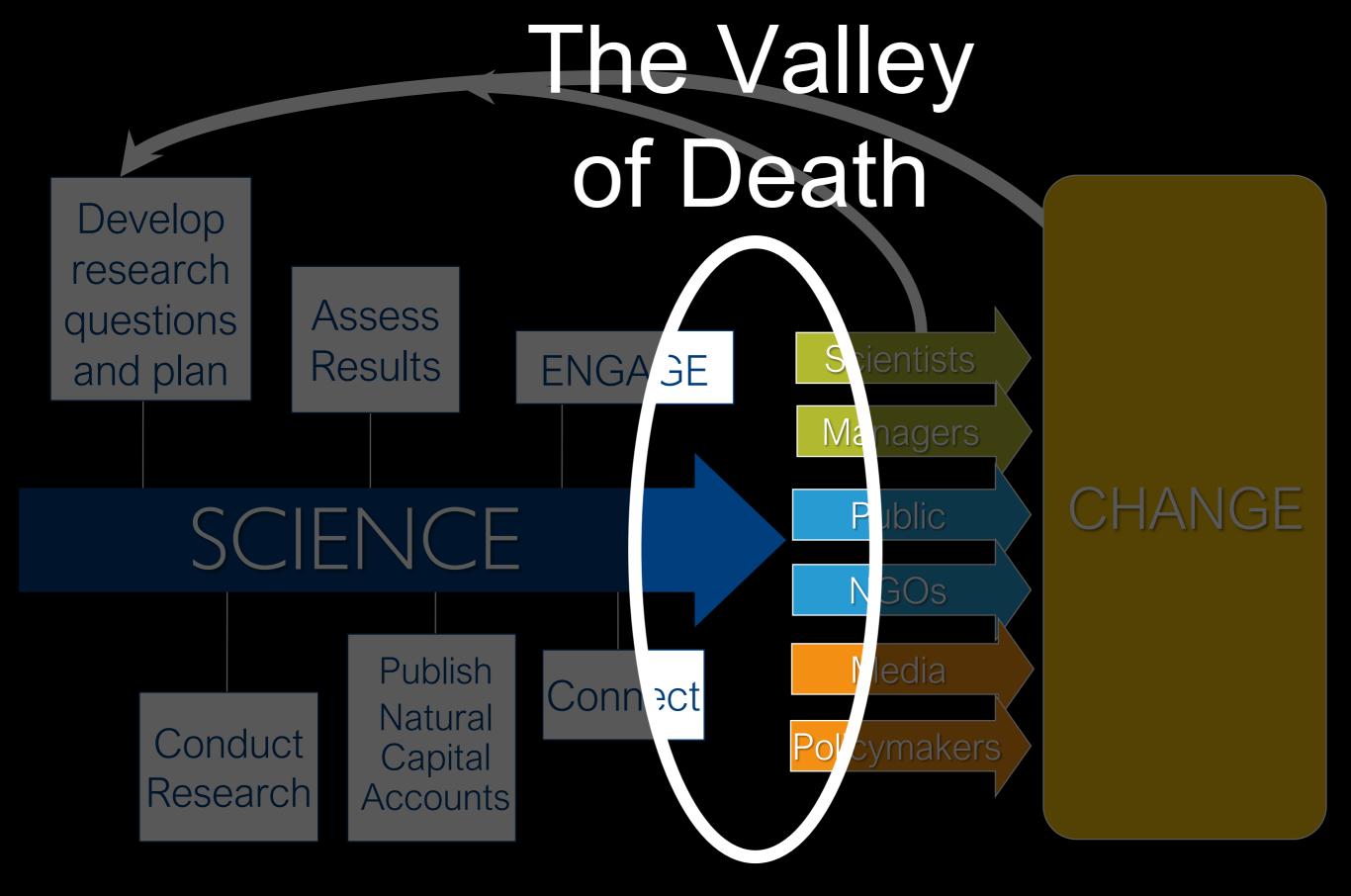


Helping scientists find their voice. Bringing science into the conversation.







NCA work must shift to be decision-centered

From... To...

Technical focus

Decision focus

Supply side Demand side

Change 1 policy or plan Enable policy discourse

Experimental Mandated

Forum on Natural Capital Accounting for Better Policy Decisions:

Taking Stock and Moving Forward

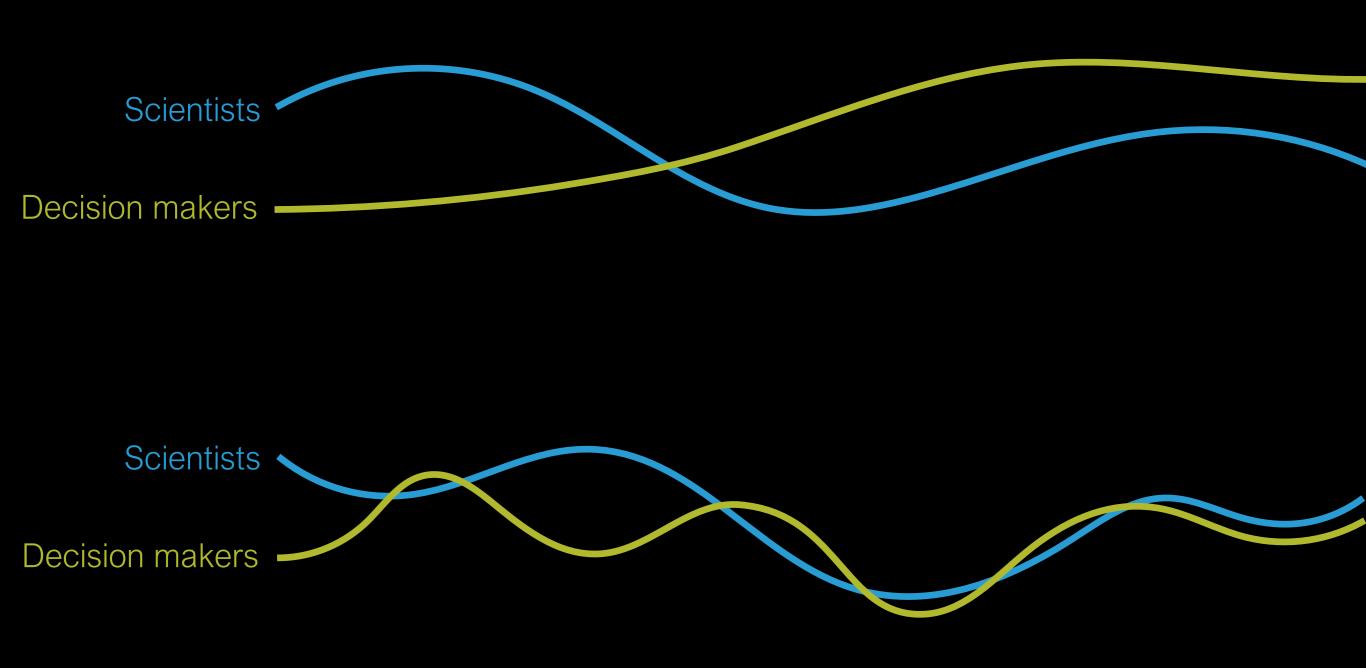
October 2017



Wealth Accounting and the Valuation of Ecosystem Services www.wavespartnership.org

WAVES

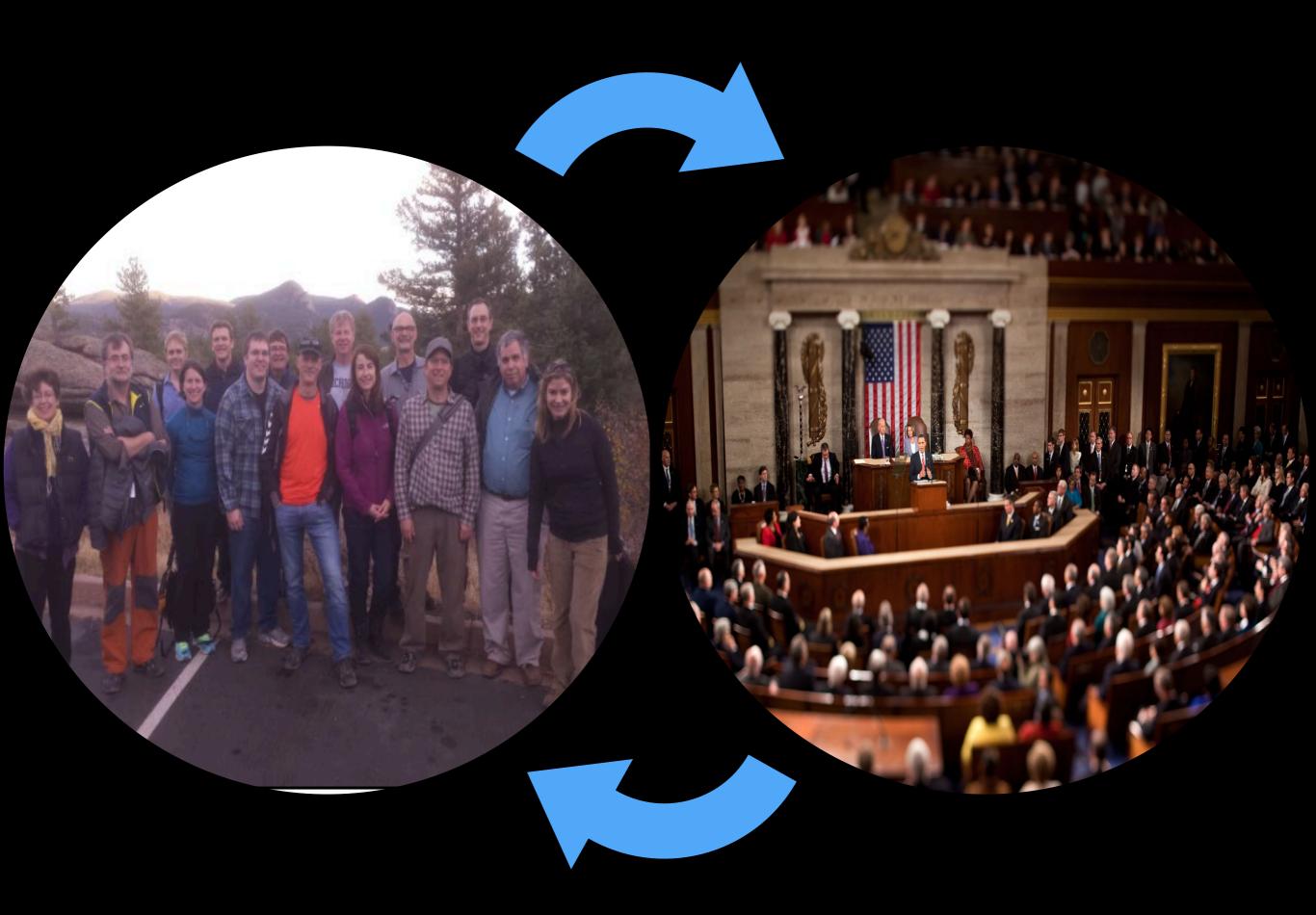


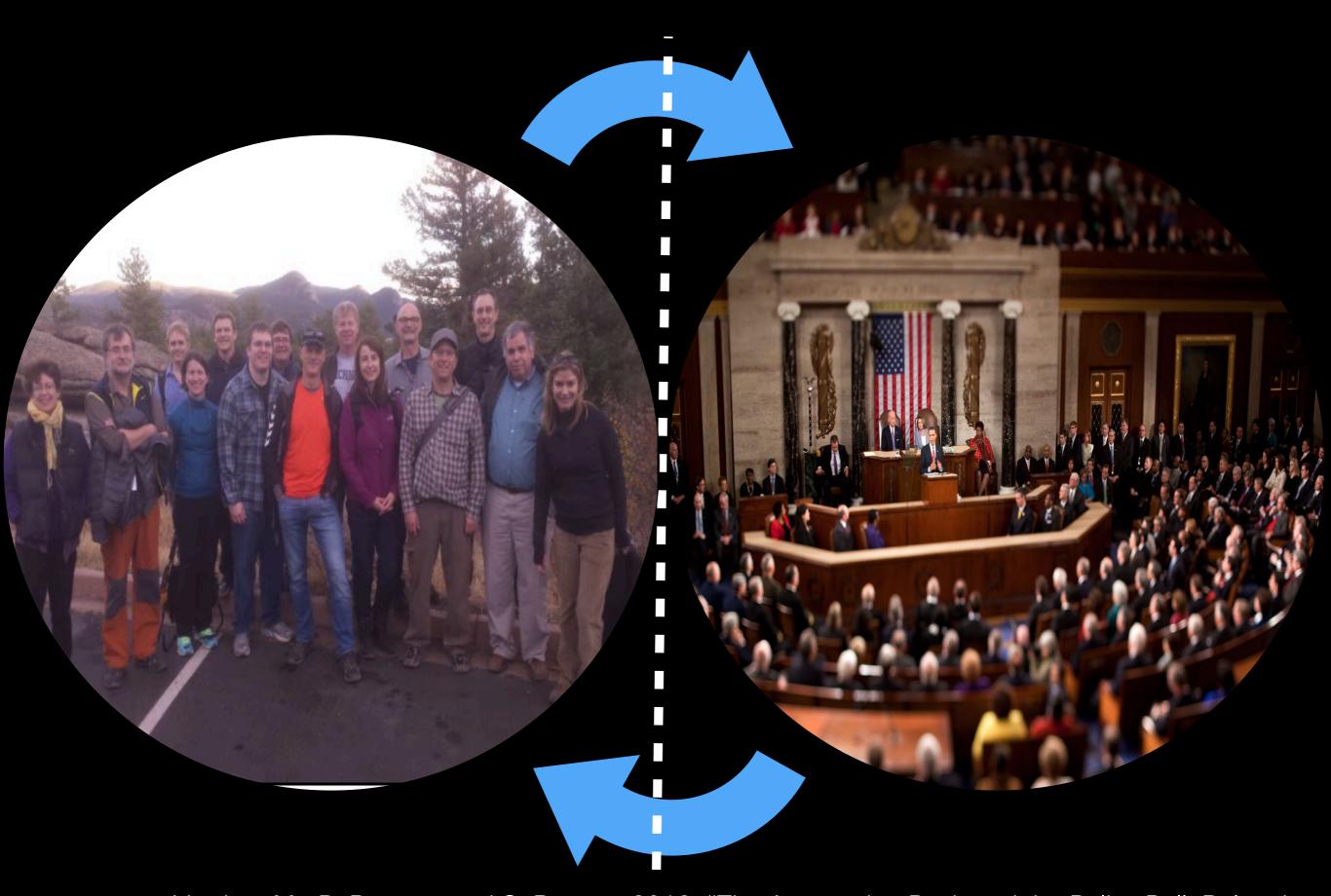


Posner, S., E. McKenzie, T. RIcketts. 2016. Policy Impacts of Ecosystem Services Knowledge. *PNAS*.

McKenzie, E., S. Posner, et al. 2016. Understanding the use of ecosystem services knowledge in decision making. *Environment and Planning C: Government and Policy*, 32: 320-340.







Vardon, M., P. Burnett, and S. Dovers. 2016. "The Accounting Push and the Policy Pull: Balancing Environment and Economic Decisions." *Ecological Economics* 124: 145–52.



City/Regional use of NCA

Weigh the tradeoffs between

efforts to protect/improve watershed quality

invest in water treatment facilities

State use of NCA

- See current condition of water resources
- Track the timing, location, and severity of water scarcity
- Evaluate likely consequences of alternative paths forward

Federal use of NCA

- Monitor nonmarket goods and service provided by managed natural resources
- Evaluate an agency's performance or effectiveness
- Include land values in the U.S. balance sheet

Federal *decisions* that could use NCA

Decision type

Example

Planning

Priority setting tools, principles, and guidance, e.g. those used in NEPA evaluations or land use planning

Regulatory

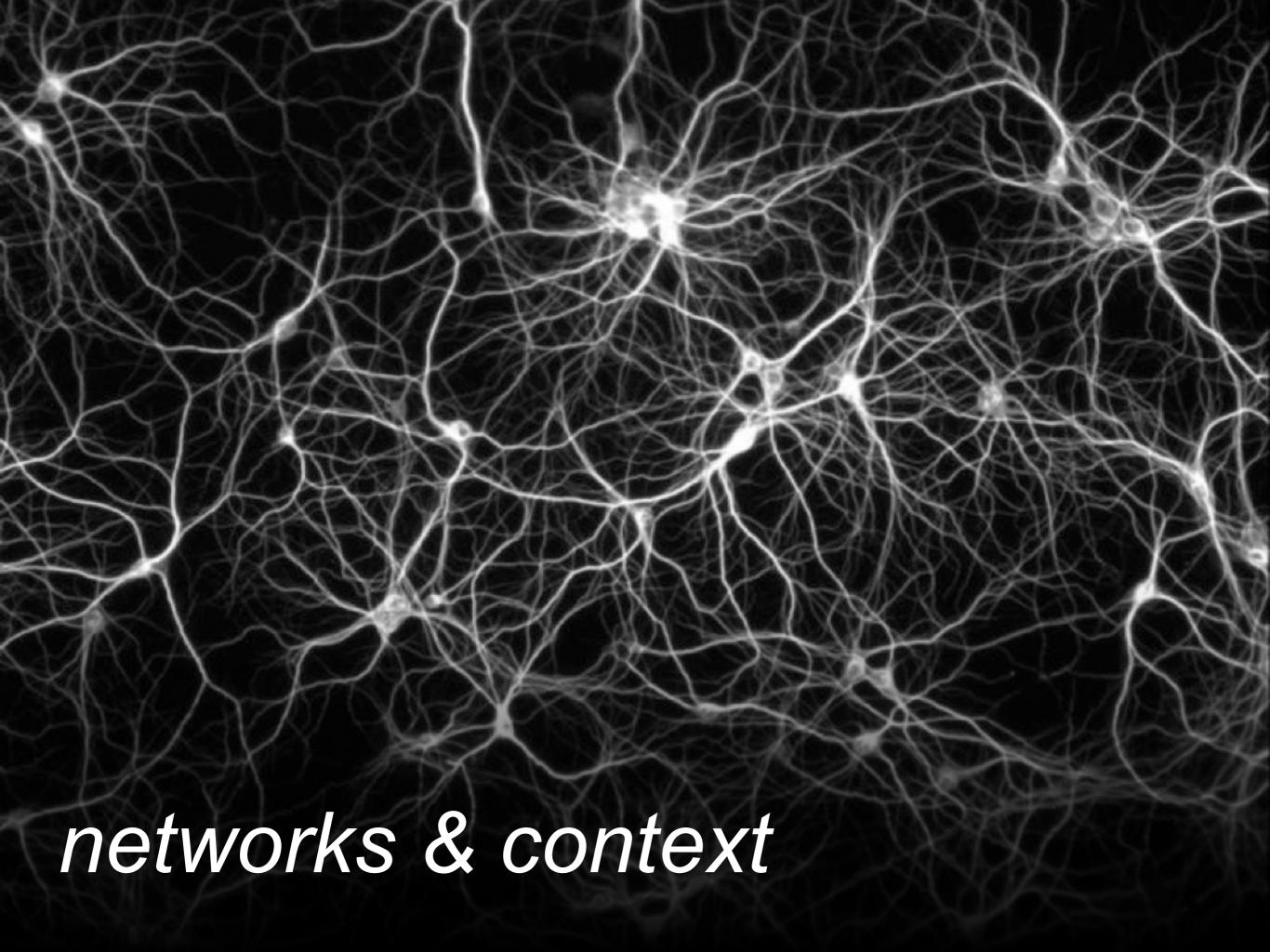
Mitigation and impact reimbursement tools, e.g. wetlands mitigation, natural resource damages mitigation

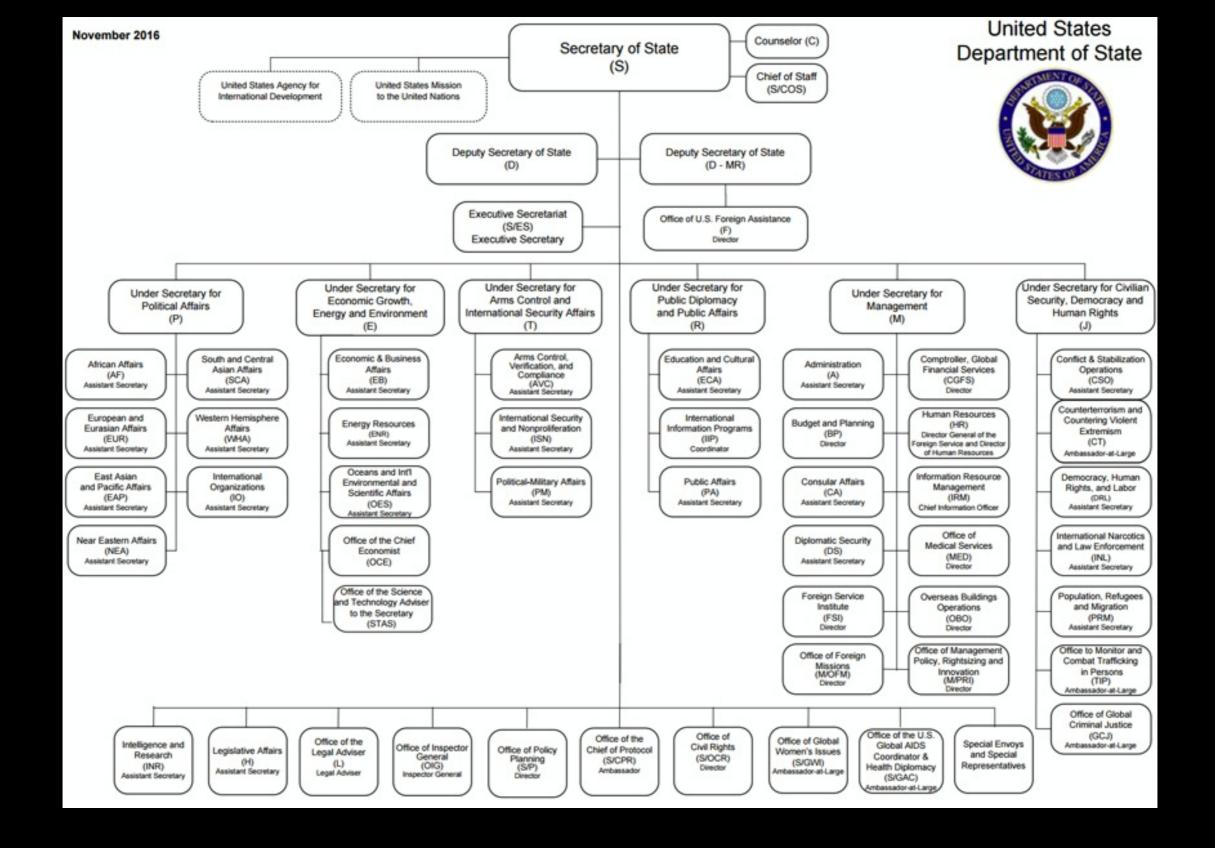
Budgetary

Grants, loans, other investments, e.g. Farm Bill conservation payments, Clean Water Act Revolving Loan Funds

Based on: Scarlett, L. and Boyd, J. 2015. Ecosystem services and resource management: Institutional issues, challenges, and opportunities in the public sector. Ecological Economics, 115: 3-10,



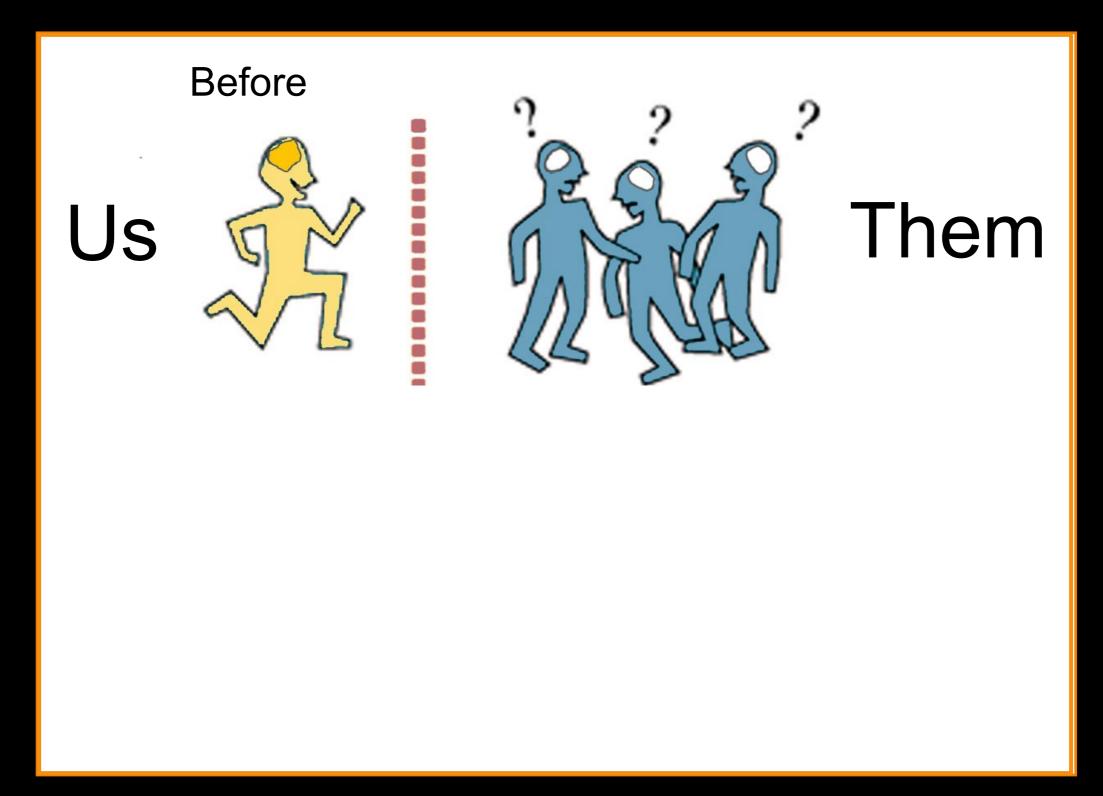




authority & hierarchies

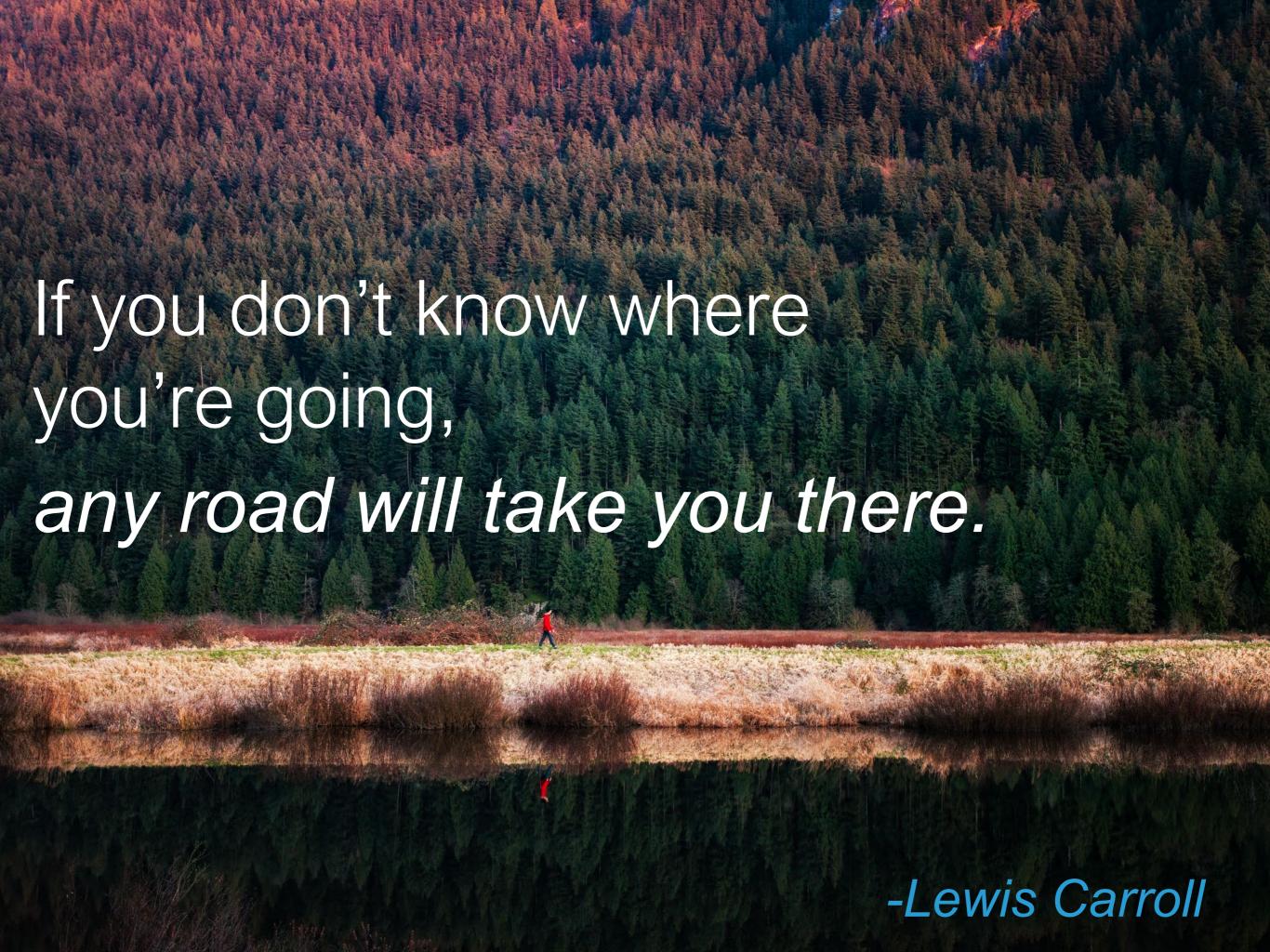


Information is not enough





"I don't know why I don't care about Natural Capital Accounting, but I don't."



NCA work must shift to be decision-centered

From... To...

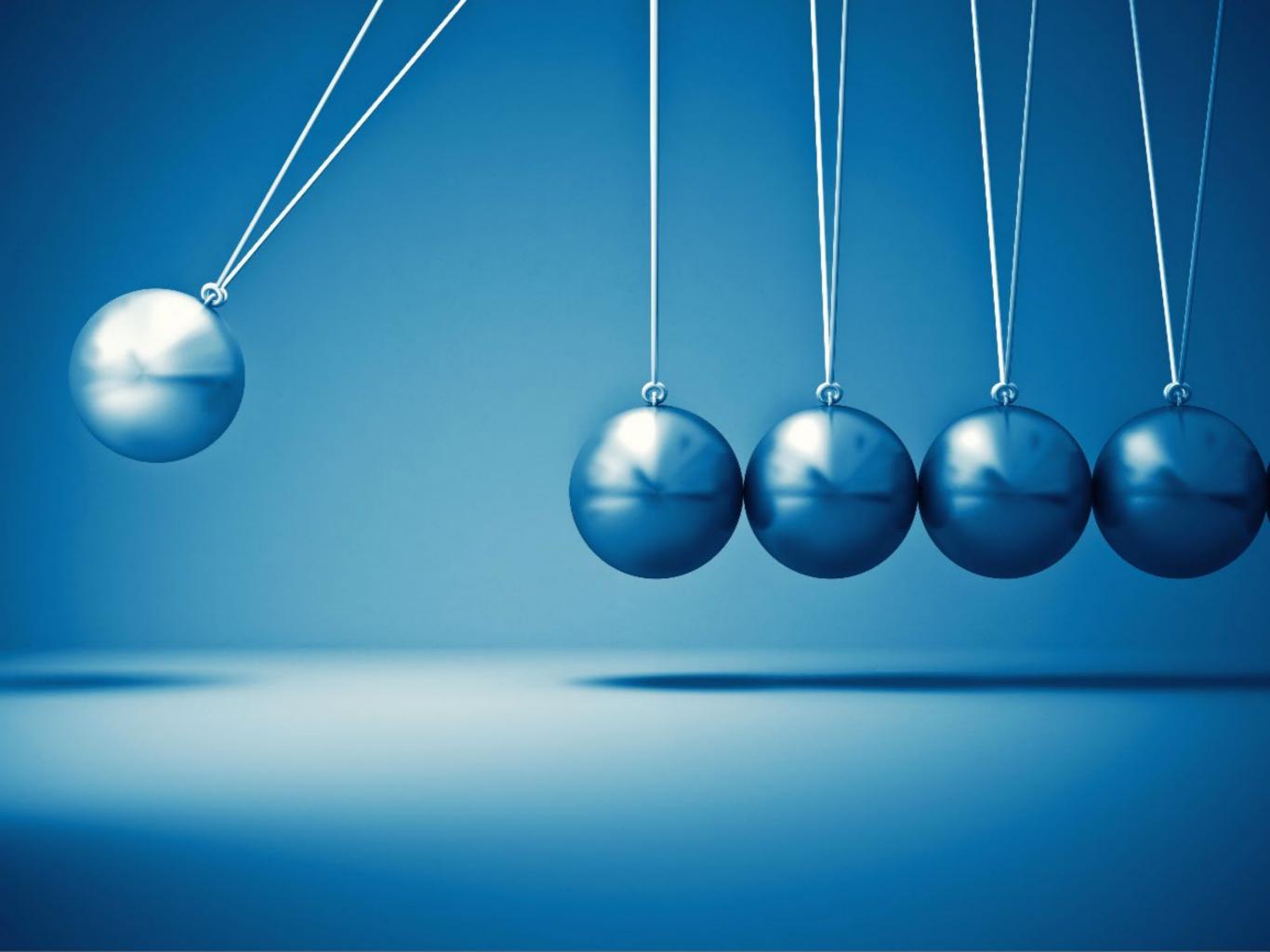
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Thank you

Stephen_Posner

CÔMPASS







Akerlof, K. 2018. Congress's use of science: Considerations for science organizations in promoting the use of evidence in policy. Washington, DC: American Association for the Advancement of Science.



Policymakers in UK Parliament use evidence

- to provide background knowledge
- to enable effective scrutiny
- to provide credibility
- to inform opinions
- to substantiate pre-existing views
- to score political points

Modes of knowledge use

Mode of use

Definition

Instrumental

knowledge flows from scientist to rational decision maker who makes observable decision on technical grounds

Conceptual

knowledge shapes thinking and dialogue, enabling people to develop new beliefs and values

Strategic

knowledge is used to support and promote a specific policy option, or justify previously held beliefs and values

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