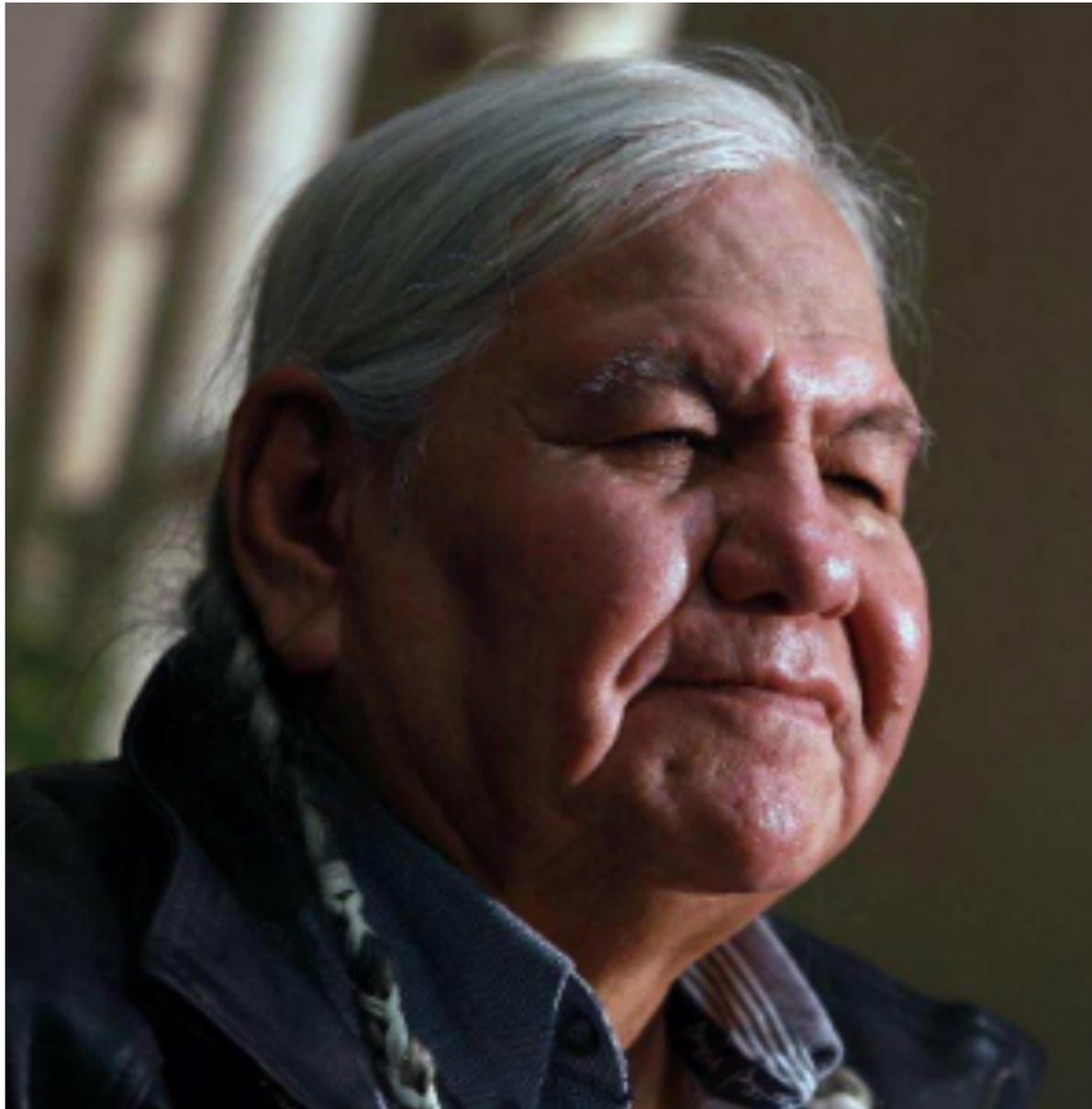


Evaluation for the Anthropocene

Towards sustainability-ready evaluation

Andy Rowe
ARCeconomics
September 2017





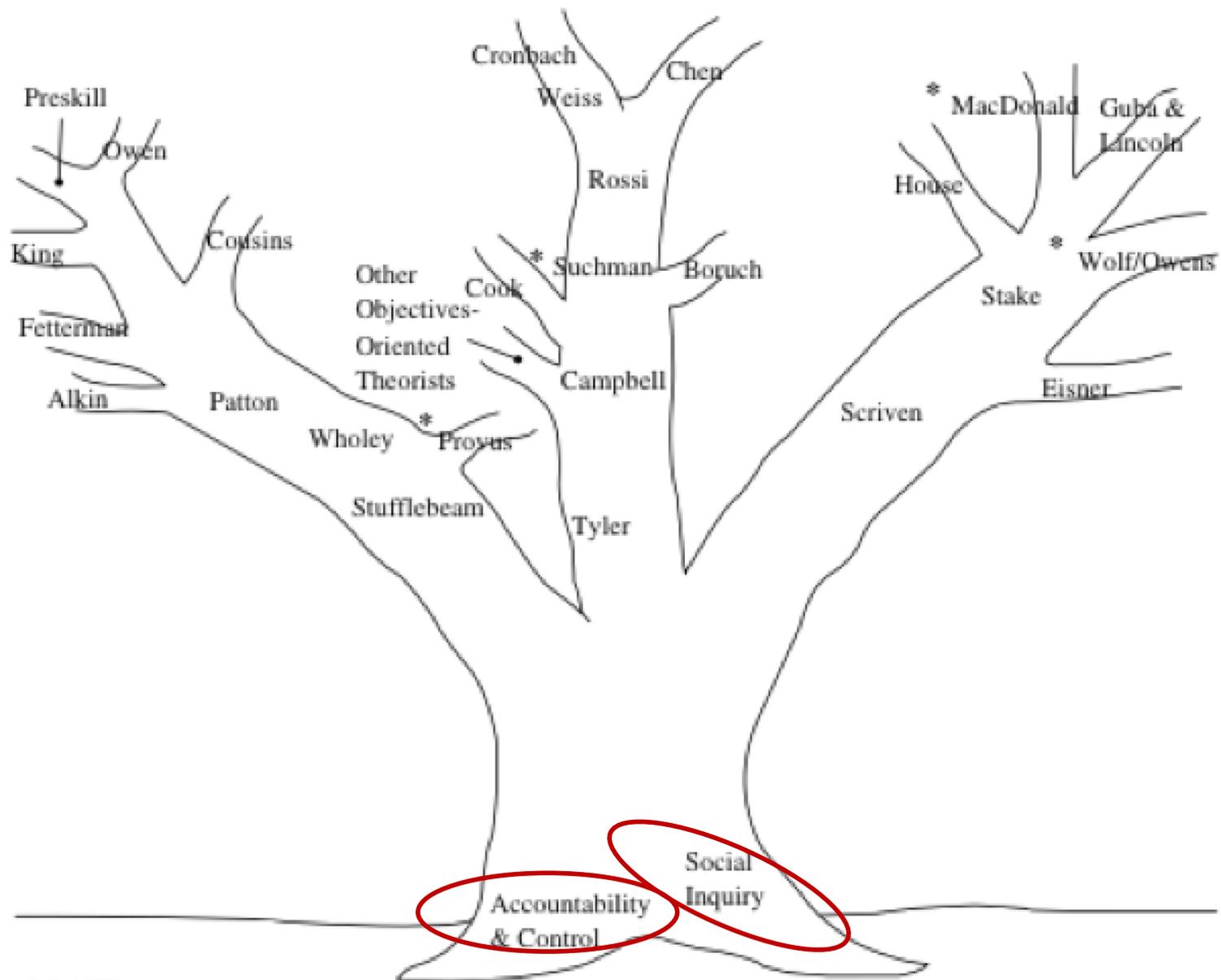
Elder Reg Crowshoe

Reg Crowshoe is a Blackfoot Cultural and Spiritual Advisor, and is the former Chief of the Piikani Nation. Reg and his late father, Joe Crowshoe, travelled extensively around the world bringing awareness and education about Blackfoot history, traditions and spirituality. In 1997, Reg developed the Blackfoot Framework for Decision-Making and Mediation Process called Akak'stiman, and presents it widely to Corporations, Government, Aboriginal organizations and the Non-Profit sector. Akak'stiman is a Blackfoot World View on dual paradigms; Western Thinking and Blackfoot Thinking, and how these paradigms can be integrated to best serve Aboriginal people.

USE

METHODS

VALUING



DRAFT

* Not included in chapters

Intervention

School siting policies applied focusing on selected human system interests

1. New school (disconnected)

Direct human system effects

- Learning environment
 - effectiveness
 - efficiency
 - safety

3. New school in coupled ecosystems (connected)

- obesity,
- community & family cohesion
- air quality
- Habitat
- climate

2. New school in local ecology (somewhat connected)

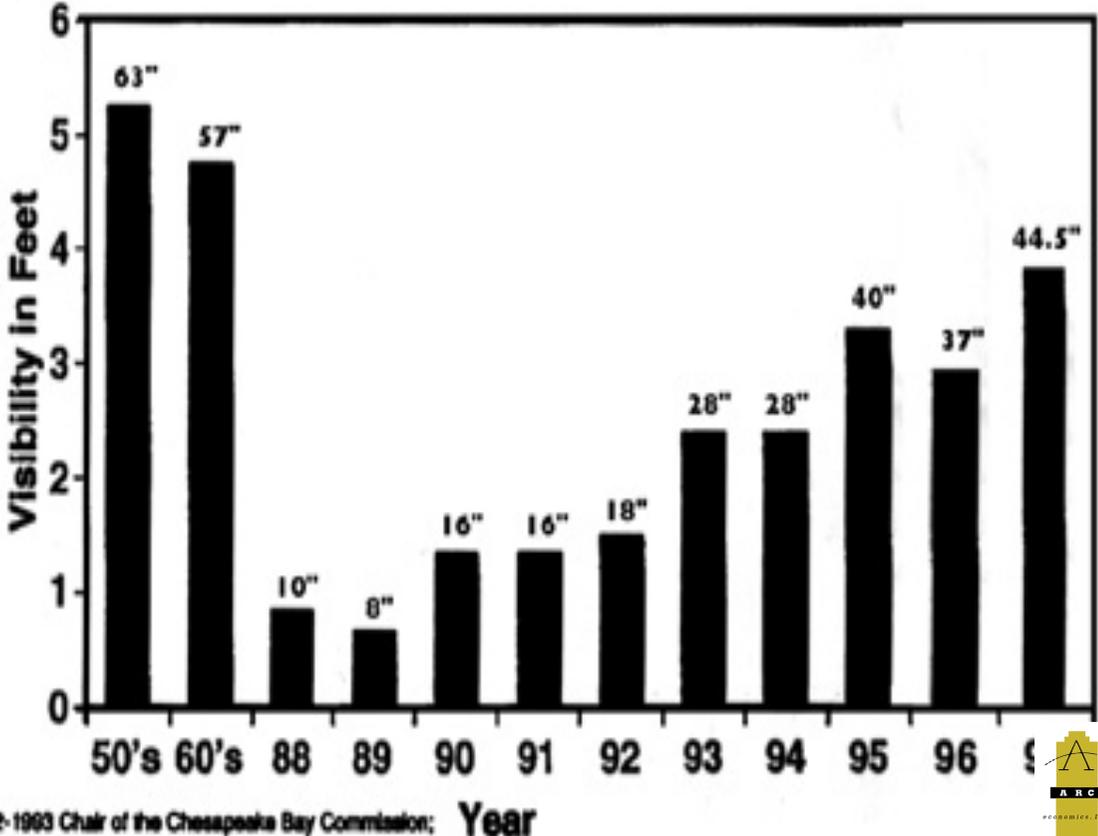
- Direct human and natural system effects adding
 - water quality
 - CO2
 - biodiversity

Change is not always fun



Product vs. Use

*I think I have a measure
That can't be beat
You just wade out in the river
And look down to see your feet.
From Tom Wisner poem Bernie
Fowler Day: A Guide to Wading in the
Southern Maryland Waters.*



Source: Senator C. Bernard Fowler, 1992-1993 Chair of the Chesapeake Bay Commission;
Kent Mountford, U.S. EPA Chesapeake Bay Program.





Sustainability

ENHANCING SUSTAINABILITY OF OPERATIONS AND GLOBAL VALUE CHAINS

Working with others, we aspire to reshape the way we work to achieve significant and lasting improvement in environmental and social outcomes, in a way that also improves our business. Our approach accelerates us towards our three aspirational goals: to create zero waste, operate with 100% renewable energy and sell products that sustain our resources and the environment. We are using our strengths to not only further work in our own operations, but to also help create a more sustainable value chain.



NO EXCUSES

OUR VISION IS FOR AN INDUSTRY WHERE HUMAN RIGHTS AND SUSTAINABILITY ARE NOT THE EFFECT OF A PARTICULAR INITIATIVE, BUT THE CAUSE OF A BUSINESS WELL RUN. WHERE SOCIAL AND ENVIRONMENTAL INJUSTICES ARE NOT UNFORTUNATE OUTCOMES, BUT REASONS TO DO THINGS DIFFERENTLY. WHERE EXCUSES ARE IGNORED AND ACTION IS TAKEN.

WE'RE WORKING TOWARD A WORLD IN WHICH THE CLOTHES YOU LOVE TO WEAR CREATE NOTHING BUT LOVE.



Sustainability standards need to operate effectively to deliver on their social and environmental goals. ISEAL's Codes of Good Practice are seen as global references for developing credible standards.

All steps in the standards and certification process, including [standard-setting](#), [impact evaluation](#) and [assurance](#) (certification and accreditation) have a role to play in the effectiveness of a system. ISEAL builds understanding of good practices for standards systems and sets internationally applicable good practice guidance for the implementation of credible standards systems. These Codes of Good Practice are applied by leading standards systems and compliance is an ISEAL membership requirement. Review and revision of the ISEAL Codes is managed by a [Technical Committee](#) made up of [ISEAL members](#) and outside experts. The ISEAL Board of Directors do not have a role in Code content development. Our [work programme](#) provides an overview of the current status and scope of each of our Codes and credibility tools.

The globally supported [ISEAL Credibility Principles](#) articulate the practices that define credible sustainability standards systems. These concepts, such as transparency, engagement and improvement underpin our Codes of Good Practice.

The ISEAL Codes of Good Practice are effective screens for assessing the credibility of sustainability standards. Institutions and companies make reference to and use the Codes in a variety of ways for purchasing and policy.

Mantra for sustainability-ready evaluation

An approximate answer to the right question is worth a good deal more than the exact answer to an approximate problem.

Bell labs,
Princeton
University

[Exploratory data analysis](#)

[Projection pursuit](#)

[Box plot](#)

[Cooley–Tukey FFT algorithm](#)

[Tukey's range test](#)

[Tukey lambda distribution](#)

[Tukey–Duckworth test](#)

[Siegel–Tukey test](#)

[Tukey's trimean](#)

[Tukey's test of additivity](#)

[Tukey's lemma](#)

[Blackman-Tukey transformation](#)

[Tukey mean difference plot](#)

[Tukey median and Tukey depth](#)

[Coining the term 'bit'](#)



John W. Tukey
1915 - 2000