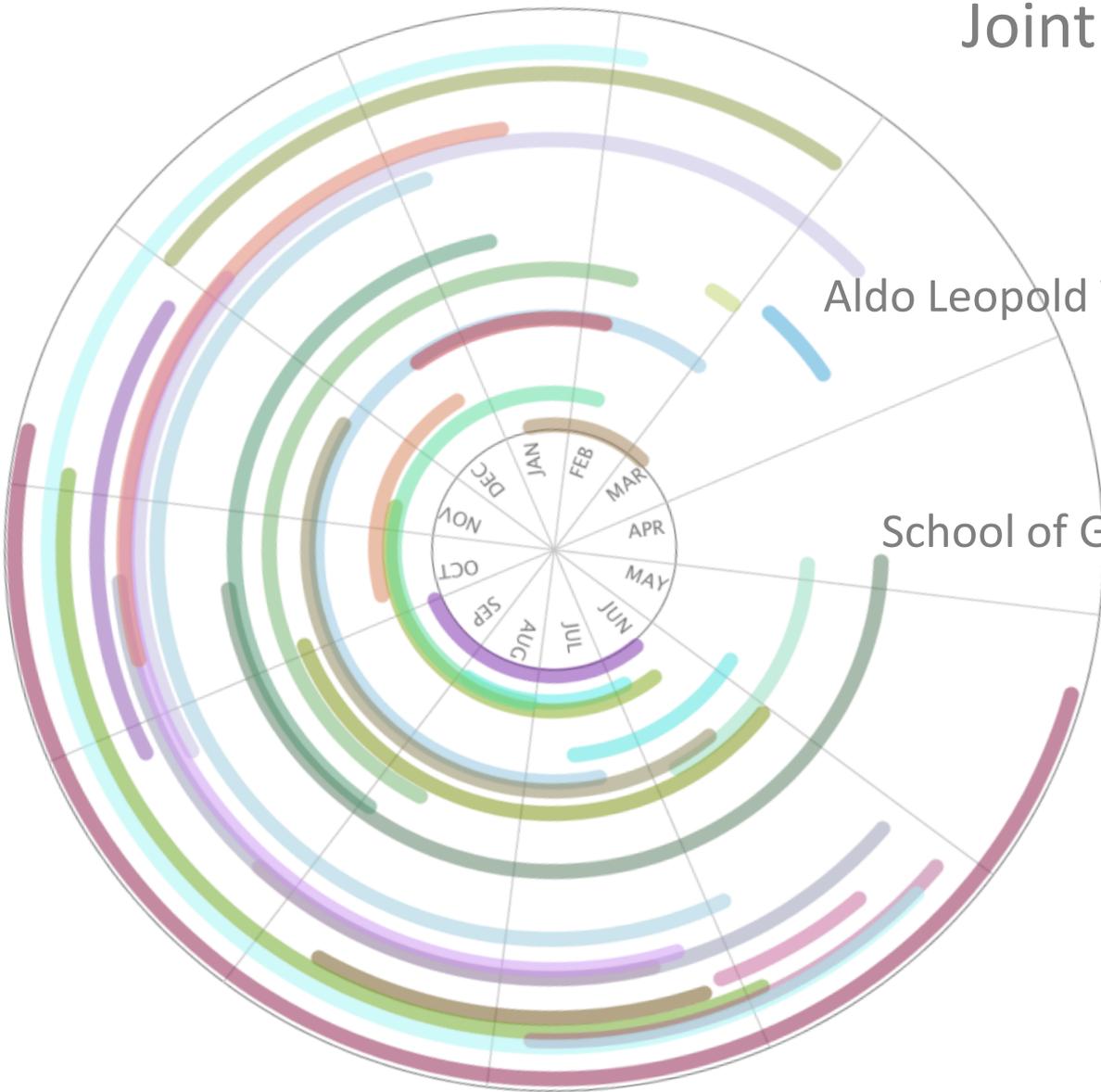


(Re)new(ed)* ways of sustaining the commons:
the problems and potentials of
integrating indigenous and scientific knowledge
in environmental management

Brooke B. McBride, Ph.D.
College of Forestry and Conservation
The University of Montana
Missoula, Montana, USA

* Evering (2012)

Joint Fire Science Program USA

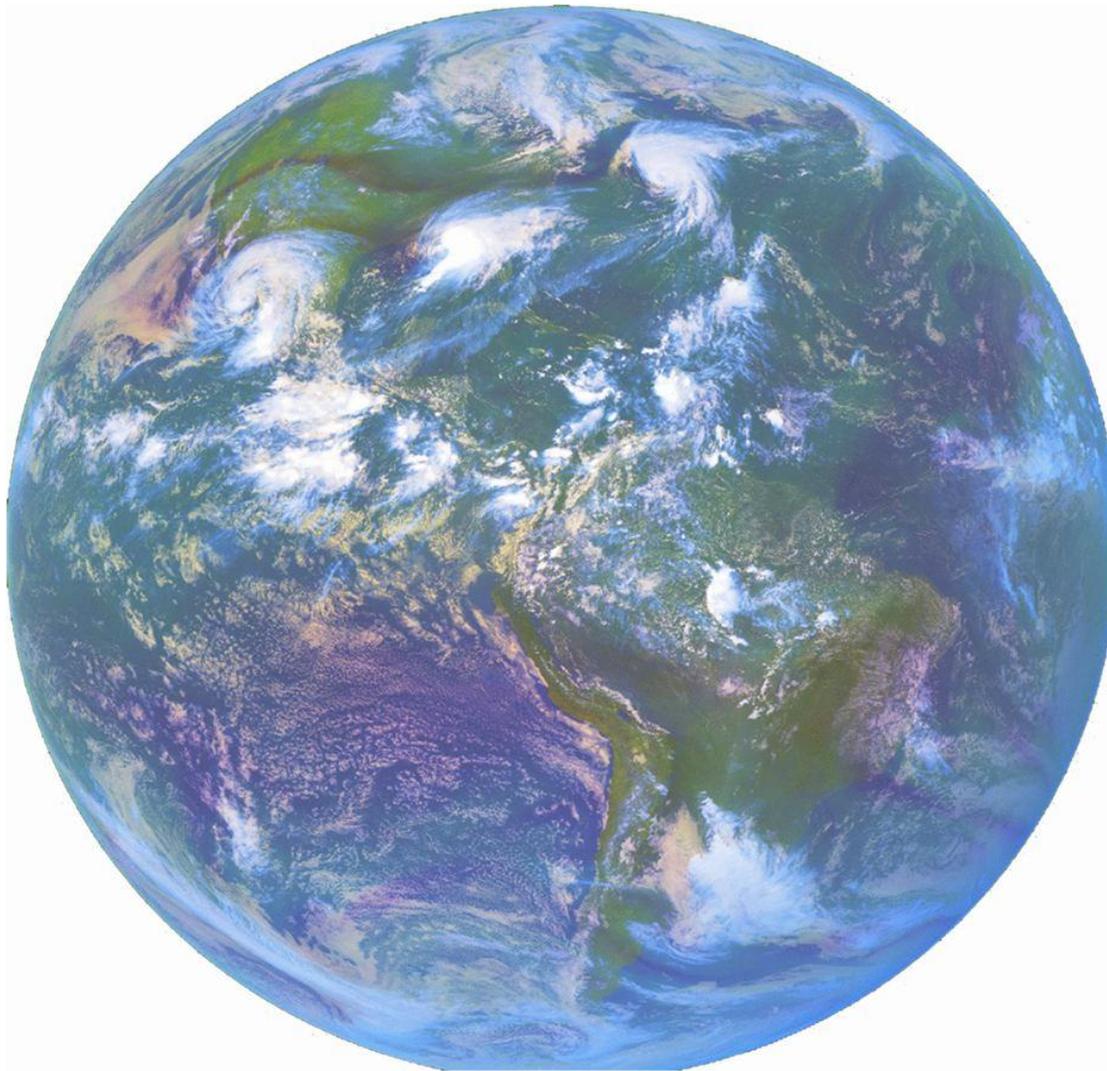


Alan Watson, Ph.D.
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Stephen Carver, Ph.D.
School of Geography, University of Leeds
Leeds, UK

Linda Moon Stumpff, Ph.D.
Evergreen State College
Olympia, WA, USA

Tribal College Faculty across
Intermountain West, USA



Knowledge Integration

The commons:
complex adaptive systems

Resilience from diversity,
feedback,
capacity to change

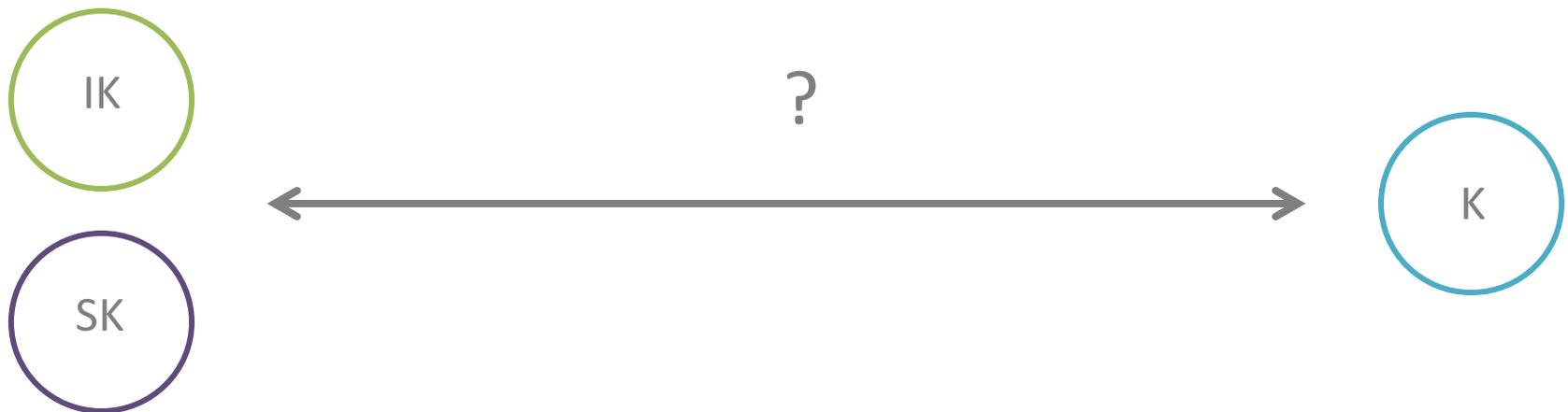
Intellectual diversity =
combining of different
knowledges

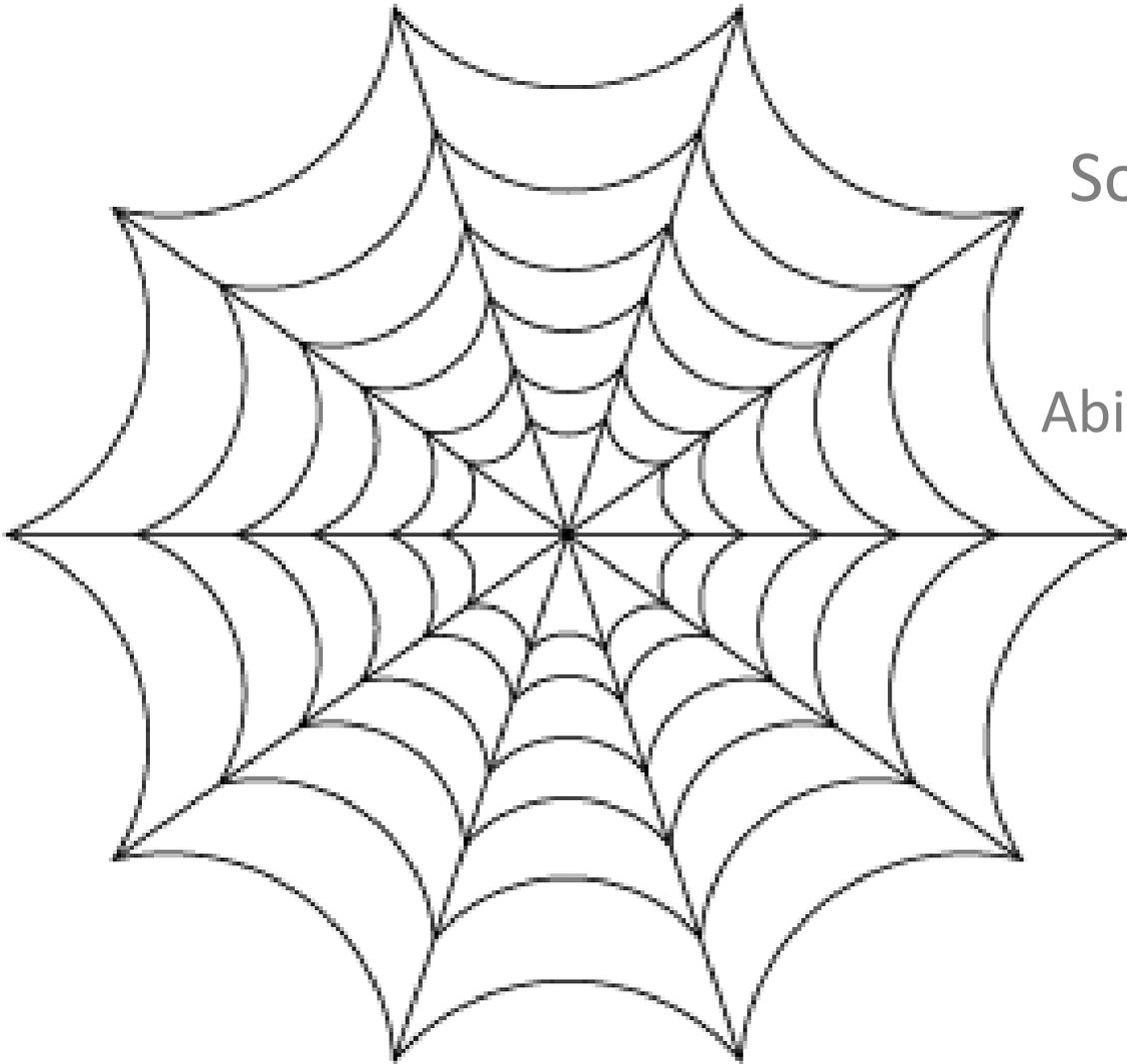
Knowledge Integration: Terms

Indigenous, traditional, local, ecological

Indigenous knowledges (plural)

Indigenous knowledges (IK) and scientific knowledge (SK)





Social-Ecological Resilience

Ability to withstand disturbance,
remain flexible

Opportunity in complexity

(Re)new(ed) ways of thinking
for new insights
and solutions

Challenges



Indigenous Knowledge
(IK)

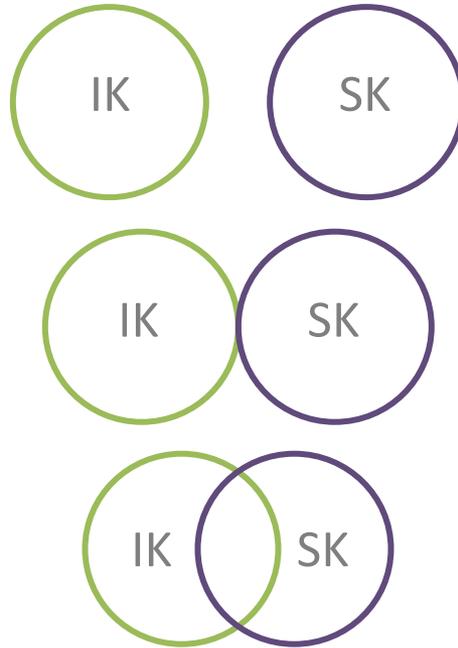


Scientific Knowledge
(SK)

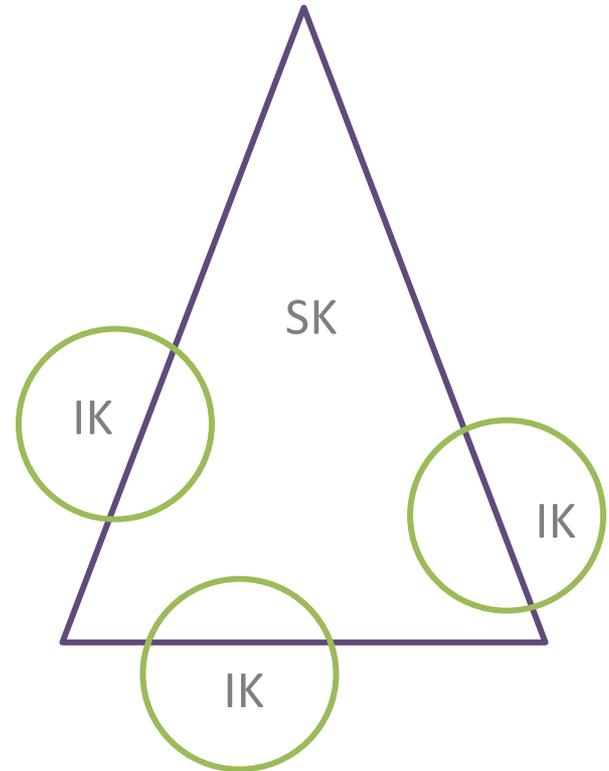
Relationships between Knowledges



Just one not others*



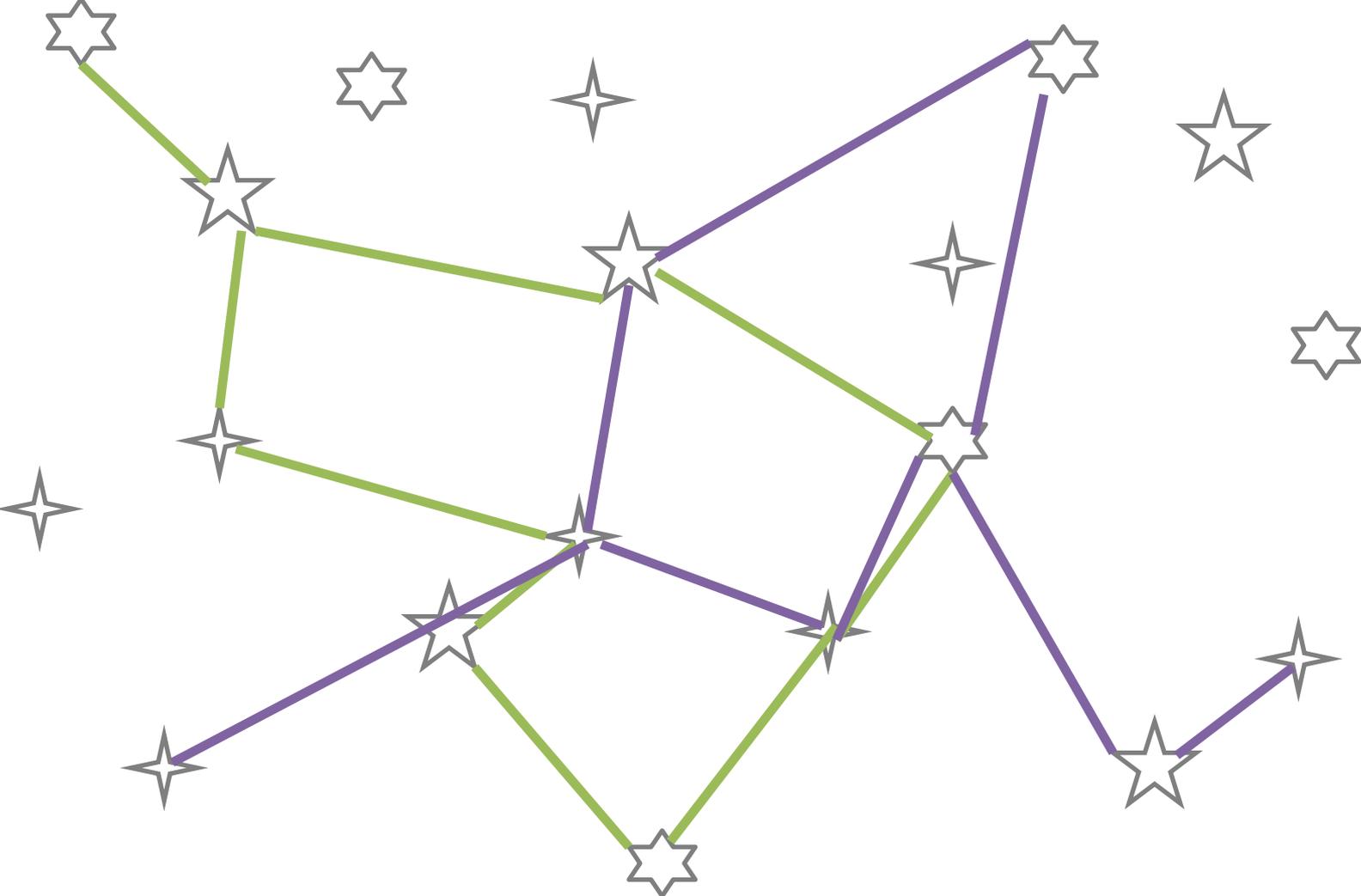
Degrees of separation*



Hierarchy*

*Evering (2012).

New Directions for Knowledge Integration



What and why, in general?.....knowledge integration for (re)new(ed)
ways of thinking

Why, more specifically?.....for resilience in the face of climate change

How, empirically?.....as measured by IK and SK

How, methodologically?..using GIS, specifically MapMe, and MapTiMe

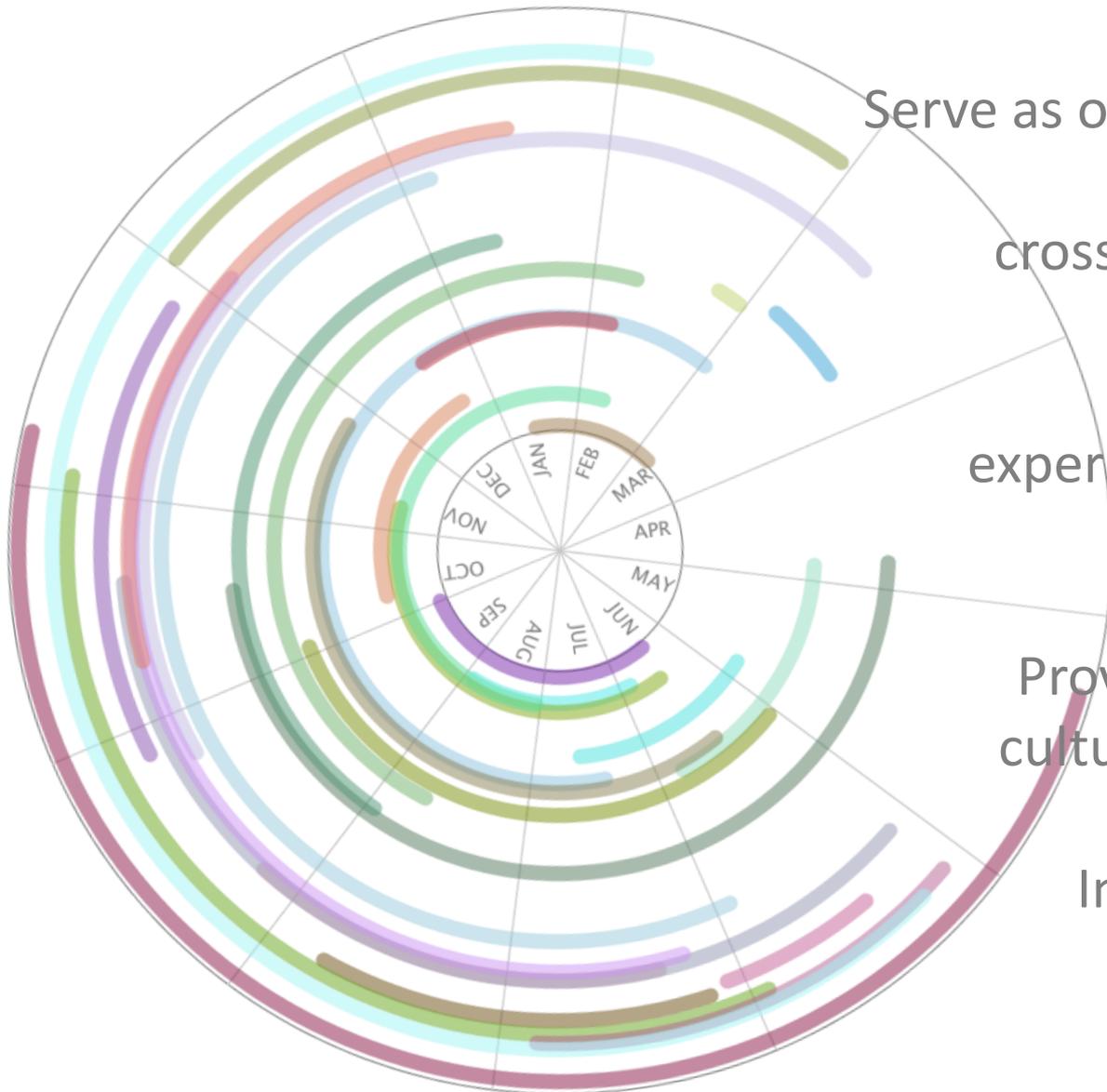
Where?.....in the Intermountain West of North America

Who?..via tribal college faculty as
intercultural knowledge-bridgers

Cultural Adaptation
to Changing Fire Regimes
across Intermountain West of North America

Partnerships





Serve as organizing frameworks for recovery, retention, cross-cultural communication

Facilitate combination of experiential and experimental; complementarity

Provide means for depicting cultural adaptation to change

Insights into new adaptive management strategies