



MOSS Teacher Institutes:

Connecting teachers to scientists through water resources in
a changing climate

Karla Bradley Eitel, PhD
Director of Education
McCall Outdoor Science School



University of Idaho



PONDEROSA STATE PARK
MCCALL, IDAHO

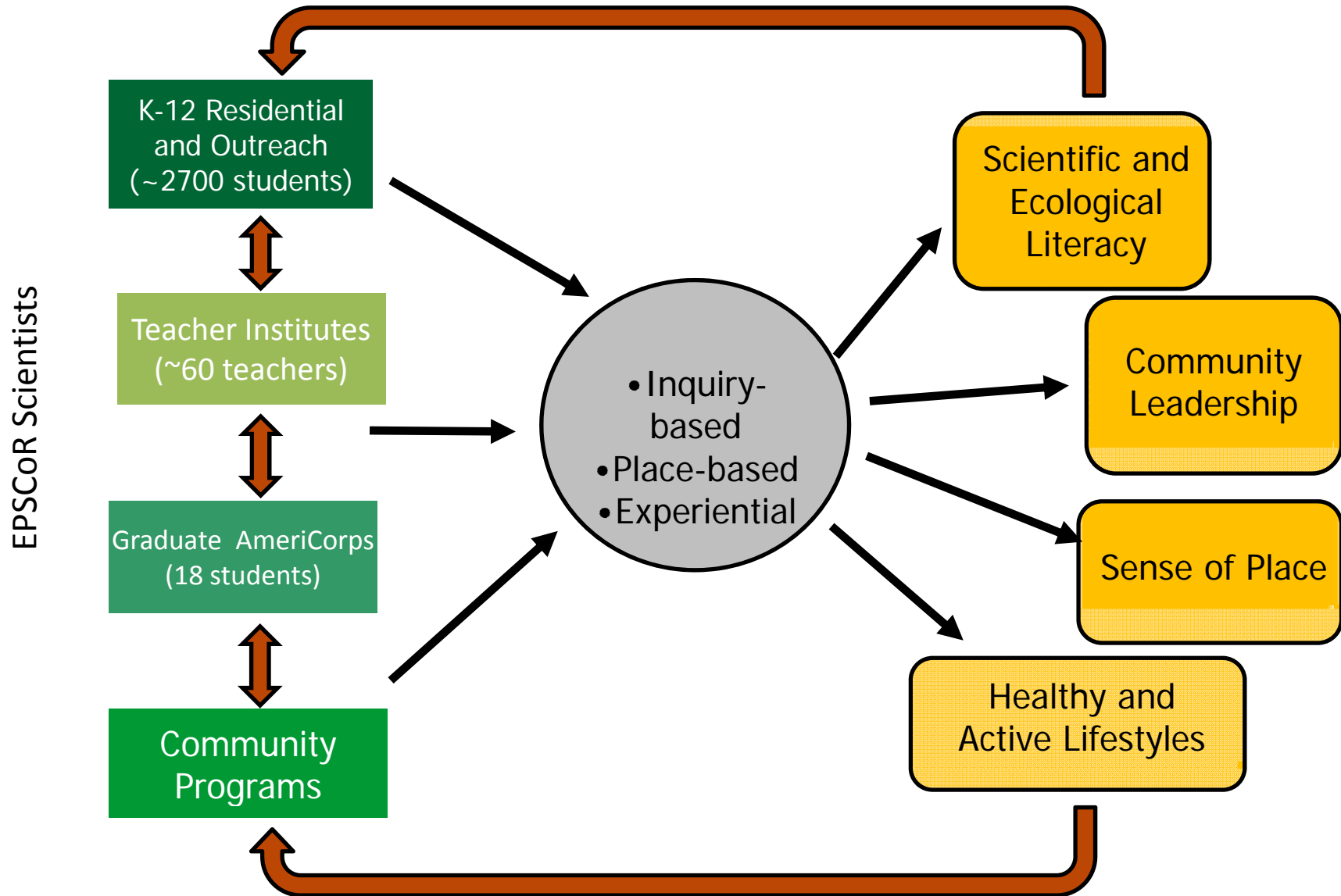


Idaho State
UNIVERSITY

Our mission at the McCall Outdoor Science School (MOSS) is to get people outdoors to learn about science, place, and community



Program Overview



PRE

IN THE SPACE BELOW, PLEASE DRAW A PICTURE OF WHAT YOU THINK A SCIENTIST LOOKS LIKE



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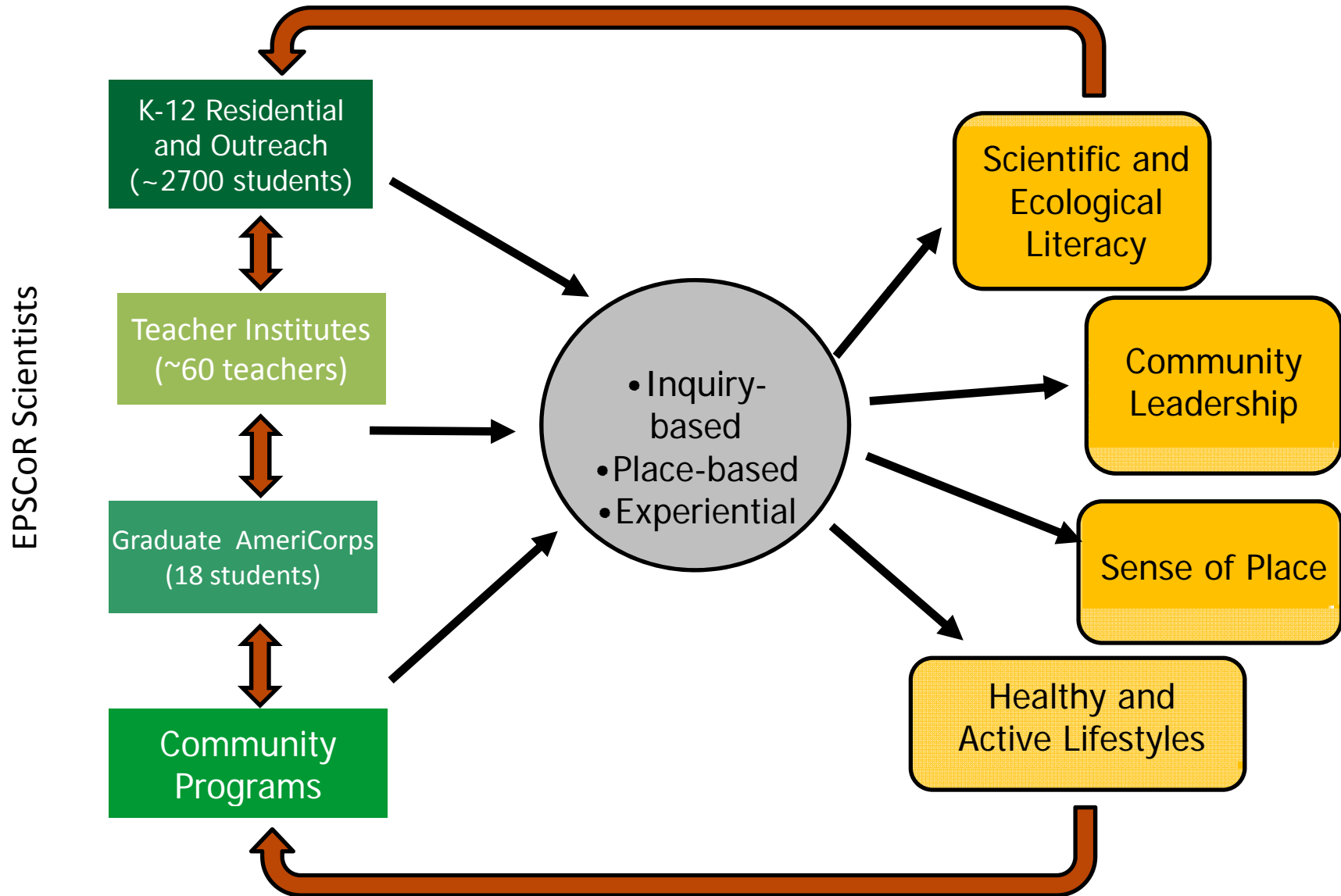


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Program Overview





McCall Outdoor Science School

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Teacher Institutes





McCall Outdoor Science School

Winter 2011:

- Met with scientists Dr. John Abatzoglou, Brandon Moore, and Dr. Charlie Luce
- Learned about downscaled scenarios for Idaho
- Measured SWE
- Connected Idaho predictions to impact in their own community

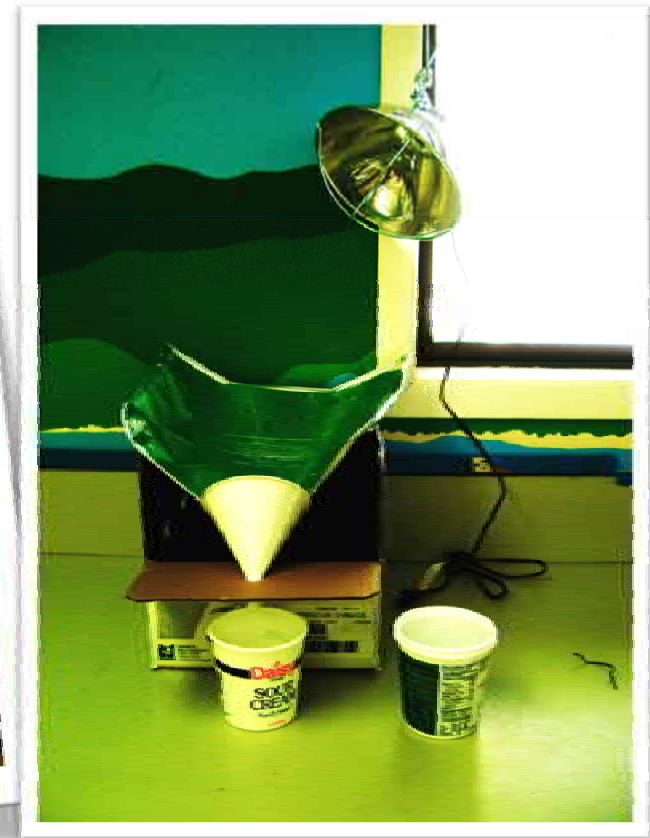


ENGAGE: Look at historic monthly averages for precipitation and stream flow in a local basin. Discuss climate change predictions for Idaho

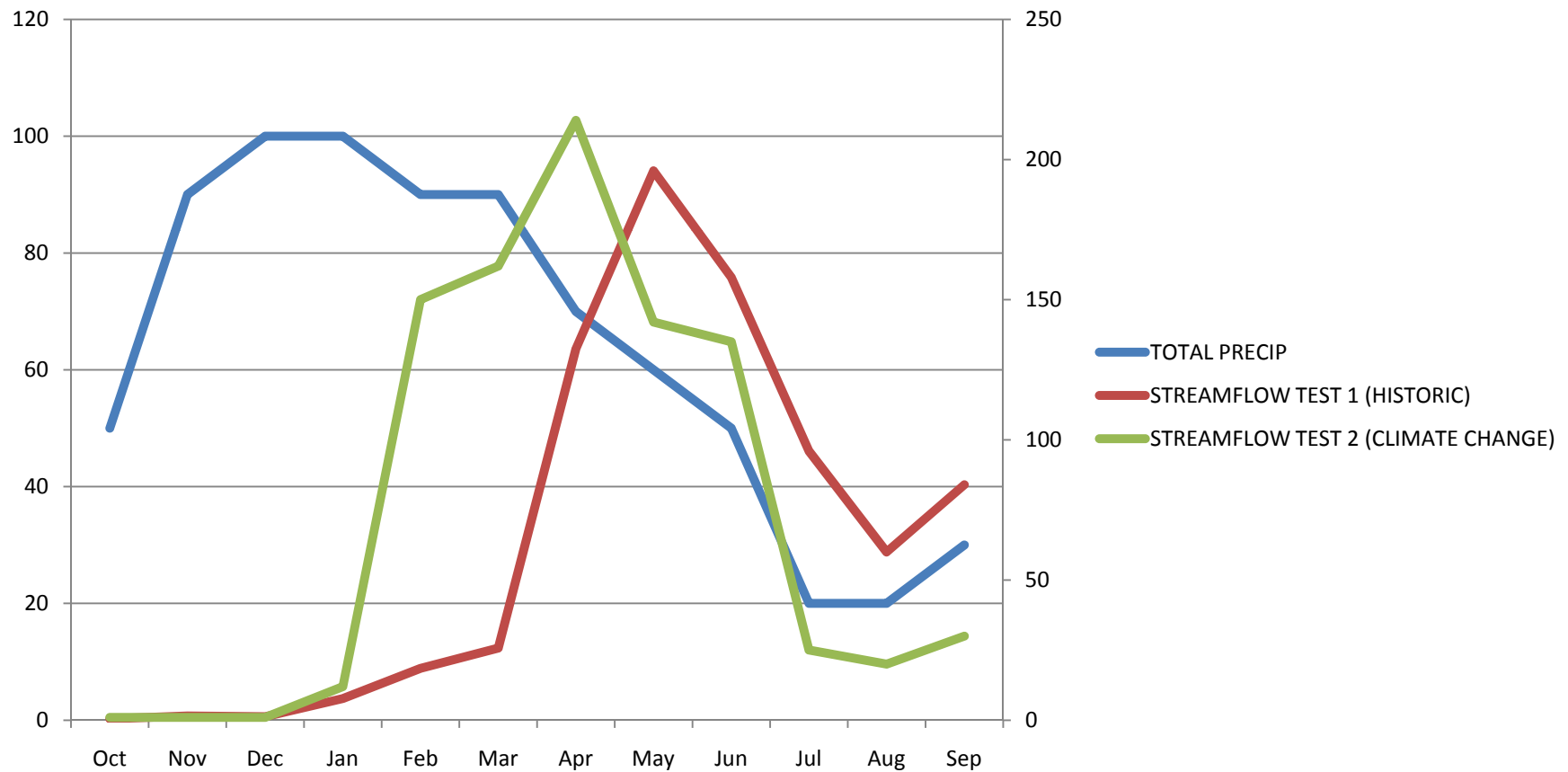
Little Salmon River Basin Average Monthly Precipitation and Streamflow



EXPLORE: Have students test two scenarios (historic conditions, future predictions) using watershed models.



EXPLAIN: Have students graph and analyze the data from their two scenarios. What do they notice about the shape of the hydrograph?

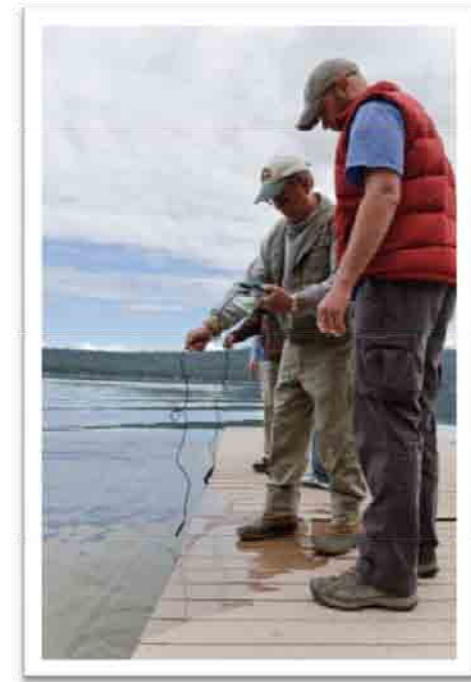
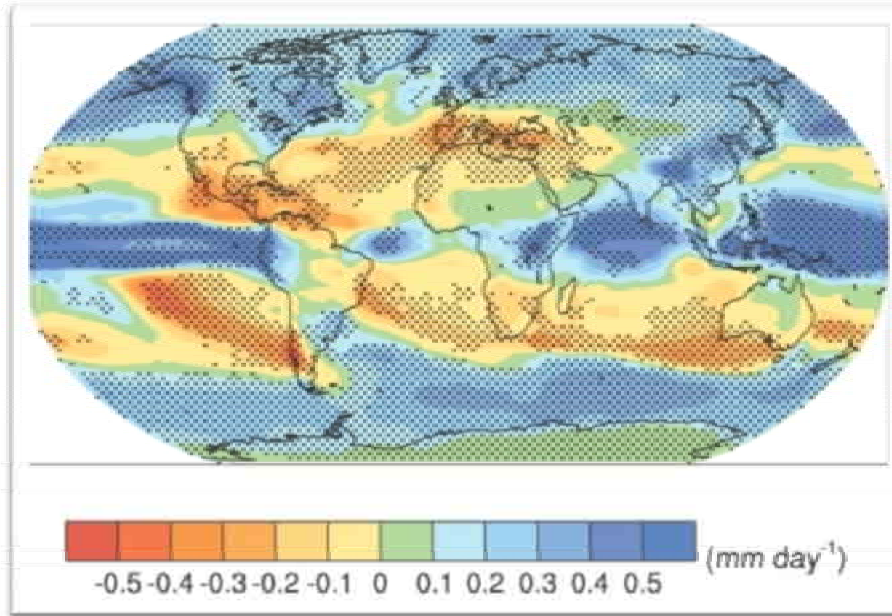




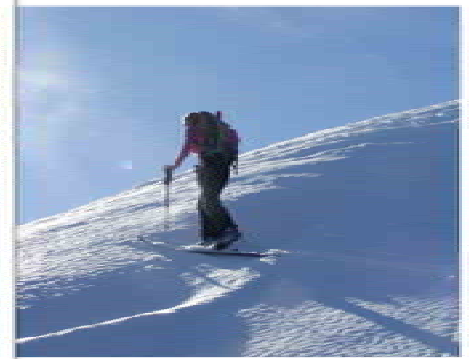
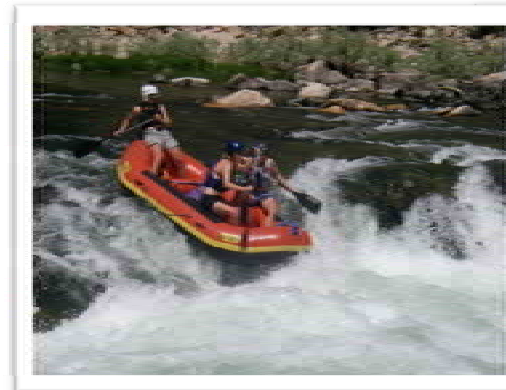
ELABORATE: Have students brainstorm water resources that your community depends on (examples include recreation, fishing, power generation, irrigation). Divide students into “expert groups” to research the impact of decreased summer streamflow on each of these resources.

EVALUATE: Have students discuss the limitations of the model and come up with questions for further research. Have student “experts” regroup with members of other expert groups to come up with mitigation and adaptation strategies for their community that would balance the needs of all their different water uses.

TAKE HOME POINTS:



Think GLOBALLY
Act SCIENTIFICALLY
Connect LOCALLY



Questions?

