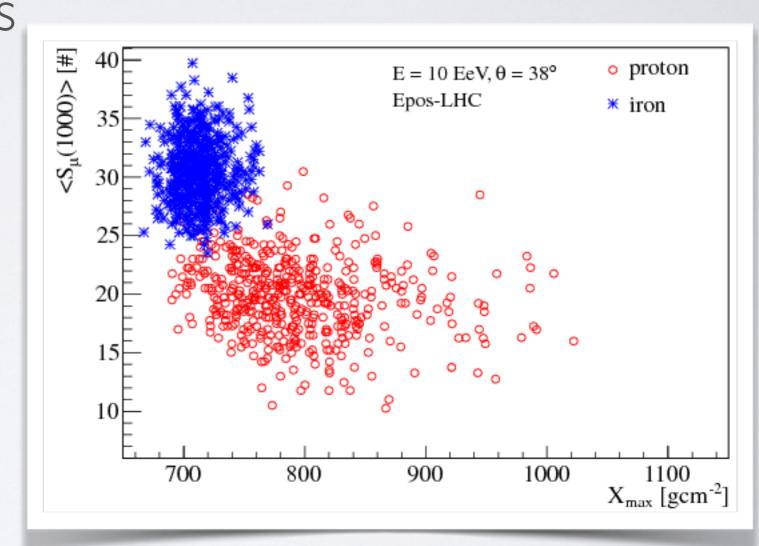
PARTICLE COUNTERS

miguel penn state

MOTIVATION

Are particle counters
 the "only" way of
 verifying horizontal
 reconstruction?

 Doing physics with the prototype by measuring muons in



measuring muons in horizontal showers.

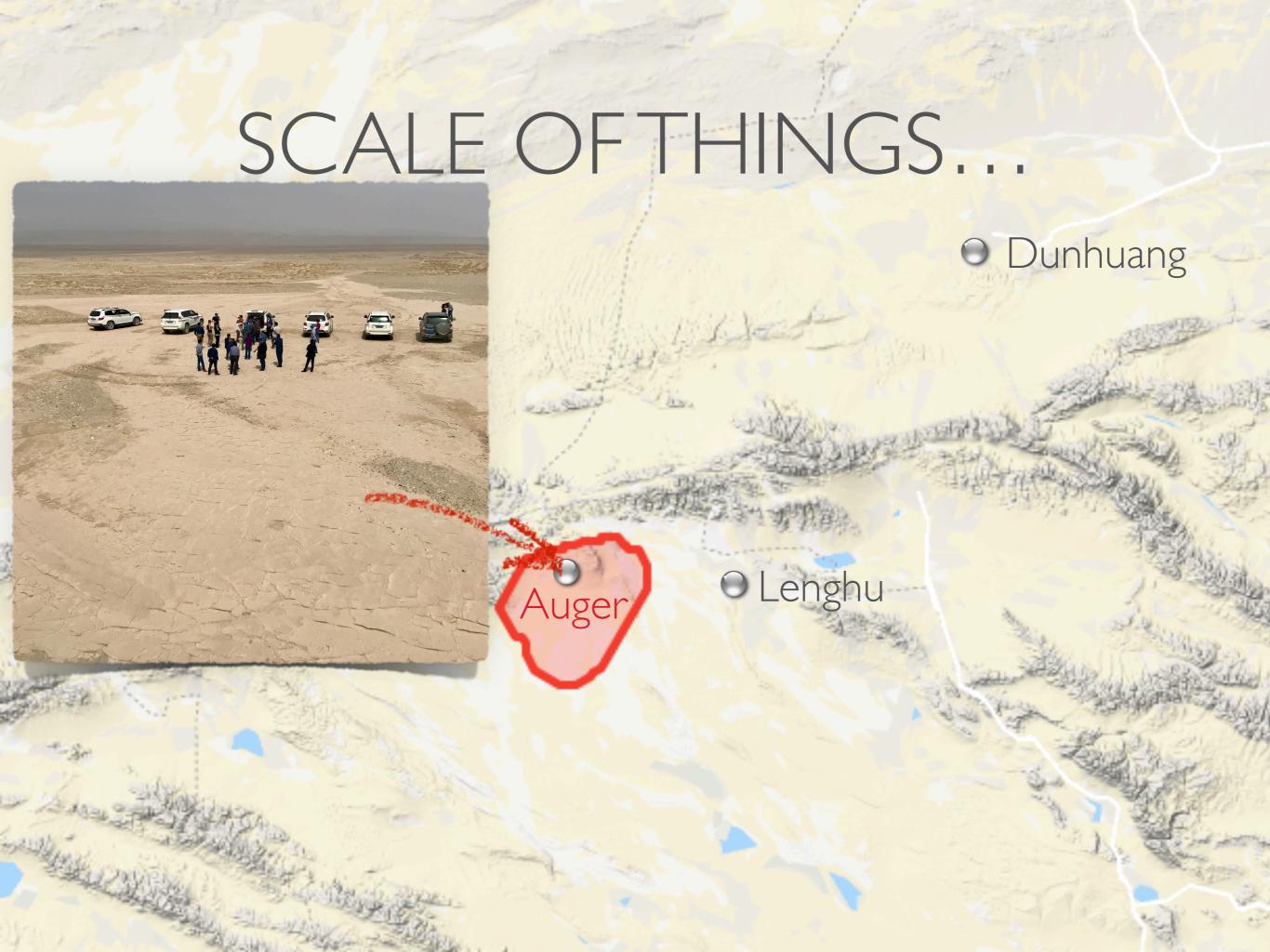
TANKS COMPONENTS

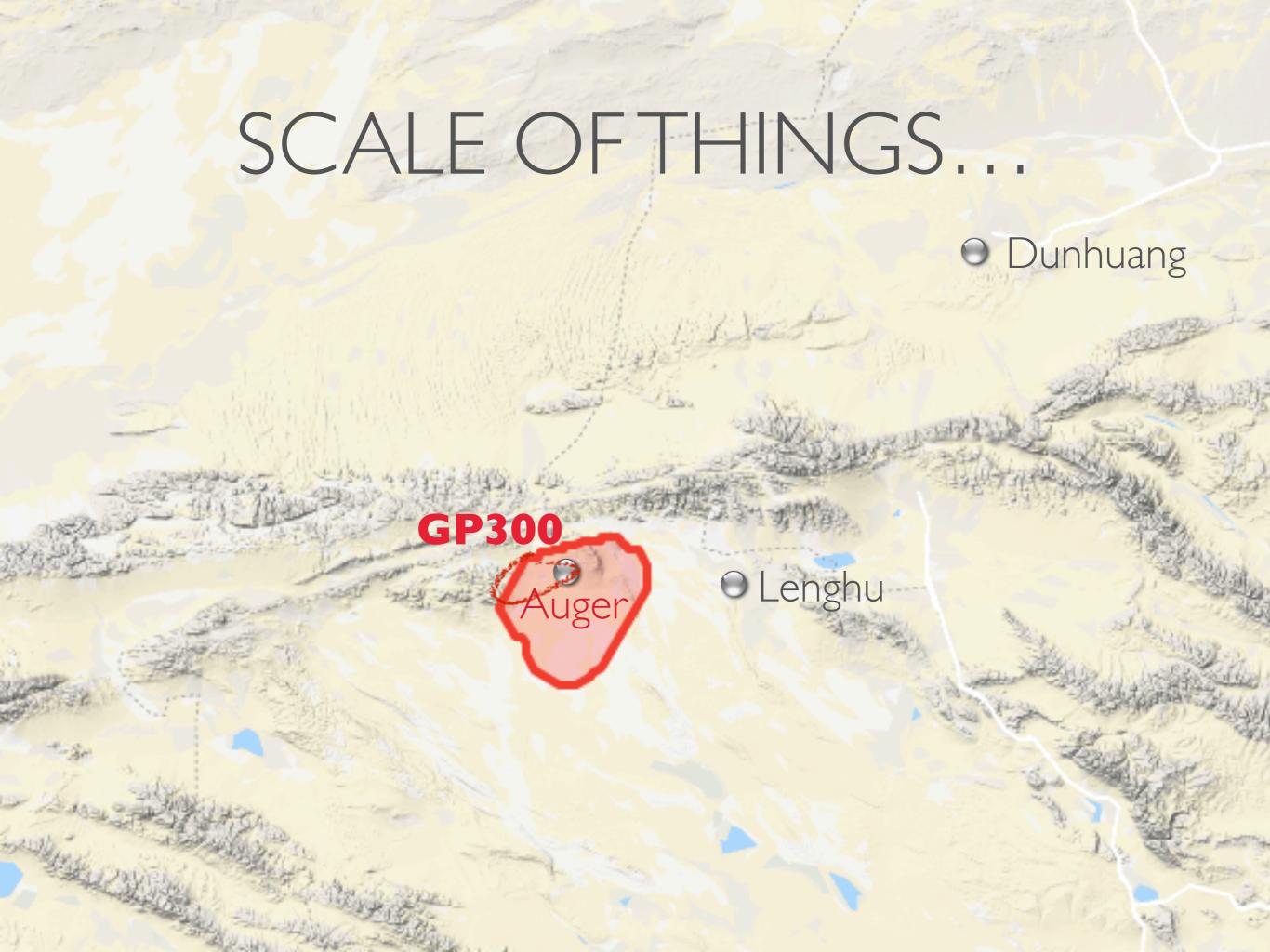
- Tanks
- Bladders
- PMTs (or SiPMs?)
- Read out/electronics
- Power
- Comms
- DAQ

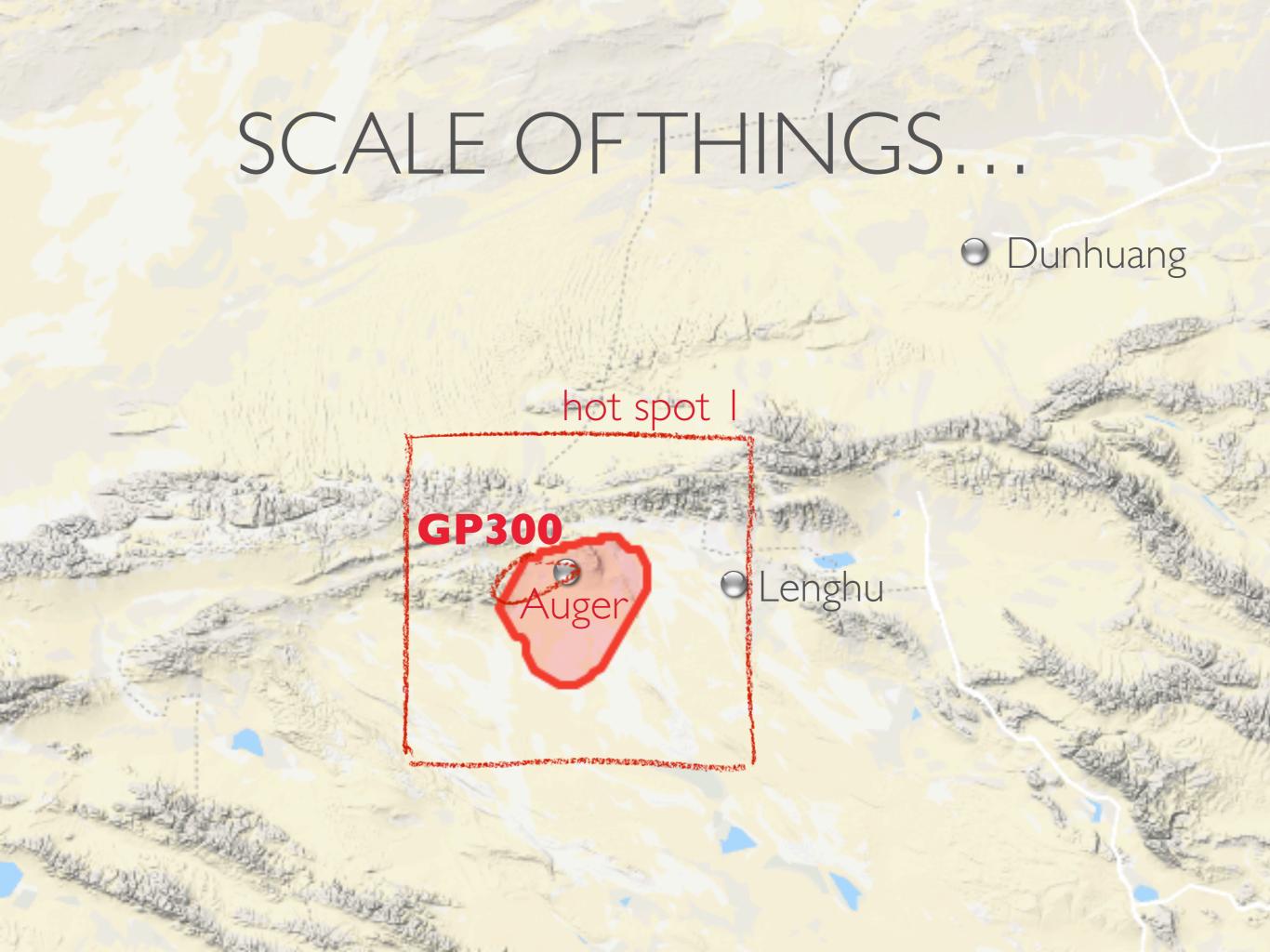
Conclusions: I. We need more friends!

2. Strong local participation!









PRACTICAL ISSUES (FOOD FOR THOUGHTS)

Tank deployment in the desert
 (=> concrete pools?)





Water purification + delivery

PRACTICAL ISSUES (FOOD FOR THOUGHTS)

- Tank deployment in the desert
 (=> concrete pools?)
- Water purification + delivery
- (I'm assuming electronics+comms+DAQ could find a similar solution to the antennas.)

TIMELINE/PLAN

Start simulations:

- ~ Jun Sep, 2019
- Determine energy ranges
- Define array configuration
- Define detector design
- Setup first prototypes ~ Summer 2020
 Volunteers, contributors, supporters are welcome!

Time for open discussions + ideas + suggestions (questions too)