



Remote laboratories

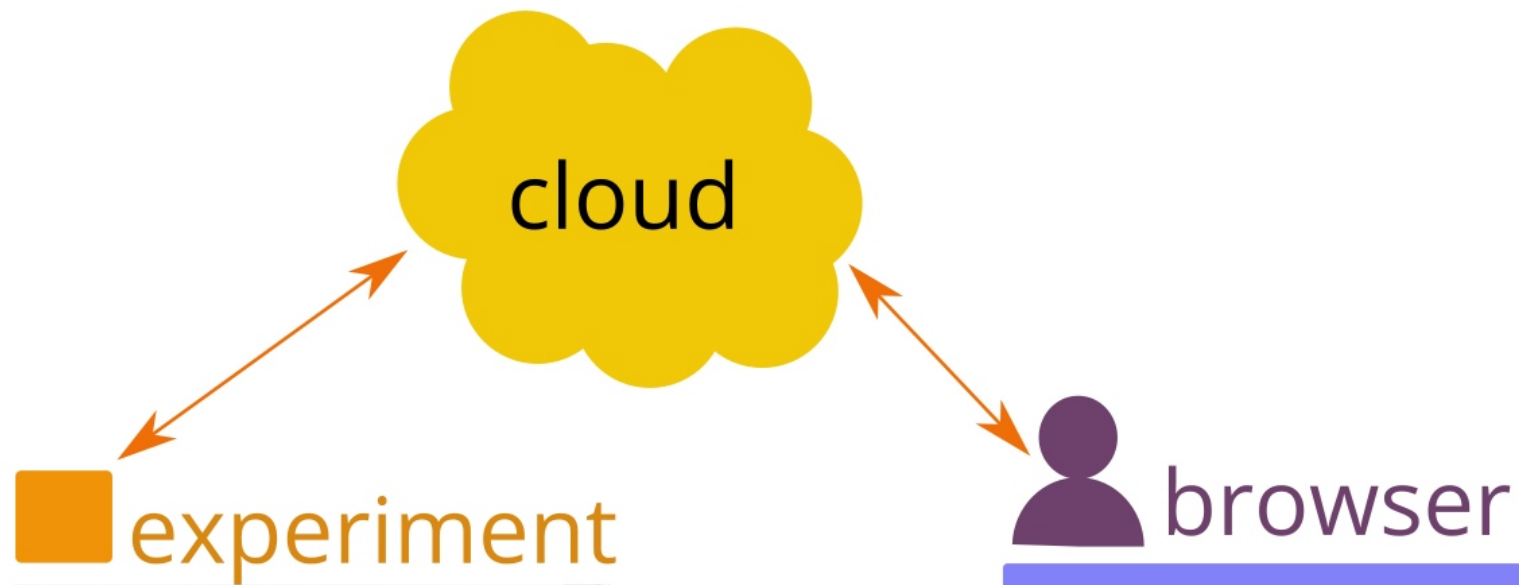
Von Instrumentalismus

nach Posthumanismus

Prof Timothy D. Drysdale

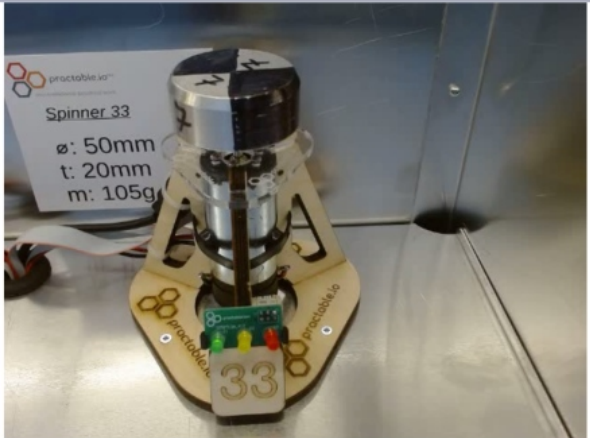
Chair of Technology Enhanced Science Education
School of Engineering, University of Edinburgh, Scotland

bit.ly/tdd212



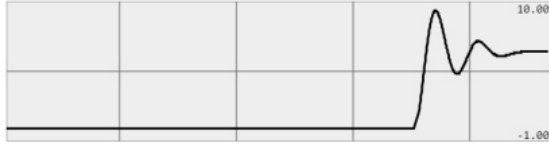
Remote Lab: Spinning Disk Menu ▾ Layout ▾ Settings ▾ Help

Session ends in: 84 min : 12 secs



Spinner_33
ø: 50mm
t: 20mm
m: 105g

33



Current mode: position (PID)

Exit mode

Step size (0 - 6.00 rad) 6 Stop

K_p 1 K_i 0 K_d 0 Reset



2021

David Reid, Andrew Brown, Calum Melrose, Doug Halley, Iain Gold, Alasdair Christie, Imogen Heard, Sally Morgan, Chris Sturgeon, Fraser Miller, Bruce Duncan, Pawel Sokolowski, Matt Tasker, Eck Kirkland, Central Estates, Aristides Kiprakis, Symon Podilchak, Maksim Kuznetvov; Funded by School of Engineering (Gareth Harrison, Conchúr Ó Brádaigh)



2022

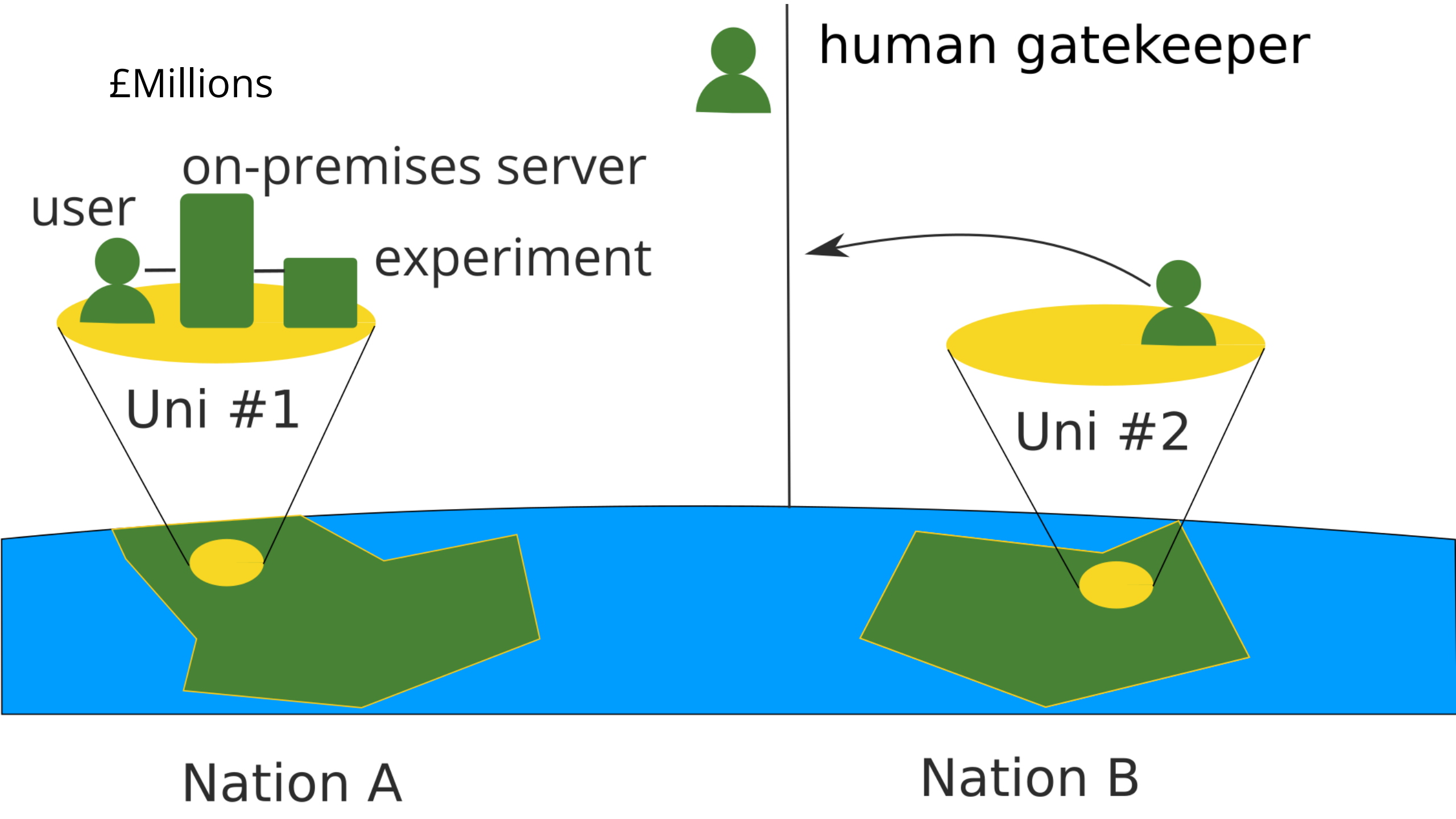
Online *complements*; does not replace in-person

Repartition to make best use of each mode

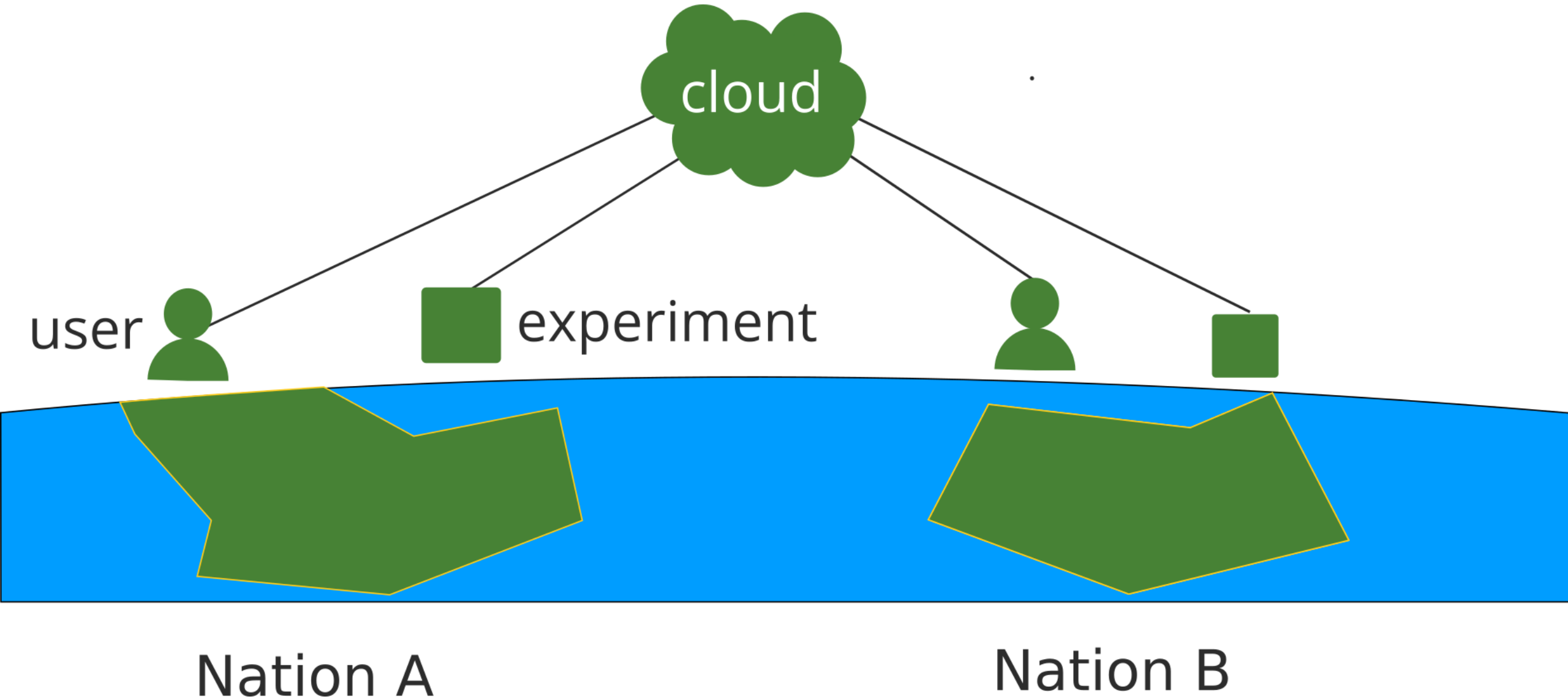
For both: adopt *critical post-humanist* approach
mixing both humanity & technology to achieve

- a sum greater than the parts,
- not bound by the limits of either bit.ly/tdd135

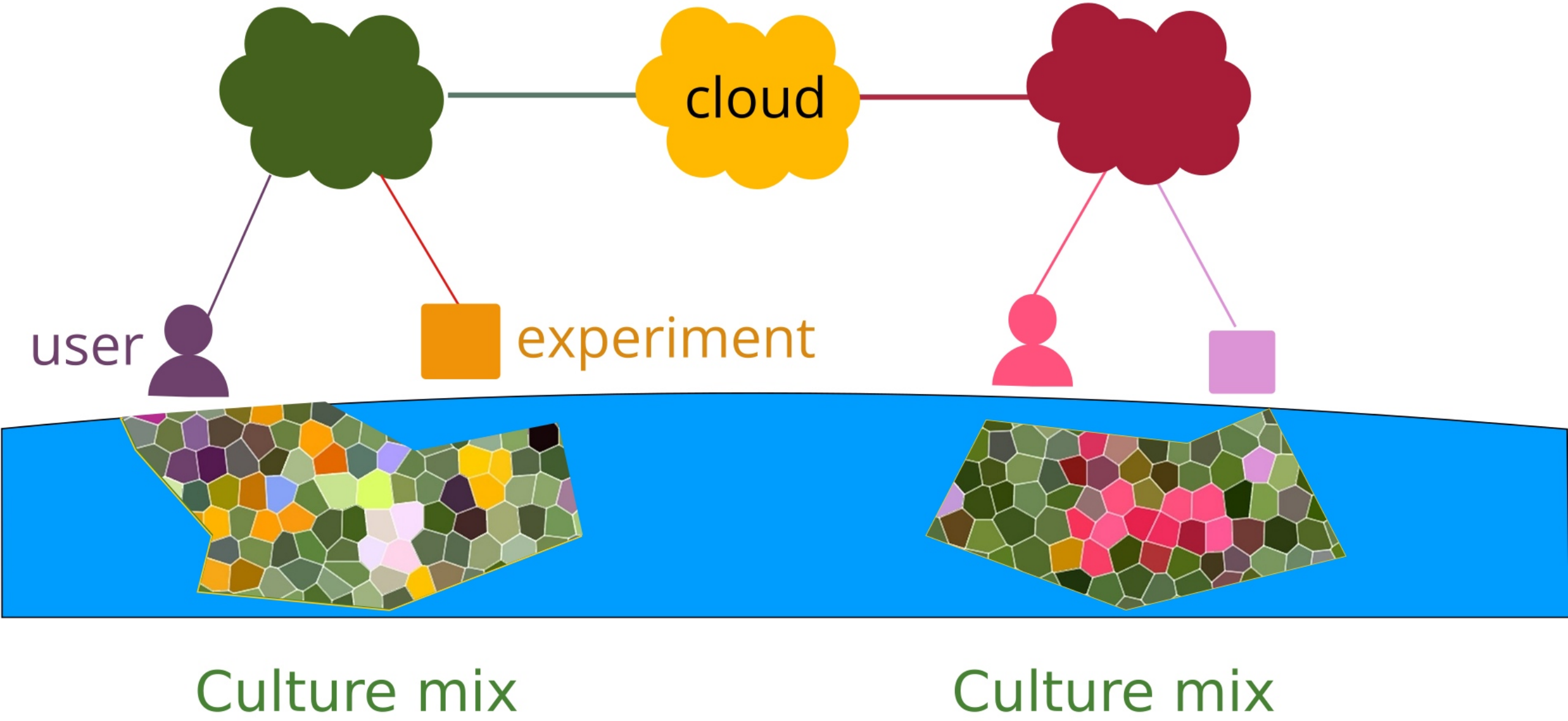
We're not using technology,
we're *collaborating* with it:
co-development with pedagogy becomes natural



One size fits no-one (commercial model)



Build it ourselves to reflect academic values



Educational Opportunities

Rich data stream making visible previously invisible interactions

Explorative rather than procedural experiences

Support design (divergent) as well as science (convergent)

Automated feedback to develop evaluative judgement

Authentic assessment

Student co-creation

Wide-open space to explore, publish, make impact

It's not mainstream yet

There's still a lot we don't know

What will NOT work for you?