what's Open lab's Purpose? (2)

↳ There are no intelligible instructions on the internet to build a lab.

↳ if there are, the instructions cannot be downloaded, modified, and $ republished.

↳ Everyone making labs globally are subjecting their success to one dude with one scope of skills & one budget.

 ↳ the people "dude" has experience w/ traditional labs at best. He knows new tech is viable but must trial the tech before implementing, causing a need for a trial space, trial people, and such trial is NOT part of the budget

↳ A million young experts have temptation to omit the $50,K cnc mill in favor of 50 good tools to expand the possibilities. They have authority & budget but no time to develop 50 decisions. Openlab combines the decisions

↳ Today's matrix of success is too costly

↳ successes are made by genius "makers" constantly & never written down. The cost of writing is immense:

 ↳ institutional cost: nobody gets paid to record knowledge in technical development. nobody gets budget to hire a writer.

 ↳ personal cost: the moment of breakthrough is the highest-demand time for productivity → breakthrough entices next step. Missing next step is COSTLY

What is the point of openlab? (1)

⮑ I instruct, and I receive 10,000 questions. Answers are accumulated here, allowing me to answer across time & space

⮑ I made huge efforts @ TAMU that were discarded in an incomplete state. To prevent this recurring ~~we must~~ I'm attempting to communicate a model, closer to a final concept than I can tell w/words

⮑ Big institutions can't pursue big ideas except wrapped in one word w/one model — ∮ form new building, one architect, one photo — the photo is believable b/c it ~~tras~~ is backed by known methods — ironwork, ~~steel~~ stonework, w/ skills & trades traditionally having cross-communication. But if the architect uses two novel skills/functions to generate one new plan it looks unbelievable and never gains support.

⮑ Build analogy to CNC mill — solve 10,000 problems w/one new change. (costly)

  big effort cost: numeric control & sensors
              gain: build 3D-stored creations
  openlab   cost: digital backbone, digital framework
              gain: build anything

⮑ this analogy tells why, (historically) adoption of a good new thing is slow & messy

Openlab Purpose? (3)

Technical experts can't help each other presently.

  Youtuber wishes to backup instruction w/documentation - How?
    ↳ imitate openlab as a method of distributing docs, or photos

  Grad-level engineer publishes journal paper & wishes to instead
    publish highly accessible instruction with video embedded - How?
    ↳ imitate openlab as a method to publish

  Engineer shares free & open model, extremely valuable but
    value cannot be captured unless it's accompanied by a
    new fabrication technique and documentation thereof. - How?
    ↳ imitate openlab as a method of documentation

  Technician discovers vastly better way to do a job but
    has no audience or language of explaining — Do what?
    ↳ add comments in openlab videos, CAD posts, github repos
      ↳ simultaneously discover others in community to
      discuss & refine ideas

There is no way for me, as I help students @ University, to discover
a hidden safety risk in a new tech area which I am operating
and recurringly demonstrating. By publishing methods for a
large audience, many brains are reviewing my work & have a
pathway to communicate problems — then I can read comments,
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