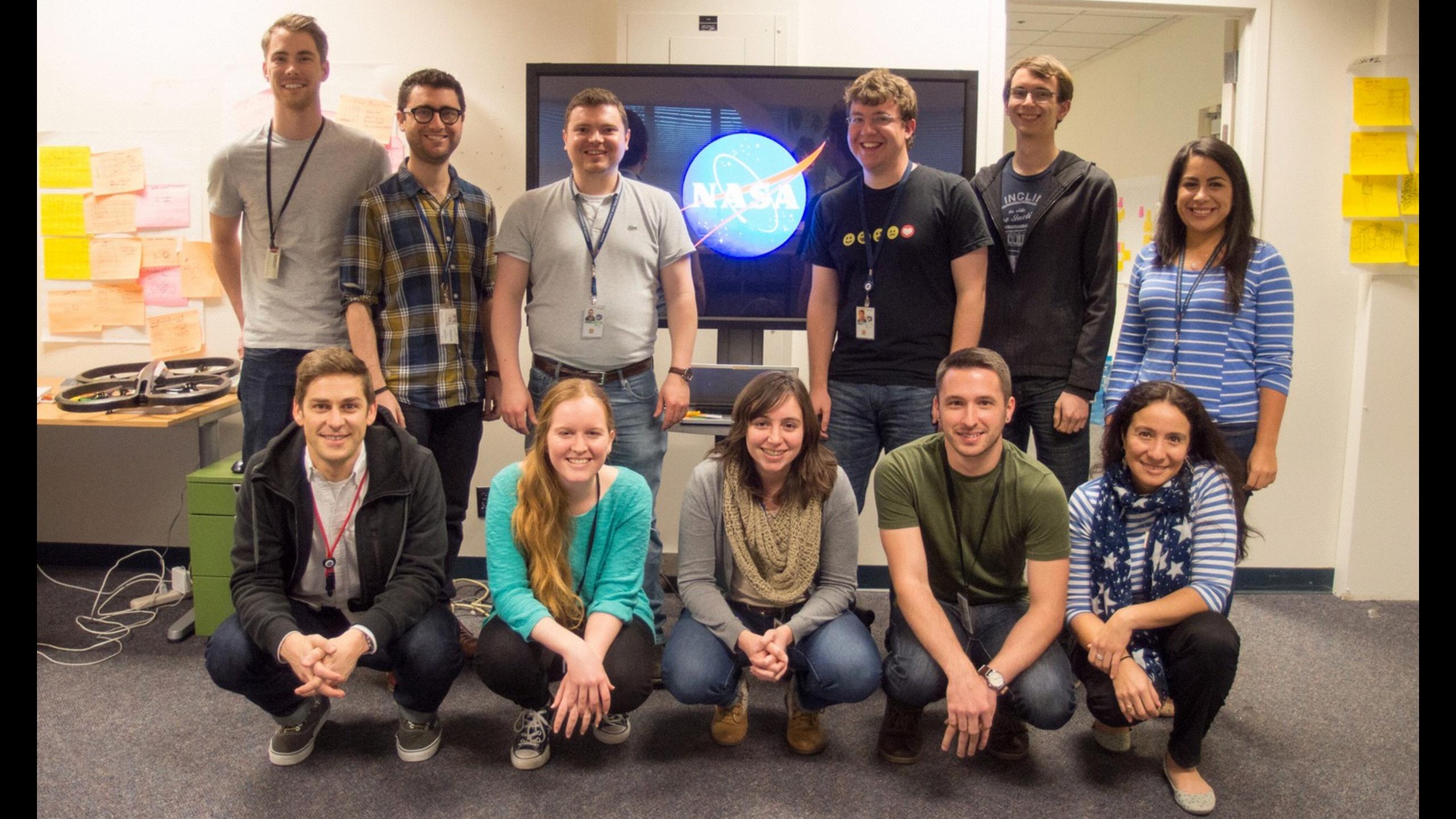
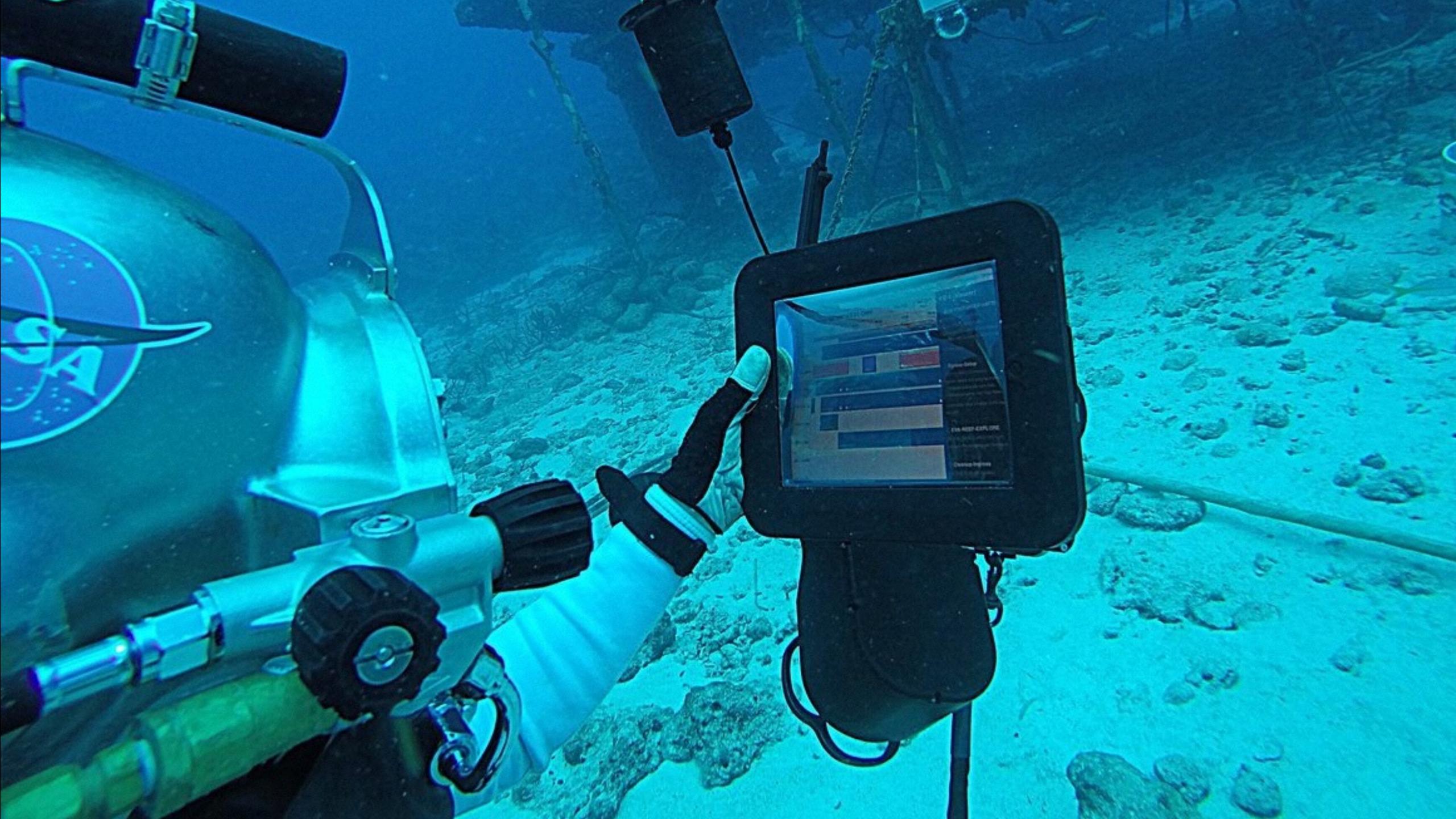
Practicing UX at NASA:

My experiences practicing UX in an engineering driven org and thoughts on how to communicate the value of user research, usability, and design to skeptics.

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UX at NASA: We exist! But we're not well known.

NASA: Engineering and Science Driven.

Operational Mindset. Research also a big focus.



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UX, design, and user research are generally foreign concepts to NASA as a whole, only known to small parts of the agency.

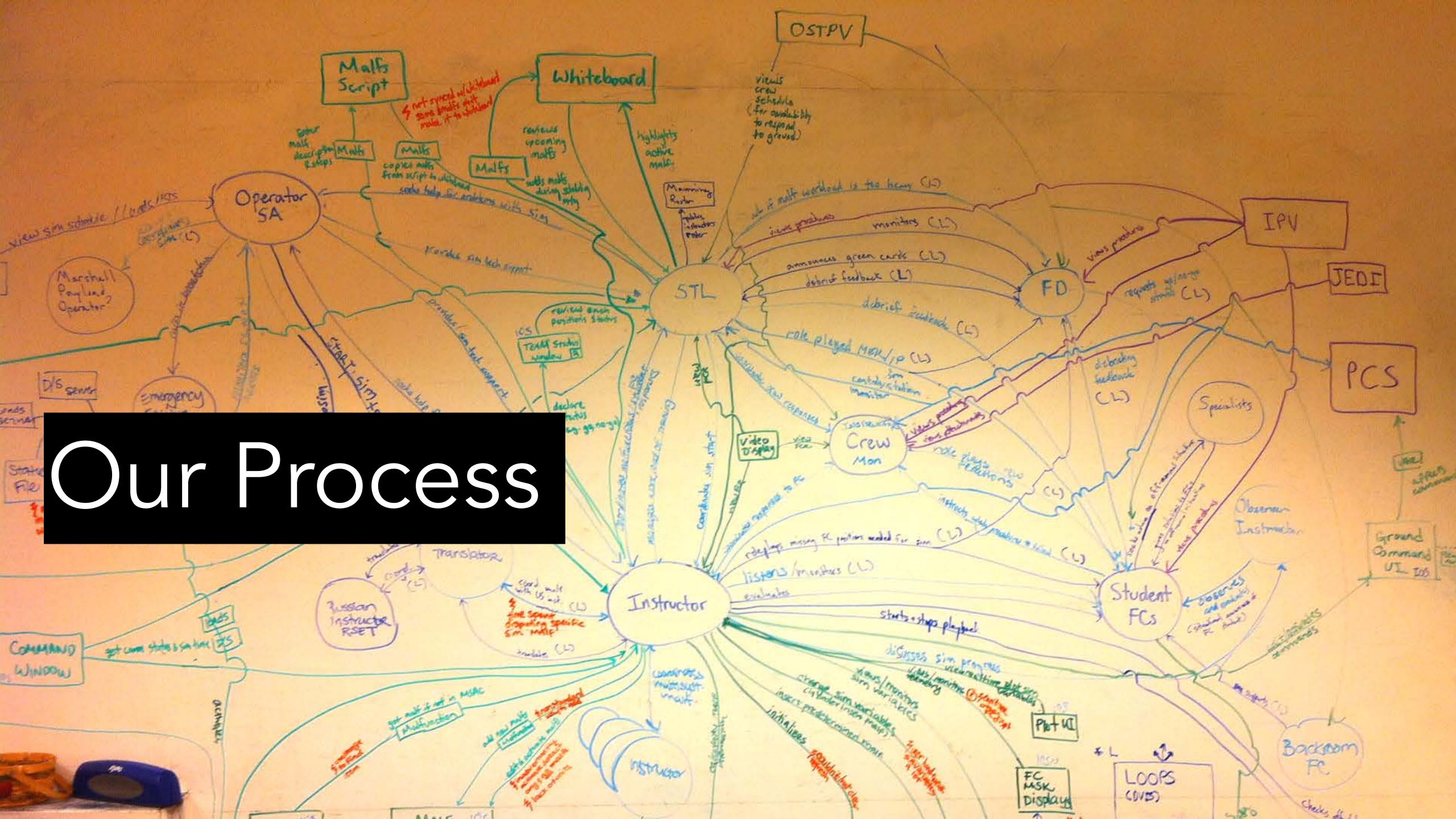
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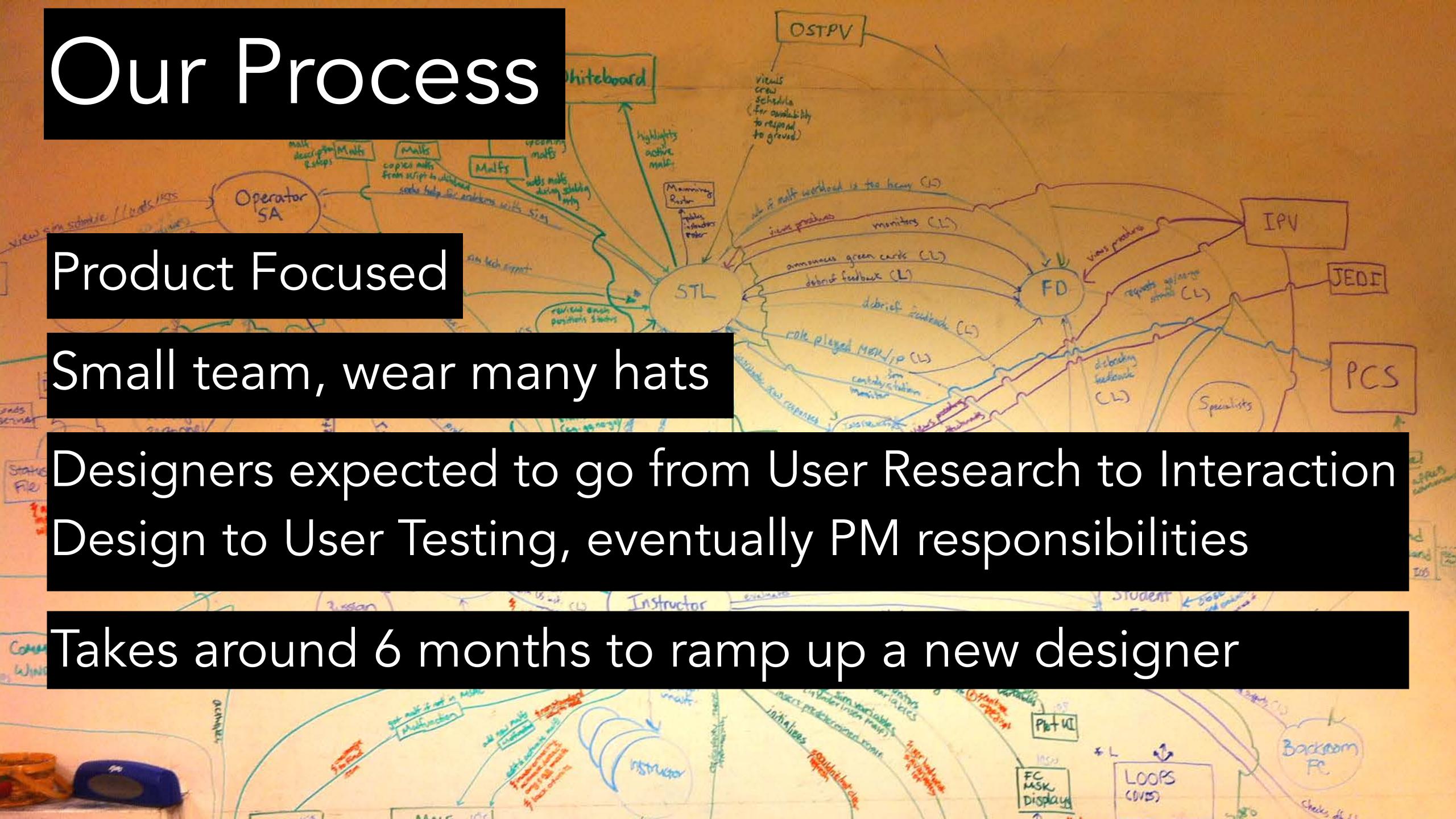
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We tend to straddle the line between applied research and building operational products.





Our research strategy tends to go in cycles





High level design ideas, iterative design process, paper prototypes, and then wireframes

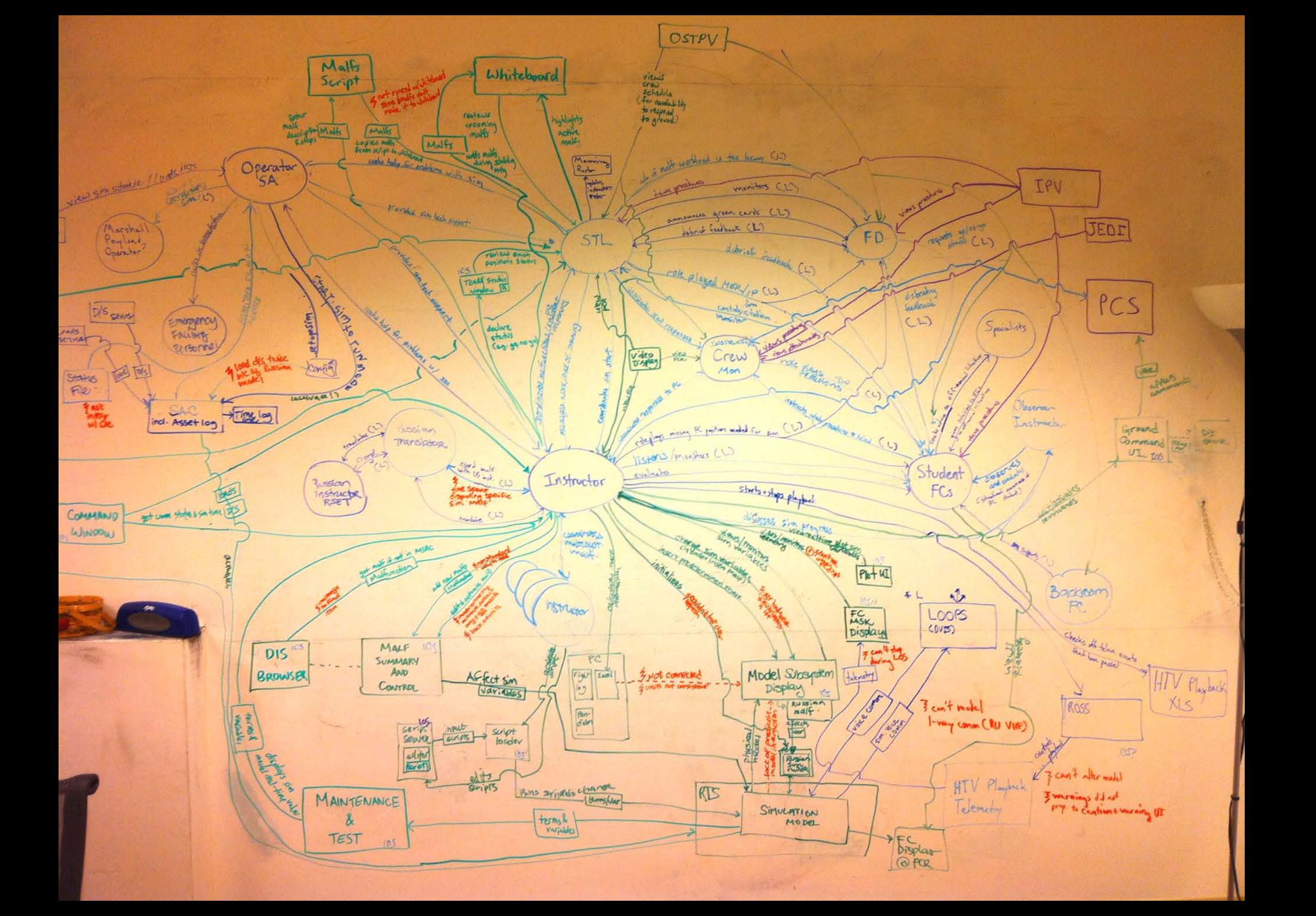
Backsom

LOOPS

COVED

FCMSK

Iterative, with increasing levels of fidelity









Common UX Communication Challenges I've Faced

Product is too simple to be powerful.

We have a tool that does that already.

We're seen as software developers inside the agency.

Customers don't exactly know why we're successful, but they know we do really good work.

Why do we need something to be walk up and use? We have to train these users anyway.

Resistance to change workflow processes.

During user research, sometimes seen as auditors or inspectors.

UX/Design seen purely as the aesthetics.

UX Designers being confused for Front-end developers.

UX seen as art vs. a practice

What are effective ways to solving this?

1. Learn and speak the user's vocabulary when discussing findings.

2. Align UX goals to efficiency gains

3. Show data and domain rationale for design decisions (Does not need to be quantitative!)

4. Build up user advocacy from the ground up

5. Build up a brand identity for your team

6. If you can't change the process, have your product automate or mitigate the pain points.

7. Sometimes building a better usable product does not get you in the door, it has to do more as well. Use these features to distinguish yourself.

8. If the user research points to a clear area but you are not getting traction, just build a prototype

Finally

You're not going to be able to reach or have the time to educate everyone on UX, and that's OK.

Sometimes your products just need to speak for themselves.

They will eventually ask how your team does such awesome work.
And you will have your chance.

To turn that UX skeptic into a UX believer.

