

Engineering Art Design Lightning Talk

SDMAY23-04: Liz Fransen, Nathan Underwood, Tomas Elias, Ayden
Boehme, Shelby Murray, Winter Robertson
Advisor/Client: Rachel Shannon, Assistant Teaching Professor ECpE

About Us

Project Overview: Engineering Art

Create an interactive art exhibit displaying
the potential of a future in engineering

The Design Process

Design Thinking 'Double Diamond' Process Model

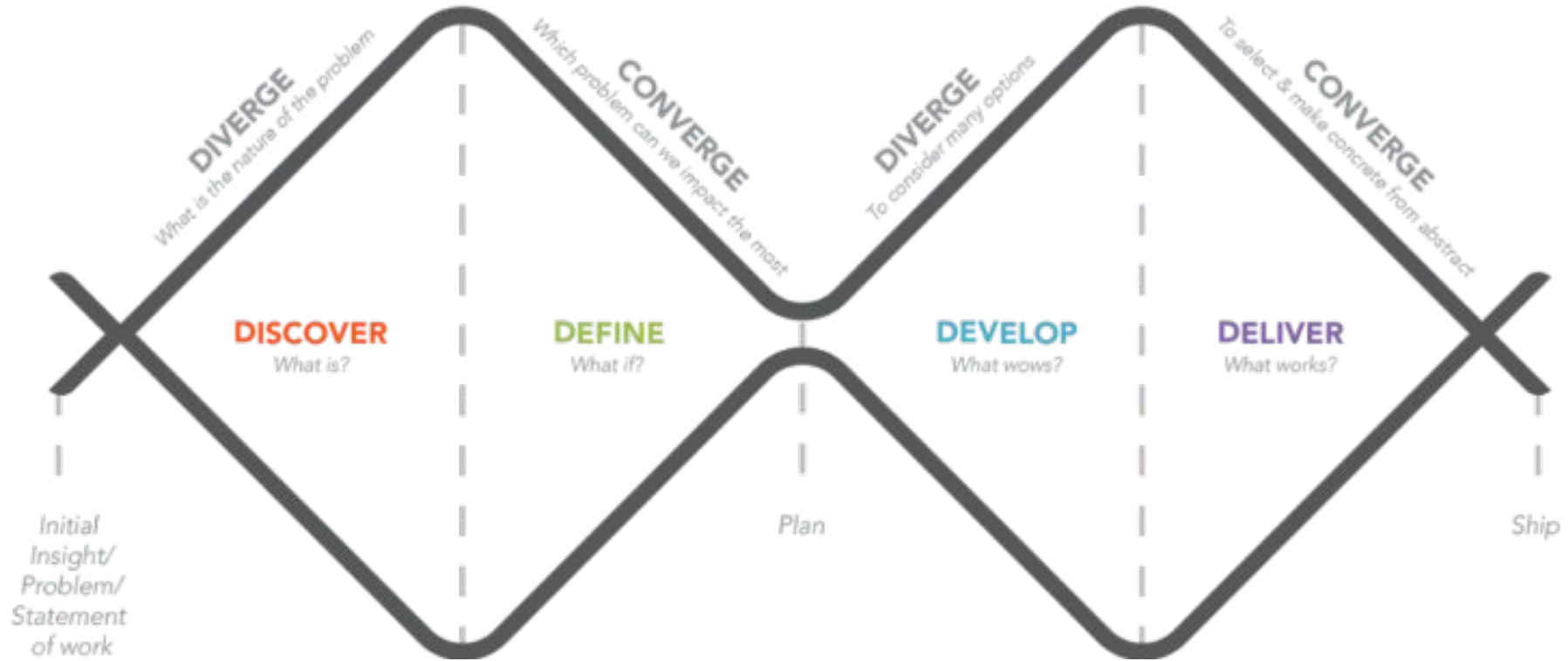
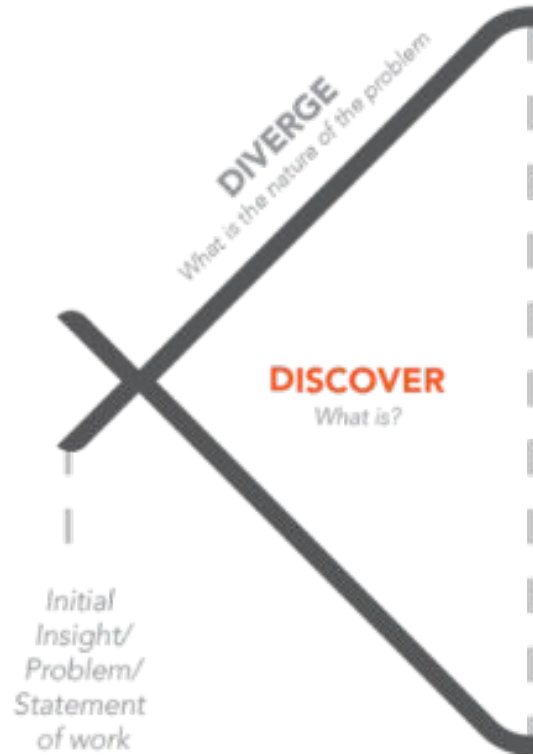


Image from:

<https://www.redspark.io/double-diamond-o-que-e-e-como-usar/>

Initial Brainstorming

Initial Brainstorming



Initial Brainstorming: 21st Century Engineering Challenges

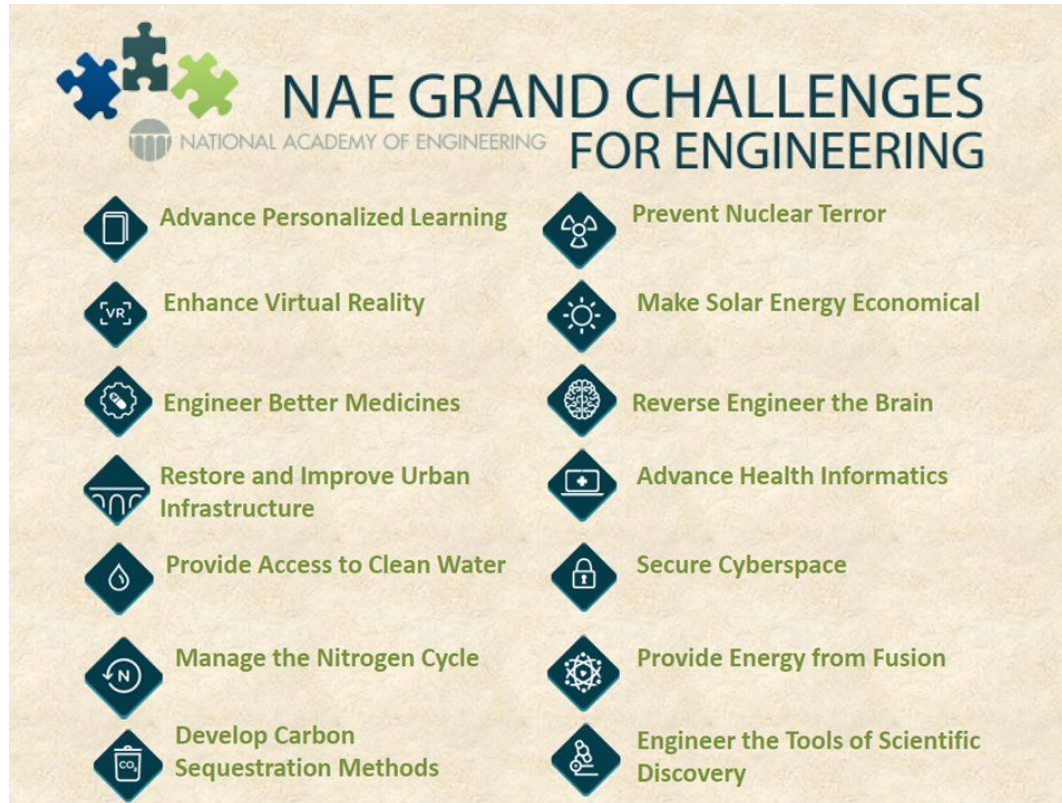


Image From

<https://twitter.com/kirkdborne/status/738740833290190848>

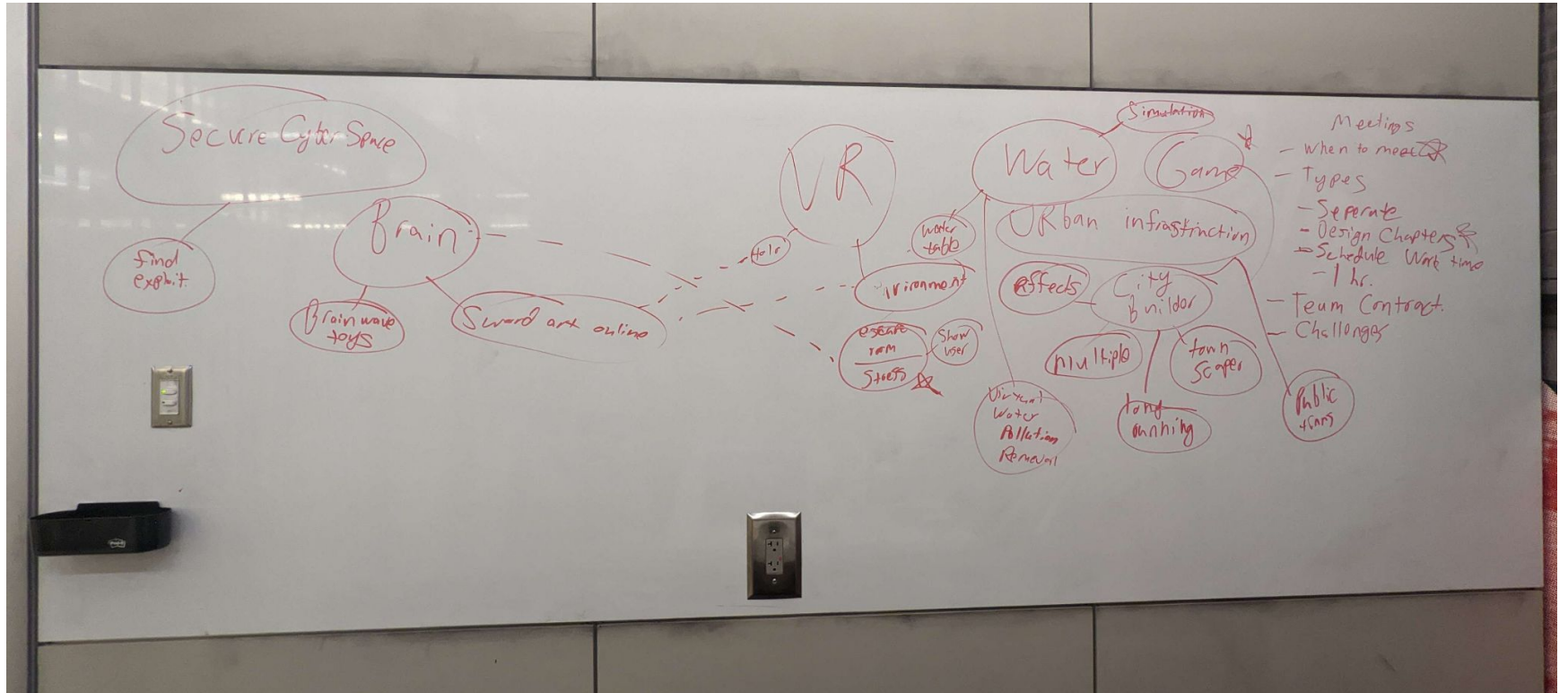


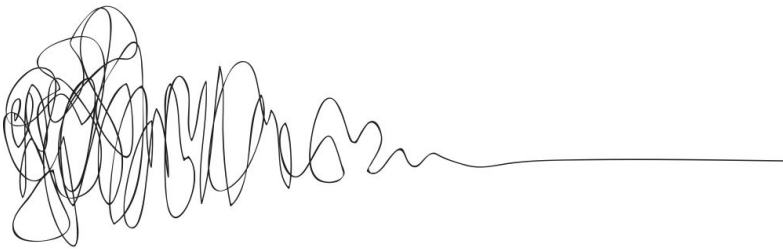
Image taken from our initial brainstorming session

Initial Brainstorming

- 21st Century Engineering Challenges
- Whiteboarding
- Design Scribble

Noise / Uncertainty / Patterns / Insights

Clarity / Focus



Research & Synthesis

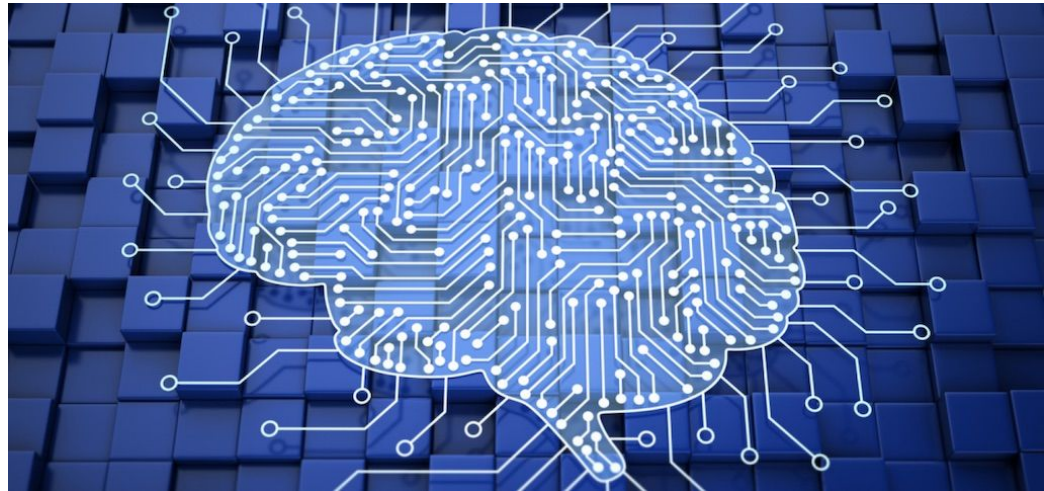
Concept / Prototype

Design



What is Reverse Engineering the Brain Challenge?

- Why you should reverse engineer the brain?
- What are the applications of this information?
- What is needed to reverse-engineer the brain?



Discover

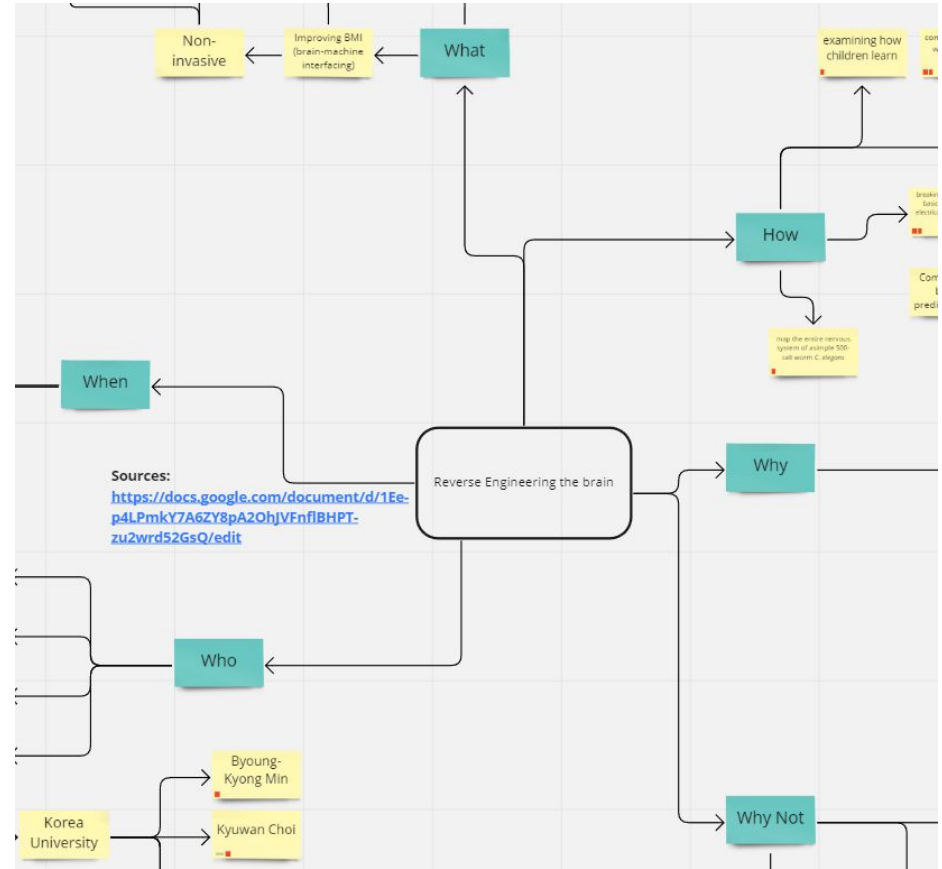
Primary Research

- Interviews with experts in different related fields (Machine Learning, Virtual Reality, etc)
- Fields ranging from Engineering to Biology
- Museum visits
- Interactive displays on campus



Secondary Research

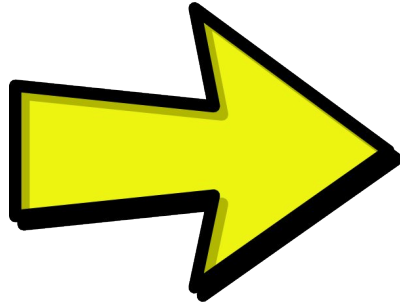
- Narrowed Down to a specific challenge
- Used Miro for mind map
- 6 “reporter” questions



Define

Define

Reverse
Engineering
the Brain

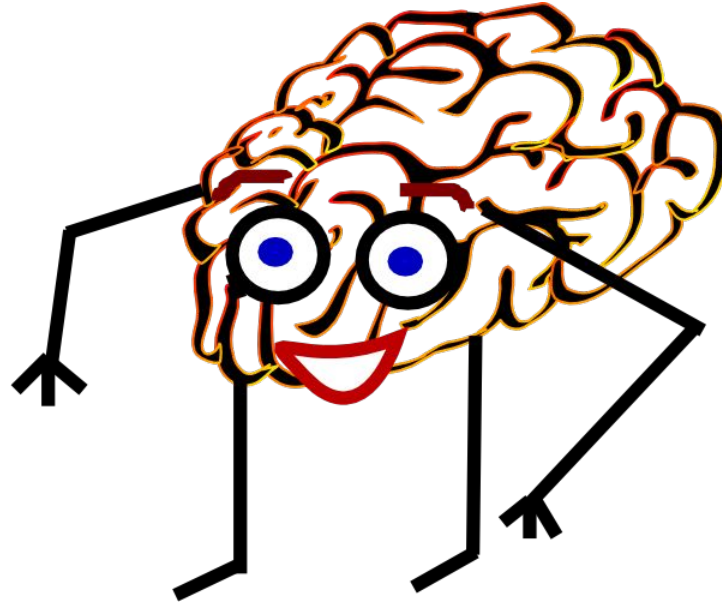
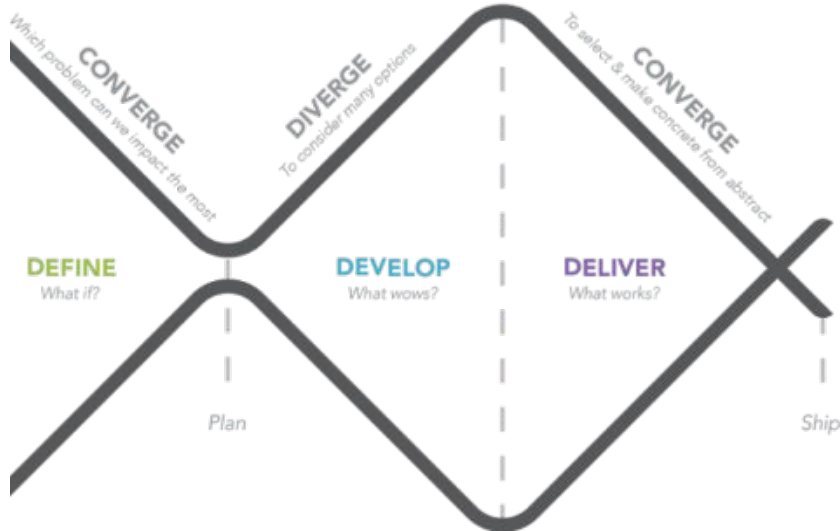


Improve AI

To Focus our
Project...

What's Next?

- “Deep Diving” into AI
- Generate Possible Projects
- Develop
- Deliver



Questions?
