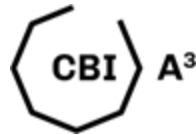



Week 2 Presentation Requirements





Conveying ideas - work in progress

Showing diversity of thinking and possibilities from the week

A group of students is gathered around a table in a workshop or lab setting. A man in a striped sweater is pointing at a laptop on the table, which has a blue cover with a logo. The table is cluttered with various electronic components, including wires, a breadboard, and a small circuit board. Other students are looking on, some with interest and some with skepticism. In the background, there are red triangular flags hanging from the ceiling and a whiteboard with some diagrams. The overall atmosphere is one of collaborative learning and problem-solving.

How will we do this?...

1. **Pecha Kucha** - Verbal and visual ideas snapshot
2. **SIIC Expo** - Prototype showcase and feedback

1. Pecha Kucha style...

Each person will present 1 x idea for different opportunity cards
E.g. 3 in team, 3 opportunity cards with an idea per card



1. Pecha Kucha style...

5 x 20 second slides:

1. Problem challenge
2. What is the idea/intervention
3. How does it work (cover futures, or deep tech)
4. Assumptions
5. Value created, addressing problem

1. Pecha Kucha style...



Pdf format

Share via slack channel #submissions

Upload by 10:00am Friday (latest!)

2. SIIC Expo

Show at your "Expo booth" your range of ideas via prototypes and System Intervention - Idea Capture sheets.



2. SIIC Expo

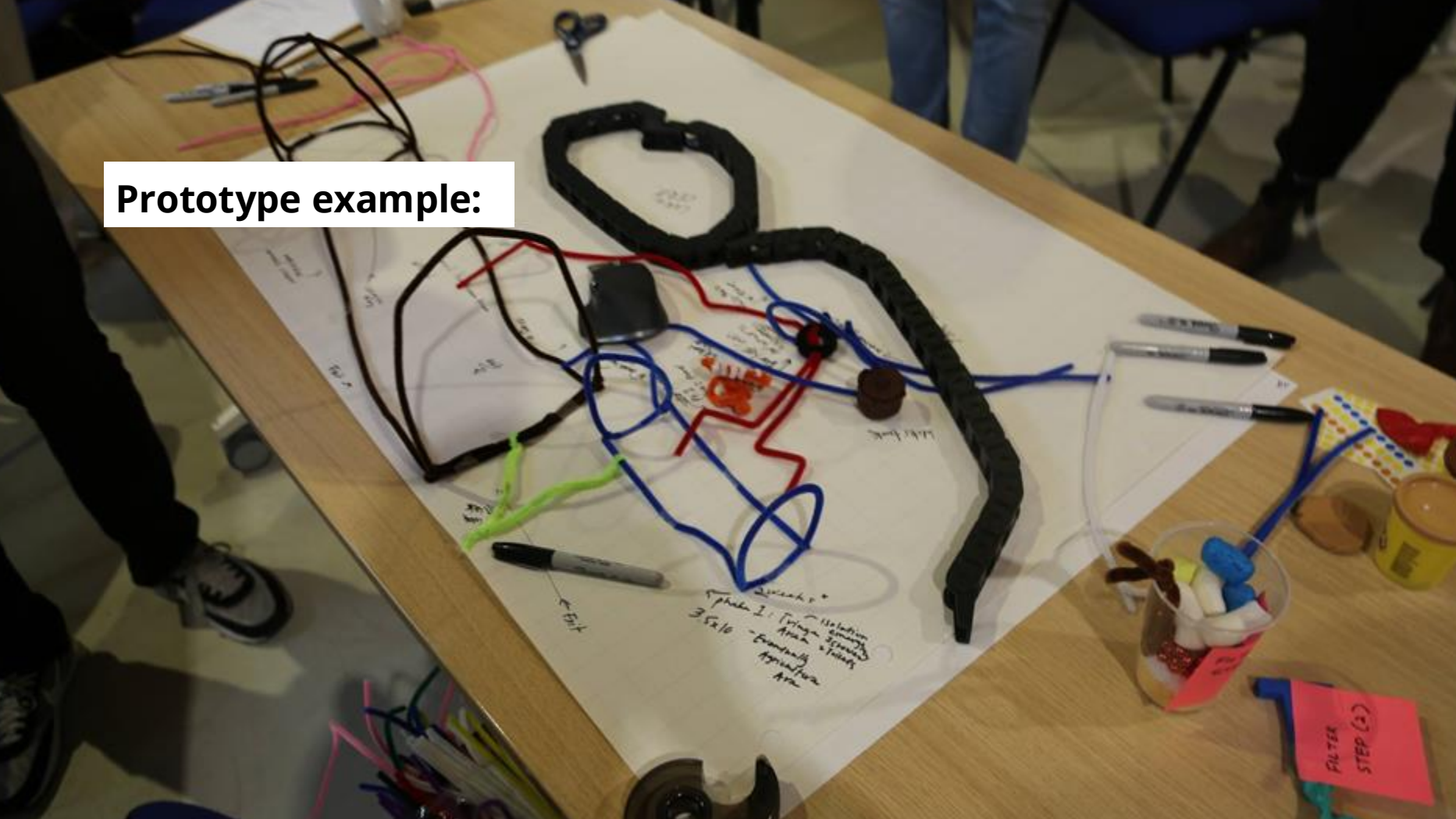
Include the ideas presented in the Pecha Kucha + any other ideas you would like feedback on.

1. A low resolution **prototype** for each SIIC 'card', showing both the intervention idea and how it fits in a system

2. Fill in ALL field prompts of the **SIIC template**

3. A method for collecting **feedback**

Prototype example:



Sketch 2
Alpha 1: [unclear] Area
3.5x10
Resolution [unclear] Area

FILTER
STEP (2)

SIIC example:

SYSTEMS INTERVENTION - IDEA CAPTURE



Opportunity/Challenge: Emerging Contaminants in natural water systems

DESCRIBE YOUR INTERVENTION:

Imagine a water system where naturally occurring bacteria, genetically engineered for specific contaminant breakdown, autonomously purify water. These microbes would be deployed in rivers, reservoirs and even city water systems, creating a living network of environmental cleanup crews that adapt and respond to pollution in real-time.

How would it work?

1. Design and Deployment of Microbes

- using CRISPR gene - editing tech and synthetic biology to target specific contaminants
- each microbe is designed to metabolize or break down a particular contaminant.
- these microbes would be distributed at key points of the water systems

2. Autonomous Biofiltration Networks

- microbes are linked by nanotech-based sensors that can detect contamination levels and activate microbial response as needed
- AI driven central system collects sensor data (self sustain network)
- safety mechanisms ("kill switch") implementation

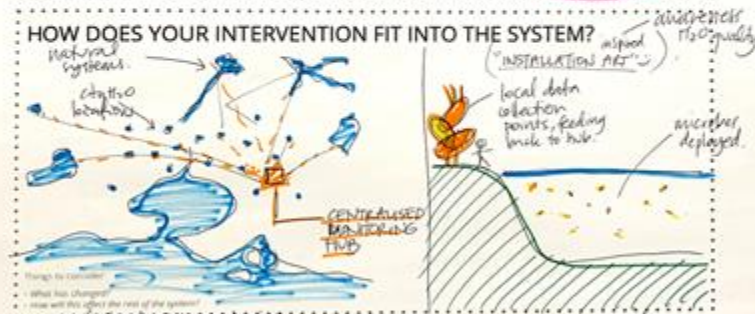
Things to consider:
- How does it work?
- Who uses it?
- Is there any technology you want to use?



Benefits:

- approx impact calculations
 - constant real-time purification
 - scalability and adaptability
 - reduced energy costs
- by 2050 - \$500 bn
of pharmaceuticals
removed!

HOW DOES YOUR INTERVENTION FIT INTO THE SYSTEM?



Potential Consequences & Side Effects:

- Ecological disruption if engineered microbes alter natural ecosystems
- Health risks from unintended ingestion

Limitations:

- Complexity of Bioengineering
- Containment Challenges
- Regulatory Hurdles

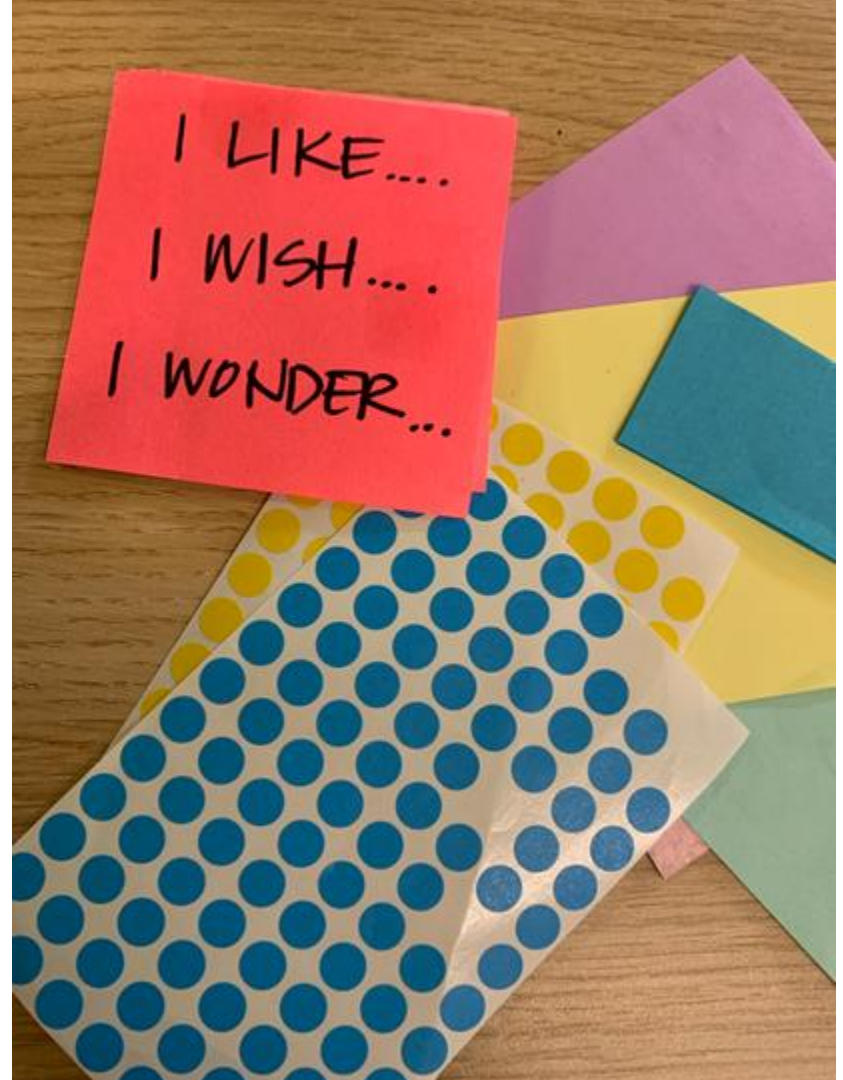
Assumptions:

- Effectiveness of microbes
- Adaptability
- Public acceptance and regulatory approval

CREATORS: Gara x Chris

Who was the super awesome creator of this idea??

**Create your own
way of collecting
feedback:**



Format:

2 x rounds to showcase...

A) Pecha Kucha (20-25 mins)

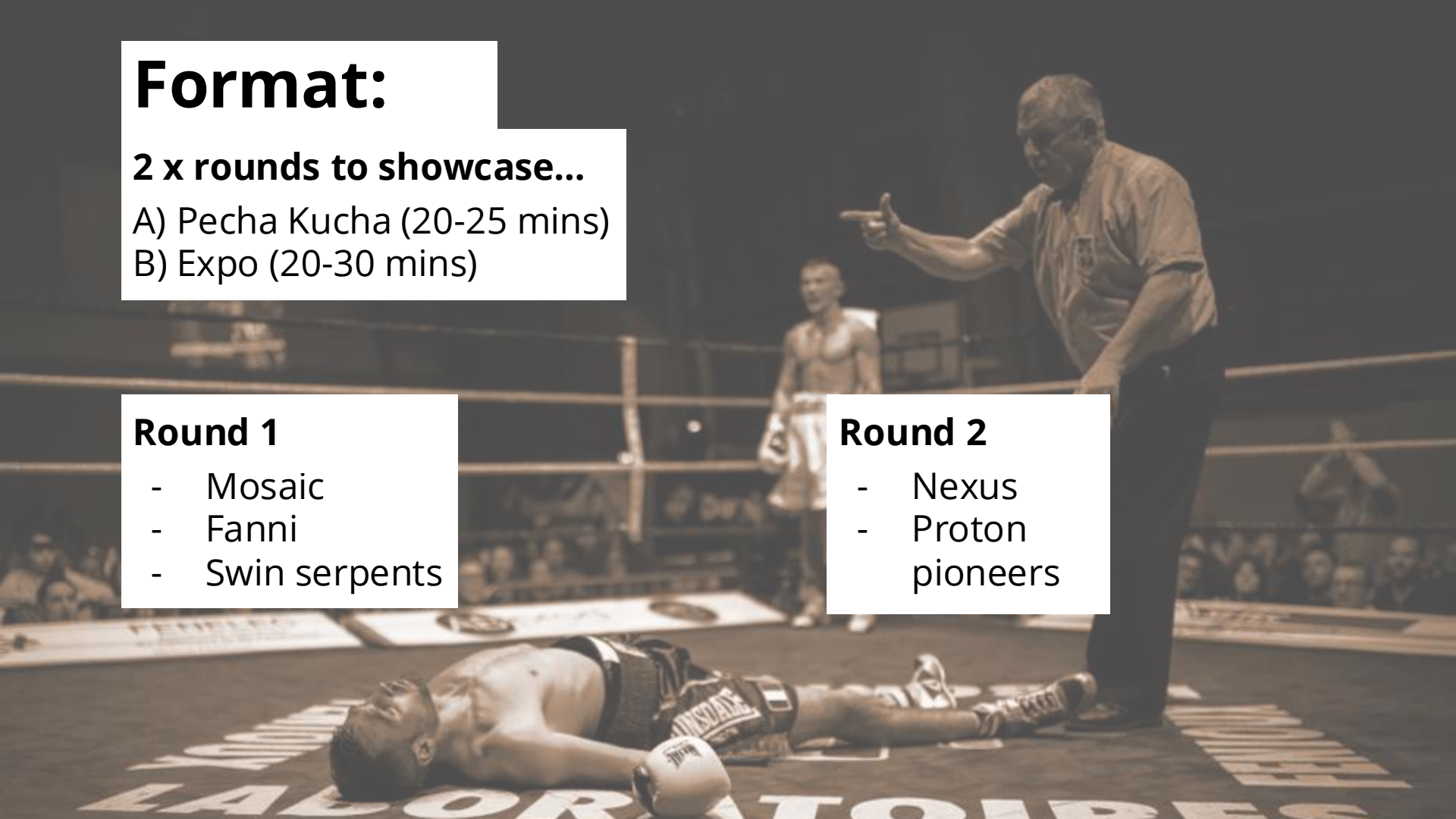
B) Expo (20-30 mins)

Round 1

- Mosaic
- Fanni
- Swin serpents

Round 2

- Nexus
- Proton pioneers



Expo

An indoor expo booth with a table displaying informational materials. A person in a dark jacket is looking at the materials. The table has a laptop, a CD-ROM, a diagram, and a photograph of a telescope. The background shows other booth displays and people.

Must be in the open space - configure tables, whiteboards, etc.