

Design Challenge: Design an earthquake-proof apartment building

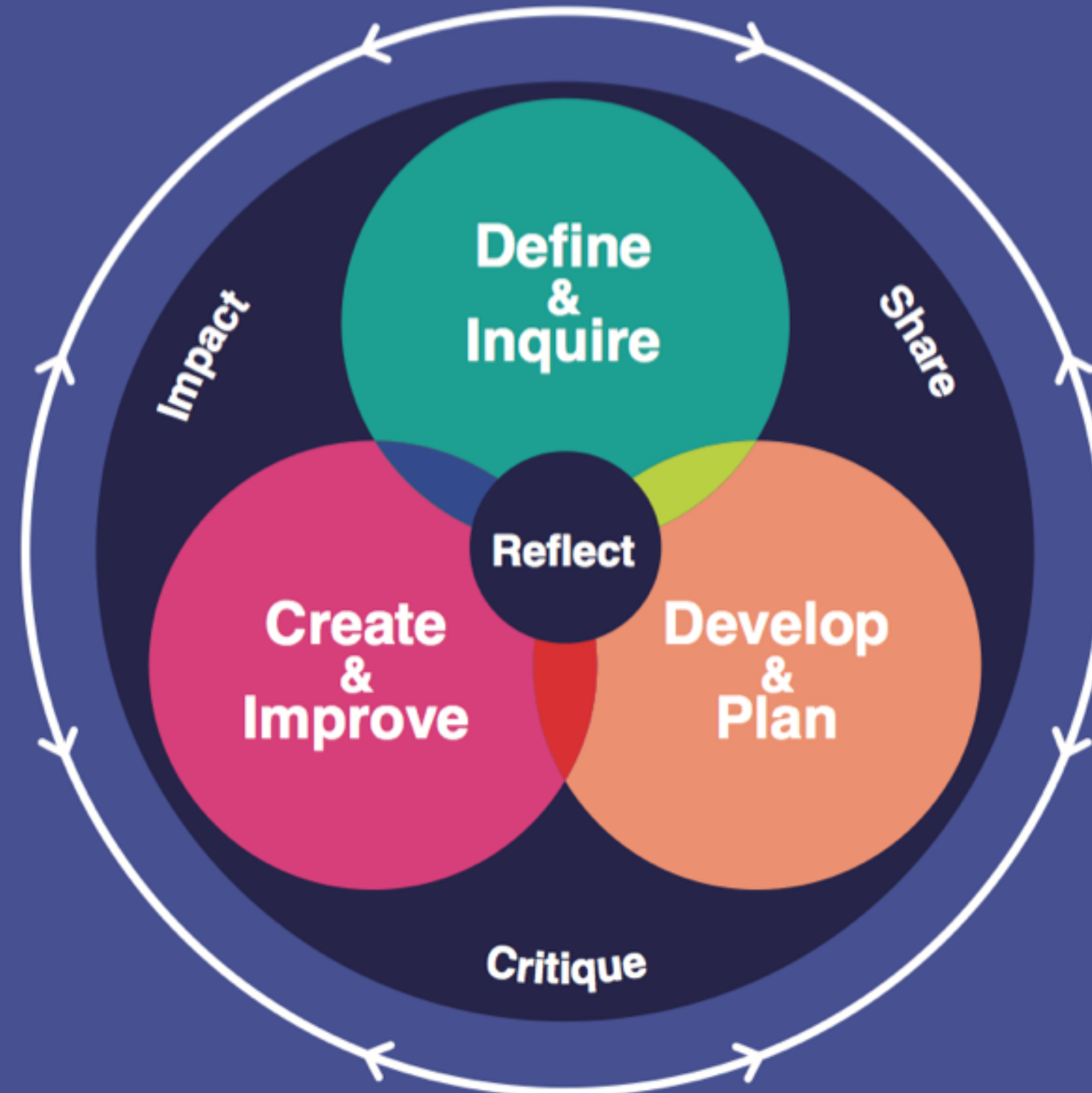


Will it withstand
Mr. Jerry's
Earthquake test?

ISB Design Process

What impact does your design have on people & the world?

What is the problem & what do you need to know to get started?



Constantly improve and refine your design through testing & feedback

Sketching helps you to plan & communicate ideas to yourself & others



**Define
&
Inquire**

Must be 3 floors high

Must be minimum 30cm high

You may only use the materials provided:

- card
- straws & wooden skewers
- modelling clay (no tape!)

What questions do you have?

Where can you find help or information?



**Develop
&
Plan**

Sketch and **label** a range of design ideas

Make your sketches as **clear** and **informative** as possible for future reference

Imagine somebody else had to work from your plans!

Your sketch must be approved before you begin construction



**Create
&
Improve**

Create a prototype

Make a model apartment block

Test it on the earthquake machine

Does it work?

What do you need to improve?

Sketch your improvements then make them!



Reflect

Use photographs to capture your process

Show the design problem

Demonstrate the steps you've taken

- Sketches
- Materials & techniques
- Successes & “failures”
- What will you focus on next lesson?

Upload your photos to **Seesaw**