



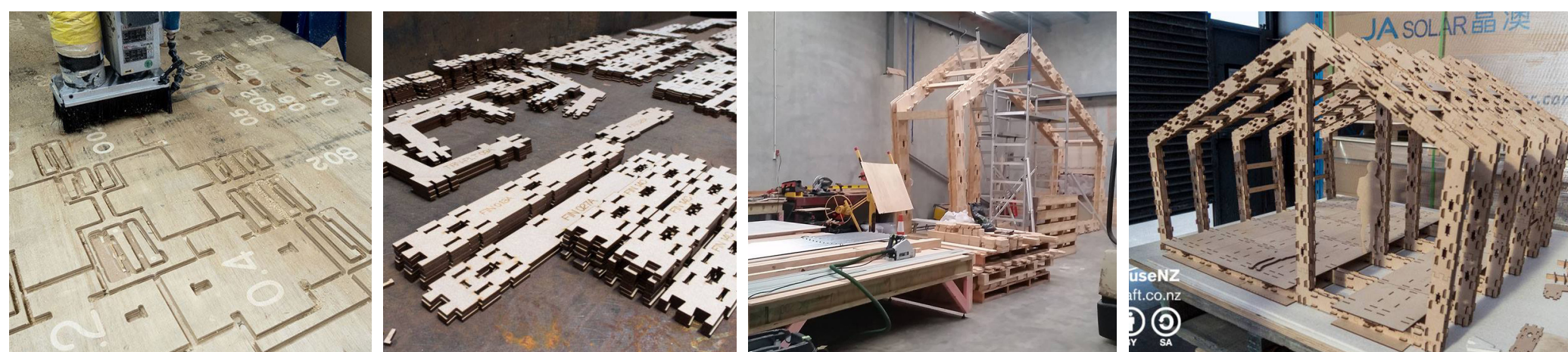
WikiHouse: Open Source Building System

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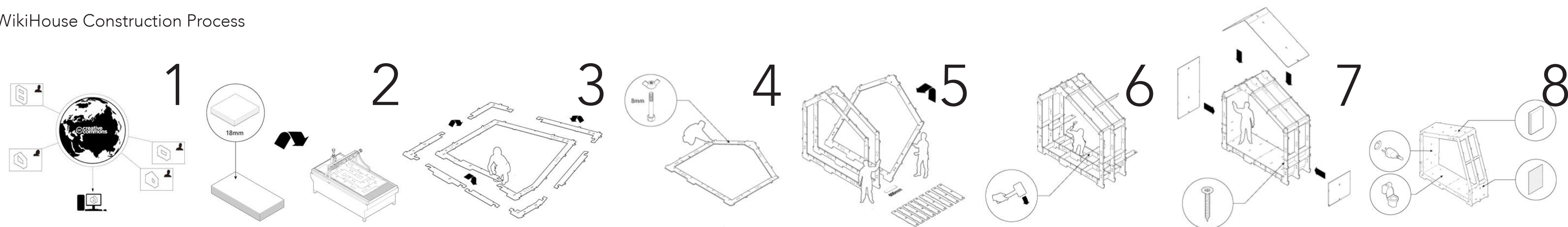
WikiHouse who created a free platform for designers to share CAD drawings of flat pack architecture housing which could be accessed by any people, such as the poor, the uneducated and commonweal organization. This is a possible solution to this global crisis, it is a possible method to provide dwellings for the unfortunates. These drawings are simply materialized with ply boards through CNC machine and can be erected easily by a few individual.

Objective:

- Understand the importance of open source architecture across the globe
- Realize the criteria of open source flat pack architecture
- Build scaled model of a WikiHouse project
- Design and construct a prototype of flat pack architecture



WikiHouse Construction Process



Download houses and components which are created and shared by an open community of users around the world. Individual components can be combined or adapted.

The parts are cut by a CNC mill using locally bought material. This is 18mm plywood in the standard sheet size of 2440mm x 1220mm.

Set out the parts for each section onto the ground assembling it like a jigsaw.

Wedge together the two layers to form a single section.

Stand the section up vertically, positioning them approximately at 600mm intervals.

Fit the connector places into the slots in the section. Use the mallet provided on the milling sheets to fix. hammer these tightly.

Fit the internal and external cladding panels onto the structure. Screws are needed to fix.

The structure is ready for insulation, cladding and services.