**Given:**
At current rates of construction the entire developed world could be replaced in 100 years.

**Product stewardship should be brought to architecture.**

**Productecture is a system that is non-disposable; it is designed for remanufacture.**

*Thesis Model Photo - Productecture:*
A steel frame provides rugged durability and bolted connections for flexibility. Steel connections are designed to daisy chain, and allow for the maximum variety of openings. Wood wool slabs are attached to the exterior, exposing the construction to the interior. The skylights are designed as if microcosms of the system as a whole.
Steps to Building a Trailer:

Unbuilding a standard platform frame Trailer Unit:

- Finish materials discarded
- Damaged joists discarded
- NEW MANUFACTURING:
  - Replace Damaged Studs/insulation batting
  - Replace interior and exterior finishes
  - Replace Trim

Unbuilding a Productecture Unit:

- NO WASTE GENERATED
- NO NEW MANUFACTURING
  - HVAC Refurb
  - Sand surfaces.
  - Switch and replace any columns or panels to make programmatic adjustments save the old components in factory.
  - Install new skylight arrangement

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Sample Deployment: The Growing Office, 2 phases of life for a growing office space. This is one example of common uses for Productecture which include: Office, Retail, Light Industry, Worship, and Classroom.

Final model shows flexibility of configurations:
- 2 base models side by side
- 2 base models stacked
- 2 base models end to end

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Skylight Studies:

Plan tests show variations of how parts attach to the frame and photographs of process models look at the spacial implications of canted skylights. The skylights aim to be flexible enough to capture sunlight from any direction, because the siting may include a poor relationship to the sun. They are designed to attach to the steel frame of the building below at several angles of the compass.

Frame Configuration Studies:

Model tests show variations of how frame could be constructed using standard steel shapes. The final version is a simple column and beam frame, although several structural systems were explored.
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Chassis serves for road transport and for MEP systems delivery chase.

Structure exposed for clarity and ease of disassembly. Bolts visible.

Wood-wool slabs reusable, recyclable material insulates and becomes walls.

Pin foundations used for semi-temporary applications. Leaving the site relatively undisturbed.
Disposable Typology to be Replaced:

Final Physical Model:

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