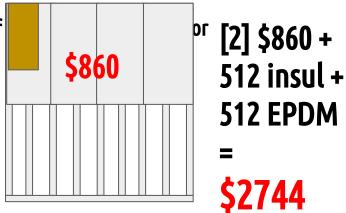
Cost Baseline 256 Sq Ft - Total \$6k Including

Foundation

Scales favorably for 2nd story - no foundation or roof

Floor:

- [11] Floor \$39 <u>2x12x16 treated</u> 2' centers \$440
- [8] OSB, <u>34" 4x8</u> \$19 \$160
- Flooring <u>\$1/sf</u> \$260



Wall:

- [3] \$6 <u>2x6</u> \$18
- [1] Outdoor sheathing <u>treated T1-11</u> \$50; \$30 <u>untreaed \$33</u> - \$50
- [1] <u>interior panel, rustic pine</u> \$23
- [1] insulation \$32
- [44] 1625 <u>screws \$50</u> \$1.35

\$125 x 16 = \$2000

Foundation = \$1000

Foundation:

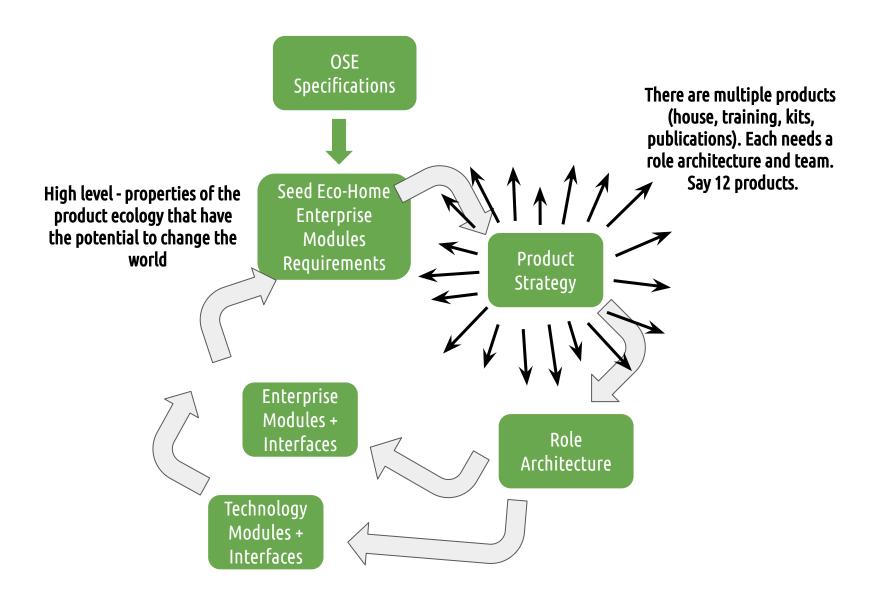
[9] \$100 **=** \$1000

Total Per Module is Under \$6000





Extreme Enterprise - Design Overview









Enterprise Role Architecture 1

Enterprise is seeded in agile waterfall style: we propose initial version. Contributors make improvements.

Governance

Design, purpose, ethics, distributive enterprise leadership.

Product Strategy

Generic types of products to be included to make holistic sense.

Human Factors

Does it serve the human or special needs?

Distribution Strategy

Sales Website, referrals, word of mouth, other. How does product find way to a consumer?

Sales

Sales Website. **Product** webpage

Product Design Team

This is the Template:Dev proper.

Product

Designs, features. UVP. Pricing structure.

Environmental and Energy Impact

Calculation of lifetime and cost. Recycling. Embodied enerav

Lifetime Design

Calculation of lifetime and

cost. Recycling.

Technical Documentatio

Marketing

Outreach to different

channels

Hear Manual

Video

Instructionals

Animation, Infographics, Cop Brochures, Diagra etc.

Product assets for pro cataloo

Quality Control

Procedures, tests.

Engineering ifetime design, design for anufacturing, other Design

Tooling

Tools required in production.

Legal

License of contributions. website terms, data collection on website. What Contracts do we need in place?

Financial Analysis

Revenue and expenses

Business Plan

Revenue and expenses

Supply Chain Optimization and Mapping

Publishing

Printed book and

e-book

Global map of suppliers across the continents.

Certification

OSE Certified for DE, Certification of Producers. External certifications: create a plan during XE event.

Supply Chain Creation

Combined with open source agroecology - planting trees, building equipment (lumber, CEB, 3D printer) for the circular economy.

Production Management Staffing, schedule, management.

Open Source **Franchise**

Terms of use for independents and OSE Chapters

Brand

Logo, trademark, terms of using brand

Marketing Strategy

Brand Promise, character stand. What marketing channels we select.

Admissible Vendors List

Establishing new contacts with distributed producers or suppliers. Adding ratings to them. Editable map with ratings?







Enterprise Role Architecture 2

Training

Curriculum for independent producers.

OSE Chapters

Curriculum for people producing as OSE chapters

Sweet Home 3D Manager

Makes attractive renderings

Warranty Service

How do we implement a lifetime warranty, and use it to add value to the enterprise?

Customer Support

How is support provided after the sale? Refers to Chapters, Independents, and end consumers

Shipping

How is the product shipped or otherwise delivered?

Packaging

How is a product packaged?

Inventory

How is inventory controlled and documented? Tools and procedures.

Open Source Everything Store

Entry at the OSES website

XM Workshop

Details of event workflow - steps, roles, tools, timing.

Facility Design

Design of facility where components/product is made

Data Collection

Marketing and sales data - how is it tracked?

Customer Feedback

How do we encourage customer feedback and improvement suggestions? How do we involve customers in development?

Continuing Improvement

How do we incentivize, fund, and execute continuing improvement?

Sweet Home Training

Curriculum and Videos

Future Work

Product improvement, product diversification.

Wiki Templates

HTML/CSS for wiki-based book, to make it easier to produce new versions/updates. From wiki to publication, or even export directly for printing. Adding publishing functiaonlity to wiki. There are other platforms, but why use them if wiki suffices?

FreeCAD Training

Curriculum and Videos







General Team

Book Editor

Requires 200MB connection. Professional experience.

Graphics Standardizer

Combines all module workbenches into one workbench

Builder Ergonomics

Detailed analysis of time required to build 1 house from inquiry to move-in.

Legal

Figures out contracts and strategies for passing through zoning and compliance

Web Designer

Integrates website contributions from each wordpress contributor

BOM Integrator

Compiles BOMs across the globe, indexed on a map

Product Strategy Team

Composes a whole product line of goods.

Full Service - \$100k. BYOL.

PV Package with Storage

Modeling Kit

Enterprise Training Kit House Package -\$35k/15k

Minimal House (useful shed/homeless shelter)

Hands-on Course Only

Consulting

Kit House Only, DIY, \$35k

Community Manager

Does outreach, PR, across all of OSE-Related Marketing channels.

FreeCAD Synthesis

Combines all module workbenches into one workbench

Sweet Home Design Manager

Creates Assets for Sweet
Home

FreeCAD Workbench Manager

Creates FreeCAD design workbench







Module Teams for each of 100 Technical Modules

Topical SME

Translates and fills in any missing info to the team

CAD Team

These are the details, brunt of the work.

Icons

Contributes to Pattern Language
Icons used throughout the manual,
and to other organizing icons
(warmings, compoent, process, info
architecture icons

Graphics

System Infographic

Wordpress

Website page for each of the modules

FreeCAD Workbench

Design Workbench creator puts all part libraries into the workbench for each module

Scale Model Prototyper

Website page for each of the modules

FreeCAD Part Explosions

Does technical CAD and tech drawings in FreeCAD

Animation

Functional Animations in Blender

Wiki Editor -

Maintains and updates Dev Template

Copywriter

Writes attractive copy for the module - explaining big picture and making content compelling

Technical Writer

Publisher

Composes work into

Google Docs

Writes build procedures.

BOM Synthesizer

Works with all BOM
Managers to coordinate
global sourcing database,
both a general one and also
SKUs from specifc store

FreeCAD Tech Drawings

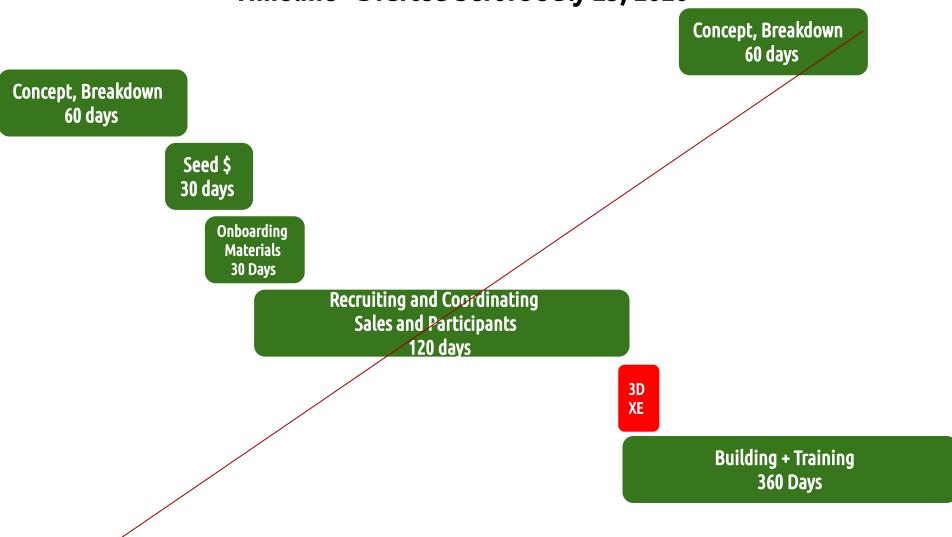
Does tech drawings in FreeCAD for the given module.







Timeline - Drafted before July 23, 2020

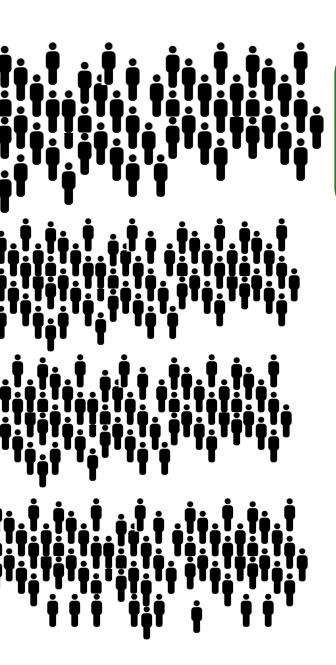








Budget - 3 Iterations of 100 Seed Eco-Home Modules at \$500 Each



Prototyping Team

\$150k for materials

- 100 modules
- 100 prototypes
- \$500 budget each
- 3 iterations each

Documentor + Data Collection

Writes a script for the video for each module. Collects ergonomics and



Organizing

2 hours

- 2 hours coor. total / contributor
- \$50/hr
- 1000-2000 contributors
- 2000-4000 hours needed
- Team of 4-8 organizers
- 4 month duration full time
- \$100k-200k budget

Video Producer

Takes video during the session, using OSE assets. Per module.

Wiki Editor

Uses <u>Collaborative Video</u>
<u>Protocol</u> with Kdenlive. For each module.







Solution: conditional presale is a zero-risk route, with the stakeholders themselves! We sell **data/information** here: in the form of collaborators who (1) have the skills, and (2) want a house. Skills must not be an extreme requirement. Of 2000 participants, 50% of them get the house. (Coupon-clipping). Enterprise Track: additional funding, additional participants.

Presale 2000

500 for America 500 Europe 500 Asia/Oceania 250 Africa 250 S America

- Zero Risk escrow and returned if we don't deliver product (end of campaign) and house (year after campaign)
- Information business: We help you find land
- 1 week with 2 people to build a 750 sf house for \$50k (\$35k materials)
- \$15k revenue per seat
- 25% of the participant get their own house, ideally 100%
- \$30M net total

Revenue Model

Challenge: enterprise case

Solution: zero-risk strategy of presales.

During: Enterprise Track

\$50k per seat revenue for collaborator trainees. We offer them distribution from pre-orders.

- Responsible for building the houses in their region
- Up to 24 builders
- Distributive Enterprise Compliant
- DE and XE spec is created
- Risk mitigation: money back
- \$1.2M revenue + 12% for up to

After: OSE Chapters Track

\$50k revenue for collaborator trainees

- 24 Student Cohort
- Get it funded by local enterprise circles or fundraiser
 - Should be easy sell after the campaign succeeds
- 1 house per month
- \$1.2M revenue from aftersales.

Challenge: enterprise case





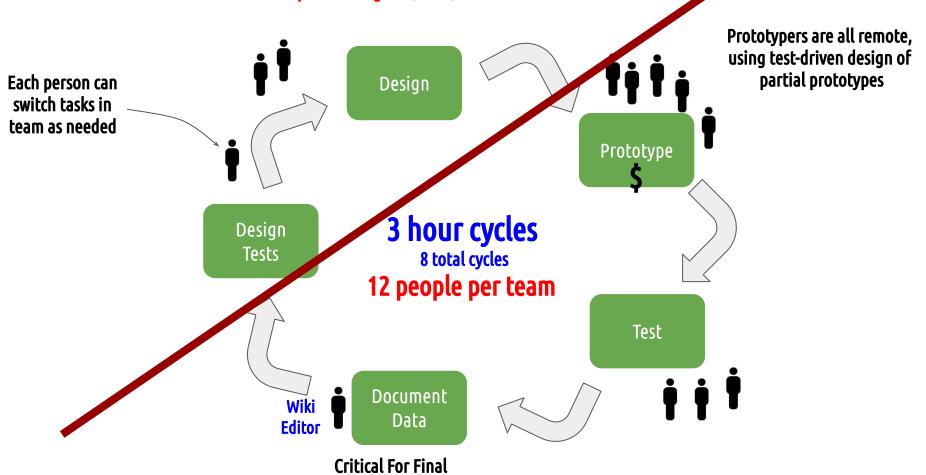


Extreme Enterprise - Module Team - Motor

(10 modules) x 21 steps on Product + 1 module x 20 steps on Enterprise)
41 people per module -> 410 people so far. BASE PACKAGE.
1 product + 4 production tools (printer, PNP, circuit mill, coil winder)

For 5 items total, we thus need 2600 people.

Required budget - \$25k-\$125k for coordination time.



Product Integration







