

Developing an Eco-social Enterprise

Session 2

Wednesday, 29 March, 2017

Tim Crabtree, Schumacher College

Developing an eco-social enterprise

Honza:
Slim houses

Misa: Passive
housing

Svetla:
Biodynamic farm

Denisa:
Support local
livestock farms

Hana: Passive
housing

Andy: Finance
for eco-friendly
housing

Silvie:
Agricultural
co-operative

Katka:
Community-led
food production

Patrik:
Green cities

Katarina:
Sharing cars

Itay:
Developing
critical thinking

Marta: Linen /
fabric / clothes

Liliana: Developing
new methods of
production for food

Chen-yu:
Nature food

Barbara:
Supporting
young families
(kindergarden)

Sofia:
Solar energy

Nofar: Social
fund-raising
platform

Verca:
Local fast food

Misha: Healthy
fast food

Systems thinking

Question:

What is a “system”? Can you give an example?

WASHING SOCKS



INPUT



OUTPUT



OPERATION



Question

How do you cook a soup?

- What must you have?
- What do you need to do?

Local food systems

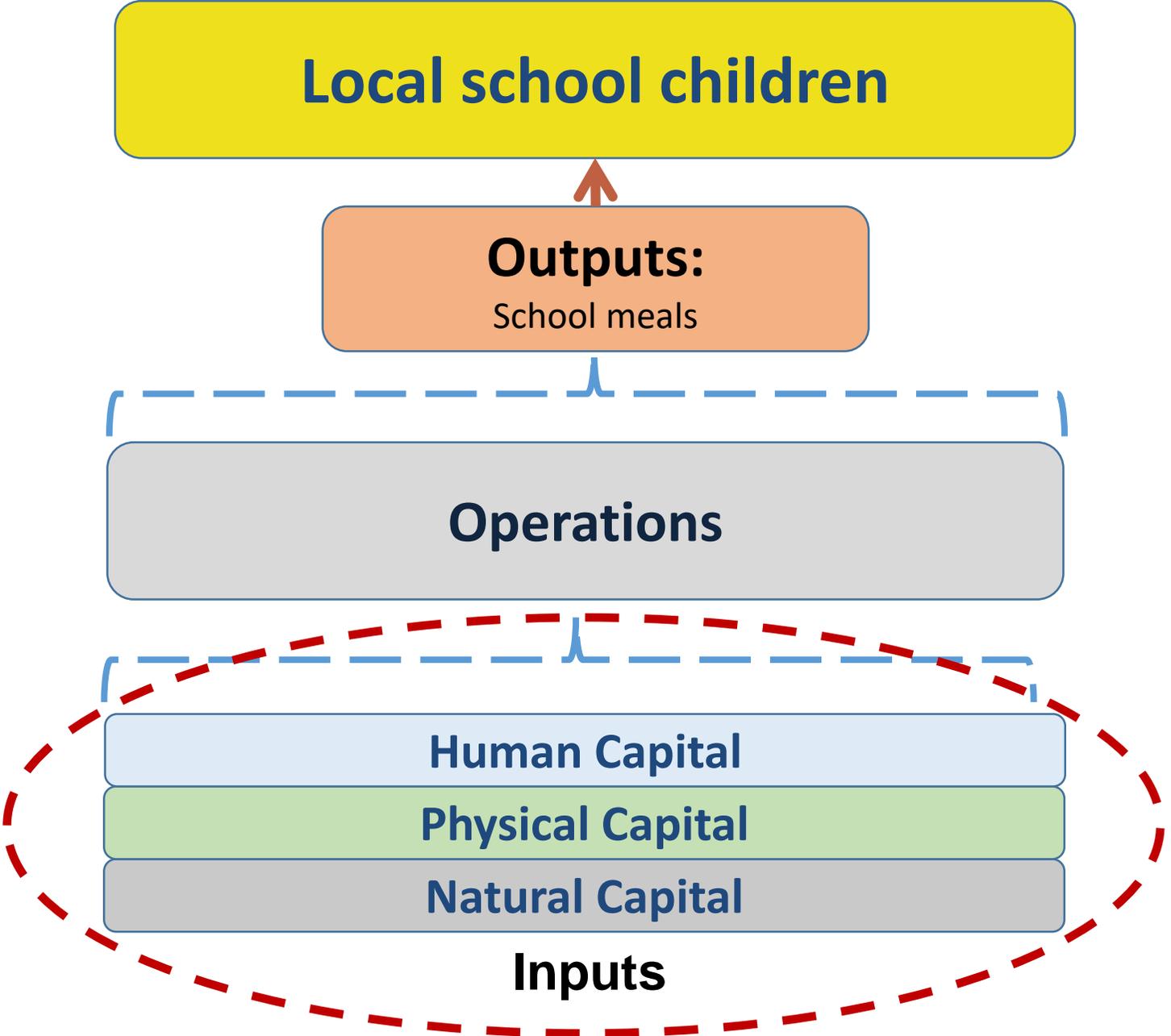
A system is a set of things working together:

“A system is an interconnected set of elements that is coherently organised in a way that achieves something.....a system must consist of three kinds of things: *elements, interconnections,* and a *function or purpose.*”

- Meadows, D. (2008) *Thinking in Systems. A Primer* London: Earthscan

All food systems transform inputs into goods & services





Local school children

Outputs:

School meals

Operations

Human Capital

Physical Capital

Natural Capital

Inputs

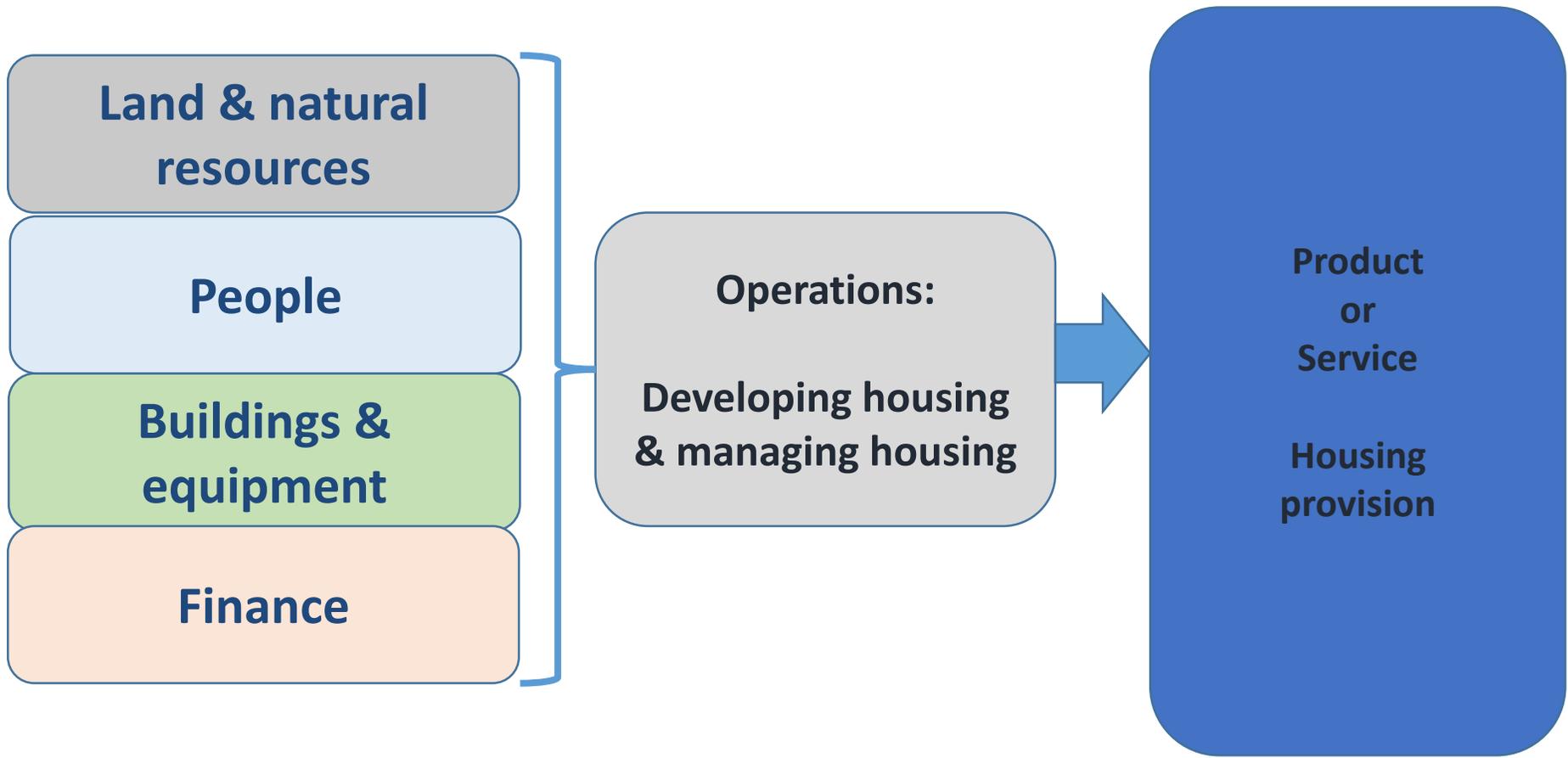


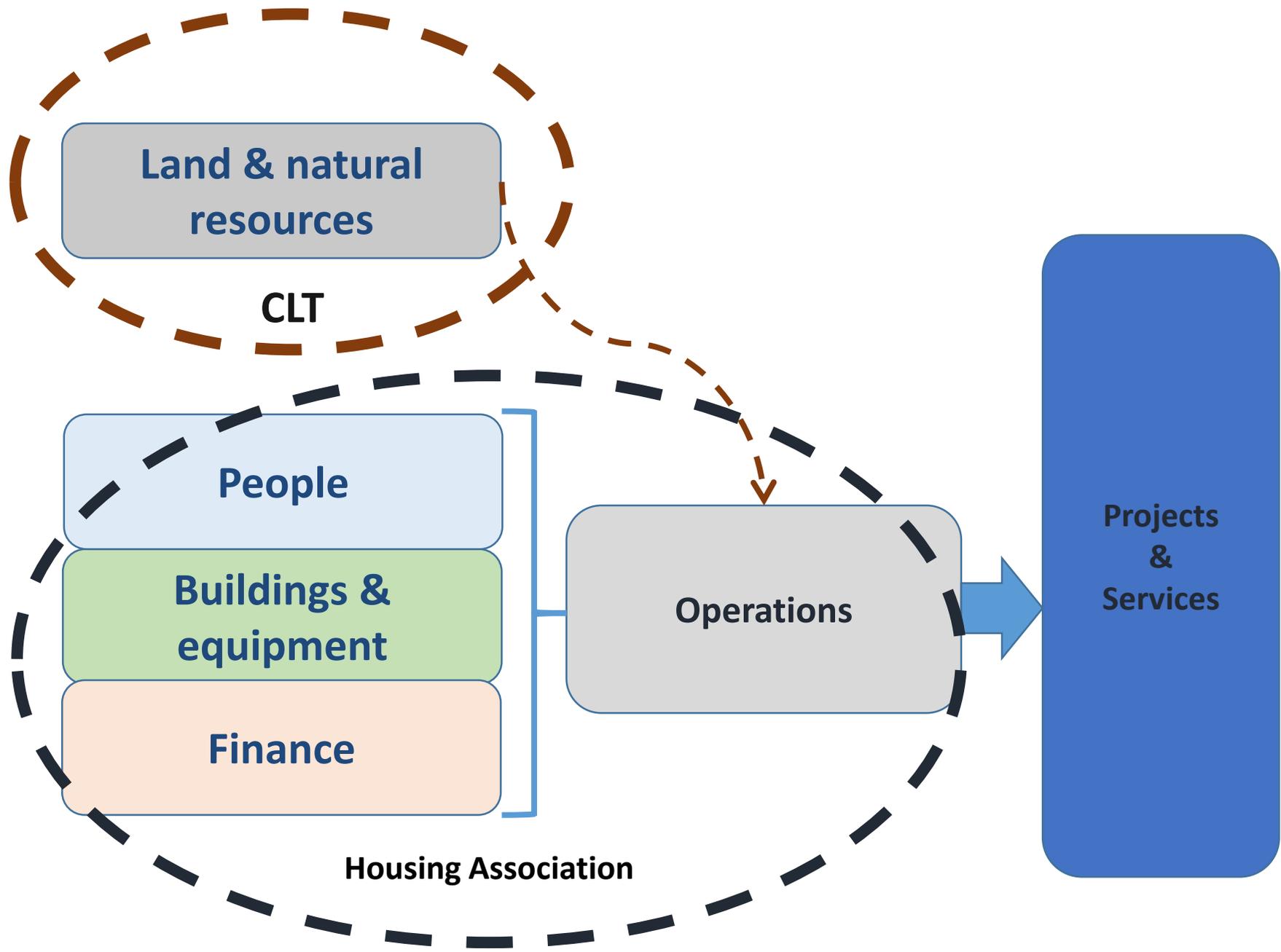
Wessex Community Land Trust Project





How Does the Partnership Work?





Outputs

For your eco-social enterprise, write down the outputs (products or services) that you will deliver to customers

Customers

Write down the customers that you will provide products and services to.

Are there different types of customer?

Operations

What will your eco-social enterprise do to produce the products/services?

Linking housing with innovative build methods to help reduce costs





Timber Fabrication Lab Feasibility Study


European Union
 European Regional Development Fund

 2014 to 2020 European Structural and Investment Funds Growth Programme

 Call for Proposals
 European Regional Development Fund

 Priority Axis 4: Supporting the Shift Towards a Low Carbon Economy in All Sectors



**Timber as key
input**



**Off-site construction
as part of operations**



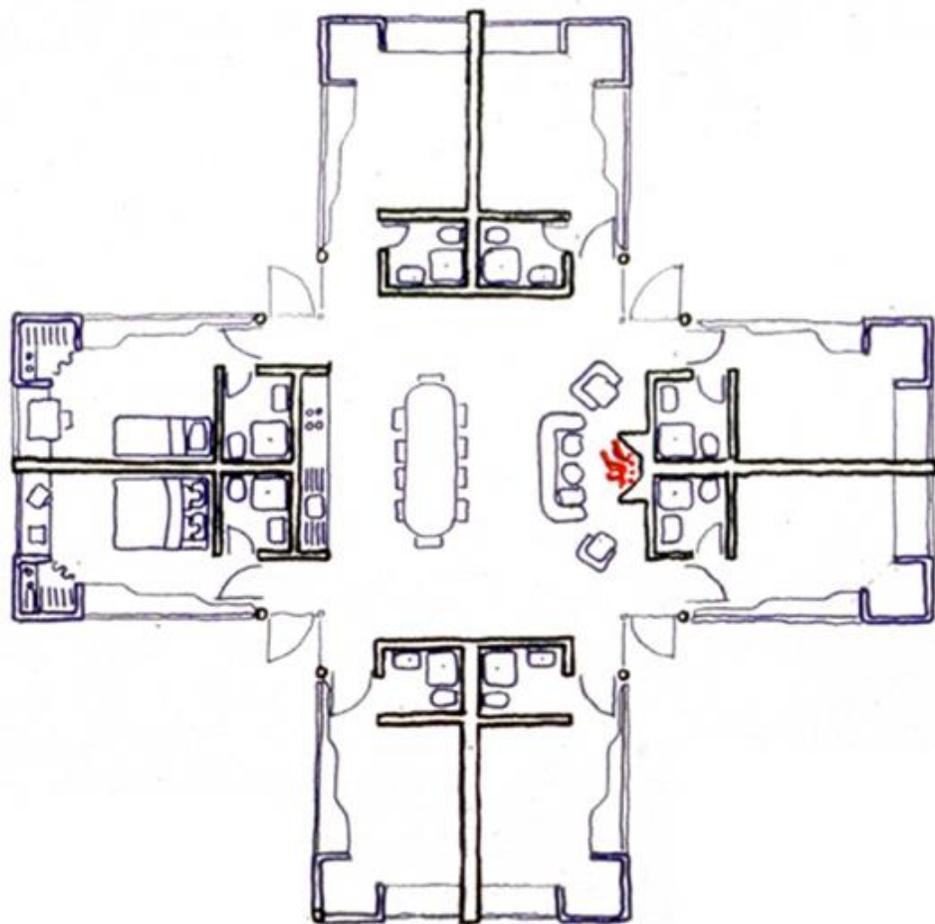
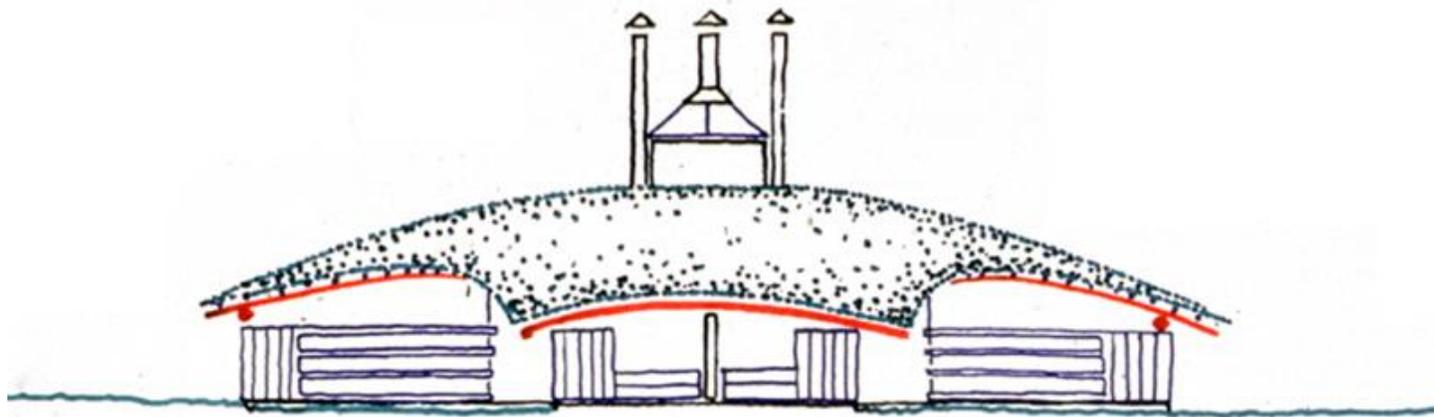
**Affordable,
sustainable
houses**





Hooke Park

2 / 5













Hooke Park

The Architectural Association's
woodland campus

[HOME](#)

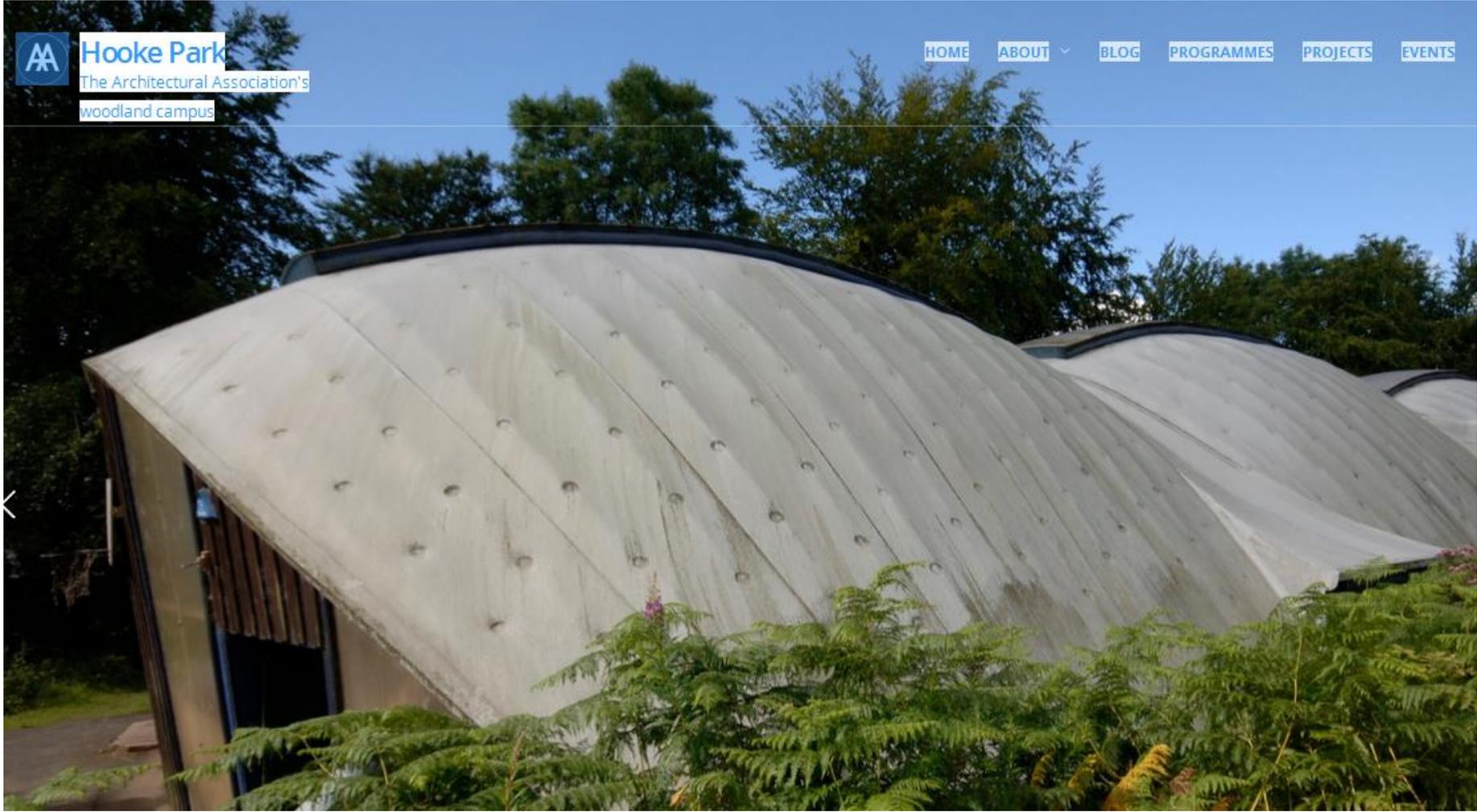
[ABOUT](#) 

[BLOG](#)

[PROGRAMMES](#)

[PROJECTS](#)

[EVENTS](#)









Bath researchers develop houses with zero carbon footprint

Bath's BaleHaus shows that building with straw is safe, secure and durable — and can have minimal environmental impact.



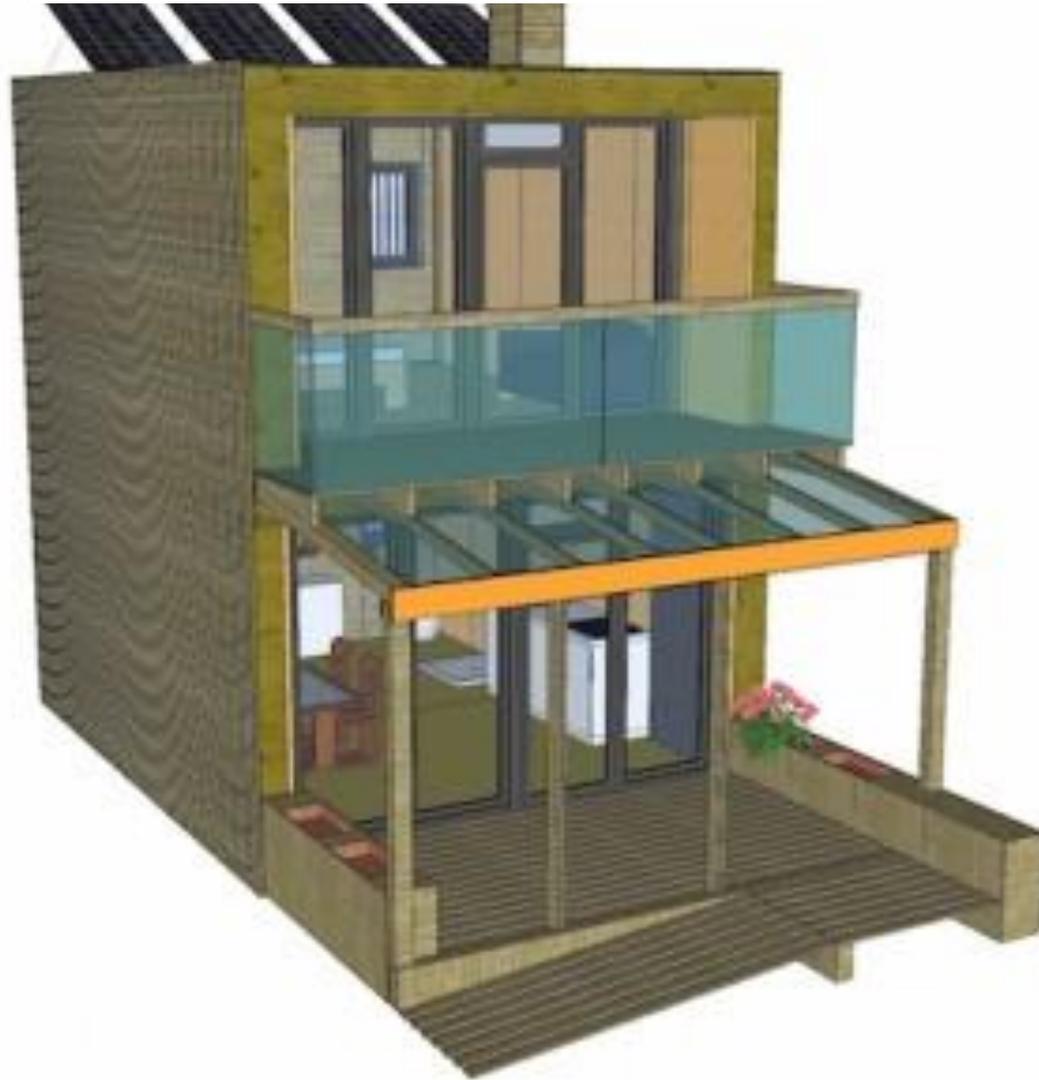
Challenge

The UK is committed to an 80% reduction in greenhouse gas emissions by 2050.

“Our research at Bath shows conclusively that building with straw using the ModCell System is not only safe, secure and durable, it's also fit for the challenge of reducing our CO2 emissions by 80% by 2050.”

— Craig White, Director of ModCell

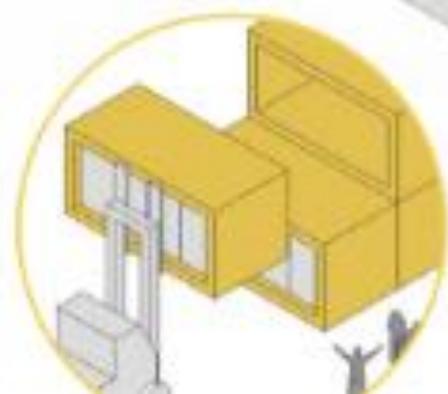
modcell®
straw technology



CONSTRUCTION: Community Hub Housing Factory



Factory & Training



DESIGN & CONSTRUCTION







POP-UP FACTORY

Factory area: 20m x 12m (240m²) = one ZEDpod/week
All ZEDpods components are prefabricated, tendered and manufactured by reputable companies with good Q&A systems.
The list of components, specs and suppliers is defined and numbering/documentation is finalised.

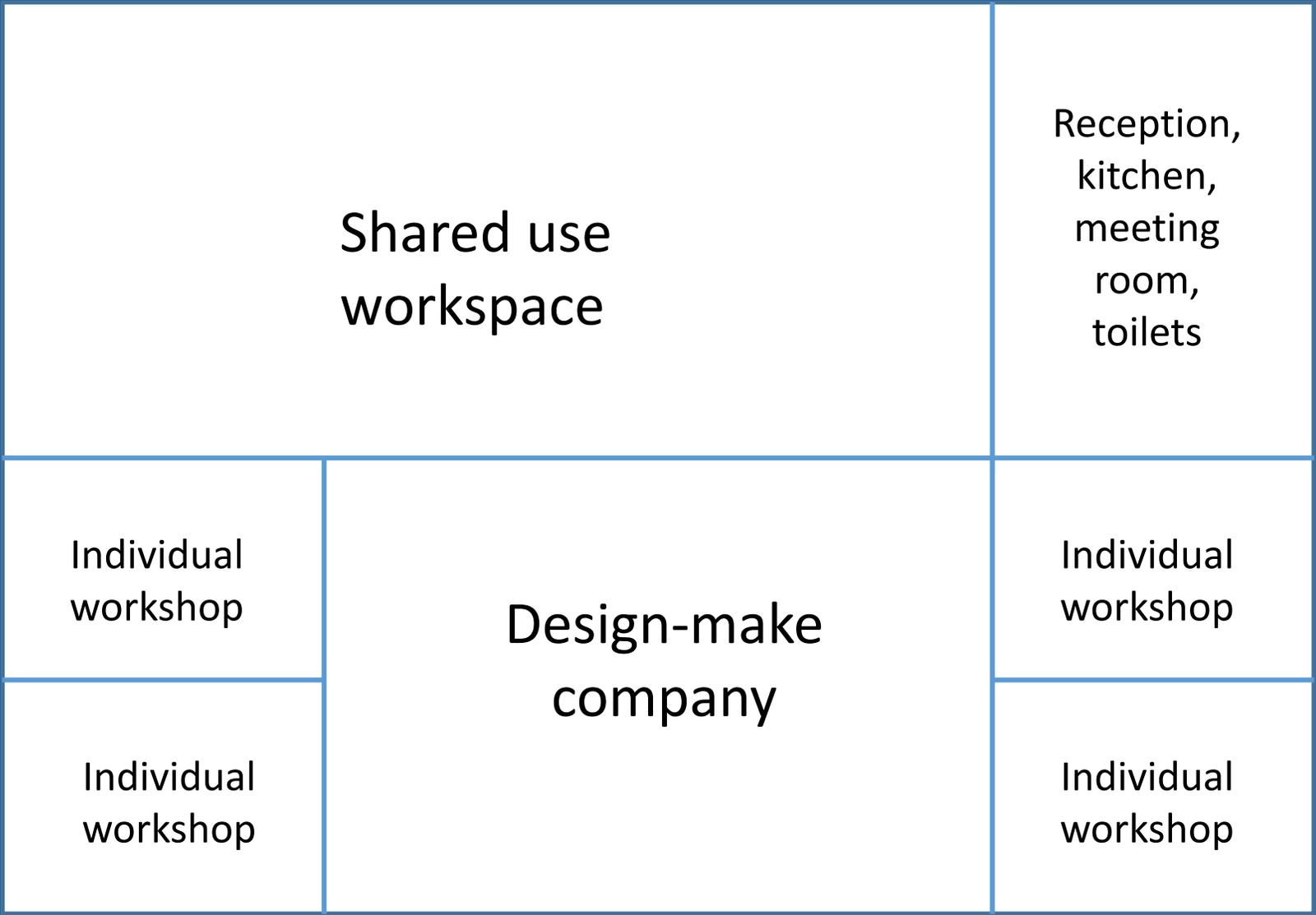
The West Dorset Timber Design & Fabrication Lab

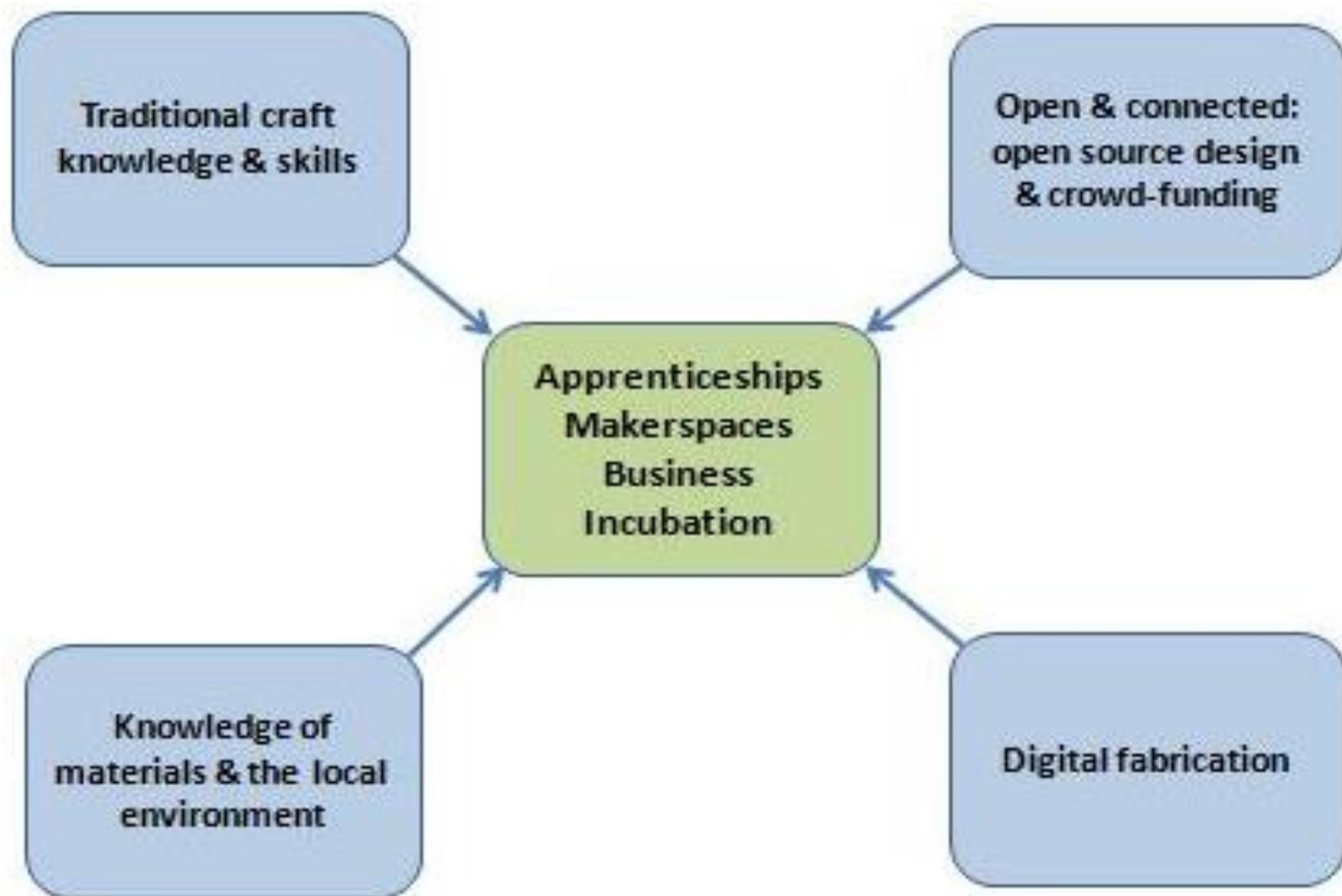
Vision

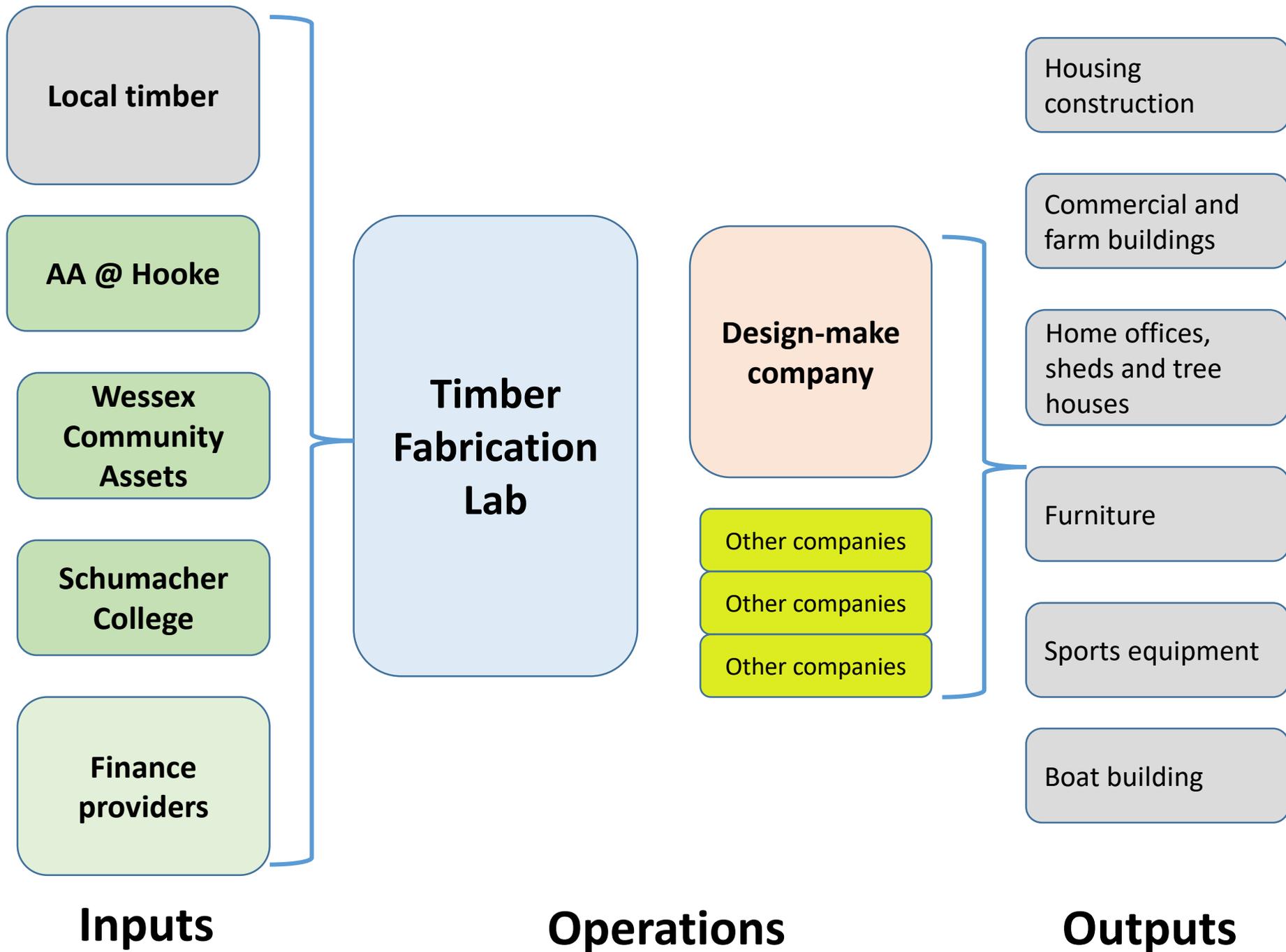
Local people creating innovative structures and products from local timber, using the latest technology and eco-design methods

Summary

A new timber design and fabrication lab, to be based in Bridport. It will draw inspiration from the growing number of “rural studios” and design/build workspaces, and will support the creating of a wide range of innovative timber buildings and products. This will create training and employment opportunities, a market for local timber and a range of environmentally sustainable products.







Operations

What will your eco-social enterprise do to produce the products/services?

Inputs

What inputs will you need?

In other words, what inputs will be transformed during the operations processes?

Natural capital

- What natural capital will you require:
 - Resources
 - Sinks
 - Services

Physical capital

- What is required?
 - Buildings
 - Equipment
 - ICT
 - etc

Human capital

- What will your enterprise require?
 - Staff?
 - Volunteers?
 - Trainees/apprentices?
 - People disadvantaged in the labour market?
 - Board members?