



THE UNIVERSITY OF
MELBOURNE

msd

Melbourne
School of Design

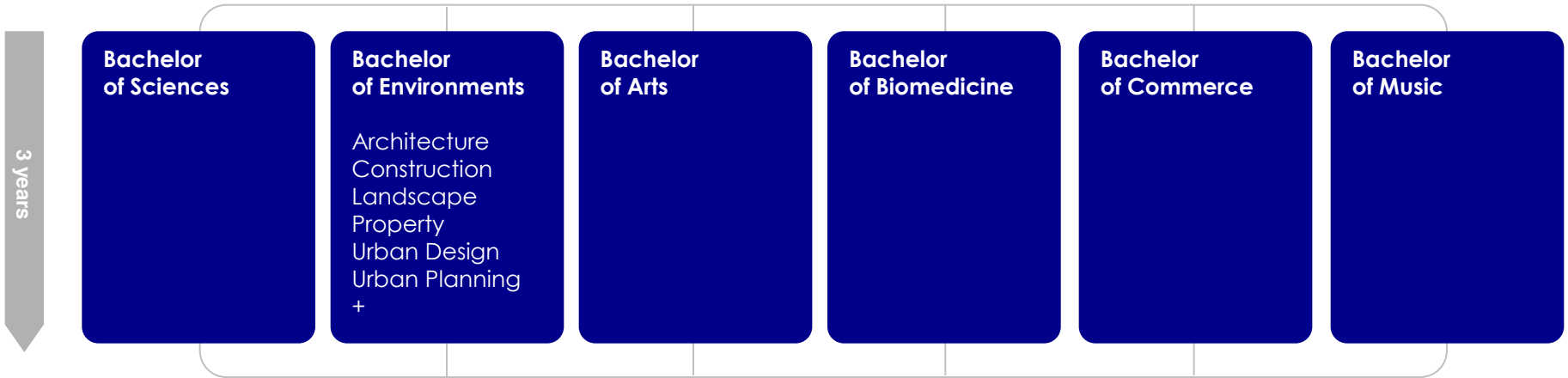
UNIVERSITY OF WESTMINSTER
Centre for the Study of the Production
of the Built Environment (ProBE)

Symposium:
AN INTEGRATED SYSTEM OF EDUCATION
FOR THE BUILT ENVIRONMENT

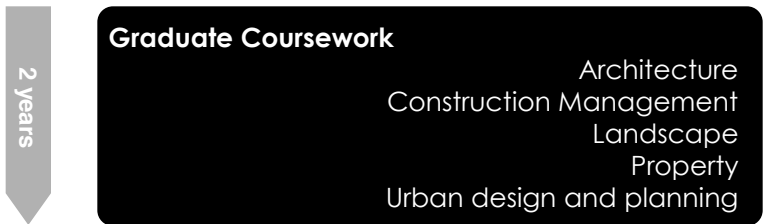
Paolo Tombesi

The Melbourne Model:
professional education and design culture

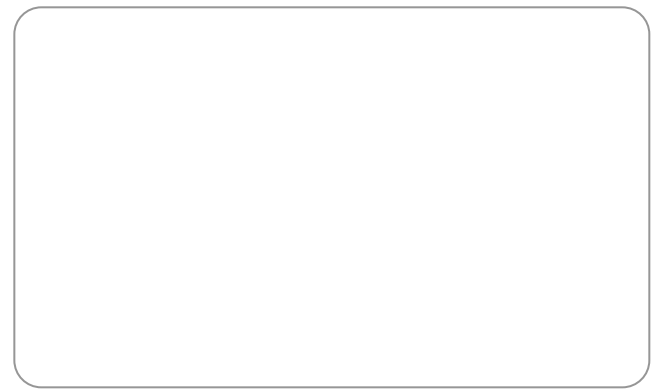
New Generation Degrees



Graduate Degrees



Employment





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Before



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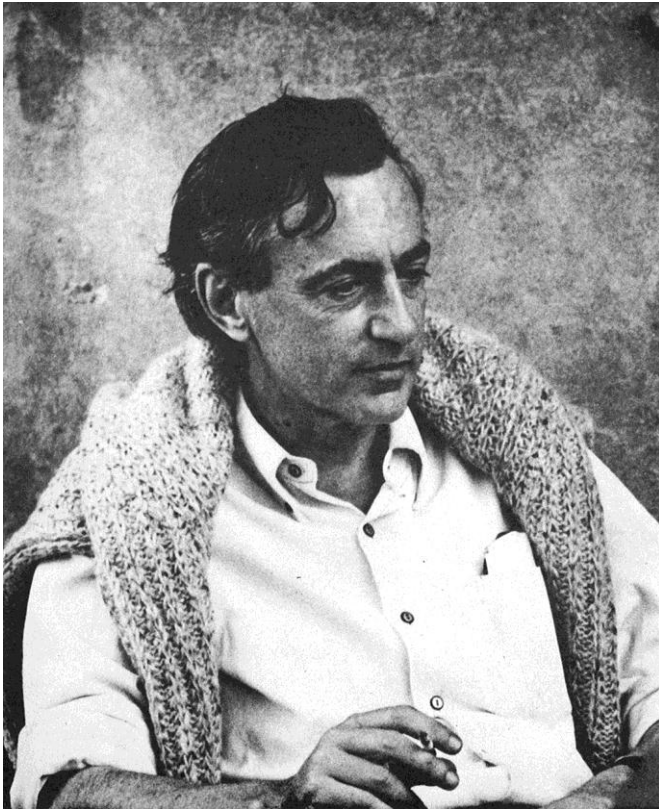
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The Melbourne Model

Duccio Turin



**What do we mean
by
building?**

**14 February 1966
University College London**

**Inaugural lecture as
London Master Builders'
Professor of Building
Bartlett School of Architecture**

... For obvious

administrative and organisational reasons, teaching has to be organised in courses, subdivided into years, broken down into streams, and consecrated by degrees. But emphasis can be laid, throughout the process, on the need for flexibility of approach with a view to making the future graduates more adaptable to changing conditions, many of which cannot even be foreseen.

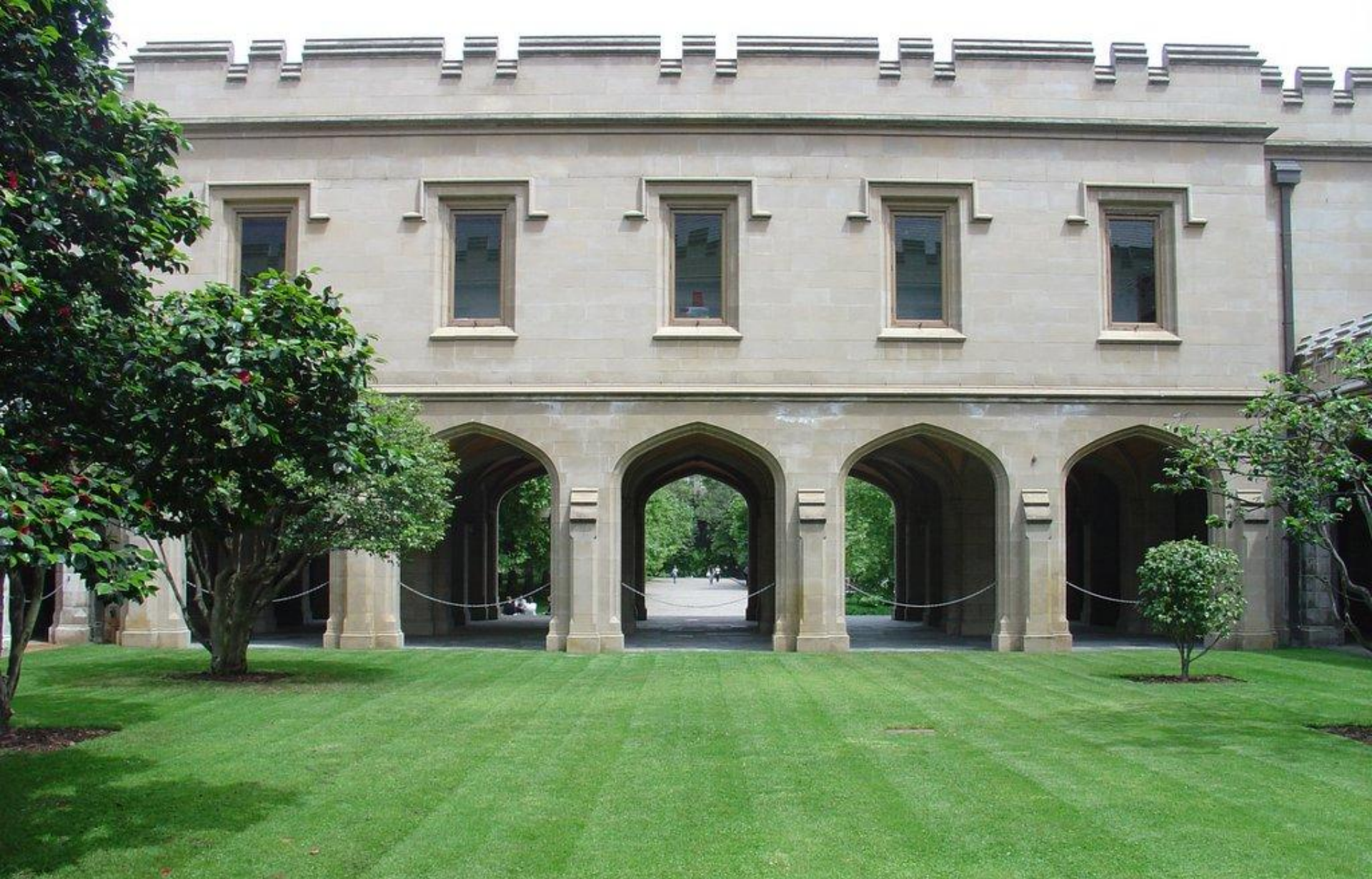
... To train future builders within a school of architecture alongside with future planners, future landscape architects, future environmental engineers, and, of course, future architects, is indeed a challenging task. If I had to sum up in a single formula the ultimate purpose of the new courses I would be tempted to say that we shall try to train a 'creative builder'. One who will have shared two years of common courses with his future colleagues; one who will have had to solve many problems of design in his studio work; one who will have a solid background in the scientific disciplines underlying the design and construction process; one who will, most of all, continue to share a common language with many members of the building team.

...we shall try to train a 'creative builder'.

... There should be no misunderstanding about it: we shall not attempt to produce an overall polyvalent man, who, as the French say, knows everything and nothing else. He will be a builder and not a half-baked architect or a second-rate engineer. He will, we hope, be proud of the contribution he can make, conscious at the same time of its uniqueness which requires a considerable degree of specialisation, and of its close relationship to other contributors which implies a lot of inter-disciplinary and inter-professional work. He will, we hope, be open to new ideas; he might even, we regret, encounter some difficulty in inserting himself in the most traditional sectors of his profession. By virtue of his training and because of his approach, he might find himself closer to the architect working on a development project, the engineer producing advanced structural designs, or the industrial designer creating new products and components than to his partners concerned with the daily administration of a project or with the procurement of building materials.



The Melbourne Model

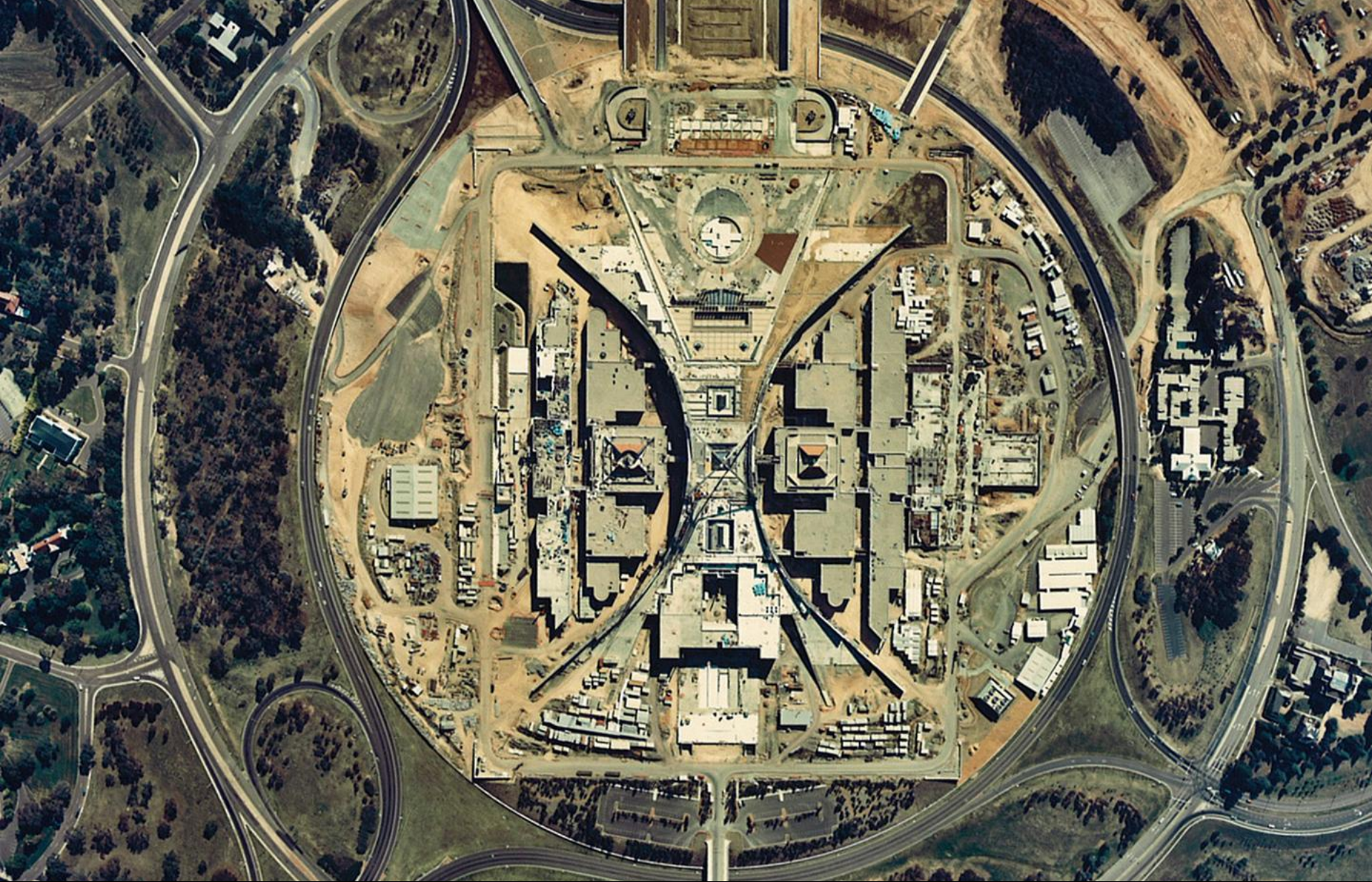


Mechanics' tradition

**In April, 1856 stonemasons working on this building,
downed tools, marched to the city
and inaugurated a movement which won
the Eight Hour Day for building workers in Victoria.
The victory became an international landmark
in the history of the labour movement**



Mechanics' Institutes



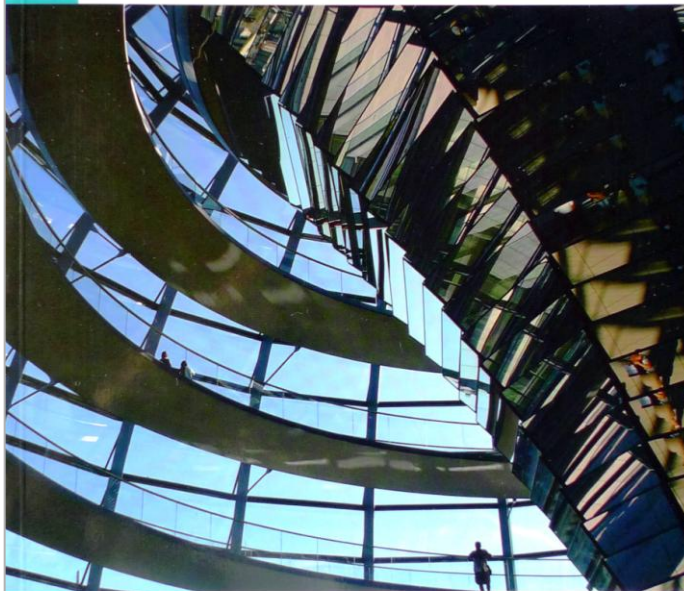
Technical colleges



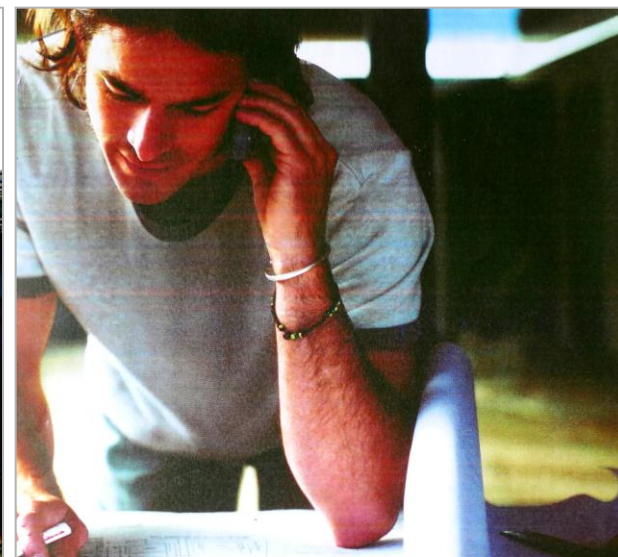
Dawkins Reform



CONSTRUCTION EDUCATION IN AUSTRALIA
A REVIEW OF LEARNING AND TEACHING CHALLENGES
AND OPPORTUNITIES



Anthony Williams • William Sher • Catharine Simmons



Holmesglen offers degrees, developed in association with the building industry, that provide pathways to professional and senior management careers in construction management, construction economics, building surveying or facilities management. These qualifications may be gained through on-campus studies, distance learning and through an accelerated program. The program is lead by highly qualified academics with international recognition as leaders in their field, and supported by experienced industry practitioners.

**Building
your future**



College
of Building

holmesglen

Dawkins Reform

Support



Define



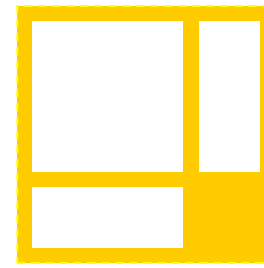
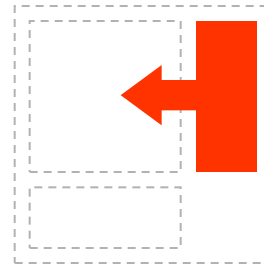
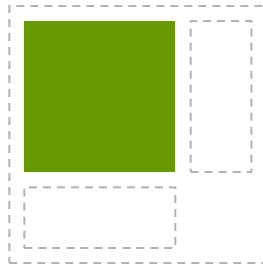
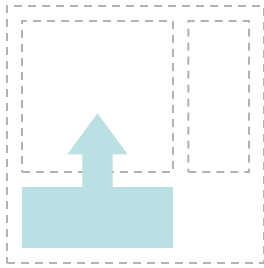
Integrate



Position



Types of functional (disciplinary) knowledge



Support

Define

Integrate

Position

build grounds/
new terrain

define/refine
operations/
objectives

imagine links

reflect on/
modify geography

consolidate
grounds/footings

recognise/
implement tasks

exploit
connections

map territory

provide grounds/
foundations

acquire tools

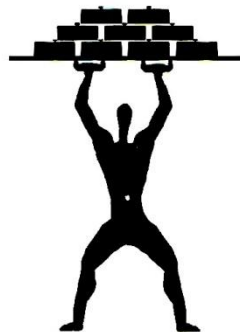
understand
relations

locate area

MASTERY
LEVEL

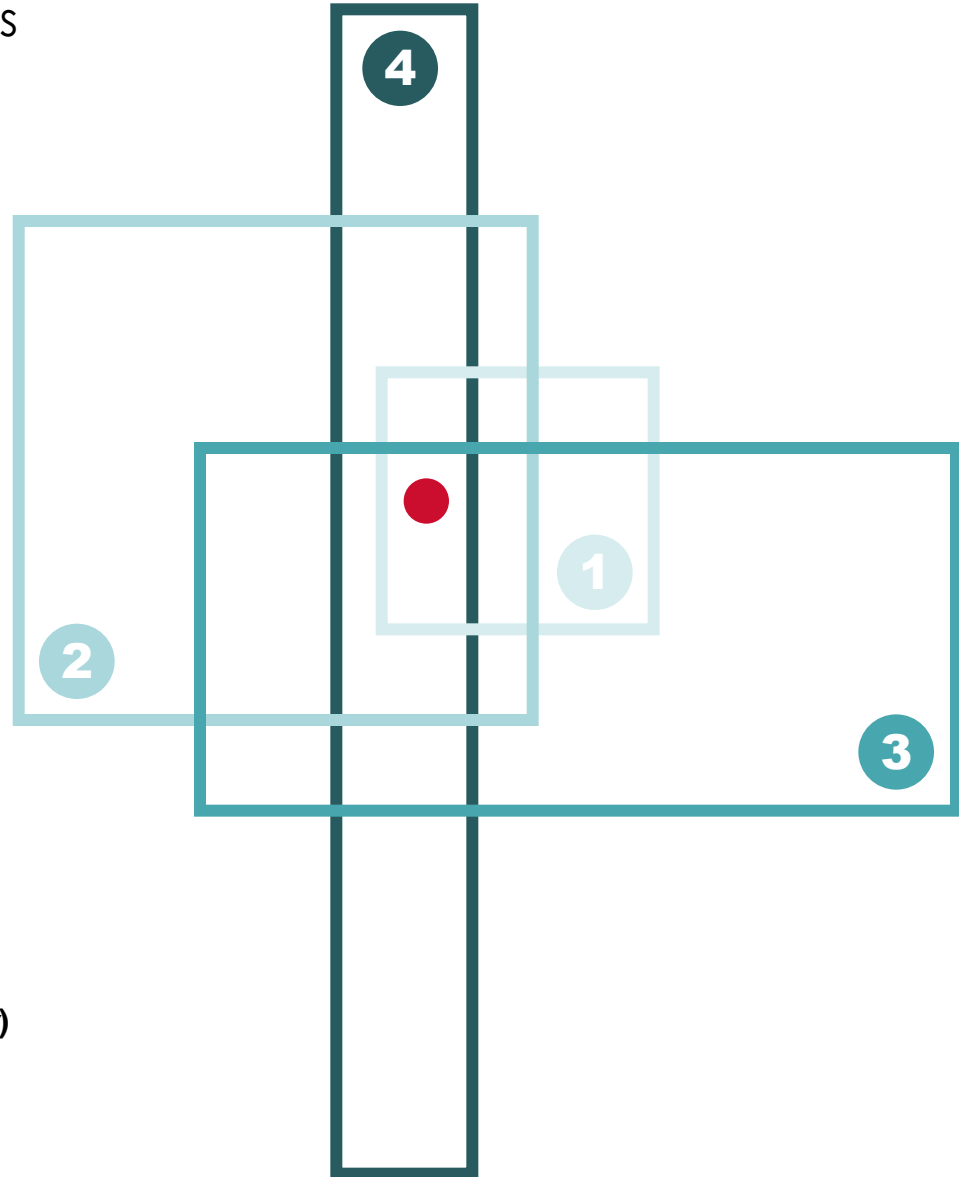
PROFICIENCY
LEVEL

BASIC
LEVEL

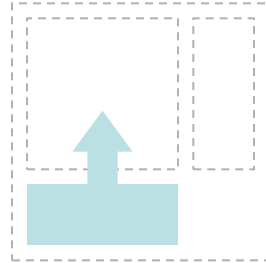
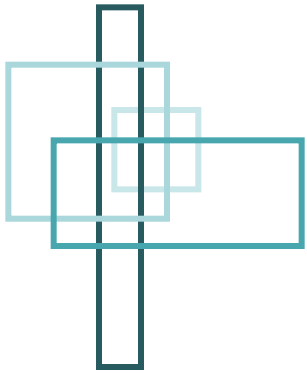


Types and degrees of functional knowledge within curricula

4 types of tertiary institutions



- 1 local (to work) vocational culture
- 2 national (to profess *in practice*) professional culture
- 3 international (to profess *in theory*) architectural culture
- 4 supranational (to research) disciplinary cultures

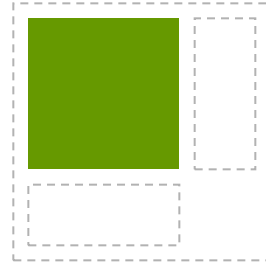


Support

build grounds/
new terrain

consolidate
grounds/footings

provide grounds/
foundations

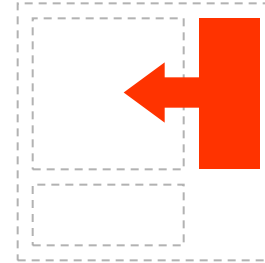


Define

define/refine
operations/
objectives

recognise/
implement tasks

acquire tools

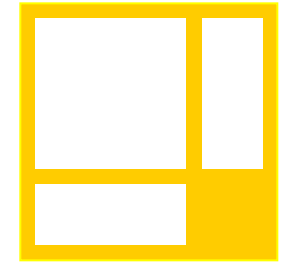


Integrate

imagine links

exploit
connections

understand
relations



Position

reflect on/
modify geography

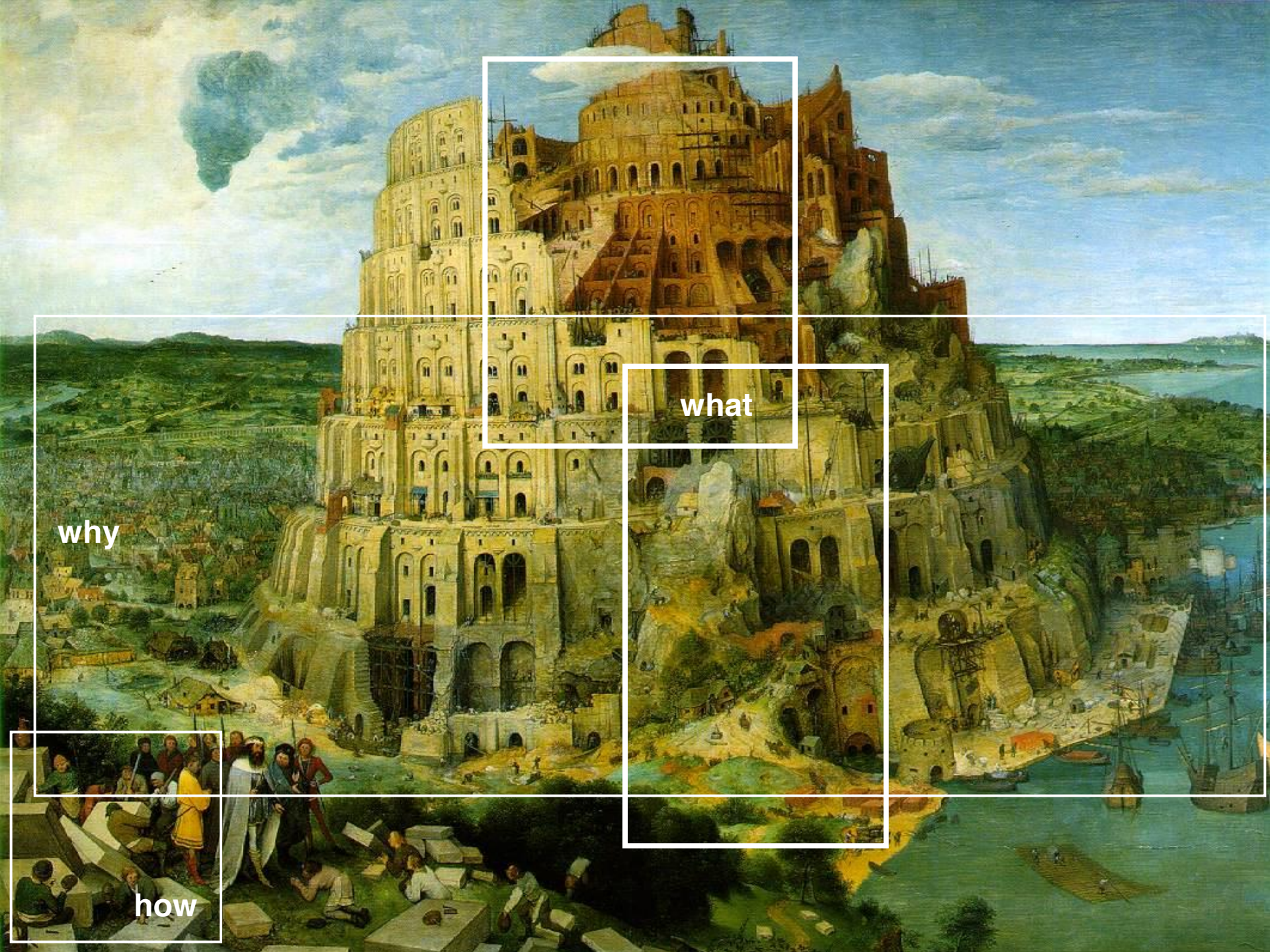
map territory

locate area





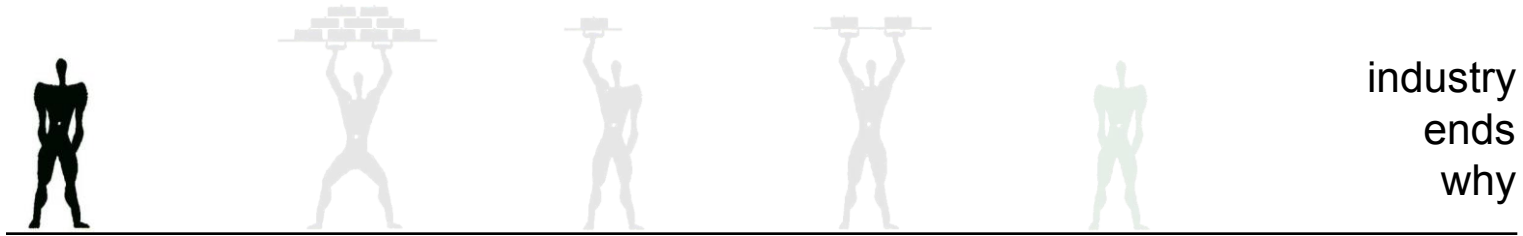
Industrial roles vs professional qualifications



why

what

how



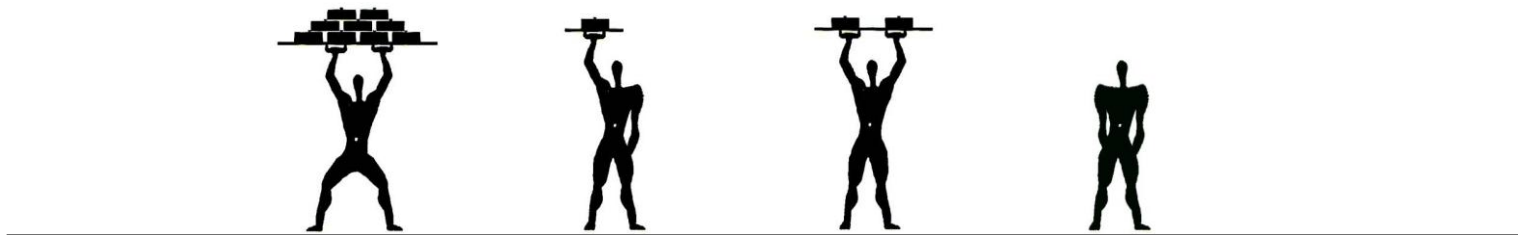
industry
ends
why

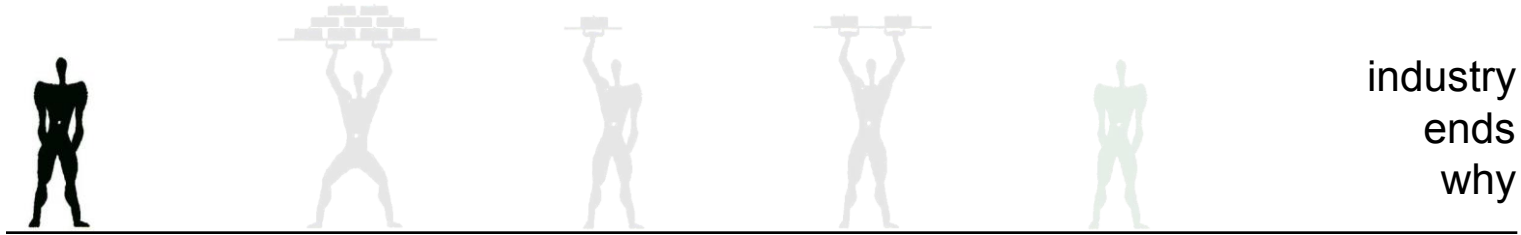


processes
instruments
what



techniques
tools
how





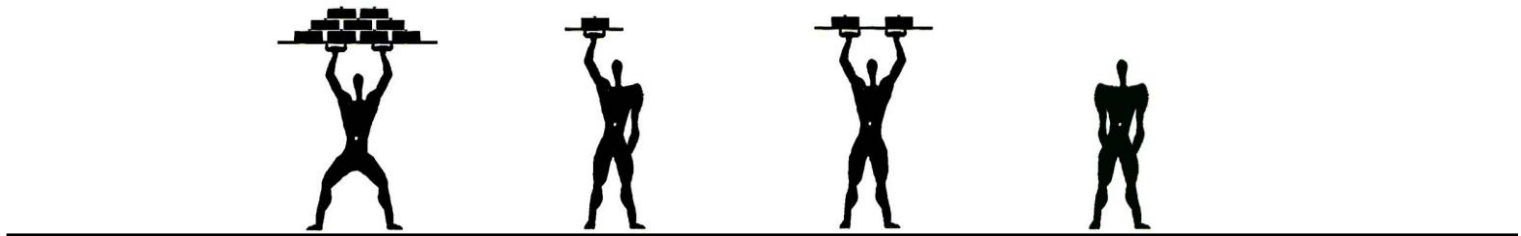
industry
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tools
how





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multiple areas of concentration



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Construction Management

building

cost

project

systems

corporate

policy

research

multiple areas of concentration



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Construction, industry and environment
Construction policy
Corporate management
Culture of building
ICT in building
International construction
Issues in technology
Labour in construction
Research in construction
Building cultures and markets
Supply chains in construction
Technological innovation

Construction Management

building

cost

project

systems

corporate

policy

research

construction industry

industrial design

management of construction

Construction Management

building

cost

project

systems

corporate

policy

research

construction industry

industrial design

management of construction



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Management of construction



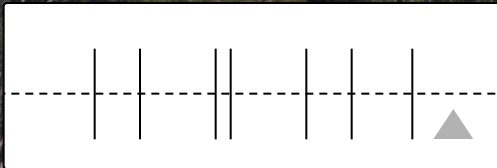
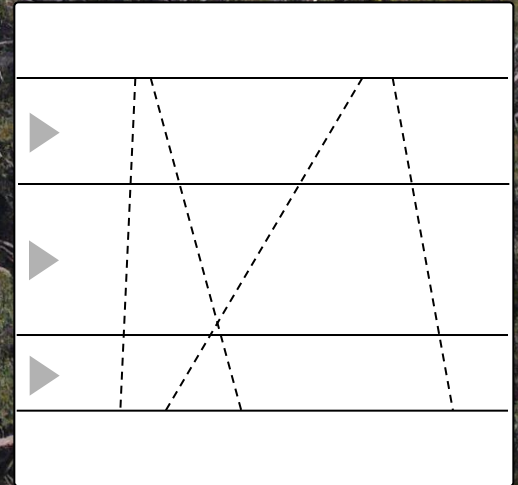
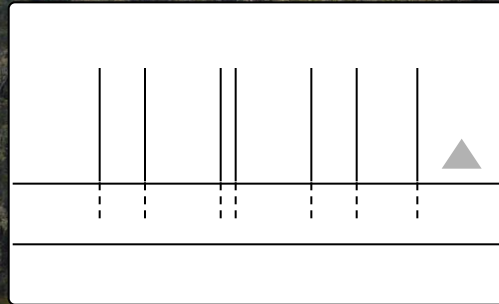
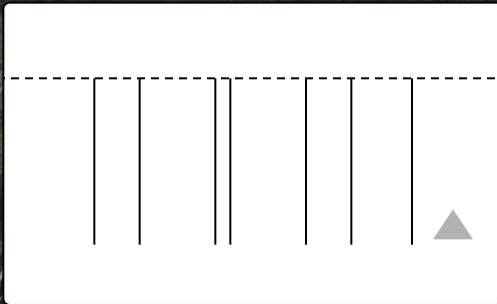


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Management of construction

from built environment
to industrial ecology





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Management of construction

from built environment
to industrial ecology

from hands-on education
to heads-on training