Changing Spaces for Learning, Innovation and Knowledge Exchange

Alastair Blyth

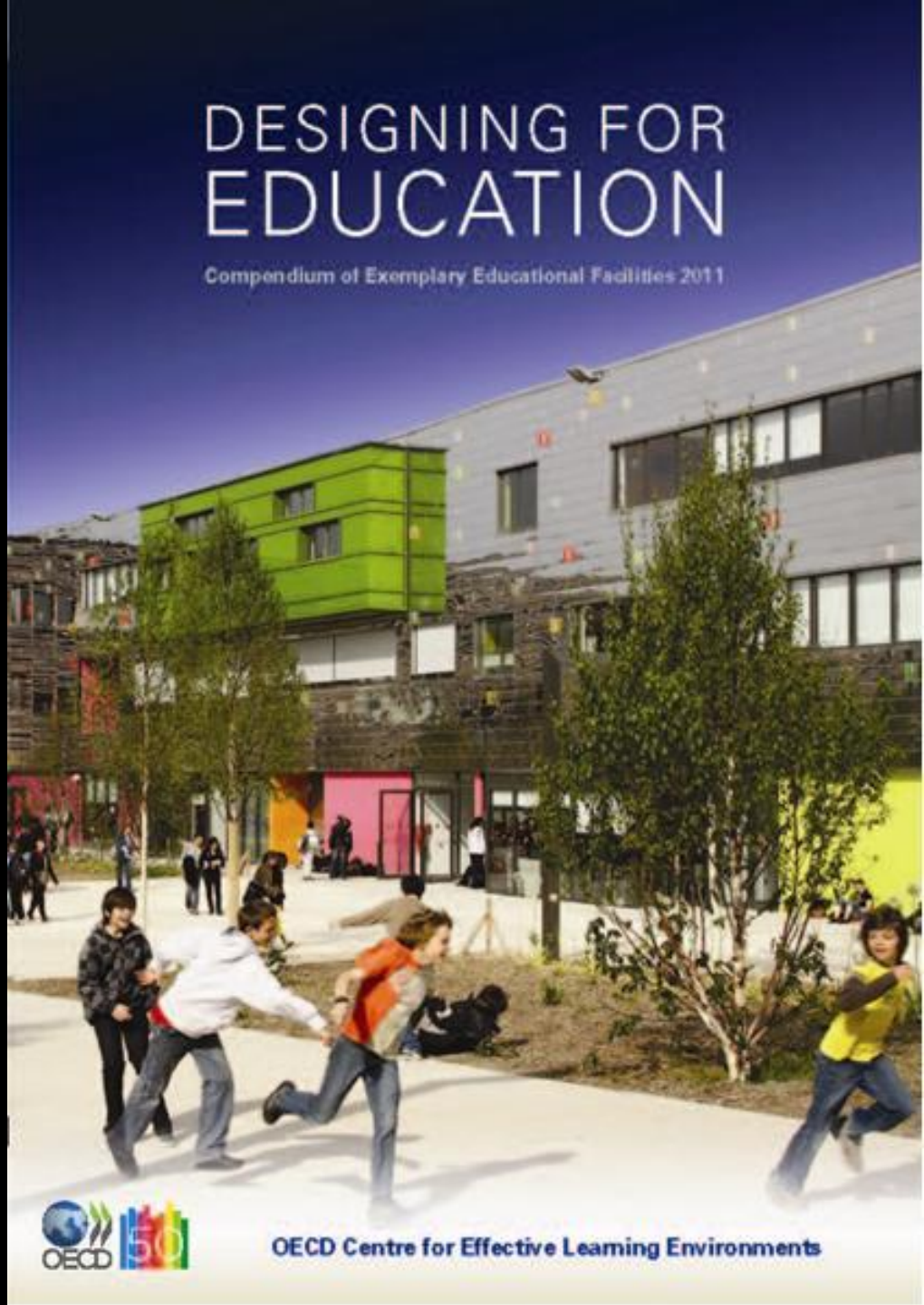
2012, Moscow

Summary

Some observations and themes

- Universities in the city
- Inside the buildings: Using what you have got
- Spaces in between

Examples of Education Environments



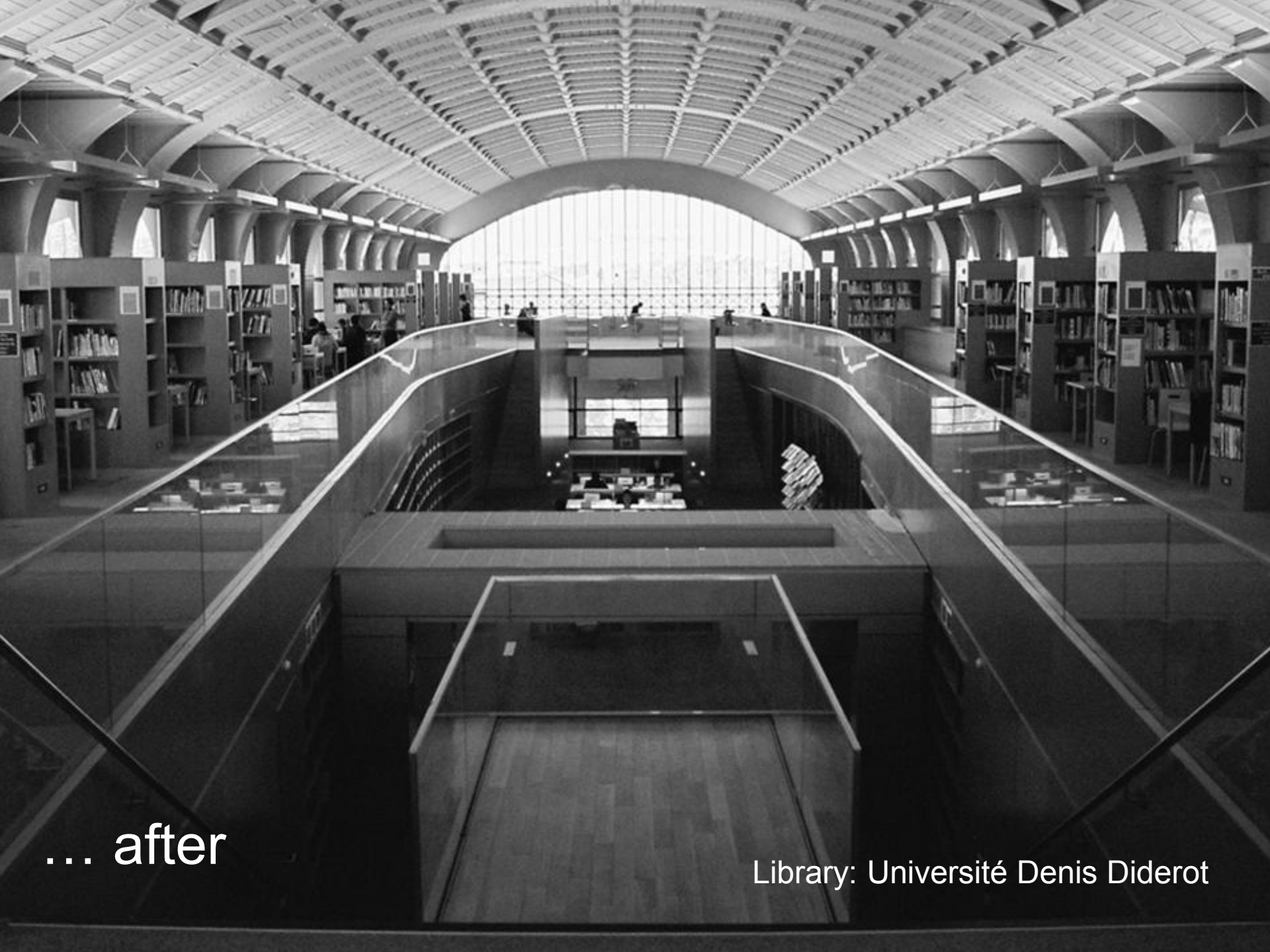
12eme Arr.
Paris Rive Gauche
130 Hectares industrial land
Economic Development Agency
SEMPA set up in 1997
Université Denis Diderot
Image © 2010 Aerodata International Surveys
© 2010 Tele Atlas
nagery Date: Oct 21, 2007
48°49'54.46" N 2°22'57.97" E elev 26 m
Eye alt 2.13 k

Paris
Paris Rive Gauche
Hauts-de-Seine
Image © 2010 Aerodata International Surveys
© 2010 Tele Atlas
2009 Google
Imagery Date: Oct 21, 2007
48°51'06.37" N 2°20'50.16" E elev 0 m
Eye alt 16.42 km

University buildings mixed with residential, commercial, research, welfare

Universities as a focus for regeneration

Before…



… after

Library: Université Denis Diderot

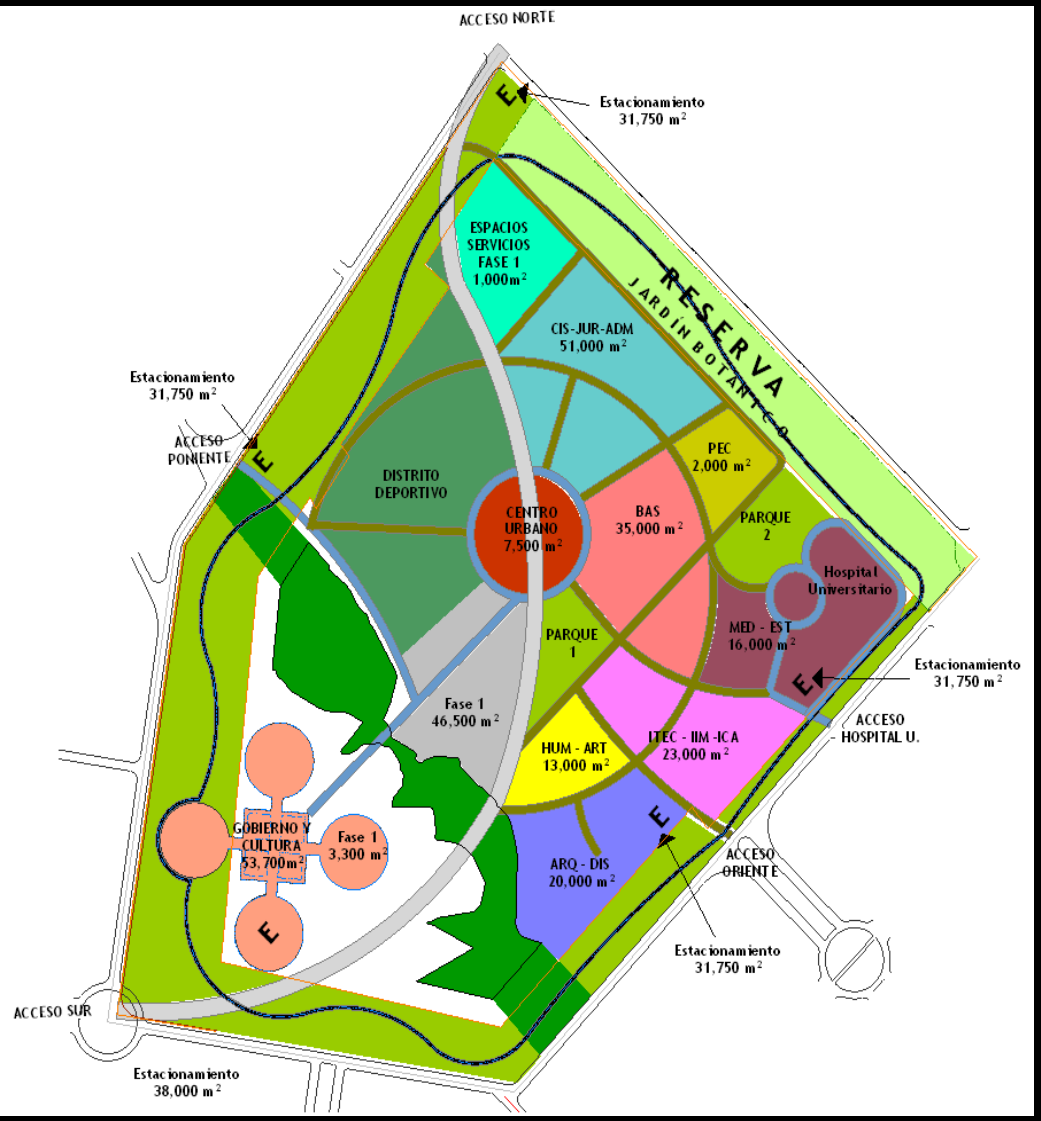
Creating a Sustainable Knowledge City

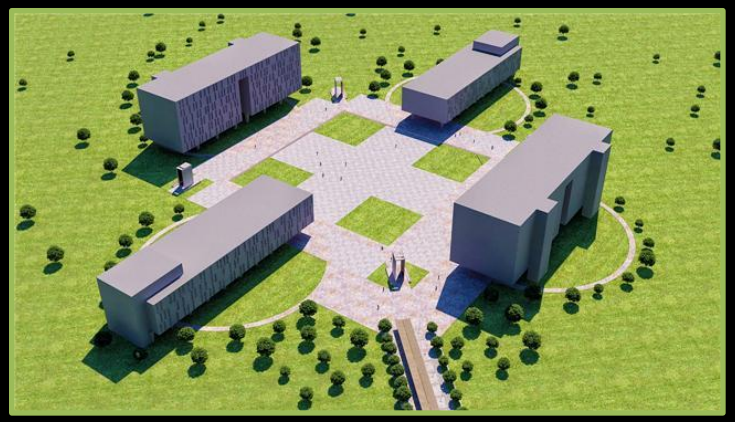
Ciuadad Juarez

300 hectare site

Moving the University away from the conflict zone

Proposed Layout UACJ





Student population: To rise from 20,000 to 40,000 by 2020

Ciuadad Juarez

300 hectare site

Moving the University away from the conflict zone

Urban development will grow around the campus

Educational hub with other universities present

Ulsan National Institute of Science and Technology
Ulsan, South Korea

© SAMOO Architects: Shown at OECD /KEDI Higher Education Spaces and Places 2012, Seoul KoreaAdministration Building

155,066.58m^2 of accommodation – 5,000 students

Creating Spaces for Exchange

Creating spaces for exchange

The Exchange of information, knowledge and ideas between people is critical for both learning and creating new ideas – social learning

Torsten Wiesel
1981 Nobel Prize in Physiology or Medicine

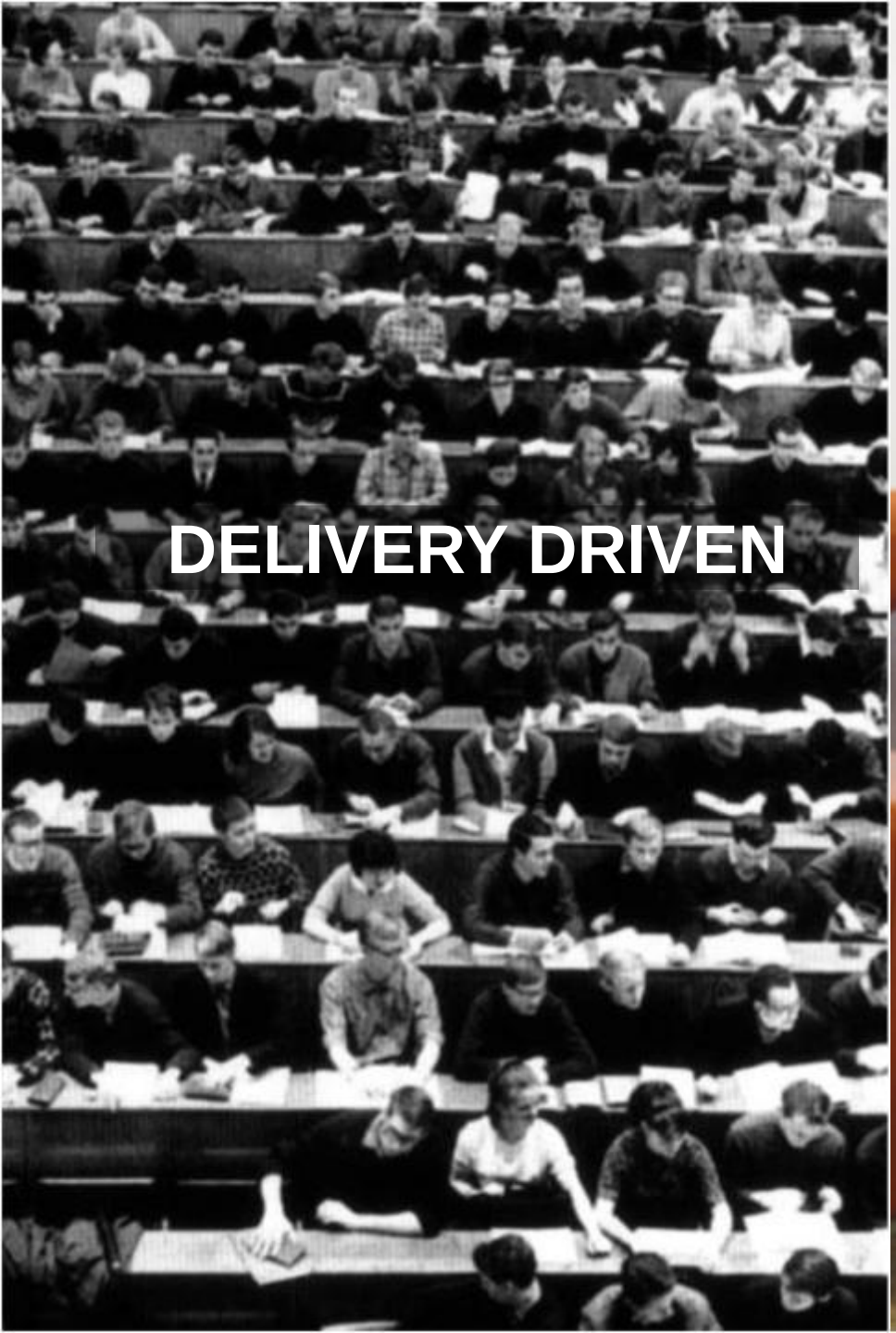
"… bring people together so they bump into each other…"

Arvid Carlsson
2000 Nobel Prize in Physiology or Medicine

"… environments need to stimulate curiosity…

… chatting is important… "

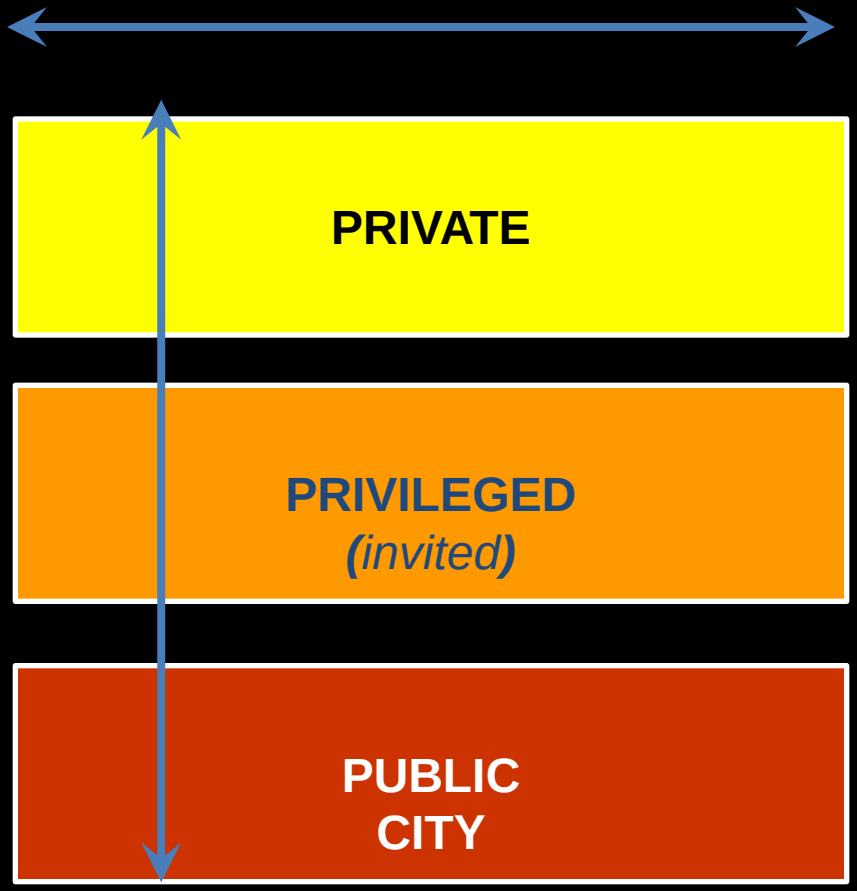
Laurentius de Volto, Bologna 1390


DELIVERY DRIVEN

LEARNING LED

Distributed Learning Environment

Virtual ⟷ **Physical**



e.g. Intranet

e.g. Academic offices; Research labs; home; office

e.g. video conferences
Web based invited conferences

e.g. Classrooms Auditoria; external / internal

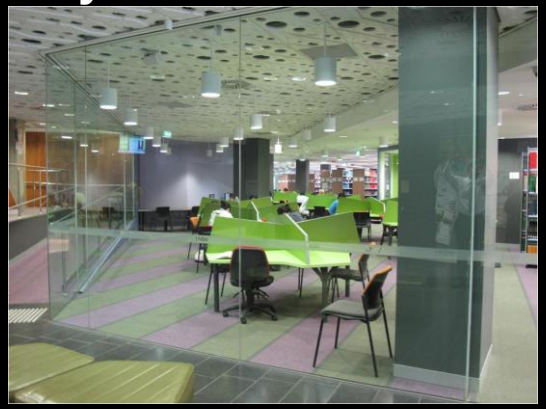
e.g. Internet sites
Social media / Facebook / twitter/wikipedia

e.g. interface with the City

Source: After DEGW Working beyond Walls, 2008

What should we focus on?

Physical Environment



OR

Virtual or On-line

?

or Both?

Less?

More?

Matching learning to technology and space

Learning mode	Technology	Space type
Work-based learning	ePortfolios	Collaborative spaces with high-end technology
Work-integrated learning		
Field-trips – real and virtual	Virtual field-trips	Collaborative spaces with high-end technology
Simulation and role-plays	Online simulations	
Problem-based learning	Blogs, wikis	
Case studies	Multimedia case studies	Collaborative spaces with high-end technology
Lectures	Podcasts	‘flipped learning’ spaces
Assessment	Review	

Source: Prof Shirley Alexander, University of Technology Sydney

Reusing Existing Space

Reusing Existing Space

Reusing Existing Space

Reusing Existing Space

Large collaborative learning spaces

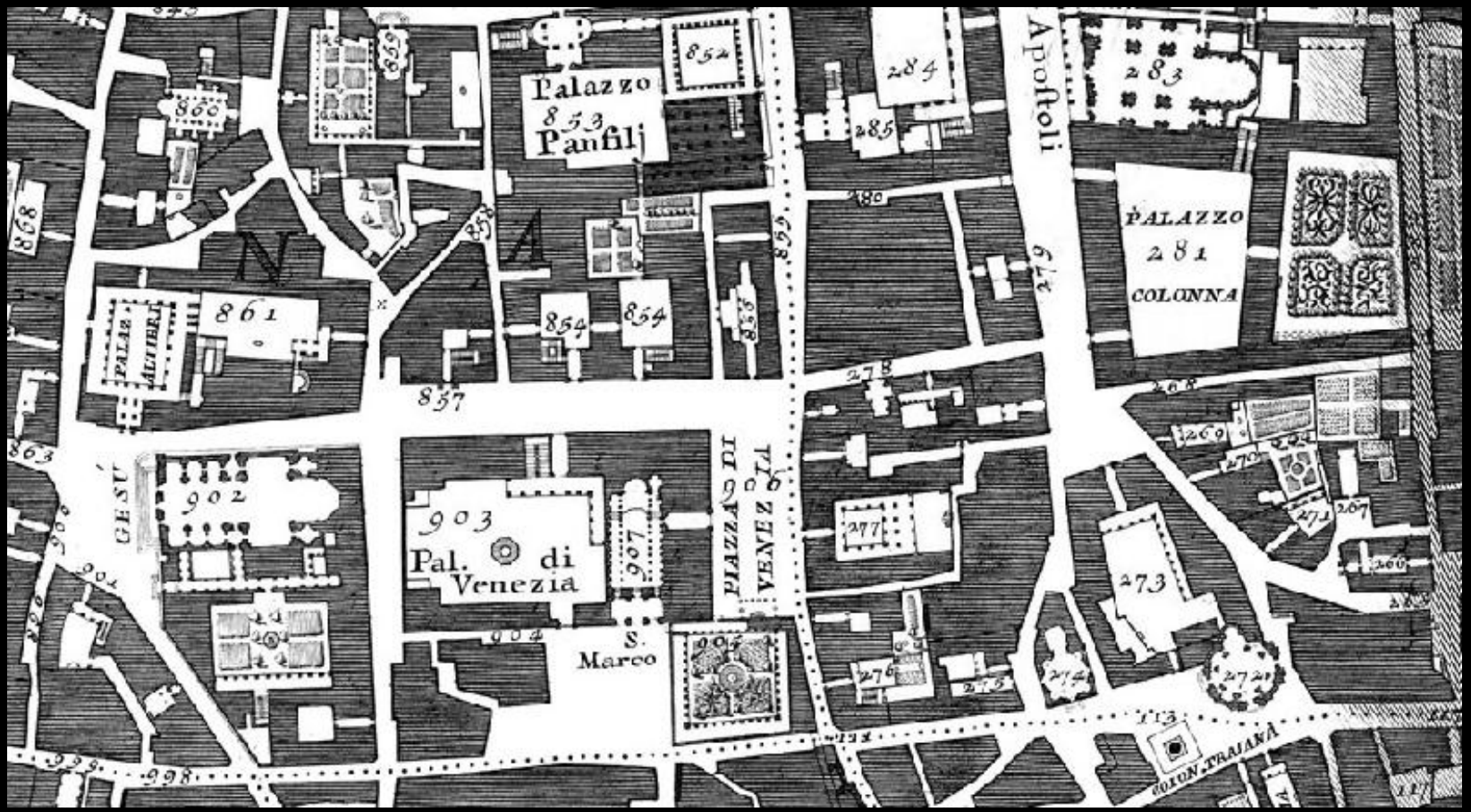
© Shirley Alexander

Large collaborative learning spaces

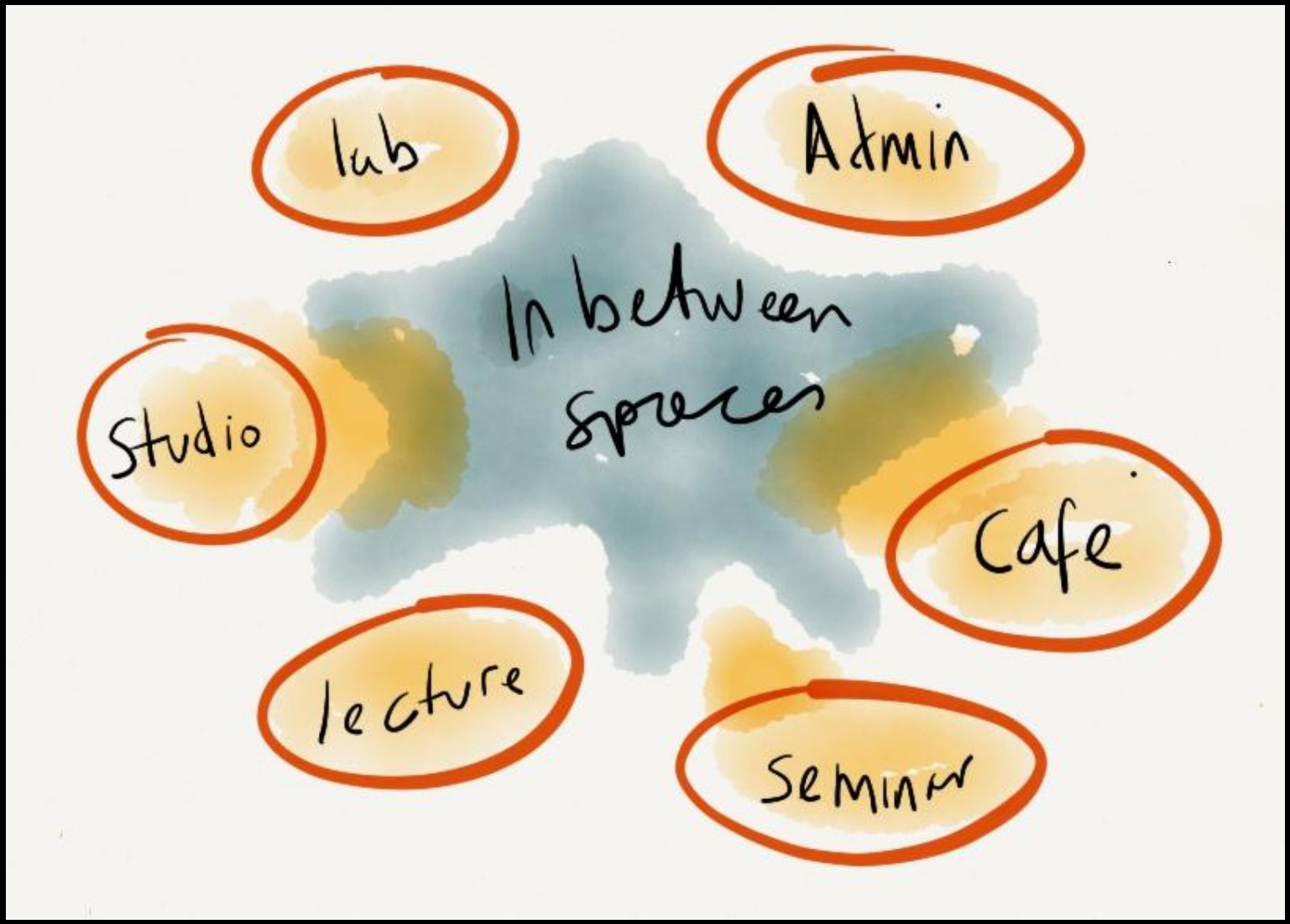
© Shirley Alexander

Creating Stimulating Environments for Learning

Using spaces in between



Nolli's Map of Rome: 1748


lab
Admin
In between spaces
Studio
Cafe
lecture
Seminar

Spaces in between

Faculty of Education, University of Cambridge. Architect: BDP

© Martine Hamilton Knight

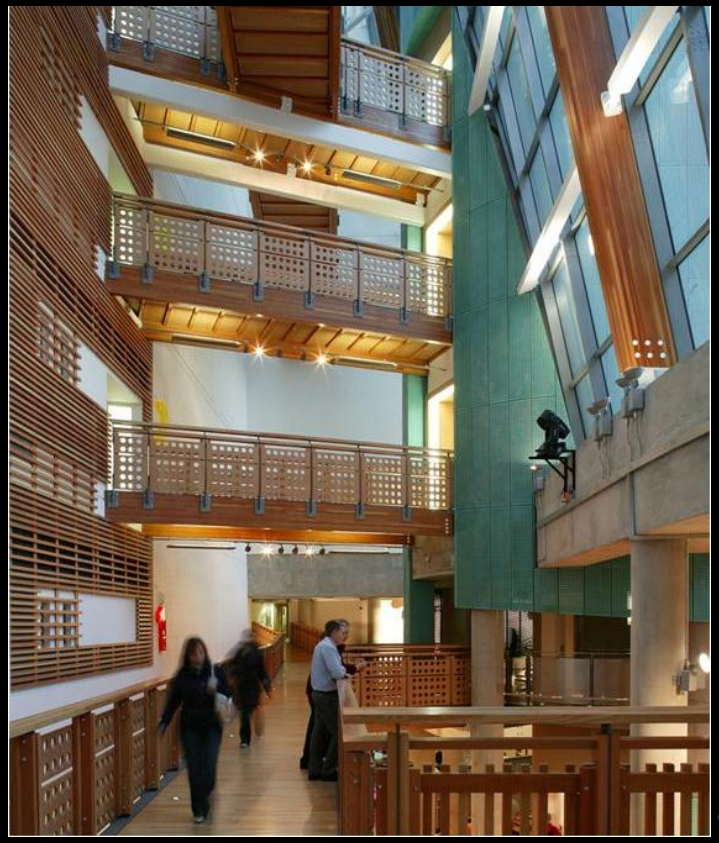
CELE Compendium 2011 Entry

- Openness
- Transparency
- Overlooking
- Passive and active engagement

- The Saltire Centre – Glasgow Caledonian University. Architect: BDP

Spaces in between

The Saltire Centre – Glasgow Caledonian University. Architect: BDP



© David Barbour

CELE Compendium 2011

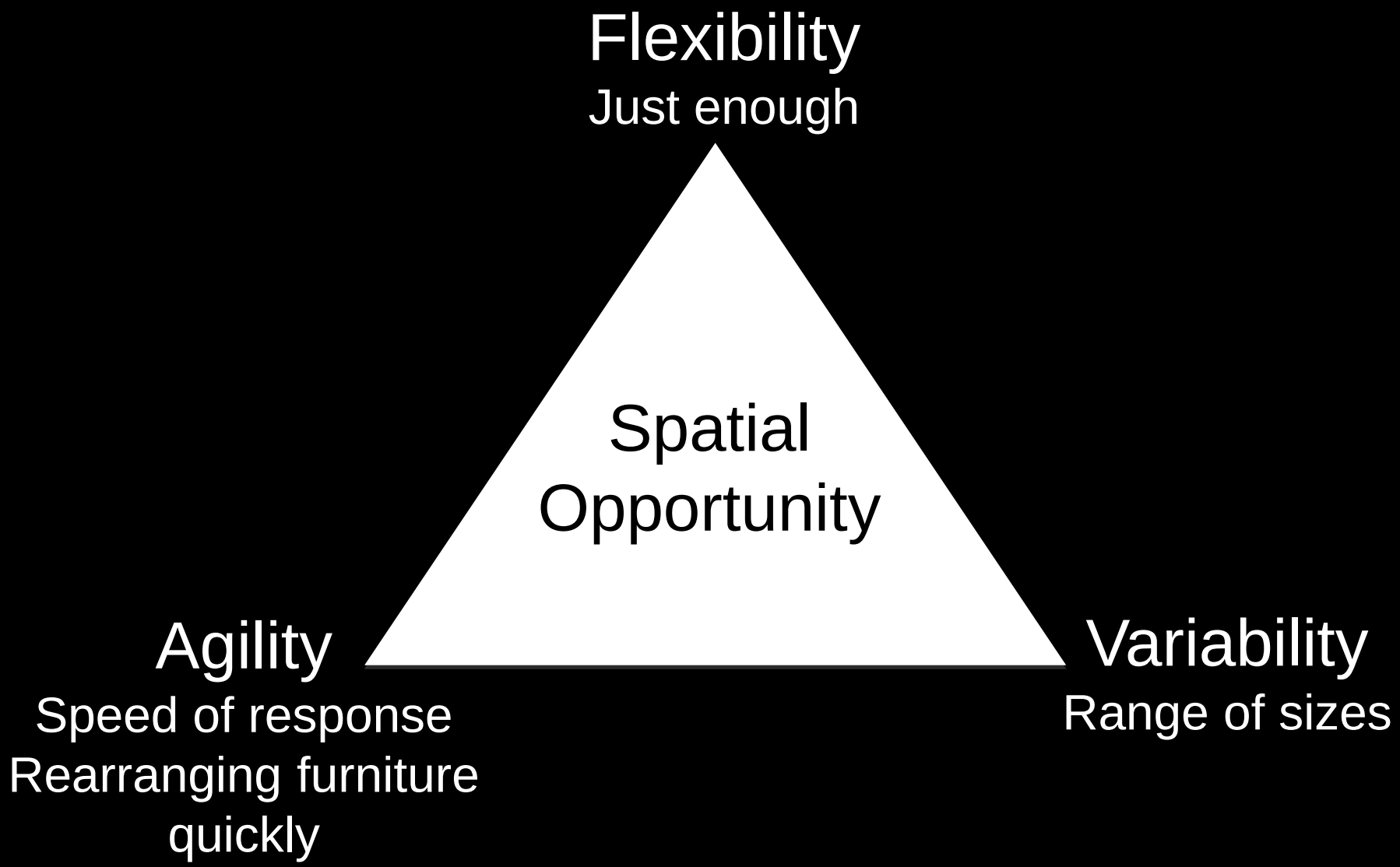
School of Art & Art History University of Iowa: Steven Holl Architects

© Christian Richters

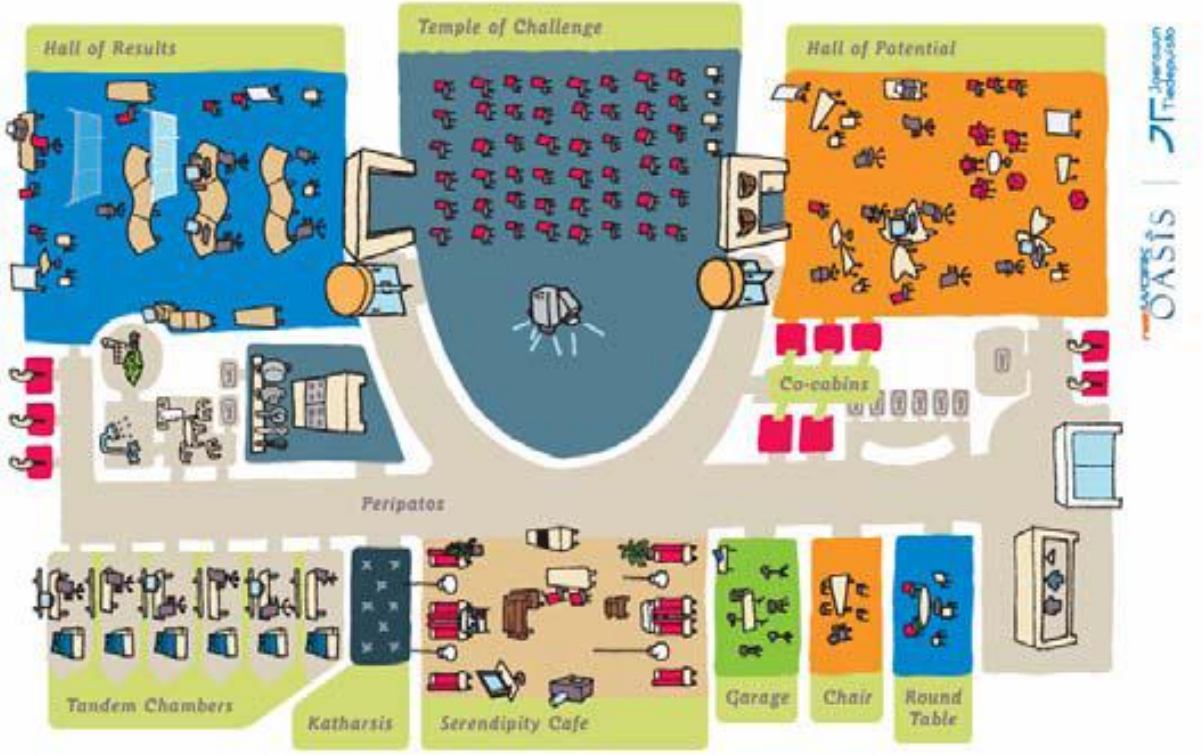
CELE Compendium 2011 Award

Spaces between buildings: University of Melbourne

The potential of external space


Flexibility
Just enough
Spatial
Opportunity
Agility
Speed of response
Rearranging furniture
quickly
Variability
Range of sizes

Provide a mix of space types and sizes



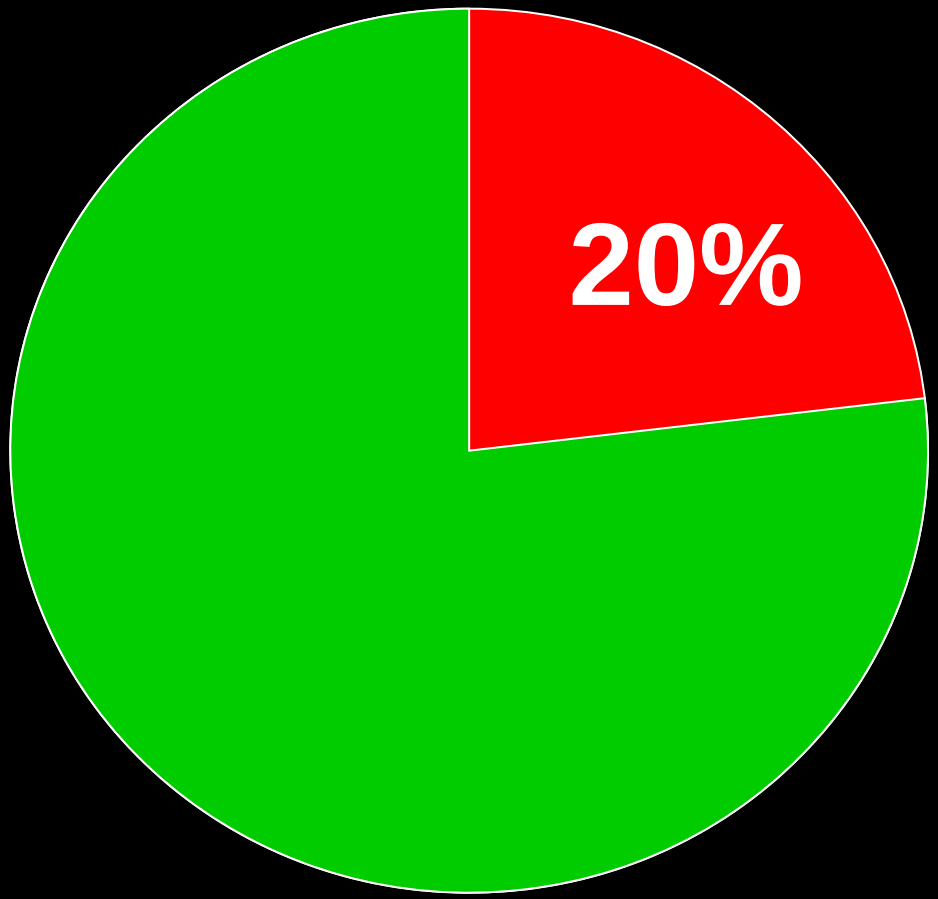
© Ilka Kakko

Network Oasis, Joensuu Science Park

Shown at Higher education Spaces and Places, Helsinki, Finland 2008

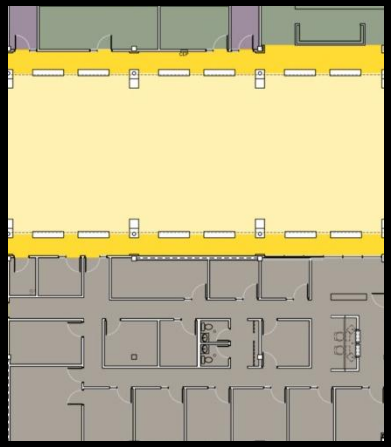
University facilities represent 20% of operating costs

Source:TEFMA 2009



Space Costs Money

Rethinking the property portfolio



Core

Owned

Brand / Image

Flexible

Leased

Shared with partners

On-demand

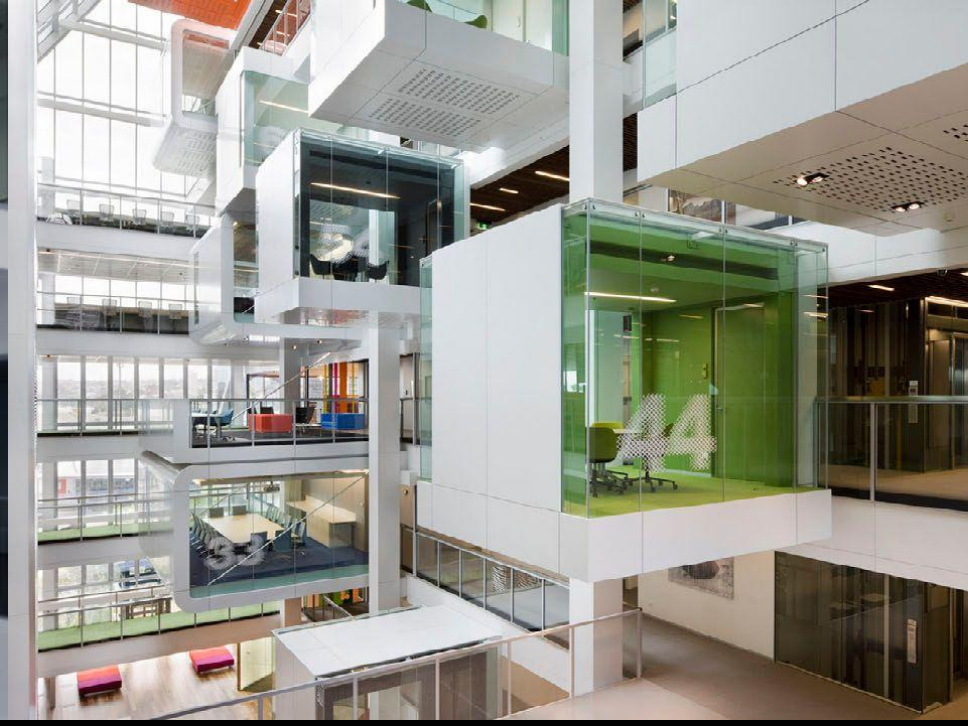
Short-term

Project start-ups with partners

Universities rethinking the use of space

e.g. SANE Report, DEGW 2001

IT University, Copenhagen Architect: Henning Larsen



Macquarie Bank, Sydney, Australia. Clive Wilkinson

Learning environment? Workplace? Both

The City as the Learning Environment

Thank You!

Alastair Blyth

alastair@alastairblyth.com

www.alastairblyth.com

Managing the Facilities

THE
Times Higher Education
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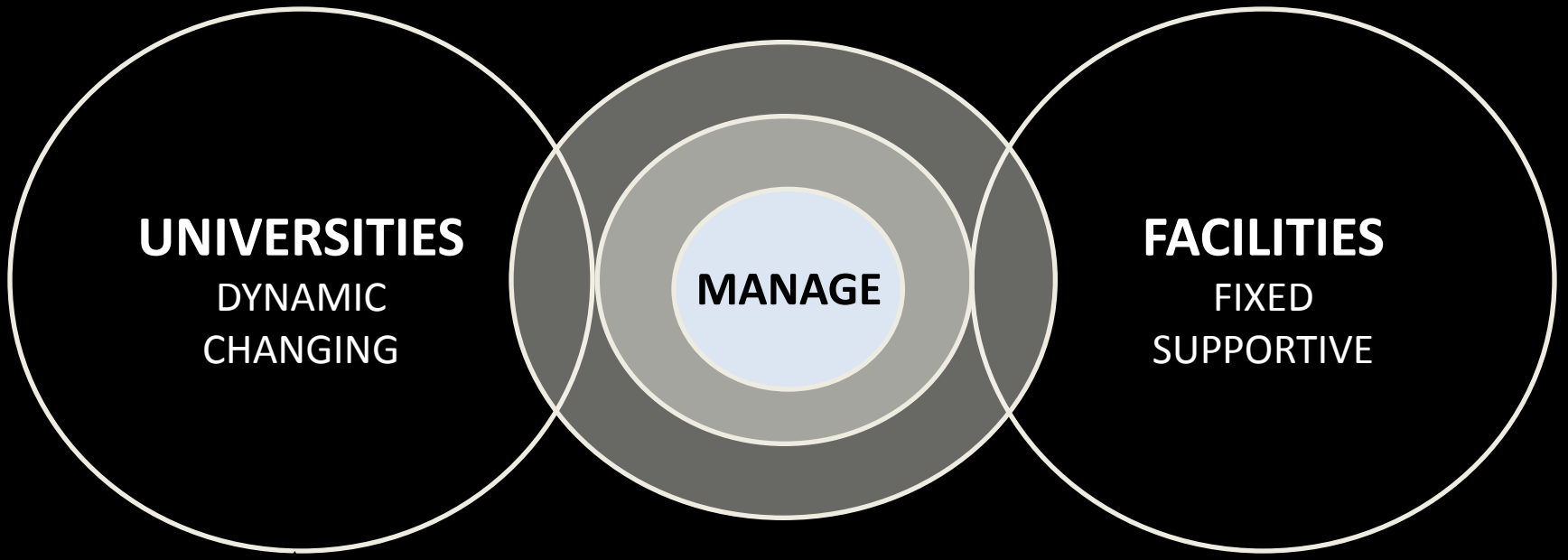
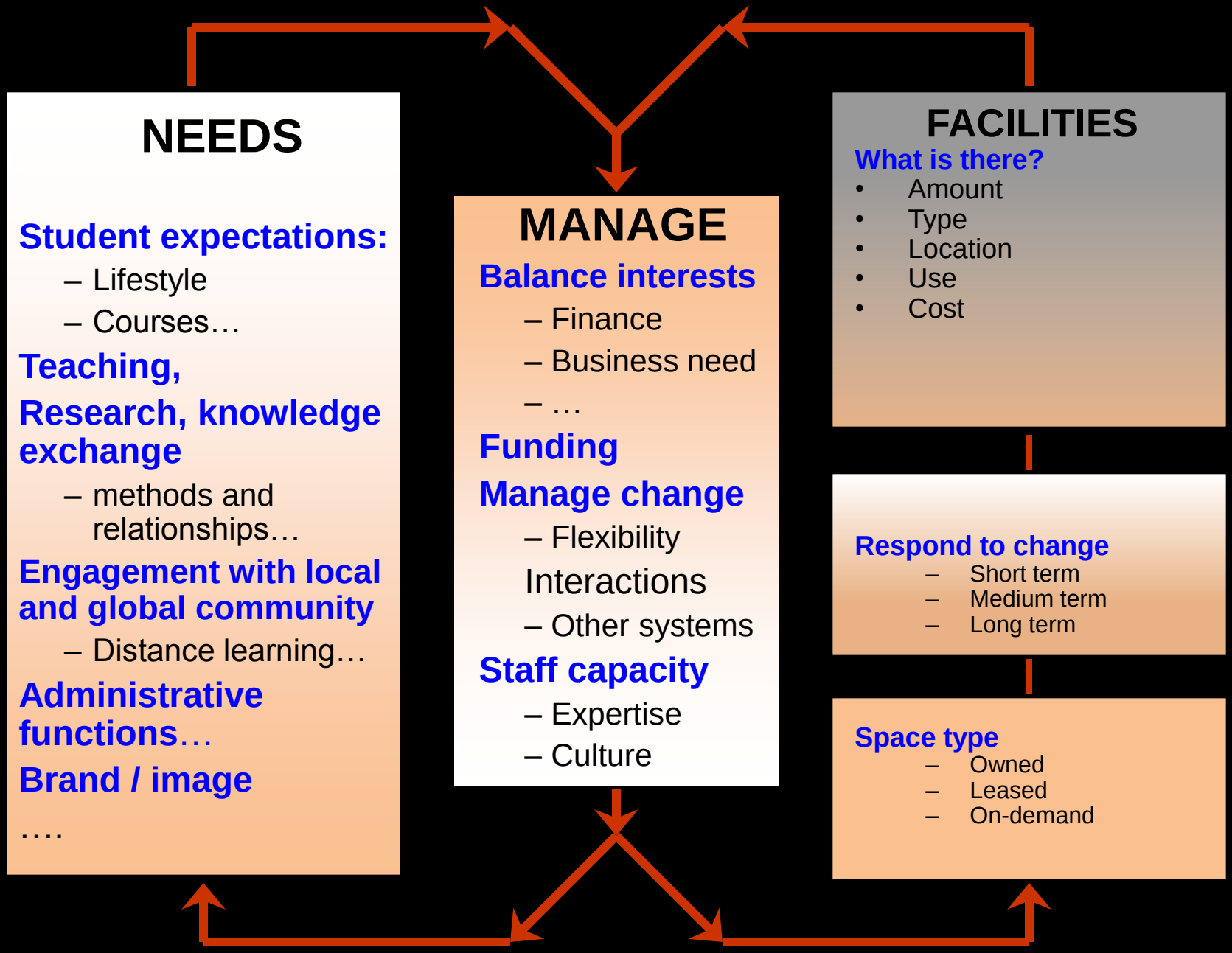
Figures reveal huge drop in students starting university
Like 2
38
14 September 2012
By John Morgan
The number of mainstream students set to start higher education courses in England this year is down 62,000, or 17 per cent, on last year's figures, analysis by Times Higher Education suggests.
The Universities and Colleges Admissions Service today published data for
2012-13 study that give a bigger drop than previous figures,
It is the first time Ucas has published such figur
among universities about the fall in student
The latest figures show a
Fundi
17% drop

Facilities should be supportive

Manage both space need and use



Innovation activities


NEEDS
Student expectations:
– Lifestyle
– Courses…
Teaching,
Research, knowledge exchange
– methods and relationships…
Engagement with local and global community
– Distance learning…
Administrative functions…
Brand / image
….
MANAGE
Balance interests
– Finance
– Business need
– …
Funding
Manage change
– Flexibility
Interactions
– Other systems
Staff capacity
– Expertise
– Culture
FACILITIES
What is there?
• Amount
• Type
• Location
• Use
• Cost
Respond to change
– Short term
– Medium term
– Long term
Space type
– Owned
– Leased
– On-demand