

# Who is really in charge of designing Innovative Learning Environments?





Australian Government

Department of Education, Employment and Workplace Relations

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## Overview

Building the Education Revolution (BER) is a \$16.2 billion investment that provides world-class educational facilities, through new infrastructure and refurbishments, to all eligible Australian schools.

BER is a key element of the Australian Government's \$42 billion Nation Building - Economic Stimulus Plan, which aims to provide economic stimulus by supporting employment through local infrastructure projects.

All BER funding has now been allocated for each of three elements of the BER, which has seen:

- the \$14.1 billion Primary Schools for the 21st Century (P21) element deliver funding to 7 961 schools for 10 665 projects including new libraries, multipurpose halls, classrooms and the refurbishment of existing facilities;
- the \$821.8 million Science and Language Centres for 21st Secondary Schools (SLC) element deliver funding to 537 schools for the construction of new or refurbishment of existing science laboratories or language learning centres; and
- the \$1.28 billion National School Pride program (NSP) deliver funding to 9 497 schools for 13 047 projects, including the refurbishment of buildings, construction or upgrade of fixed shade structures, covered outdoor learning areas, sporting grounds and facilities and green upgrades.

**\$16.2 billion  
for 24,382  
infrastructure  
projects in  
9,526 schools**

# Schools hit a wall with open-plan classrooms

November 23, 2015



**Henrietta Cook**  
Education Reporter at The Age  
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New dividing walls separate classes in open-space rooms at Laverton P-12 College. Photo: Jason South

They knocked down walls to revolutionise learning and now they are putting them up again. Open-plan classrooms have caused nothing but trouble for many schools, which are putting up partitions and walls to counter the deafening noise created in the barn-like spaces.

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VET Fee Help Approved. Study on-campus c

# Otago Daily Times

Online Edition | Tuesday, 1 December 2015 | 15:13:40

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## Value of education project queried

Home > News > Regions  
By John Lewis on Thu, 15 Oct 2015  
The Regions: Otago

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Hekia Parata says the ministry will put \$160,000 over four years into the project and research will begin in 2016. Photo: NZ Herald

Hekia Parata says the ministry will put \$160,000 over four years into the project and research will begin in 2016. Photo: NZ Herald

Otago primary principals have been left scratching their heads after the Ministry of Education committed funding to a new education partnership with Australia that aims to explore how innovative learning environments can enhance teaching.

The transtasman education partnership, titled the Innovative Learning Environments and Teacher Change Project, was announced by New Zealand Education Minister Hekia Parata earlier this week.

It involves the ministry and at least six New Zealand schools participating in the four-year project, led by the University of Melbourne's Learning Environments Applied Research Network.

The project leadership team includes Prof John Hattie, a former Auckland University education professor and current director of the Melbourne Education Research Institute.

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## All in together - 197 students in one room

June 6, 2011  
Andrew Stevenson

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Noisier but not distracting ... Zac Gerheard (from left), Christian Stathopoulos and Bessie Phillips work on their laptops in the mega classroom at St Monica's Primary. Photo: Brendon Esposito

THE blackboard has already gone from most NSW classrooms. Now, the head of a big school system is determined that the classroom itself joins it in the scrapbook of history.

"It's dead," said Greg Whitby, the executive director of 78 schools in the Catholic diocese of Parramatta, which 42,000 students attend.

He is not alone. The Sydney diocese has embarked on the same path for primary schools. Forty of the 112 primary schools already use large-form learning areas instead of classrooms and the diocese is keen to expand their use.

4 Girls from schools in S

Most P  
1 Missi Lucas Coleman  
2 Hotel w Nolan s Facebook  
3 Aborigines become n subject

Reflection



GEORGE  
STREET  
NORMAL  
SCHOOL



Adventure  
Playground

Dental Nurse

Little School

School Hall

Big School

Fish n chip shop



11-17 Buckingham Street  
Surry Hills NSW 2010, Australia



19.2.65  
Yesterday we  
sailed from Devon  
port. Before we  
left our mothers  
came to say good  
bye to us. When  
our mothers came  
we said "Welcome  
aboard." We showed  
them about the  
room. Before we  
left we put stream  
ers out the mouth of



by Gerald Smith

Yesterday we sailed  
again from East Devon  
port. We are sailing  
to Africa to see  
leopards. We also  
hope to see the  
gorillas. We are going  
to see the tiger and  
a giraffe. The  
zebra is black and  
white. He is like a  
donkey. In Africa  
people have black and  
brown skins. The



Cross it King  
Neptune will come  
on the ship. Soon  
we will sail to  
India. We will go  
to the jungle to  
see some monke  
ys, elephants and  
tigers. Wesley  
Lmms is King  
Neptune. He is  
the King of the





Dovey and Fisher's (2014) learning space types, as adapted  
 By Imms, Cleveland and Fisher (2016)

This manual has been prepared and issued by the Department of Education, Wellington.

Enquiries concerning it should be addressed to:

The School Development Officer,  
Department of Education,  
WELLINGTON C. 1.

Amendment Number	Date	Amended	Date
1			
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150/3/56-61211 J

# PRIMARY SCHOOL BUILDINGS MANUAL



DEPARTMENT OF EDUCATION

WELLINGTON, N.Z.

1956

## INTRODUCTION

- (a) The following is a minimum standard for new primary-school buildings. It gives what are considered to be the basic essentials for primary schools of various sizes. In the light of experience it will be amended if the need arises.
- (b) The minimum standard must be complied with in planning new buildings, but the calculations fixing the cost per place allow a margin, up to the limit approved, for some of the standard items to be exceeded. The manner in which they are to be exceeded in any new building that is being planned will be decided by the Education Board after it has received the joint recommendation of its Architect, its Secretary-Manager, and the district Senior Inspector.
- (c) It is important that a close consultative relationship should be maintained with the Department on planning matters. So far as formal approval of particular plan changes is concerned, variation within an approved over-all design may be made by a Board without Departmental approval. Where a complete change of design is involved, the Board



The Architectural Process

	Full Service Percentage of total fee	Partial Service Percentage of total fee
<b>Schematic Design</b>	<b>Column 1</b>	<b>Column 2</b>
1. Evaluate and comment on client's brief (not prepare brief)	0.75	1.00
2. Prepare preliminary schematic design drawings	7.00	8.00
3. Review and adjust design to satisfy brief	2.50	3.50
4. Report on proposal	1.00	1.50
5. Preliminary estimate of cost/adjustments to design	0.75	1.00
<b>Design Development</b>		
1. Develop preliminary drawings, revise in accordance with clients' instructions, provide preliminary estimate of cost	9.75	10.50
2. Review and adjust to satisfy client's instructions	0.75	1.50
3. Organise and chair consultant meeting	0.75	1.00
4. Prepare final design report on proposal	1.00	1.00
5. Prepare estimate of cost	0.75	1.00
<b>Contract Documentation</b>		
<b>Tender Drawings</b>		
1. Prepare preliminary drawings	9.00	10.00
2. Prepare construction details	4.00	5.00
3. Prepare final drawings	17.00	18.00
4. Prepare schedule of finishes	0.50	0.50
5. Prepare Specification Notes	0.25	0.25
6. Prepare general conditions of contract and preliminaries for specification	0.25	0.25
7. Specification, drafting, editing, typing	8.00	9.00
8. Organise, attend and chair consultant/client meetings, distribute minutes	2.00	2.50
9. Direct consultants and integrate services	2.50	3.00
10. Revised estimate of cost based on contract documents	1.50	1.50
<b>Tendering and Negotiating</b>		
1. Call tenders	2.00	2.00
2. Advise on tenders	2.00	2.00
3. Negotiate with successful tenderer	1.00	2.00
<b>Contract Administration</b>		
1. Administer contract, including progress payments, variations to contract, rise and fall, selections and recommendations	10.00	11.00
2. Prepare detailed explanatory drawings and drawing of particular construction, deemed necessary for contractor	2.00	3.00
3. Prepare drawings and information associated with contract variations	2.00	3.00
4. Inspect works	10.00	11.00
5. Administer defects liability period and warranties	1.00	1.00
<b>Schematic design</b>	12%	15%
<b>Design development</b>	13%	15%
<b>Construction documentation</b>	45%	50%
<b>Tendering and negotiating</b>	5%	6%
<b>Contract administration</b>	25%	29%



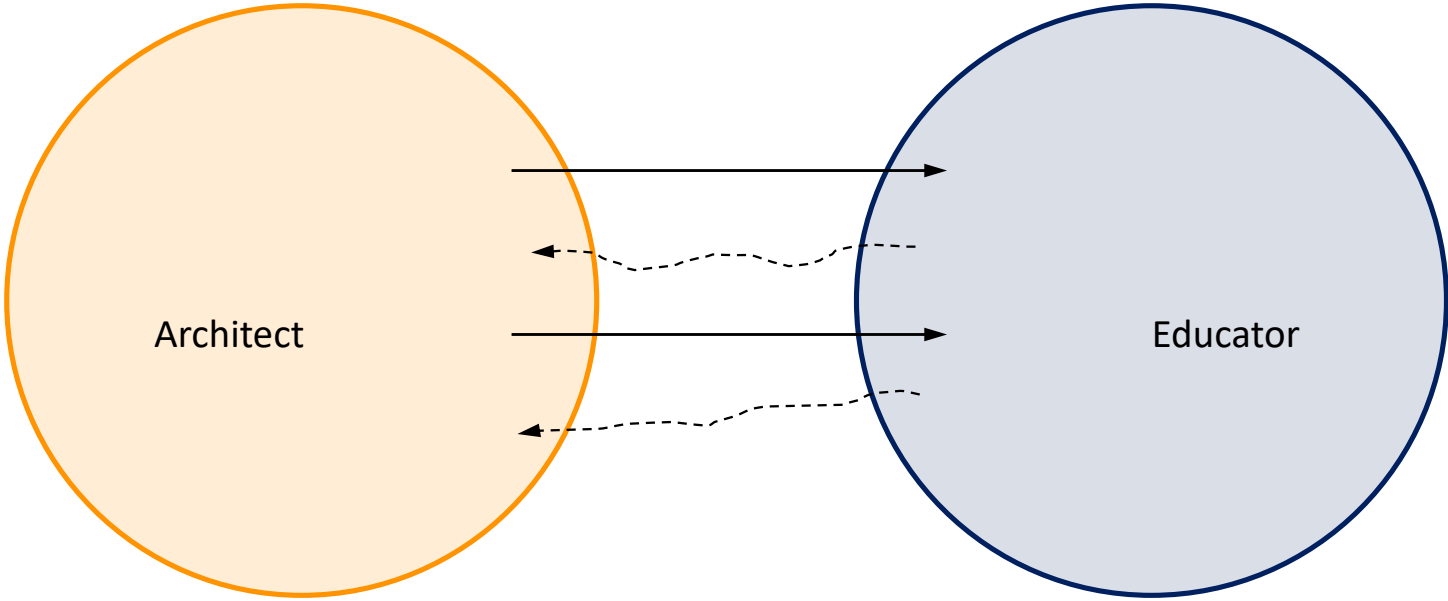
Evaluate and comment on client's brief (not prepare brief)

Full service = 0.75%  
Partial service = 1%

RAIA Practice Note AN02.03.102 Fee for Partial Services, July 2001. Now Withdrawn

Source – This table has been formed from information gained from similar tables previously compiled by the Association of Consulting Architects

These Notes are issued by the RAIA for general guidance only. No responsibility for their accuracy or currency is accepted by the RAIA, its office-bearers, members or staff or by the author.



'Old' Approach

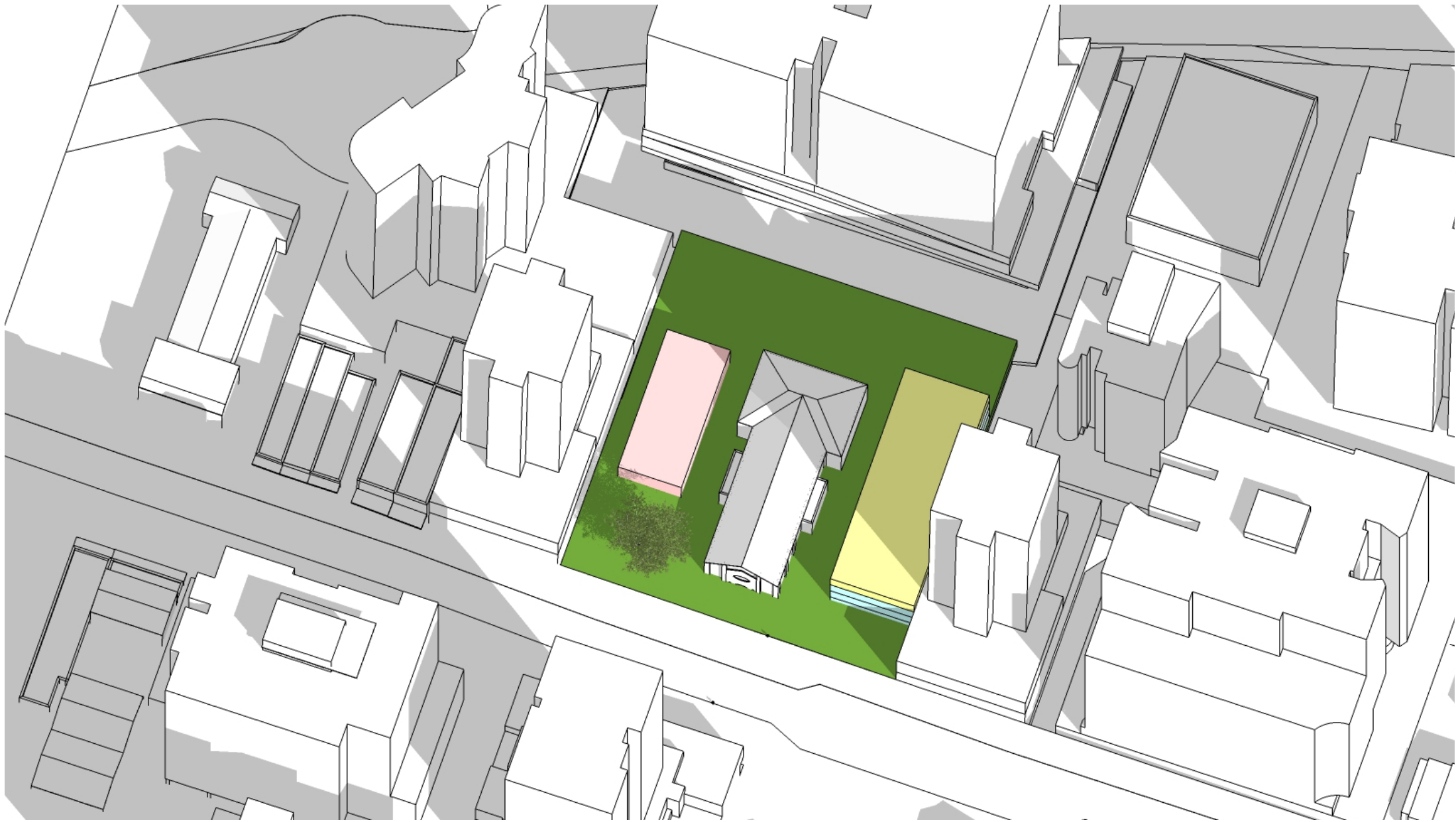


Relevance



1 FITOUT PLAN - FIRST FLOOR  
1:100

SITE BOUNDARY









### South Melbourne Primary School (Ferrars St) Virtual Tour

1,235 views

Like 1, Comment 0, Share, and more options



**Victorian School Building Authority**

Published on Jul 6, 2017

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Incredible virtual tour through the upcoming South Melbourne Primary School. We've seen great progress on the site of this international award-winner, as well as the surrounding area which will have two tram stop upgrades and a new community park, creating a vibrant inner-city hub for

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Up next

AUTOPLAY



**Richmond High School Virtual Tour**

Victorian School Building Authority  
3.6K views



**South Melbourne Primary School will feature no formal**

Dezeen  
7.7K views



**South Melbourne Primary School (Ferrars St) time-lapse**

Victorian School Building Authority  
278 views



**Under construction: rising to a height of six storeys, South**

Hayball Architecture  
495 views



**Building South Melbourne Primary School**

Victorian School Building Authority  
971 views



**An upgrade for Carlton Primary School**

Victorian School Building Authority  
442 views



**Meet the Principal: South Melbourne Primary School**

Victorian School Building Authority  
80 views



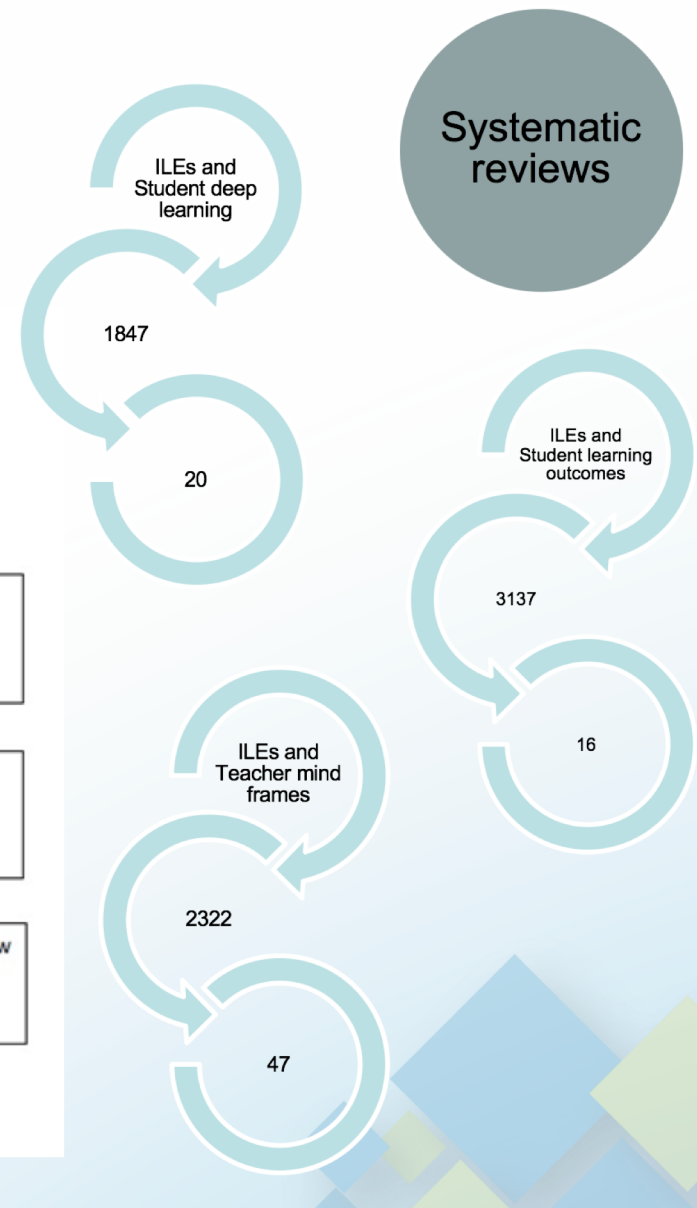
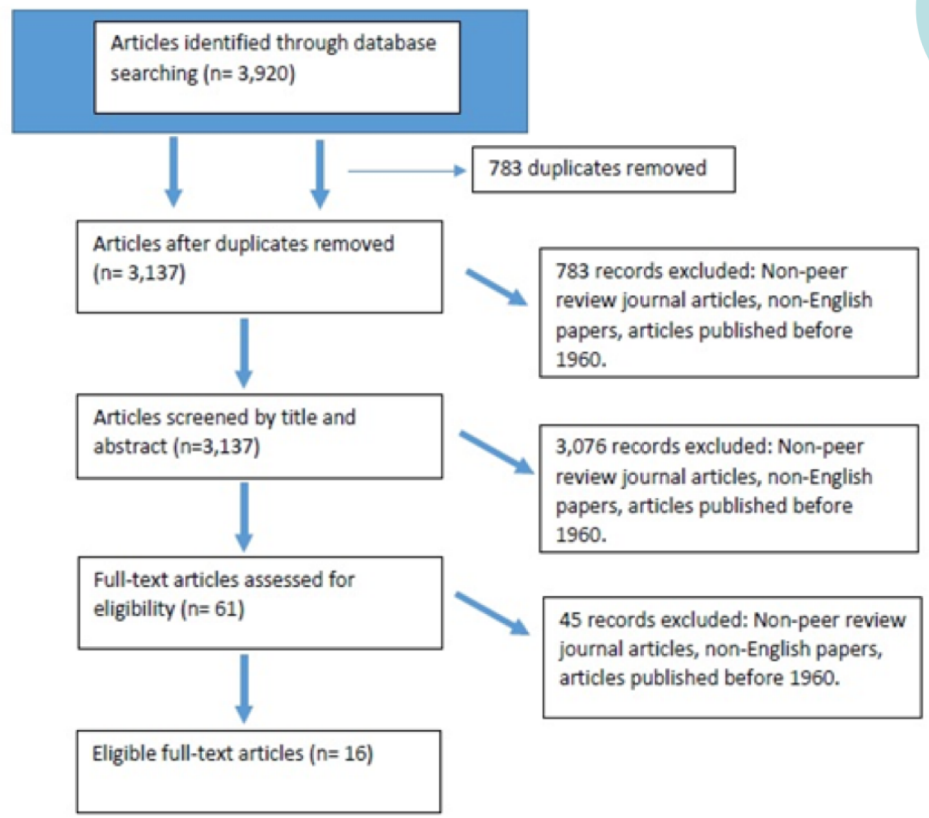
A significant part of this design brief should be the consideration of **new forms of teaching and learning**, which should be evident in your proposal and its articulation.

Proposals need to **support a wide variety of different teaching and learning styles** such as project based learning, cooperative learning, peer tutoring, integrated technology that is available when and where needed and team teaching.

Projects must **propose pedagogical approaches, exploring architectural implications.**



# Collecting evidence







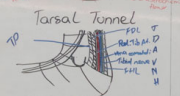
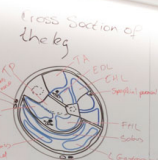
Camberwell High School, VIC. Photographer: Dianna Snape



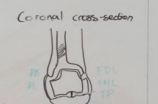
St Francis Xavier College, VIC. Photographer: Dianna Snape



Abdominal Aorta  
↓  
Common Iliac Artery  
↓  
External Iliac Artery  
↓  
Femoral artery  
↓  
Popliteal artery  
↓  
Tibial artery



4 layers of the Sole  
L1 → Abductor hallucis, flexor digitorum profundus, adductor hallucis, flexor digitorum superficialis  
L2 → Flexor hallucis longus  
L3 → Flexor hallucis longus, flexor digitorum profundus, flexor digitorum superficialis  
L4 → Dorsal and plantar nerves



Handwritten anatomical notes and diagrams on the whiteboard, including:

- Anterior: femoral artery, femoral vein, femoral nerve
- Medial: adductor longus, adductor magnus, adductor minimus
- Posterior: popliteal artery, popliteal vein, popliteal nerve
- Distal: tibial artery, tibial vein, tibial nerve

Diagrams include:

- Anterior view of the knee
- Coronal view of the knee
- Transverse view of the knee
- Diagram of the hip joint
- Diagram of the foot and ankle

Handwritten notes on a separate whiteboard, including:

- Consider - 3 germ layers - 4 germinal (cell)
- Neurulation - all 4 germ layers form the neural tube (Ectoderm)
- Diagram of neurulation showing the folding of the neural plate and the formation of the neural tube.

La Trobe University, Eastern Campus Redevelopment, VIC. Photographer: Dianna Snape



Yarra Valley Grammar Science and Mathematics Centre, VIC. Photographer: Dianna Snape



Dandenong South Primary School, Junior Learning Centre, VIC. Photographer: Emily Bartlett



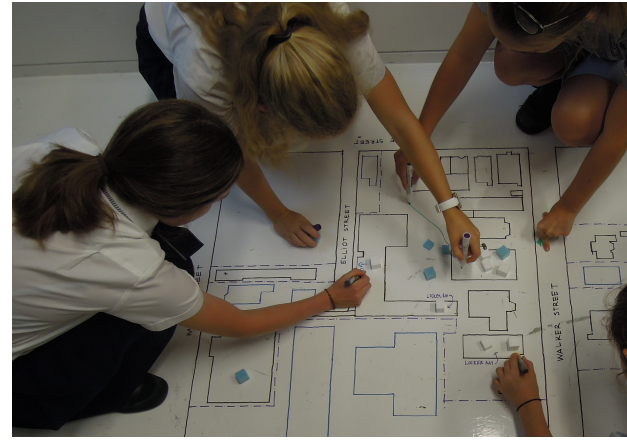
Our Lady of the Assumption Catholic Primary School, NSW. Photographer John Gollings



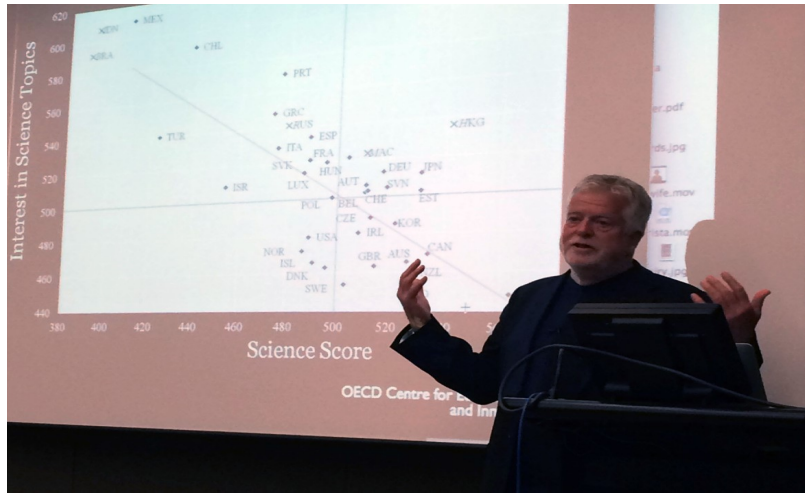


The Caulfield Grammar School The Learning Project, VIC. Photographer: Dianna Snape

“If I had asked people what they  
wanted, they would have said  
faster horses” (not) Henry Ford

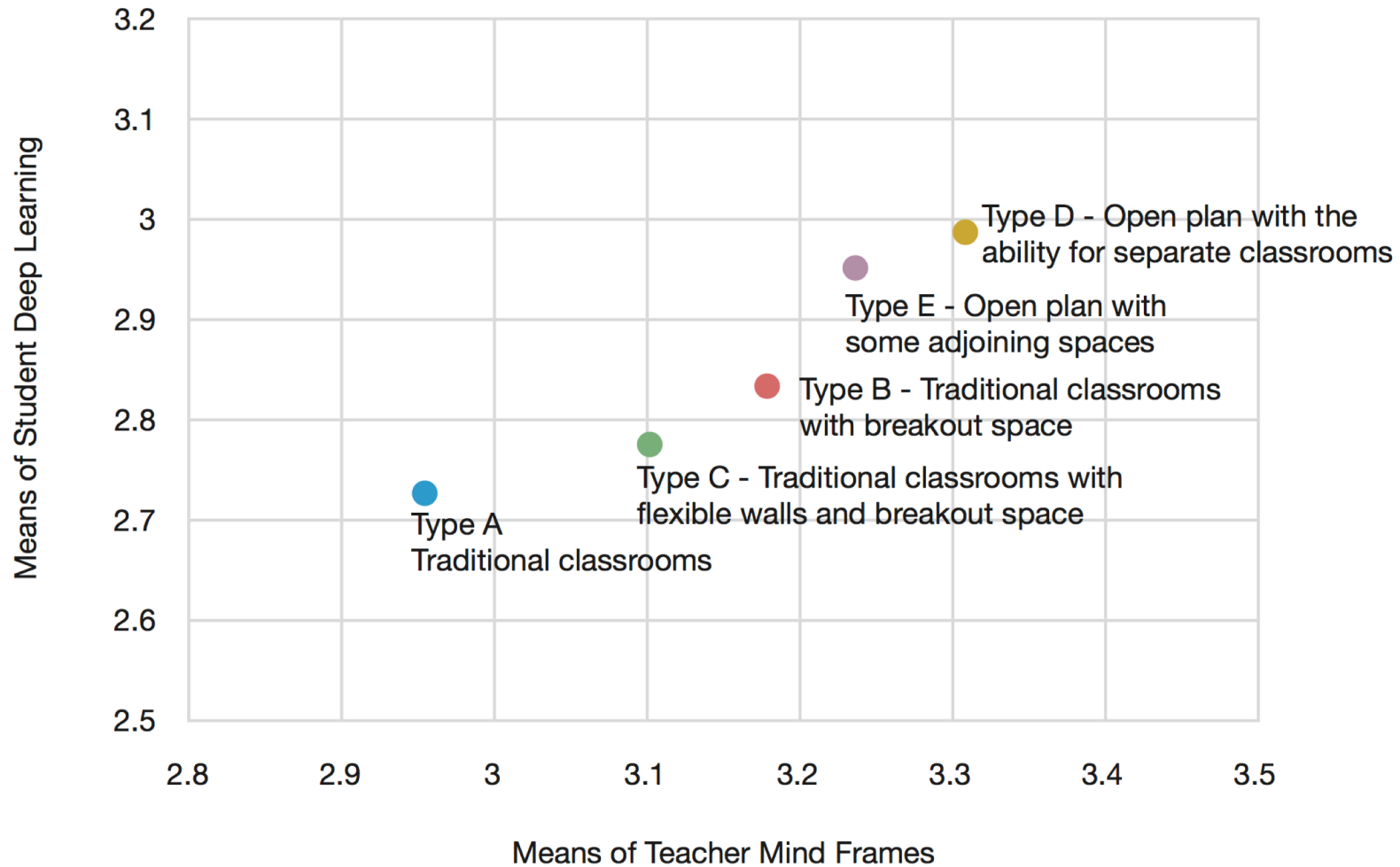




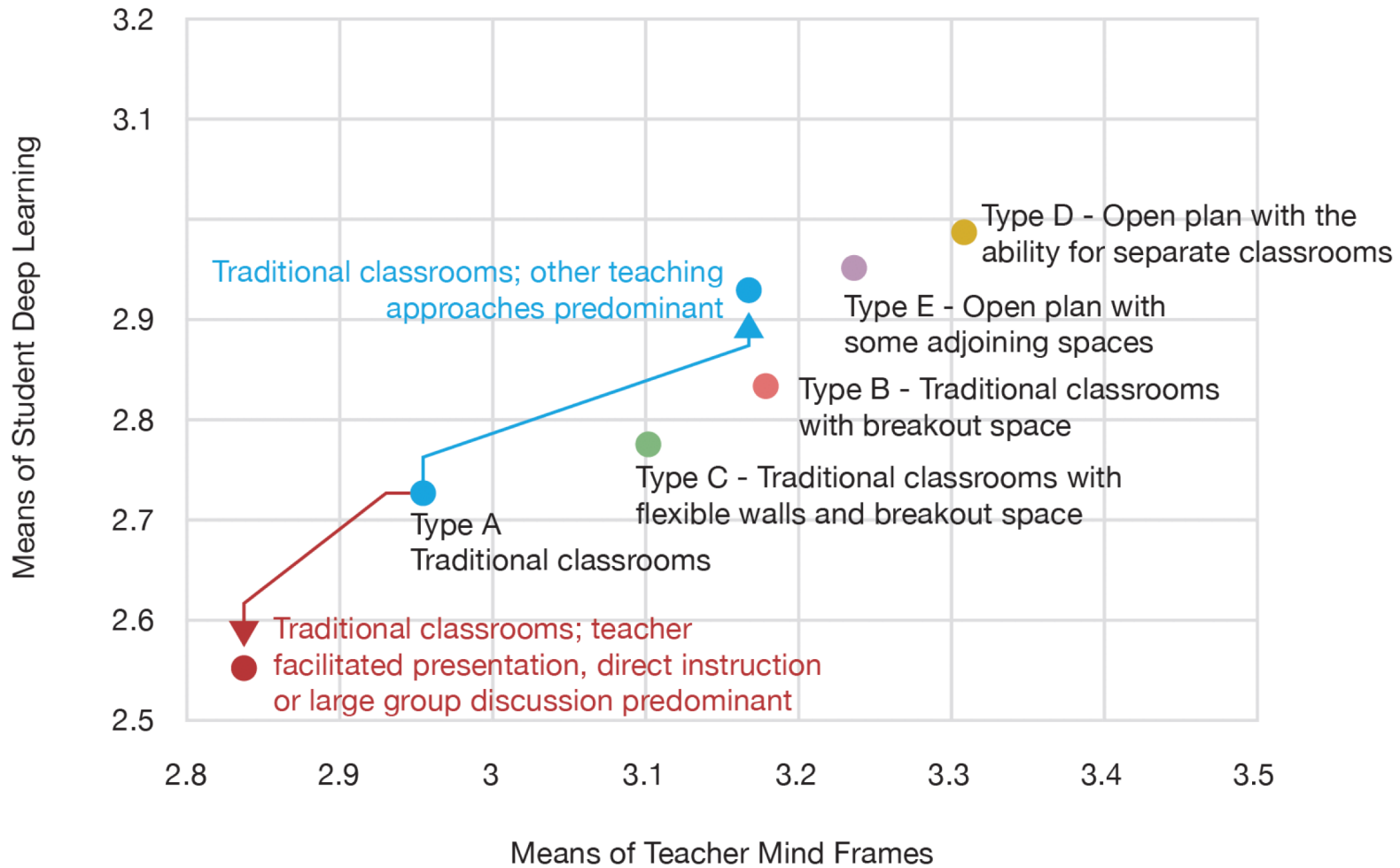


“Open-plan school designs are just as likely to act as containers for conventional as much as for more enlightened modes of teaching and learning” Halpin, 2007

“Unless teachers are prepared and are provided with the necessary professional skills, tools and resources to change their practices, the new built spaces will not move them to innovative pedagogies.” Blackmore et al., 2011



Means of teacher mind frames and student deep learning categorised by most prevalent learning environment type (n=822)



Means of teacher mind frames and student deep learning categorised by most prevalent learning environment type (n=822)





Dandenong Hospital  
Mental Health  
Services  
Adult Acute Unit  
Ambulance Entry























architect



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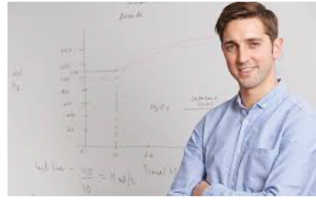
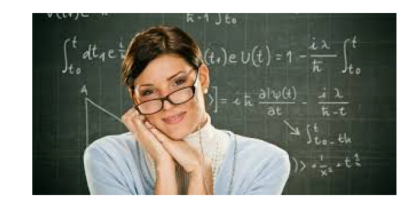
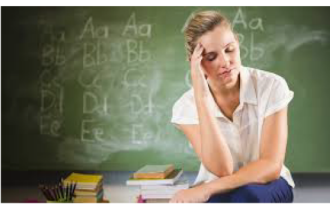
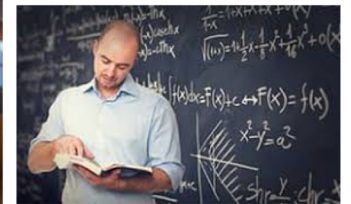


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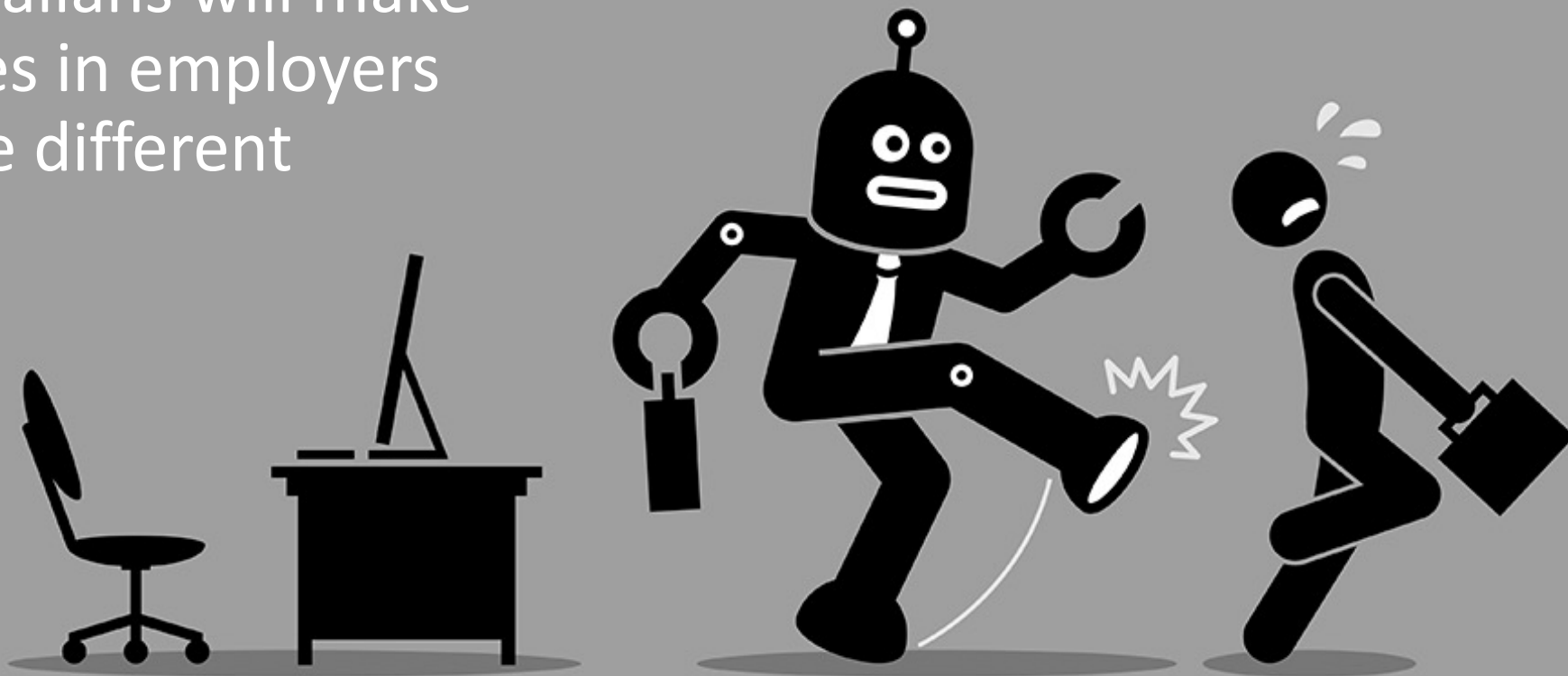
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- fun
- stressed
- tired
- frustrated
- female
- man
- kid
- elementary school
- high school
- middle school
- kindergarten
- primary school
- teaching student
- happy
- funny
- animation
- illustration



Studies have estimated that Australians will make 17 changes in employers across five different careers.





“This primary school serves the Greek Orthodox community based around the All Saints Church. It is the first stage in a master plan that will include further institutional and educational buildings. The building is a simple, four-storey linear block...”

2009 NSW Architecture Public Architecture – Sulman Award



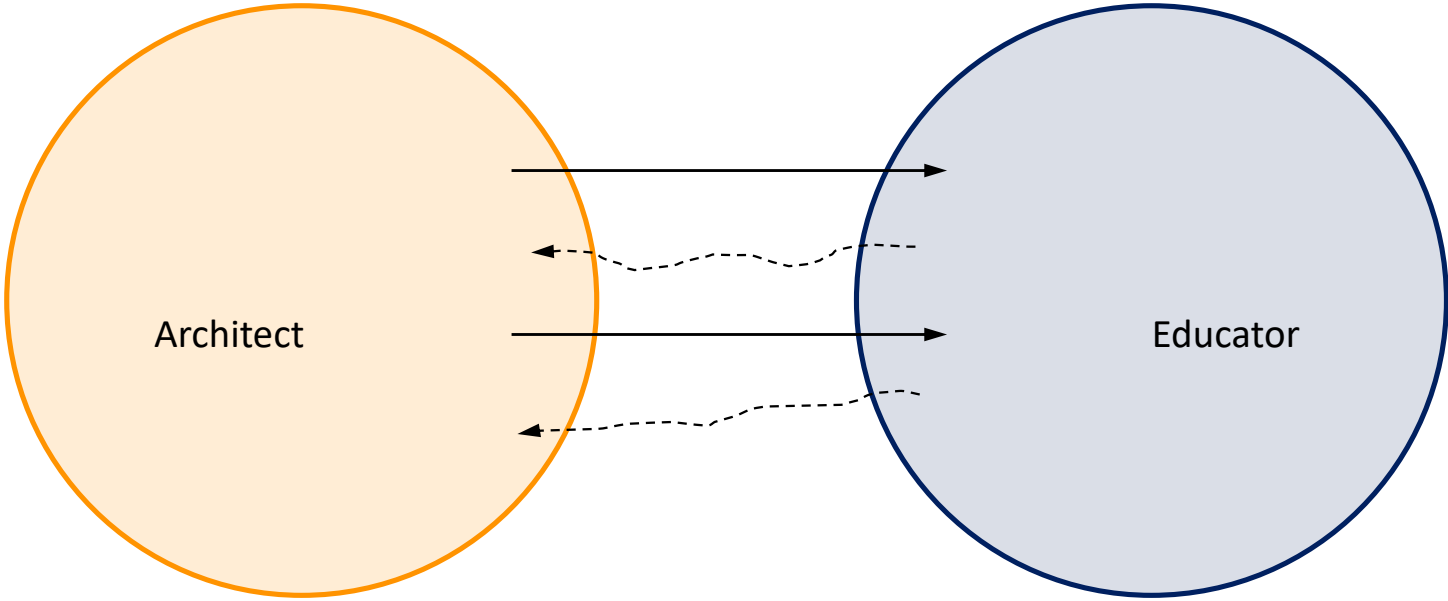
“The Mabel Fidler Building at Ravenswood School is an exemplar for advances in the relationship between education environments and contemporary learning.”

“This building project has been strongly informed by the client, teachers and students themselves, whose influences are palpable in the design.”

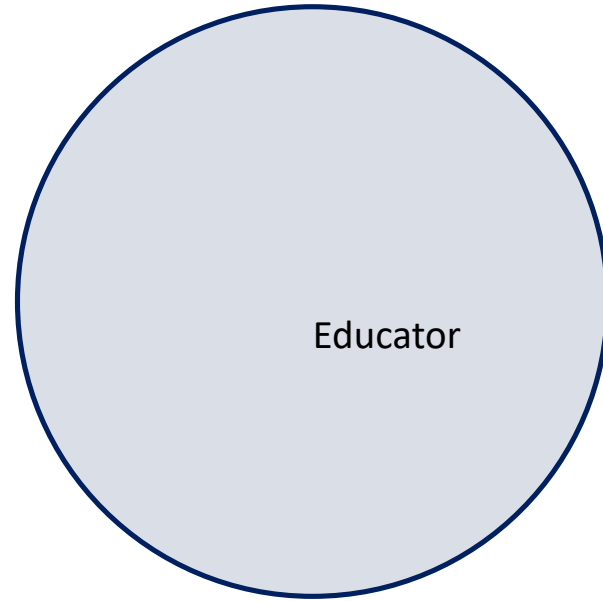
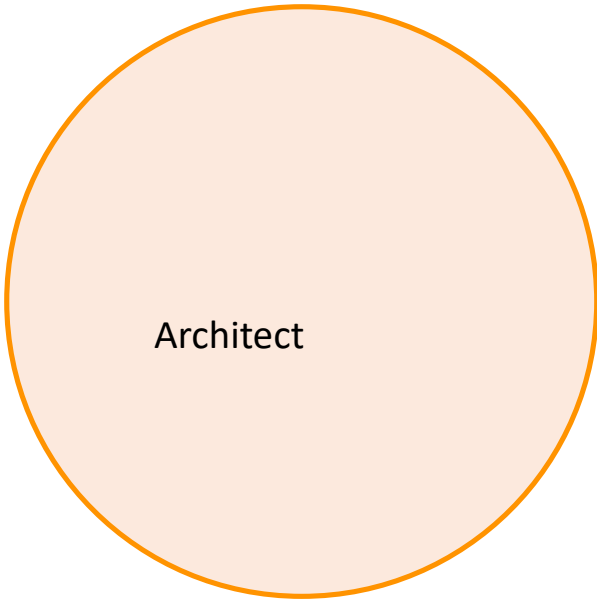
Revolution



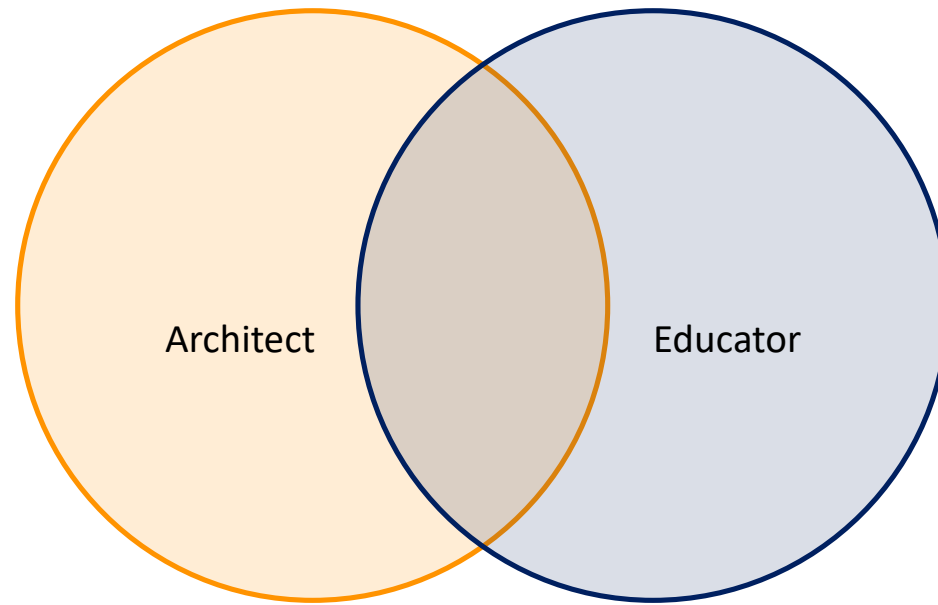




'Old' Approach



'New' Approach



'New' Approach