# BUILDING MORE ON LESS: A COMPARATIVE STUDY FOR INNER-URBAN SCHOOLS

High Rise Schools in Victoria and South Australia



- Richard Leonard, Hayball Architects
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# CBD HIGH SCHOOL – SOUTH AUSTRALIA

CELEBRATING COLLABORATIVE LEARNING

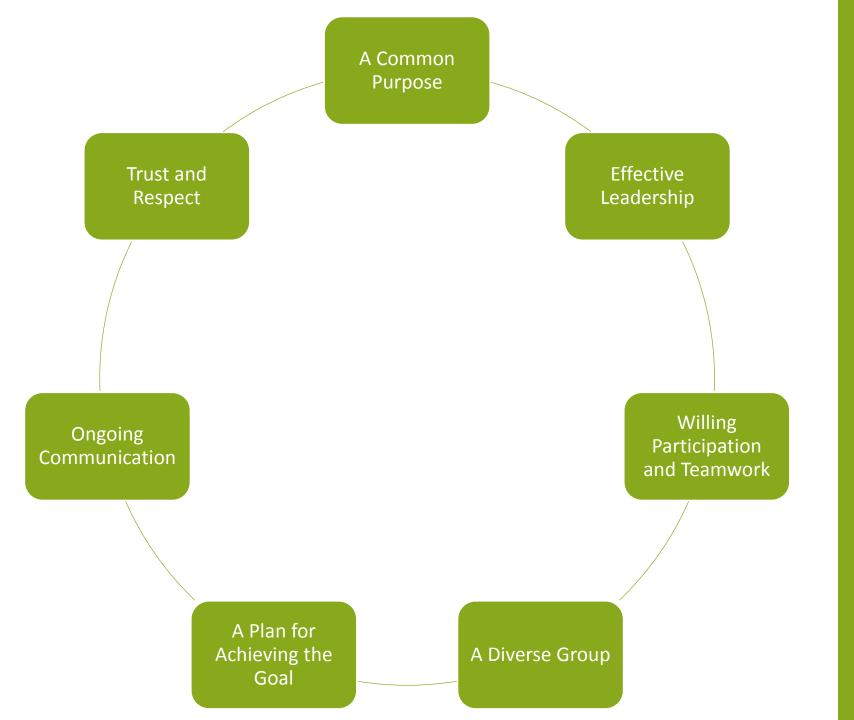
#### **Questions?** Questions?

- what sort of education do we want to see in future?
- what sorts of learning relationships do we want to foster?
- what competencies do we want learners to develop?
- what tools, resources support are available to us to assist learning?



#### NEW CBD SCHOOL ANNOUNCEMENT

- 2019 New CBD high school to open due to changing demographics
- Capacity for 1,250 students
- School will be based in a refurbished building on Frome Road (Reid Building) with additional extensions to achieve functional requirements
- Nestled between Park Lands, the Botanic Garden, Adelaide Zoological Gardens and Botanic Park
- Special focus on Science, Technology, Engineering and Maths (STEM), with Science and Health Science as a feature



# WHAT DO YOU NEED TO ACHIEVE COLLABORATION?

# ONE STEP FURTHER - CRITICAL COLLABORATION

Once team members are comfortable they can effectively:

- Achieve free flow thinking
- Challenge each other
- Push each other to think outside the square / go beyond the norm
- Work together to consider different ways
- Team members may not agree
   but the process is always
   respectful and constructive



# STAKEHOLDERS

- Over 200 people contributed to the design
- Developed a virtual school community



## KEY EDUCATION DRIVERS

- The new CBD School is a technology rich, inter-disciplinary and contemporary learning environment that engages all learners.
- With a strong focus on Science, Technology, Engineering and Maths (STEM), and the areas of Science and Health studies as a feature, the school develops innovative and creative learners.

 The school has strong leadership and is well connected to its exciting Adelaide CBD and Park Lands setting.



# PEDAGOGY VISION - contemporary learning approaches

The school's educational program will:

- Foster students as innovative and creative learners
- Provide young people with a range of experiences, thoughts, ideas and perspectives that can enrich decision making processes and outcomes
- Foster the school as a community of learners
- Afford the student with mobile, digital technology seamlessly integrated to enable

them to shape and engage with their learning environment



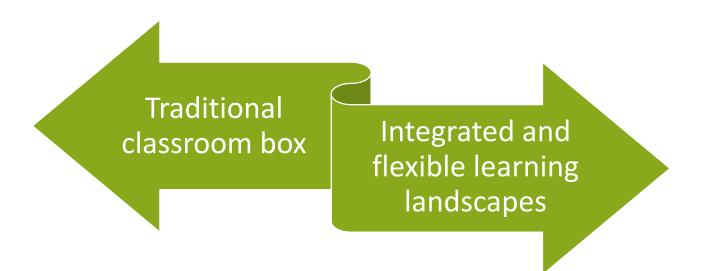
#### **DESIGN PRINCIPLES**

- Learning on display, visual connectivity to the Park Lands
- Elevated recreation and outdoor learning spaces
- Adaptive reuse of the existing Reid building with physical connectivity to the Park Lands
- Active atrium as the heart of the school
- Reception, gallery, lecture space, library and café open to the public
- The building as a tool for learning

# THE DESIGN

## DESIGN VISION – new generation learning

- Integrated 'learning landscapes' –
   where learning opportunities are
   enhanced with greater
   connectivity between formal and
   informal learning spaces, as well
   as effective indoor and outdoor
   linkages
- Contemporary learning environments empower and enable students to take greater responsibility for their learning through choices and control over what they do to learn, where and when they do it, and who they engage with on the task



#### Built Form

#### Teaching & Learning

STUDENT DIRECTED

. SELF ORGANIZING

. MULTI MODE TEACHING &

INTERDISCIPLINARY

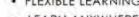
DYNAMIC LEARNING

LEARNING

CURRICULUM

COMMUNITY

LEARNING

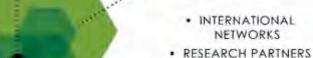


- LEARNING ON DISPLAY
  - TECHNOLOGY INTEGRATION
  - A SUSTAINABLE
  - HIGH BANDWIDTH
- RESPONSIVE TO SITE
- . SERIES OF DISTRIBUTED LEARNING COMMUNITIES
- INTEGRATED LEARNING LANDSCAPE

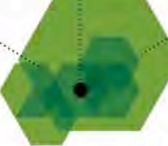
- . FLEXIBLE LEARNING
- . LEARN ANYWHERE
- SPACES TO SUPPORT COLLABORATION & INNOVATION
- RESPONSIVE BUILDING
- INFRASTRUCTURE

#### National & Global

Precinct & Community



- . SISTER SCHOOLS & UNIVERSITIES
- · LAUNCH PAD FOR LOCAL, NATIONAL & INTERNATIONAL VISITORS
- . BENCHMARK LEARNING ENVIRONMENT
- . WORLD LEADERS IN **TEACHING & LEARNING**



PRECINCT . BRINGING EXPERTS INTO THE SCHOOL

AN ACTIVE CONTRIBUTOR

TO THE CULTURAL &

**EDUCATION PRECINCT** 

**ACTIVITIES INTO THE** 

EXTENDING LEARNING

. THE WIDER CITY AS A LEARNING RESOURCE

- 21ST CENTURY PEDAGOGY · INNOVATION / CREATIVITY
  - . ENQUIRY / RESEARCH
  - . TEACHERS AS LEARNERS

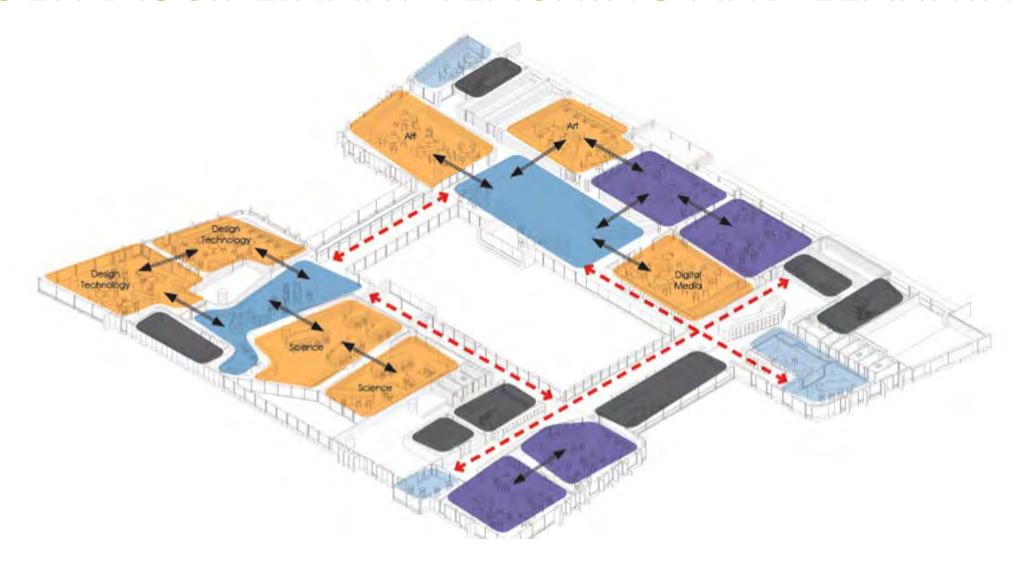




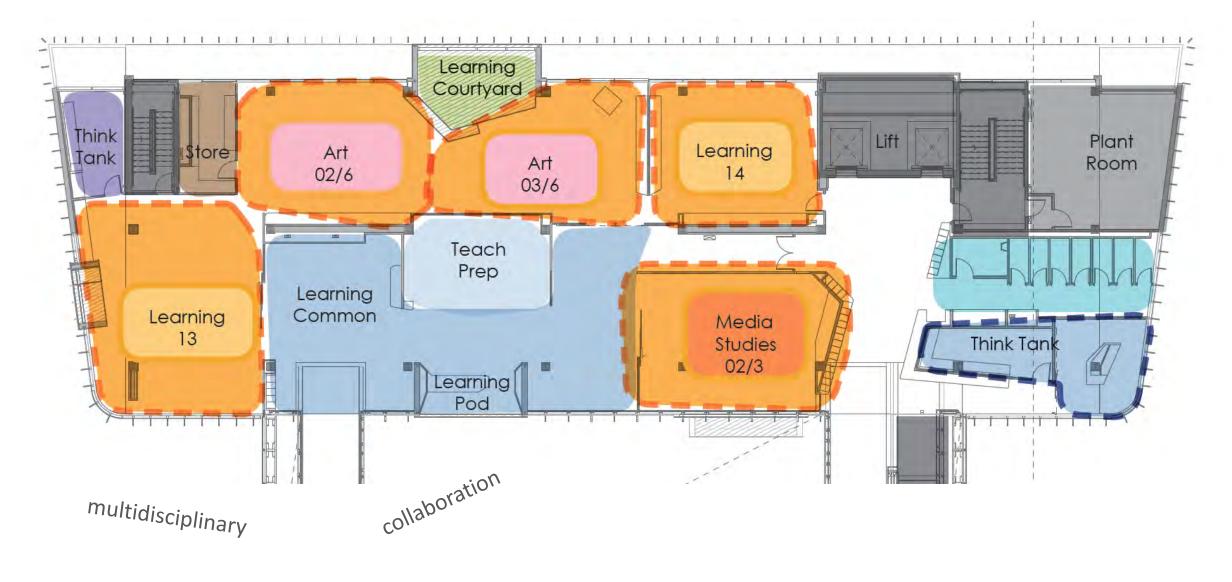




# MULTI DISCIPLINARY TEACHING AND LEARNING



# LEARNING COMMONS



# LEARNING SPACES







## **EDUCATOR SPACES**







# examples





# Sandridge College

"Schooling is not a practice for the real thing... it is an internship for entrepreneurial thinkers and social impact change agents in the here and now."



• "As part of a collective of

### start-ups, not-for-profits, EdTechs, creatives and artisans;

our students will be immersed in the world of their futures here and now.

 Through its unique integrated environment, the Kensington campus directly connects our students with those who are

## doing, creating, designing, testing and actioning

the learning that our students are exploring...

• Via the 'activator program', our students can experience learning through the lens of

## real world practice,

receiving real world feedback and seeing real world relevance to learning".

#### A New Kind of School – A New Kind of Campus

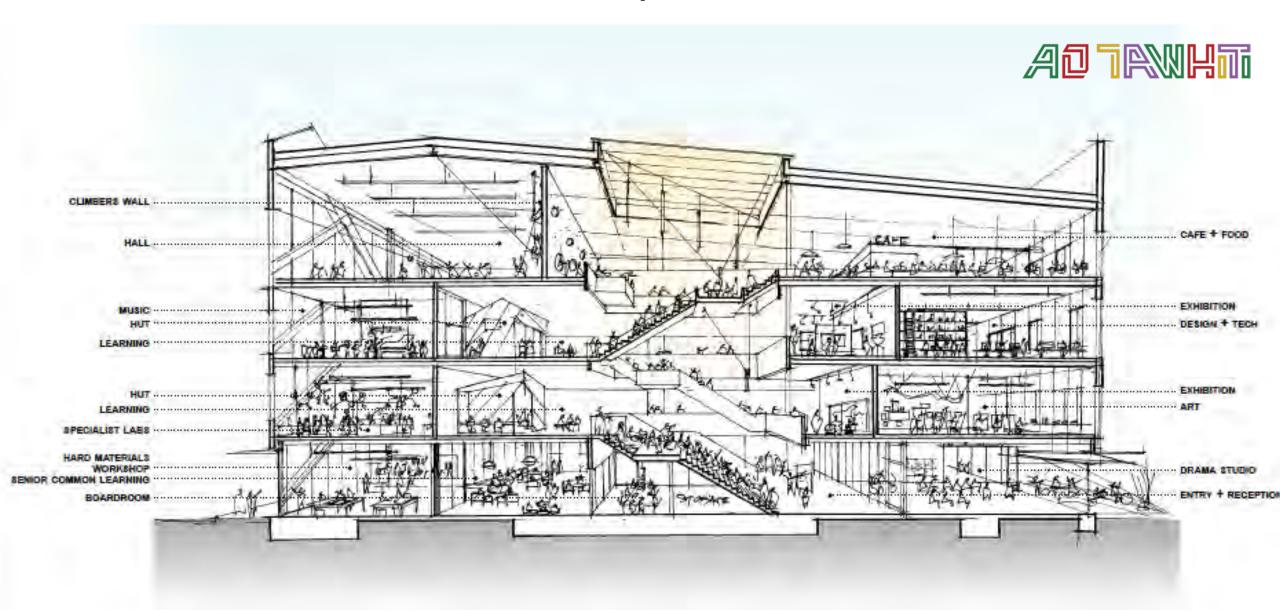
"In partnership with Impact Investment Group, Sandridge is embarking upon a significant innovation in education with the development of a Porous School:

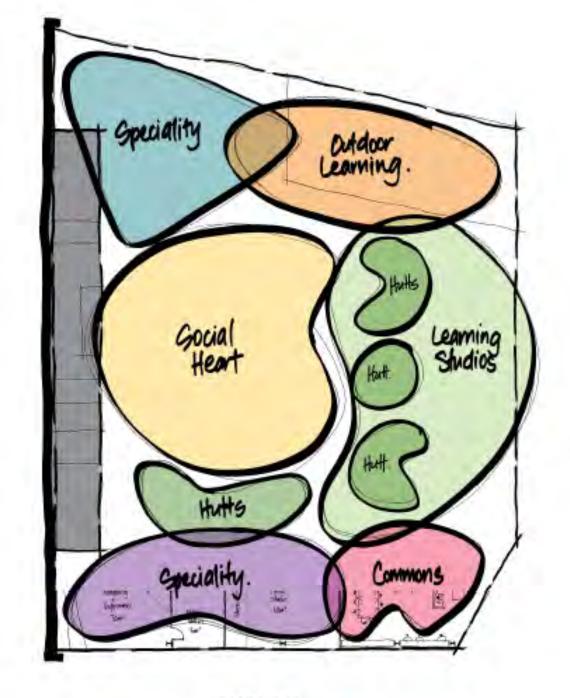
 Our students will spill outside their learning studios; interacting and collaborating with the values driven and inspired futuremaker tenants that are resident across the site.

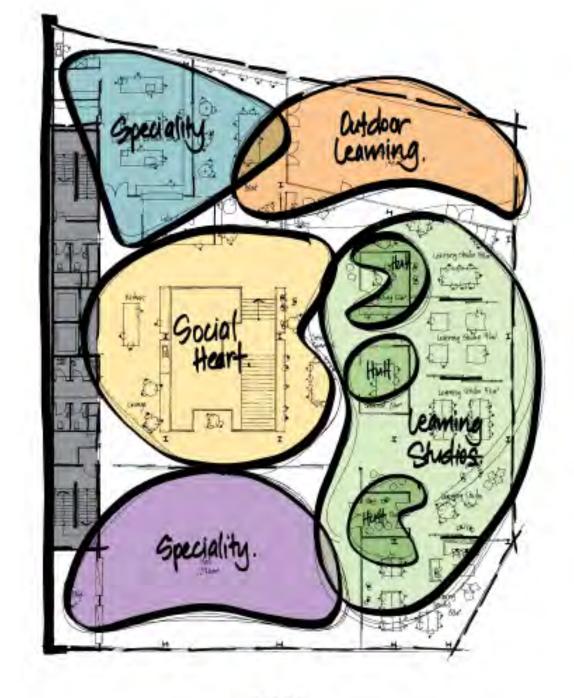
This is true innovation in education. A collaborative partnership for positive social impact:

• This interconnected dynamic space will allow our students to undertake **experiential learning** in a realistic and practical sense with innovators, commercial enterprises and social entrepreneurs (through our 'activators') at a whole new level. As with all activators in our Junior School, this interaction with activators will always be conducted in a highly supervised way".

# Ao Tawhiti Unlimited Discovery School







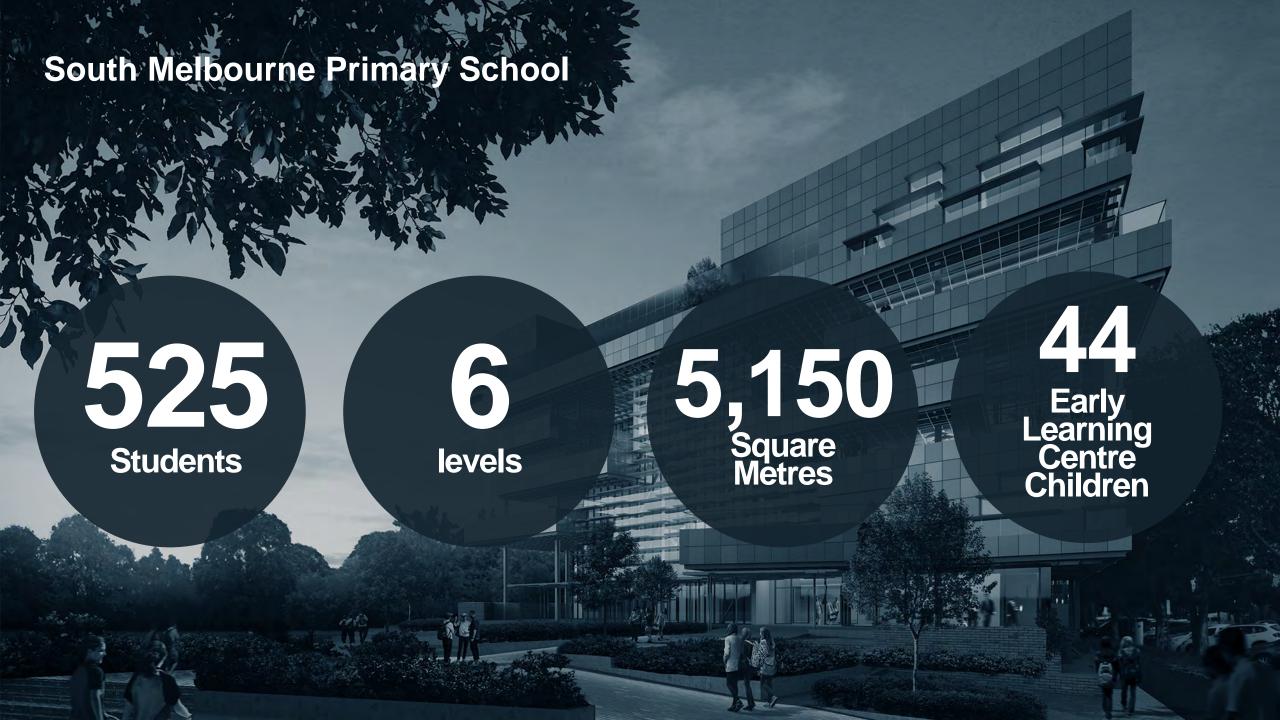
LEVEL 2 - 3 LEVEL 4



Melbourne, Australia

an integrated model of school and community







What are the things that this community will not have, that the school might provide?

- Meeting spaces
- Birthday party spaces
- Open space
- Recreation spaces
- Children's playground
- Art spaces
- "Men's shed"
- Bicycle workshop
- Storage
- Toy library

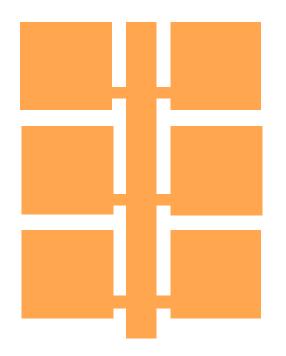






# pedagogy meets space

#### **SCHOOL SPATIAL TYPOLOGIES**



Traditional school plan separate box-shaped class rooms opening off long corridors

**Teaching & Learning** 

single classrooms

**Traditional** 



**Open Plan** 

undifferentiated space

Large, open,





Classroom spaces linked to shared communal space



linked classrooms



Multi-option space made up of many diverse, discrete but connected spaces

## Personalised Traditional & Inquiry

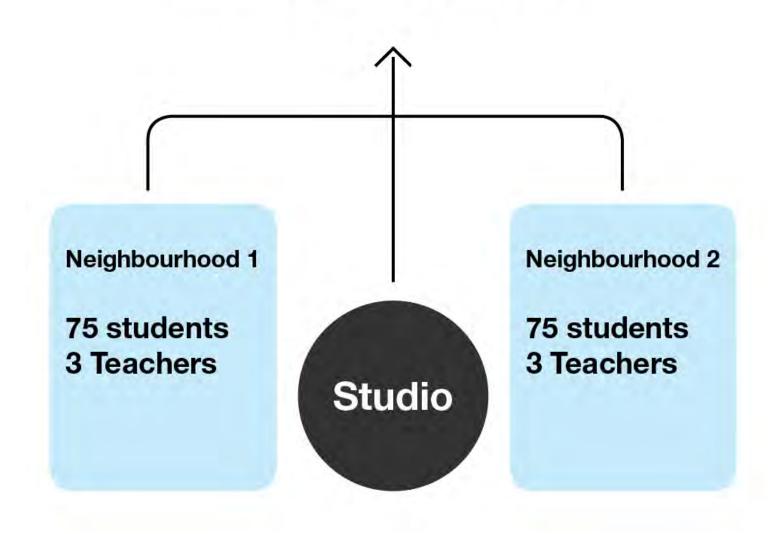
diverse, discrete, purposeful settings

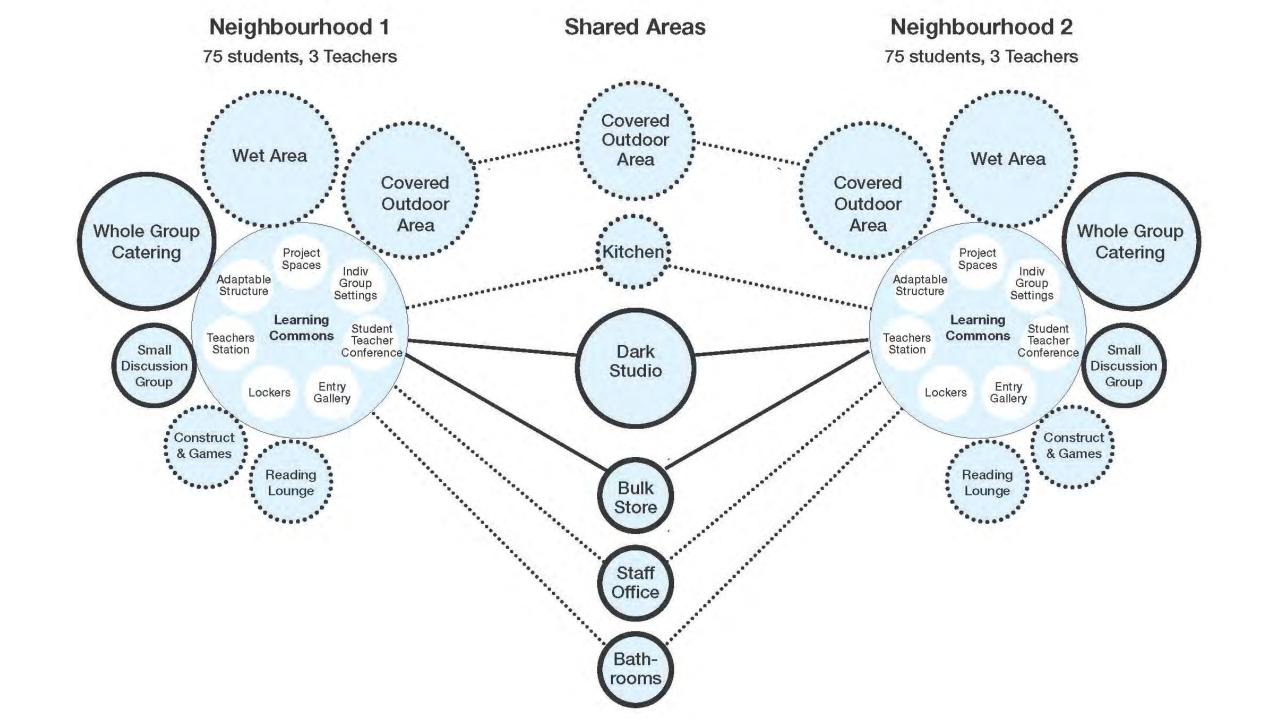
Source: Mary Featherston



#### **Learning Communities**

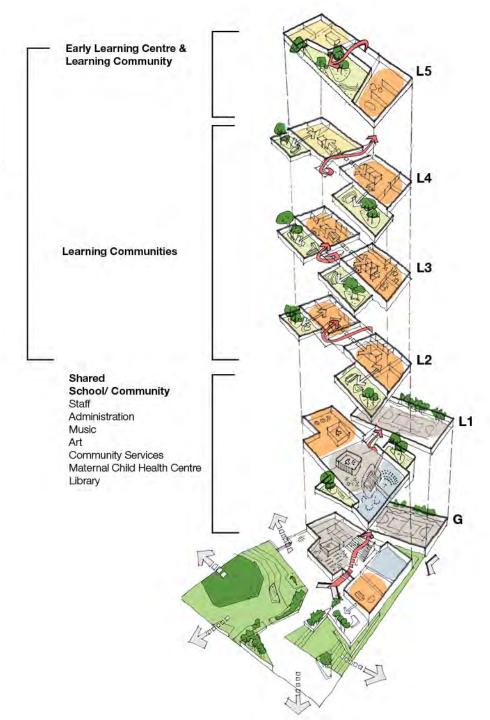
#### Access to learning courtyards





#### Early Learning Centre, School Learning Communities & School Facilities

- Early Learning Centre
- School Use
- School Outdoor Learning
- ☐ Community/ School Shared Facility
- Community
- External
- Vertical Piazza



Learning Neighbourhood

Legend

Early Learning Centre

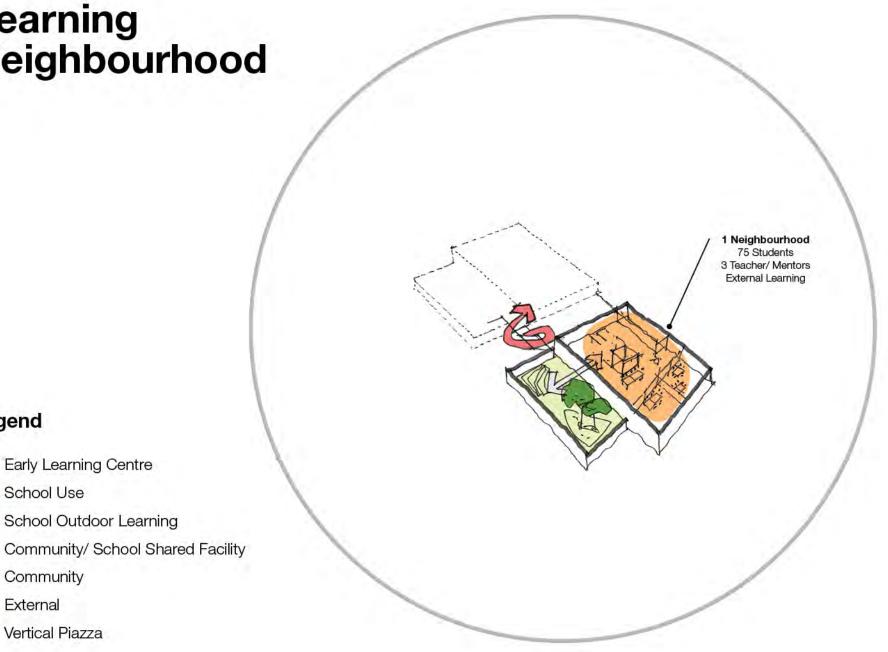
School Outdoor Learning

School Use

Community

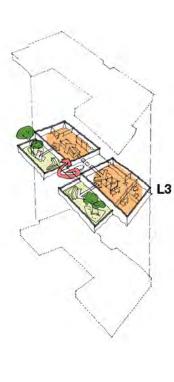
Vertical Piazza

External



# Learning Community

# Learning Neighbourhood 2

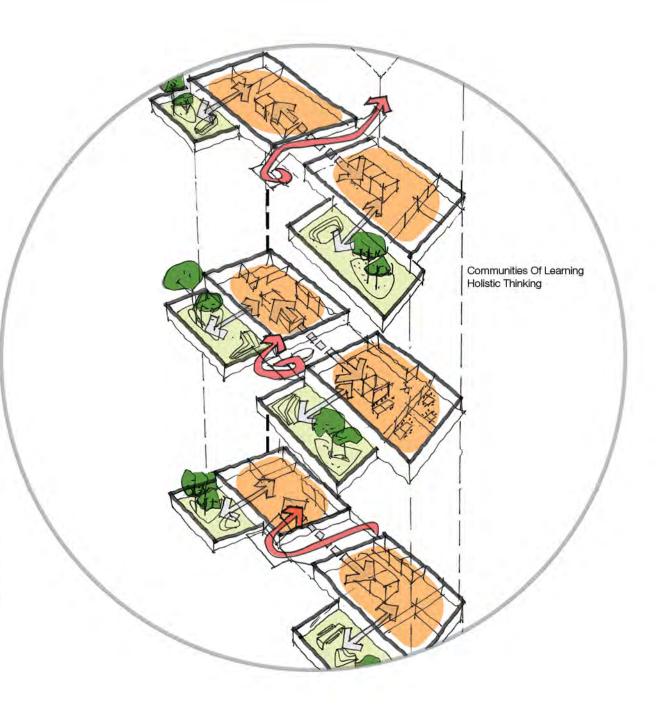


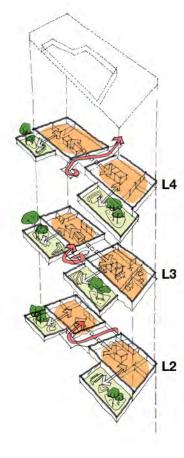
/Learning Neighbourhood 1

- Early Learning Centre
- School Use
- School Outdoor Learning
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## Whole School Community

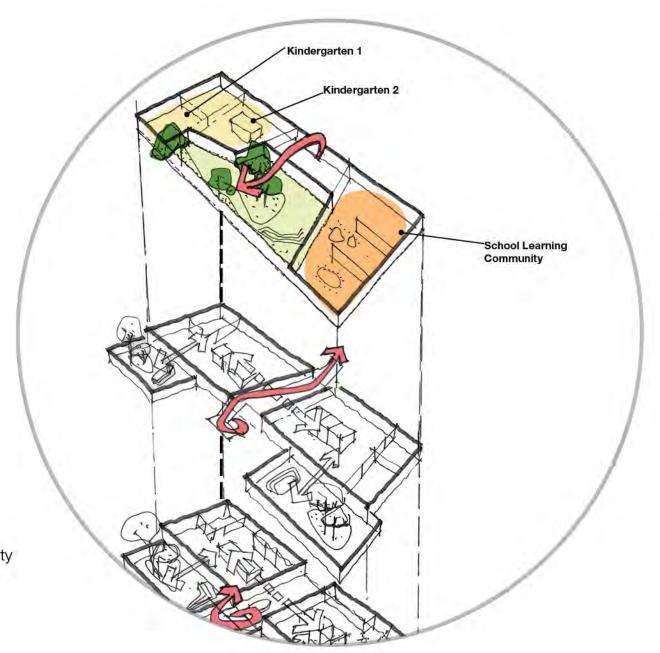
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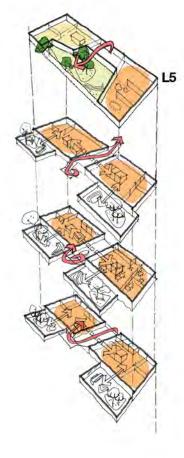




## Early Learning Centre

- Early Learning Centre
- School Use
- School Outdoor Learning
- ☐ Community/ School Shared Facility
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- Vertical Piazza





**Shared Community** & School Facilities

#### Legend

Early Learning Centre

School Use

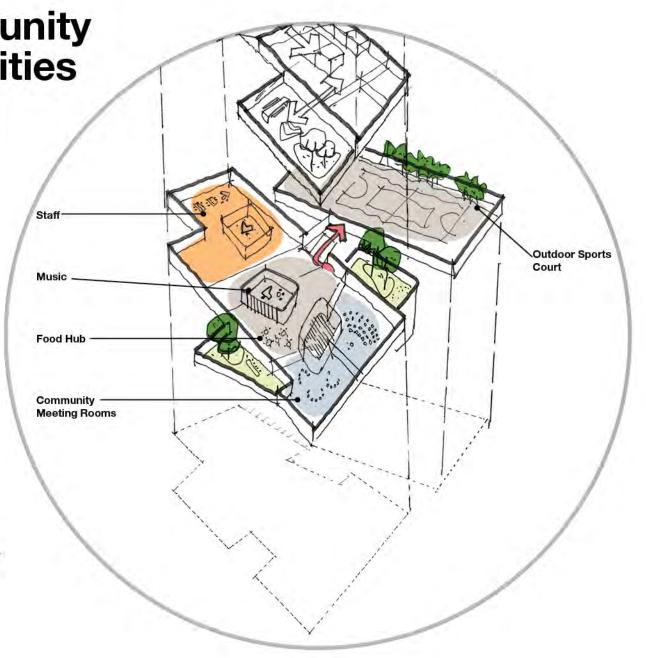
School Outdoor Learning

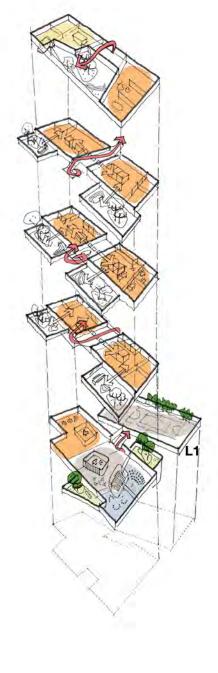
☐ Community/ School Shared Facility

Community

External

Vertical Piazza



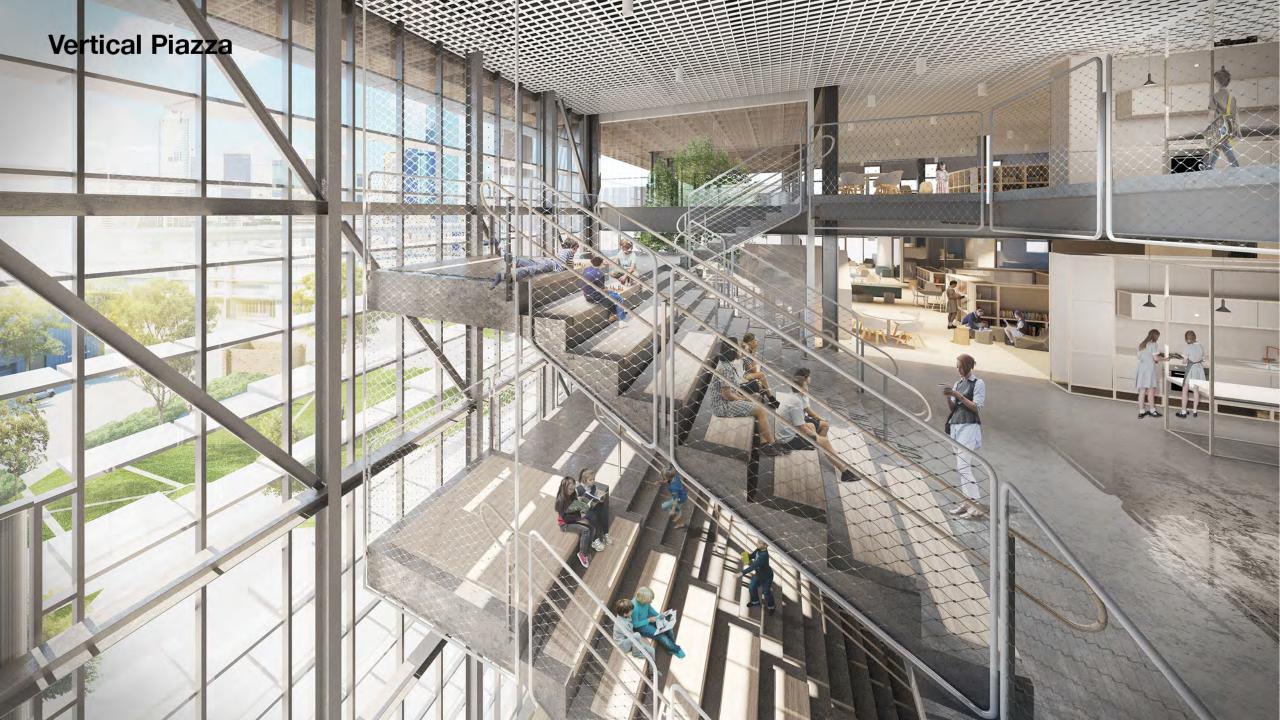


## Urban Porosity

- Early Learning Centre
- School Use
- School Outdoor Learning
- ☐ Community/ School Shared Facility
- Community
- External
- Vertical Piazza



# interiors

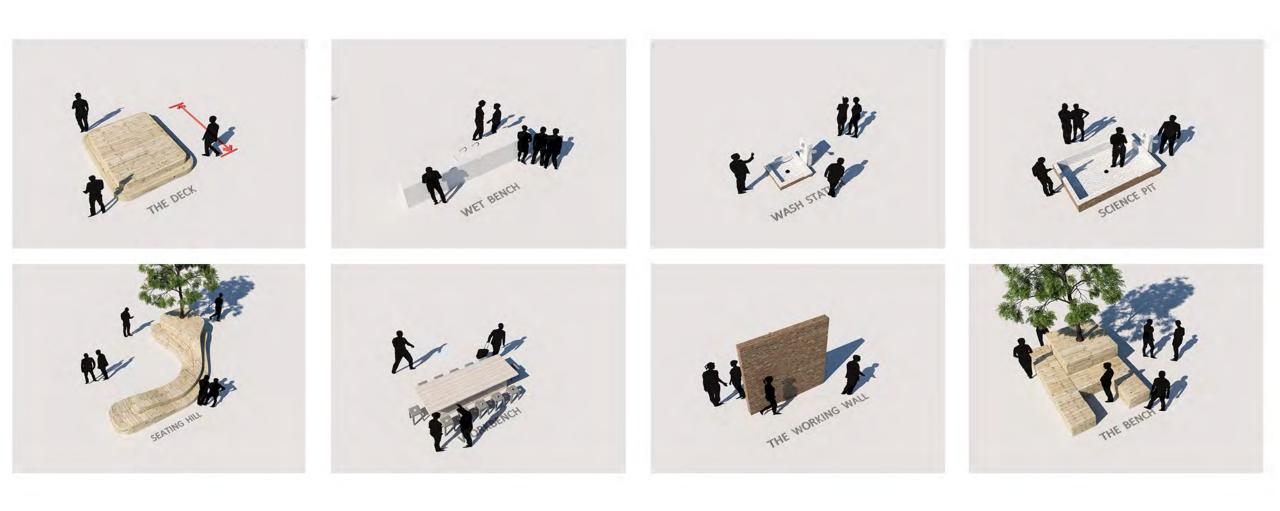


# external learning





### **Taxonomy of External Learning Settings**



## key lessons: inner urban schools

- 1. Design driven by pedagogy
- 2. Collaboration: architects / educators
- 3. Education vision reducation brief rachitectural brief
- 4. Inter-disciplinary
- 5. Learning cohorts: communities & neighbourhoods
- 6. Community hub
- 7. Efficient use of community infrastructure