

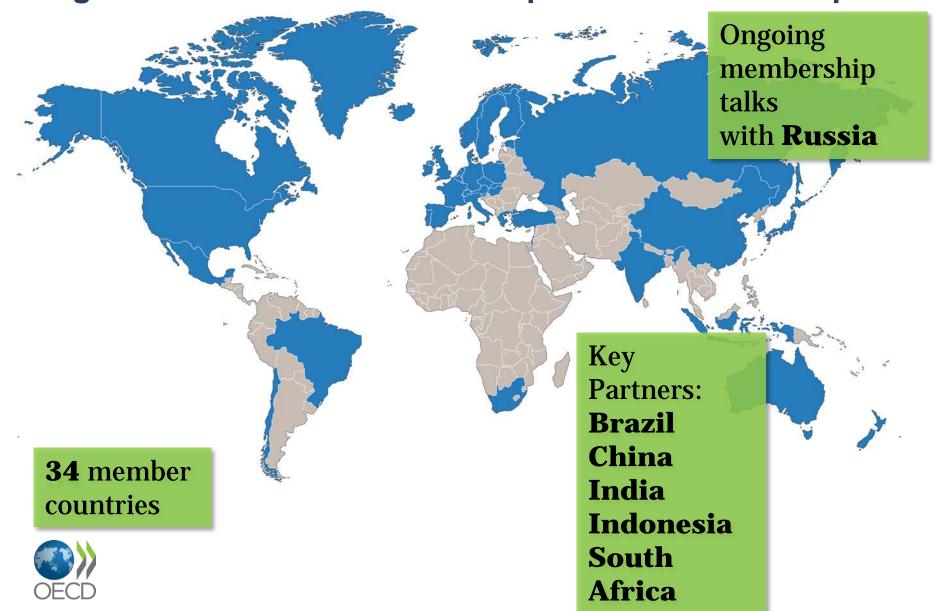
Learning in 21st Century Schools
8th Regional Workshop, IDB
29 September to 1 October 2015, Antigua, Guatemala

Alastair Blyth
OECD Early Childhood and Schools Division



OECD

Organisation for Economic Co-operation and Development





OECD Centre for Effective Learning Environments: An international network

Overseen by Group of National Experts on Effective Learning Environments

Current members of CELE: Austria; Greece; Ireland; Japan; Mexico; New Zealand; Slovenia; Italy; Luxembourg and Norway. Observers: IDB; World Bank EIB

THE OECD
LEARNING ENVIRONMENTS EVALUATION PROGRAMME
Creating Effective Learning Environments







PEB - OECD Programme on Educational Building







This presentation...







Will touch on ...

Map of process

Use of PPPs

Contractor frameworks

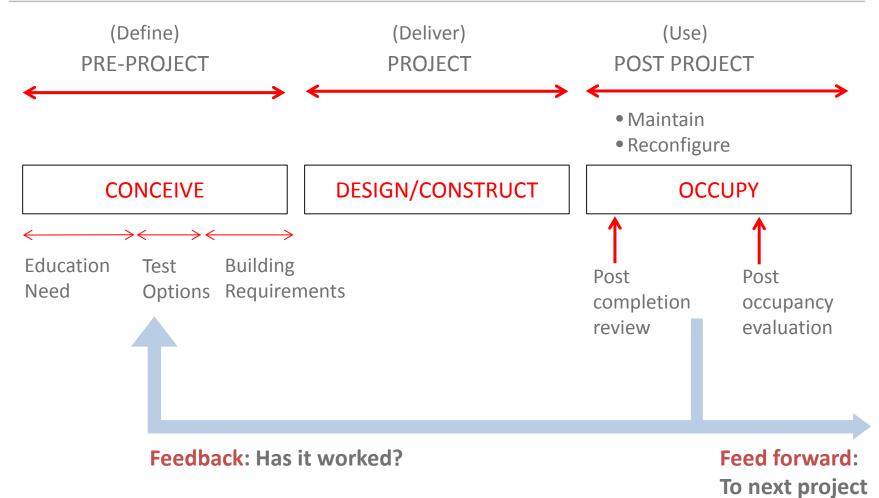
Design build

Standardization

User participation

Post occupancy evaluation





Education

To meet the demands of 21st Century skills

Education systems are expected to help students develop:

Way of thinking: Creativity, Critical thinking, Problem-solving

Way of working: Collaboration, Teamwork, Adaptability, Leadership

Way of living together: Curiosity, Empathy, Self-esteem, Resilience





Create physical settings to support:

- Collaboration
- Individual work
- Responsive to different needs
- Structured and unstructured learning







Public Private Partnerships

PPP increasingly used but...
Some concerns expressed

Consequences of change Management of contract by the client



NEW ZEALAND EXPERIENCE

Population: 4.5 million
About 20% schools are rural
50% schools have 200 students or less
25% have fewer students than 90

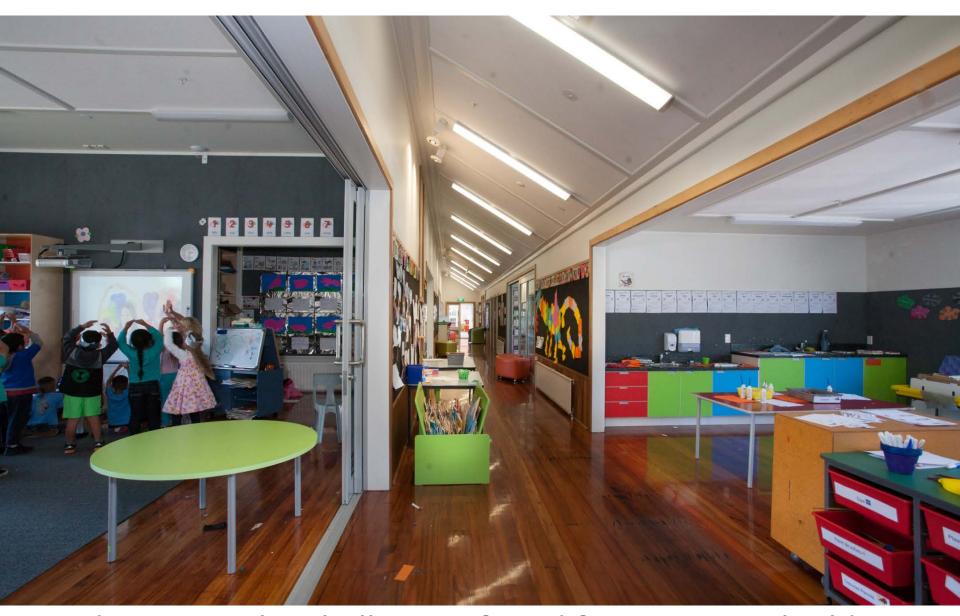


Looking at how to create Innovative Learning Environments...



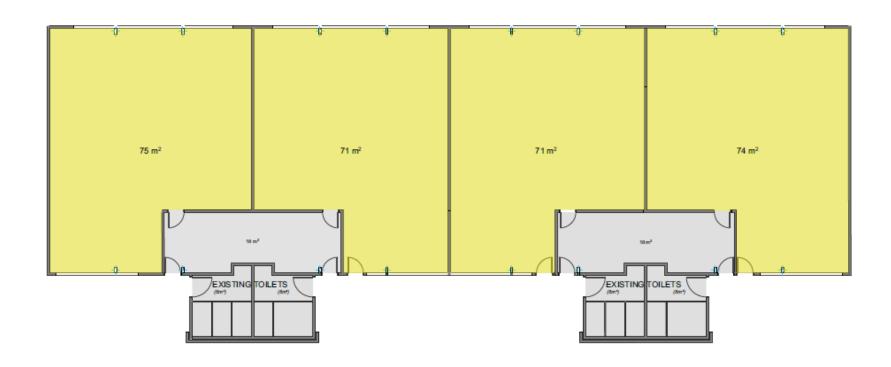


Designing new schools with flexibility in mind



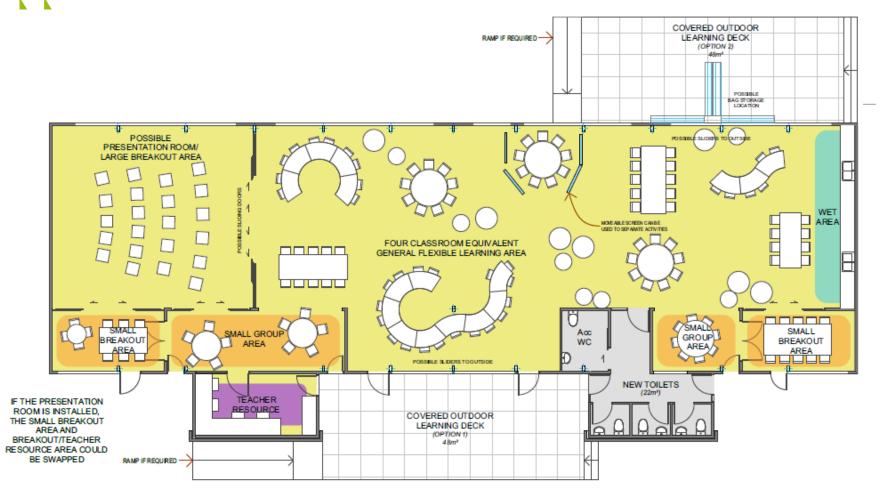
... and meeting the challenge of modifying existing buildings...





Formula classroom block constructed in 1950s, 60s, 70s

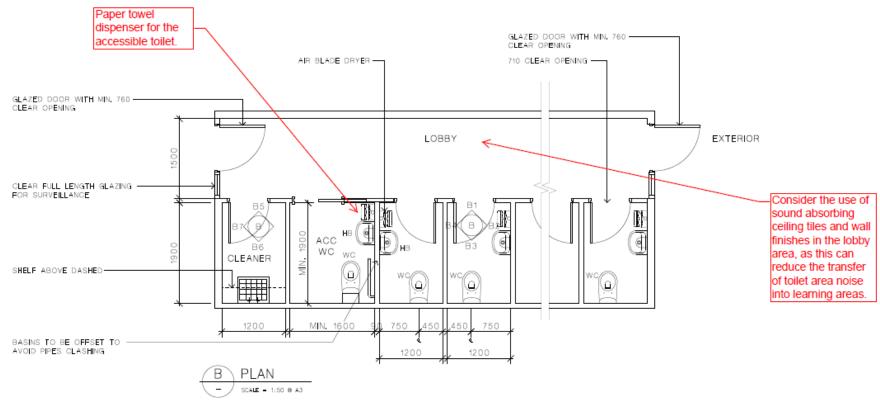
Challenge is to move from this...



Draft design for modernisation of Formula classroom block

...to this, with greater standardisation of designs...





...and creating reference designs for schools to use.



Using Modular Transportable Buildings





Vogeltown School in New Plymouth,

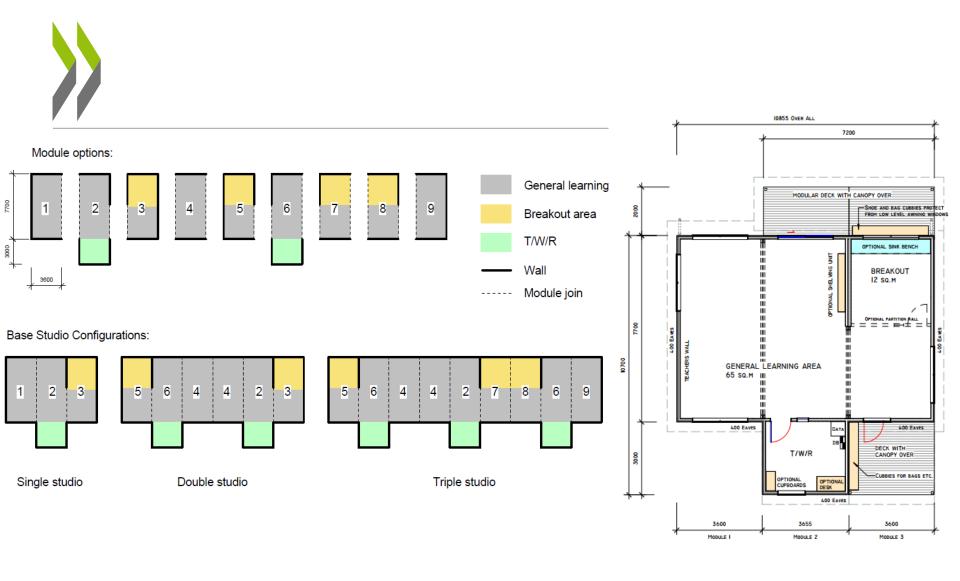
Meeting needs of school expansion and contraction

About 20% of portfolio is relocatable buildings – need replacing

Contract with a single supplier to produce, deliver and install

Modular Transportable Buildings

Looking for versatile solutions



Can be configured and grouped in different ways

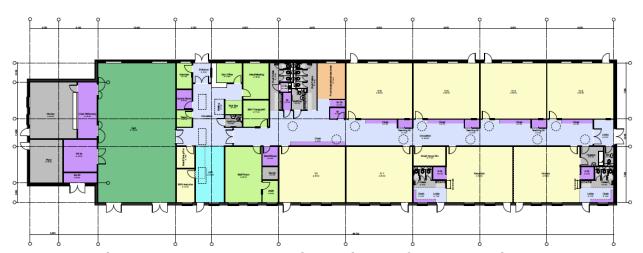


Priority Schools Building Progamme UK (England)

Education Funding Agency 260 Schools: Schools in need of urgent repair were invited to bid 46 schools to be delivered in 5 batches **Using PPP model (Design Build Finance Operate 25 yrs)** 214 schools: through capital grant funding **Frameworks for contractors Baseline designs**



Baseline designs UK (England)



Single storey Access of classrooms to outdoors

Roof lights: daylight / ventilation

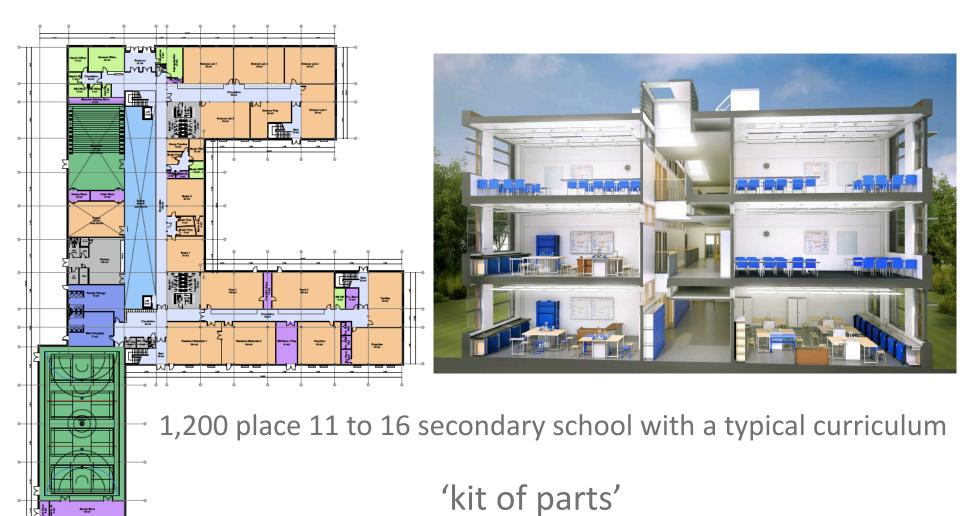
210 place primary school and a 26 place nursery

Provide examples

How the requirements of PSBP requirements can be met within cost and area allowances

Help finalize briefs for projects

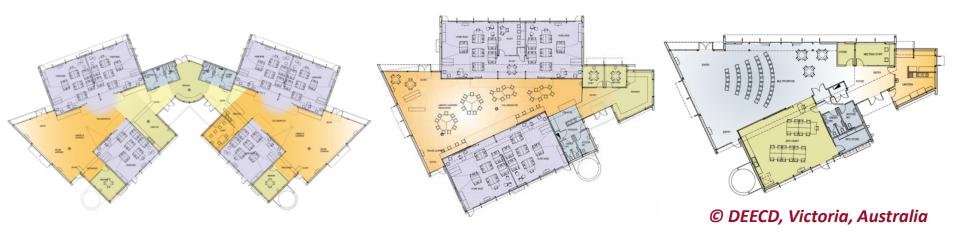
Contractors can develop them into detailed schemes, or propose alternatives



Different combination
Future adaptability



Template designs (Victoria, Australia)



Template designs: for Victoria response to Building the Education Revolution

Department of Education and Early Childhood Development, Victoria, Australia www.education.vic.gov.au/about/programs/infrastructure/Pages/berbuildingview.aspx



DESIGN REVIEW PANELS



Design Review Panels



Independent review by design review panels
Masterplanning; preliminary design; developed design
Reduce cost (New Zealand)

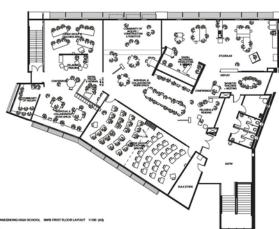


ENGAGING USERS



Teaching and learning driven strategies













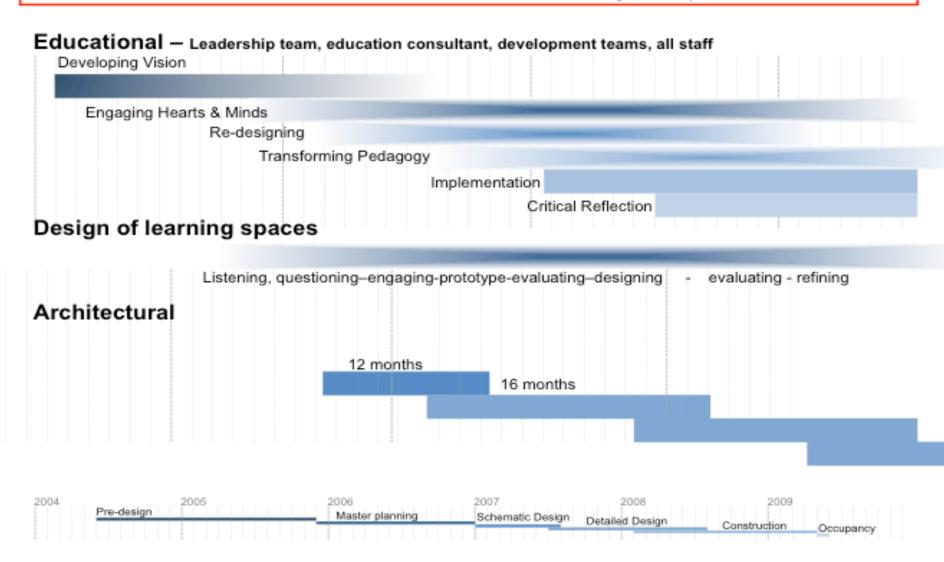
Designing for Education: Exemplary Educational Facilities 2011

OECD

Dandenong High School, Victoria, Australia

Architect: Hayball

DANDENONG HIGH SHOOL - inclusive, collaborative, iterative design, development, construction





Prototyping: (i.e. Testing ideas)



Space identified in school to test innovative design ideas Ideas generated by students and staff



Prototyping: (i.e. Testing ideas)

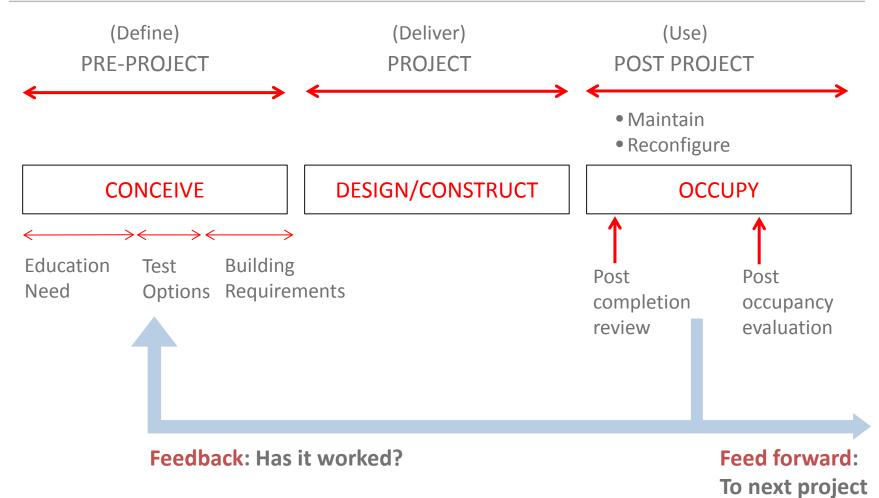




Experimentation to meet emerging teaching/learning approaches

Lessons to inform new schools and OTHER school projects





Education



Thank You!

Find out more about our work at www.oecd.org/edu/facilities

Email: alastair.blyth@oecd.org

CELE Database of Educational Facilities http://edfacilitiesinvestment-db.org

