Queensland Children's Hospital

QCH Project Status September 2008

Queensland Health with Conrad Gargett Lyons

we're building a **healthier community**

Queensland Government
Queensland Health

Mater
Exceptional People. Exceptional Care.

Fast Facts

Fast Facts

1. **QCH will provide secondary, tertiary and quaternary services**
2. **Act as the hub of a statewide tertiary network**
3. **437 beds including 359 public beds**
4. **To be opened in stages from 2011-2014**
5. **Committed budget of $1.1B**

Fast Facts- Bed Numbers

		In New Building	*In MCH Building*	*Private Beds*	*TOTAL Beds*
CRITICAL CARE BEDS	**PICU/HDU**	36	-		
	NICU	12	-		
		48	**-**	**0**	***48***
MULTIDAY BEDS	**Inpatient**	144	-		
	Babies Inpatient	24	-		
	Rehabilitation	-	12		
	Mental Health	20	-		
		188	**12**	**60 approx**	***260***
SAME DAY BEDS	**Renal Dialysis**	6	-		
	Oncology	22	-		
	Other Day Medical	8	-		
	Sleep Lab	-	6		
	Day Rehab	-	12		
	ED Short Stay	18	-		
	CYMHS	12	-		
	Same Day Surgery	27	-		
		93	**18**	**18**	***129***
		359		**78**	***437***

Fast Facts- Operating theatres

New, Fully Fitted Out		14
Future		6
	TOTAL	**20**

Note:

- *All theatres 2 x 64sqm, 8 x 52sqm, 4 x 36sqm*
- *All theatres have an induction room (18sqm)*
- *Includes 1 Cath lab*
- *Includes 1 MRI serving two theatres (MRI available for diagnostics)*
- *Includes 4 Theatre- Procedural Suite*
- *Additional procedure rooms (36sqm) are provided in emergency, oncology and burns areas*
- *Compares to 12.5 current*

Fast Facts- ED Numbers

- Provision made for 70,000 attendances
- Strategies being explored to further improve through puts:
    - *Patient streaming into Short and Long flows*
    - *Short flows to facilitate quick turnaround*
    - *Long flows to be adjacent Short Stay Ward*

Note:

- *Expansion capacity planned adjacent emergency department*
- *Brisbane north side emergency option being explored*
- *Enhancements planned to ED departments in SE QLD to accommodate paediatrics*

Fast Facts- Building Area

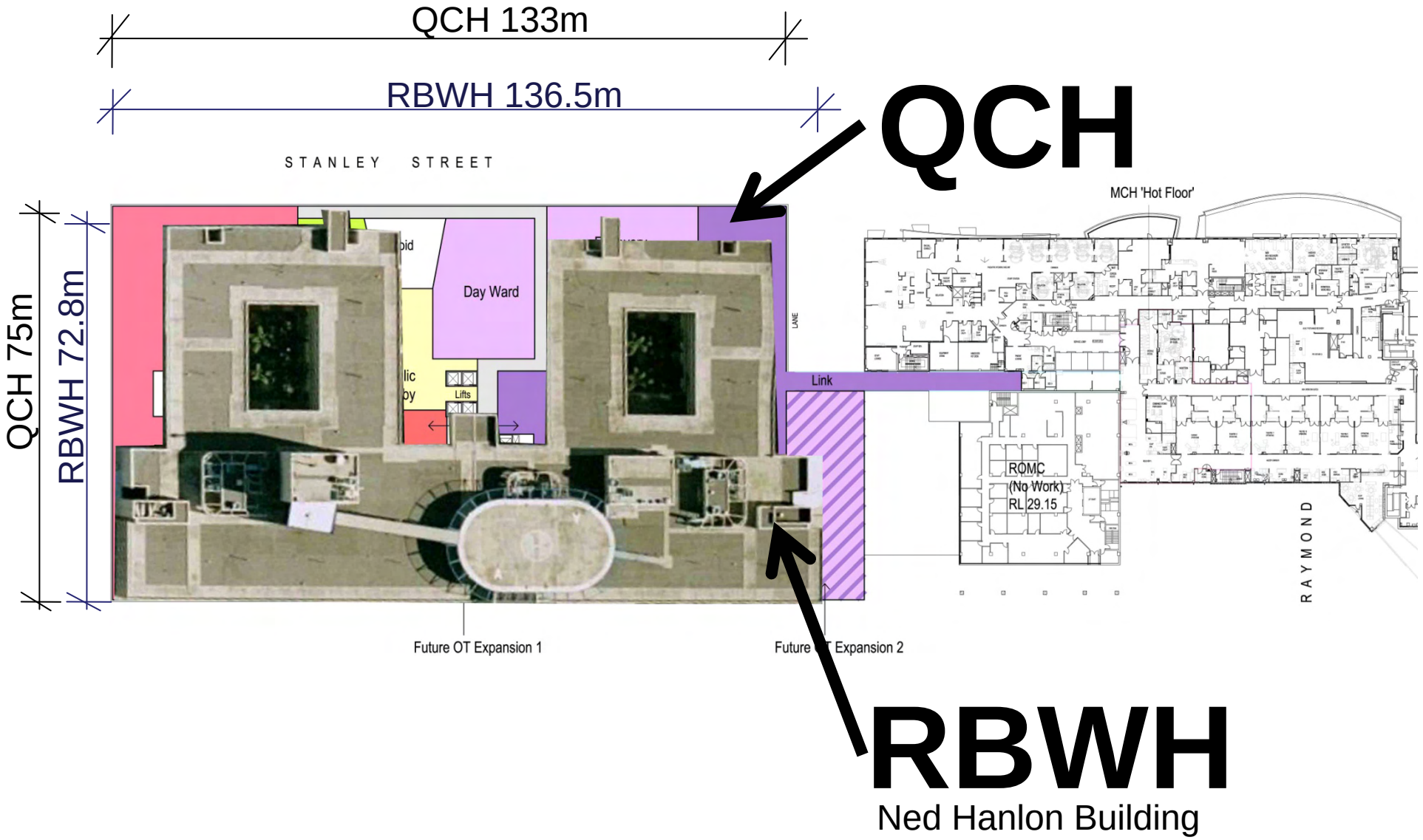
Current MCH		23,529 m2 GFA
Current RCH		38,327m2 GFA
	Total	**61,856 m2 GFA**

Fast Facts- Building Area

Proposed QCH:

74,510m2 GFA

Fast Facts- Building Size

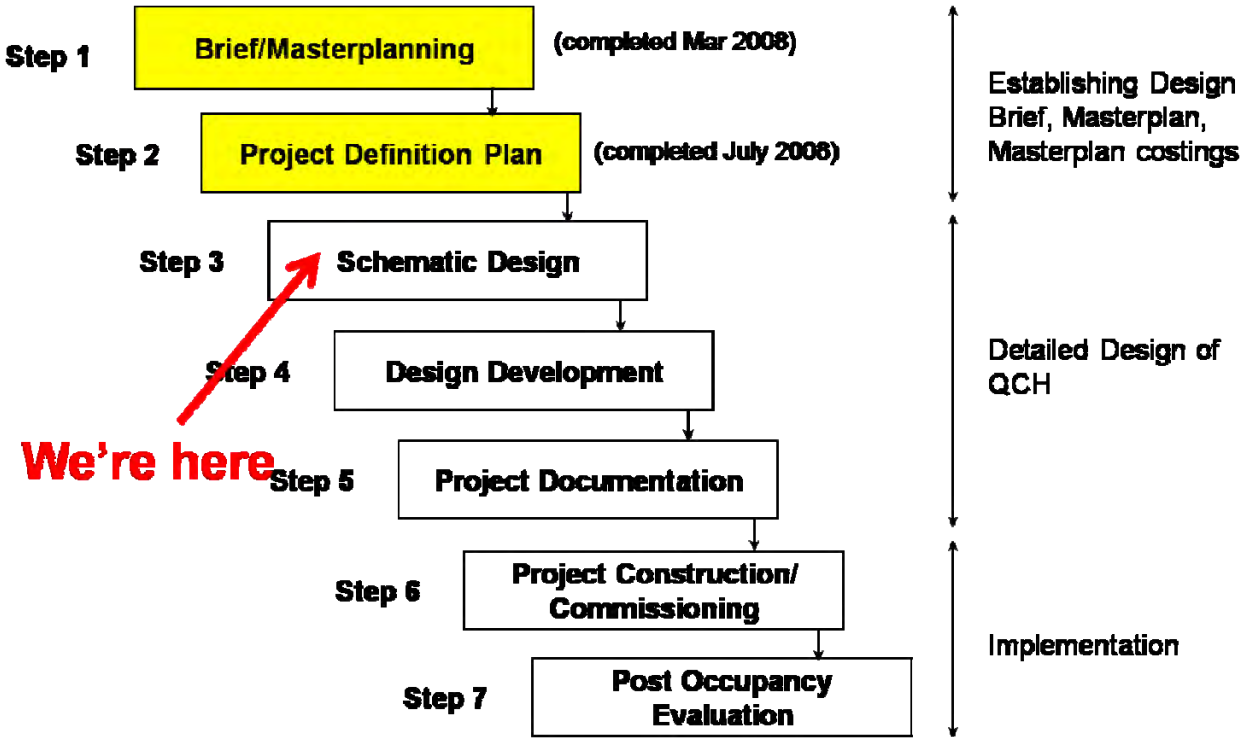


The process

Mellis Report

Government Announcement

Health Services Plan- SIG/ SAG process



Design a children's precinct

Build a community building

The patient journey, supported by interconnected services should be the focus of QCH

Build brand

Green and Outdoor-QLD feel

Not a Hospital

High quality (coordinated) health care

24/7 access to (support) services

Small feel, BIG place

Building a culture that brings together partners and their respective parts into a sum that's greater than the whole

Access to Continued Learning

Culture of Teamwork

Legible campus with a clear front door

QCH must support people to achieve their greatest potential

Culture of Leadership

‘Positives’ We’d Like to Retain in the New QCH

..commitment to **research..**

*..relationship between **staff, patients, families..***

..patient focussed, **family** focussed..

..working together; *team culture; interaction..*

..sense of **pride; commitment** to what we do..

..continuous improvement; **innovation..**

..end to end *co-ordinated care..*

..our commitment to our vision to be among the **world’s best..**

..outreach and support *to our rural and regional Queensland communities..*

..friendly for kids; caring, nurturing environment..

Things We Want to Avoid in the new QCH/Major Challenges

..silo thinking (silo service delivery)..

..lack of integration of services; fragmented care model..

..poor accessibility; poor legibility..

..overwhelming scale..

..poorly defined governance structure..

..not enough resources *(money, people, CT, etc) to do the job properly..*

..not enough space..

..inability to grow/expand; inflexibility..

..lack of integration *between QCH, secondary hospitals and primary/community care..*

..change management..

..hanging on to old discipline centric models of care..

DEVELOPING THE DESIGN BRIEF – Guiding Design Principles

Our Care Model

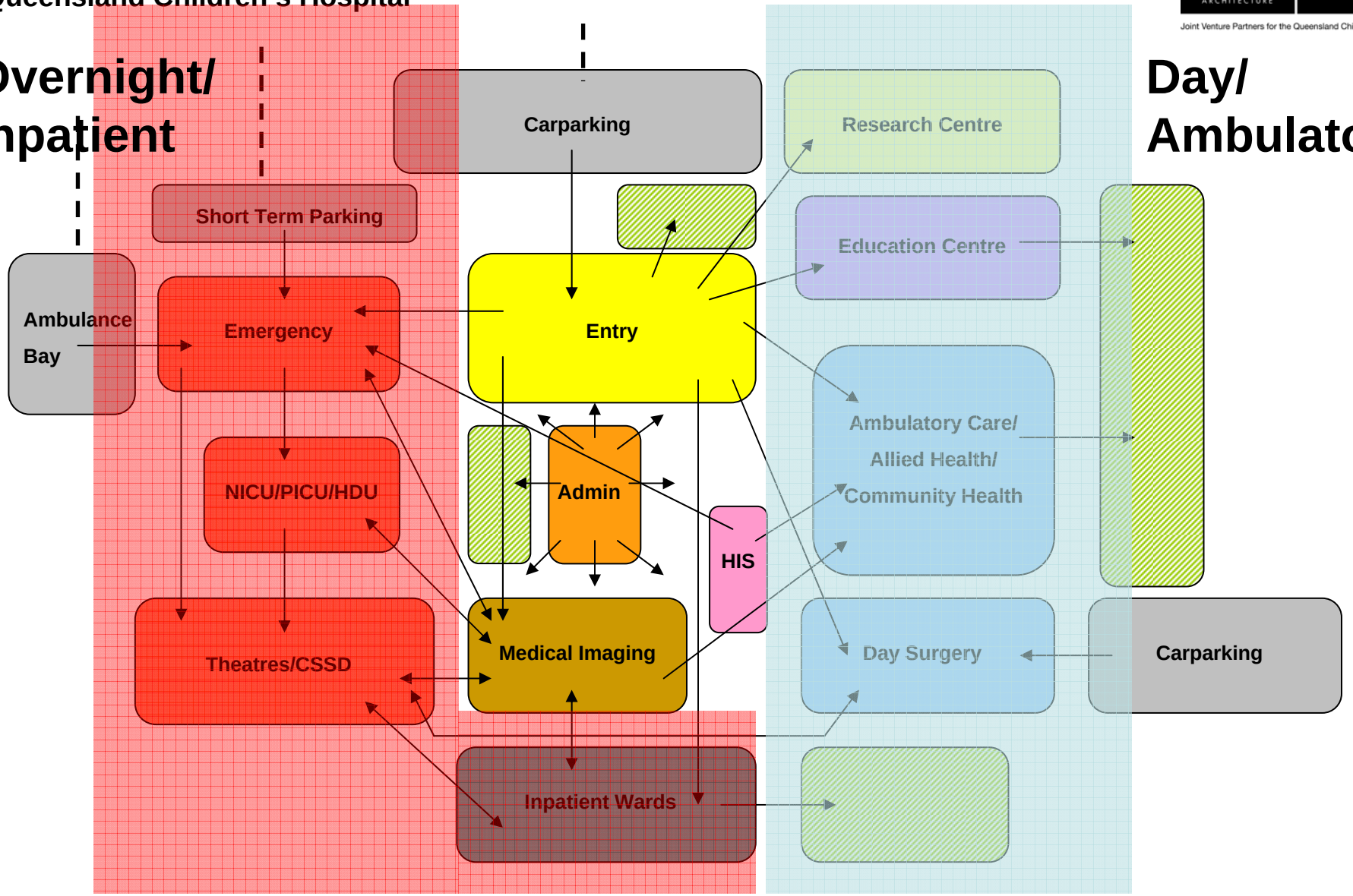
- patient and their families at the centre
- continuum of care, seamless
- a clear ‘care journey’
- care across all QCH age groups Statewide
- responsiveness
- efficient
- timely
- provision of information
- shared decision making
- respecting people’s time
- **‘one stop shop’** (vs. distributed, fragmented services)
- services readily navigable and linked
- connected back to the community

QCH FUNCTIONAL UNITS	Entry/Café/Retail	Carparking	Emergency (and Short Stay)	PICU/NICU	HDU	Theatre Suite	Imaging Service	Med/Surg Inpatient Beds	Ambulatory Care (Clinics)	Allied (+Comms) Health	Gardens/Green Spaces	Administration	HIS	Education Centre	Research Centre	Day Medical/ Day Surgery
Entry/Cafe/Retail	N/A	8	8	2	2	2	6	5	9	8	9	*	1	2	7	8
Carparking		N/A	8	4	4	4	7	5	8	7	0	1	1	7	2	8
Emergency (and Short Stay)			N/A	8	8	8	10	6	2	2	3	*	5	5	2	4
PICU/NICU				N/A	10	10	10	7	1	2	8	*	2	5	2	4
HDU					N/A	9	9	6	1	1	8	*	2	5	2	4
Theatre Suite						N/A	9/10	7	2	2	1	*	1	5	2	10
Imaging Service							N/A	7	9	3	2	*	4	5	2	5
Med/Surg Inpatient Beds								N/A	2	5	9	*	3	5	2	6
Ambulatory Care (Clinics)									N/A	8	9	*	5	5	2	4
Allied (+Comm) Health										N/A	9	*	5	5	2	4
Gardens/Green Spaces											N/A	0/10	oo	7	5	6
Administration												N/A	5	6	2	2
HIS													N/A	7	2	5
Education Centre														N/A	6	2
Research Centre															N/A	1
Day Medical/ Day Surgery																N/A

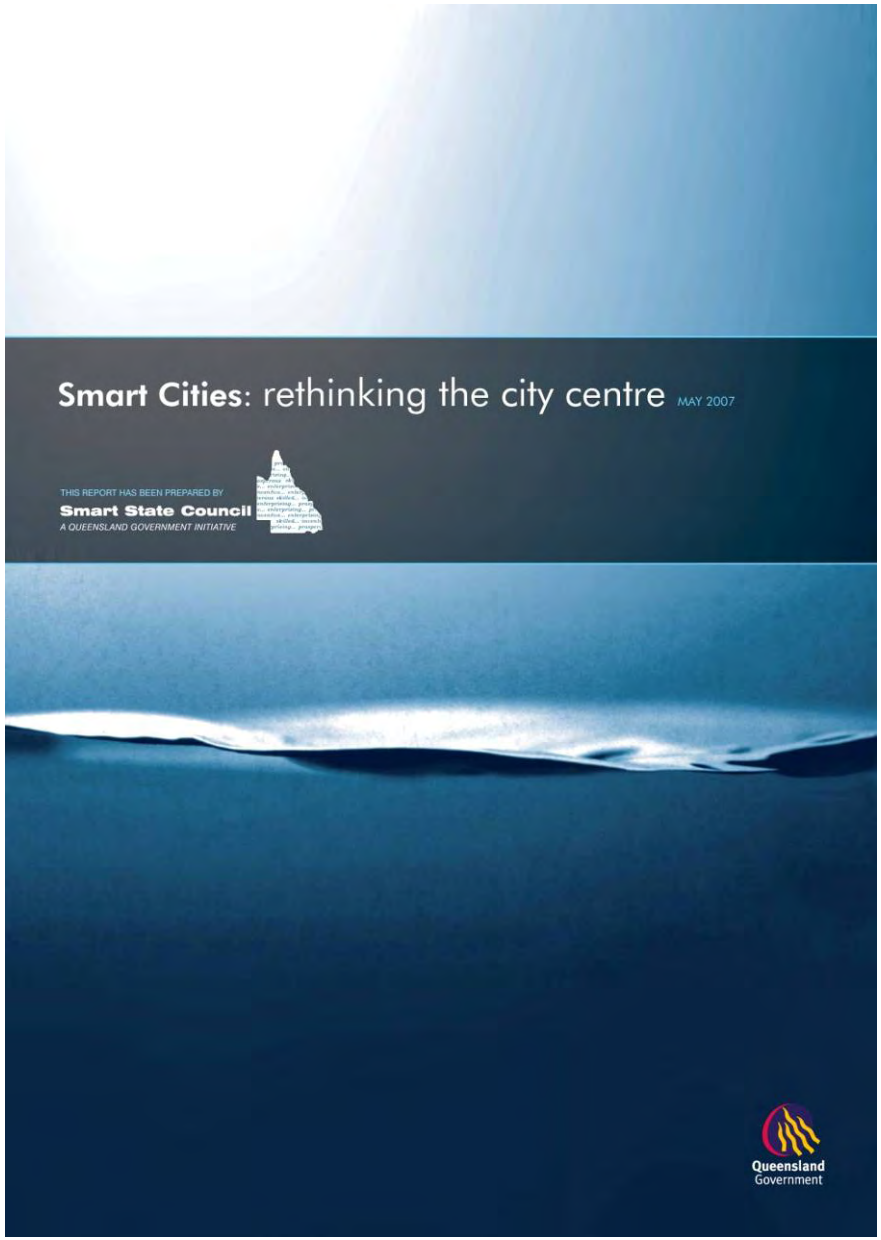
Queensland Children's Hospital

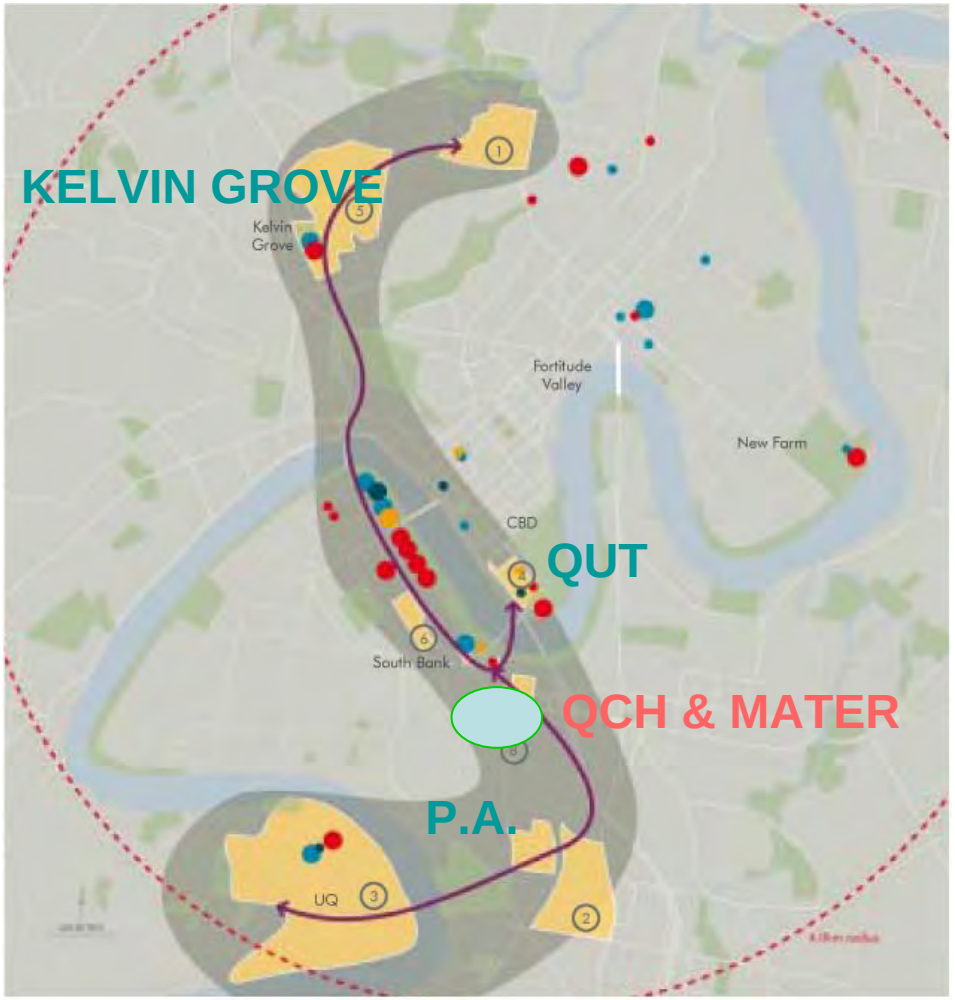
CONRAD GARGETT ARCHITECTURE | Lyons

Joint Venture Partners for the Queensland Children's Hospital



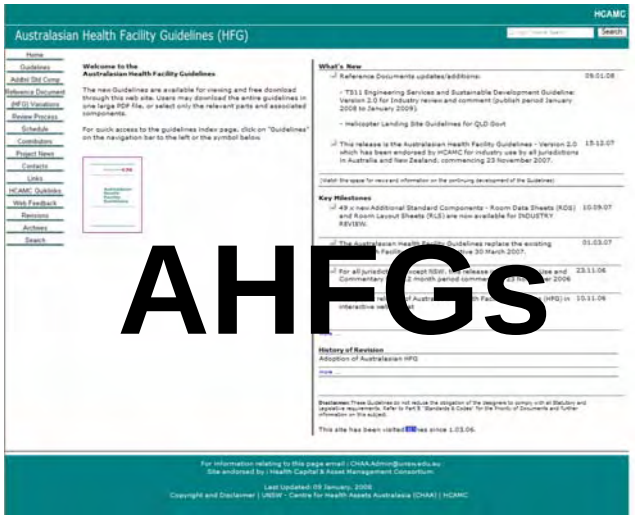
GOODWILL BRIDGE
CAPTAIN COOK BRIDGE
PACIFIC
SOUTHBANK BUSWAY
SOUTHBANK
SOUTHBANK RAILWAY STATION
VULTURE
LOCAL BUS STOP
SOMERVILLE HOUSE
GRAHAM STREET
RESEARCH/ LABORATORIES
STREET
QCH
MATER HILL BUSWAY
MATER PRIVATE
RAYMOND TCE
STANLEY
FAMILY ACCOM.
MENTAL HEALTH
MCH
STEPHENS
AUDITORIUM
CAR PARK
CEP
FUTURE MATER DEVELOPMENT
MOTORWAY
STREET
LOCAL BUS STOP
ST LAURENCE'S COLLEGE
MATER HOSPITAL
ROAD
LOCAL BUS STOP
LOCAL BUS STOP
CLARENCE ROAD
CHILD CARE CENTRE
ROAD
LOCAL BUS STOP
ANNERLEY
LOCAL BUS STOP





'KNOWLEDGE' CORRIDOR

Health Services Plan



AHFGs

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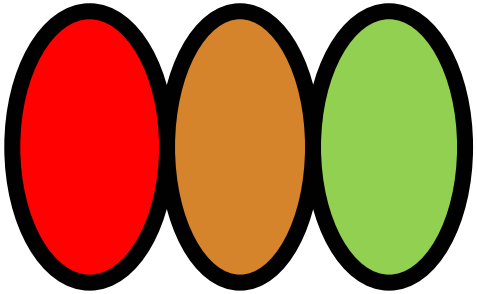
Benchmarking/ Review

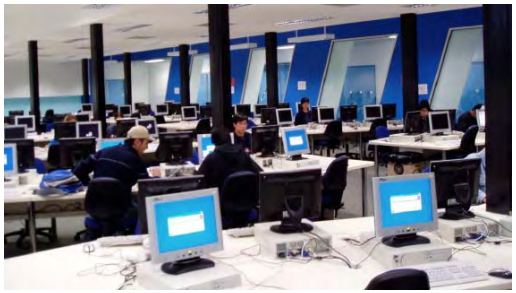
Royal Children's Hospital, Melbourne

National Paediatric Hospital, Dublin

Masterplan, Departmental Area Schedules

HEALTHCARE DESIGN
Nurses' Respite Area
No-Wait ED/Integrated OR
SHOWCASE
Dhaka Apollo Hospital
Specialty Directory
EVIDENCE
for Innovation
TRANSFORMING CHILDREN'S HEALTH THROUGH
THE PHYSICAL ENVIRONMENT
NACHRI
National Association of Children's Hospitals and Related Institutions
THE CENTER FOR HEALTH DESIGN
Improving Healthcare with Better Building Design
Sara O. Marberry, Editor
A Visual Reference for Evidence-Based Design





Learning environments (Education Centre)....

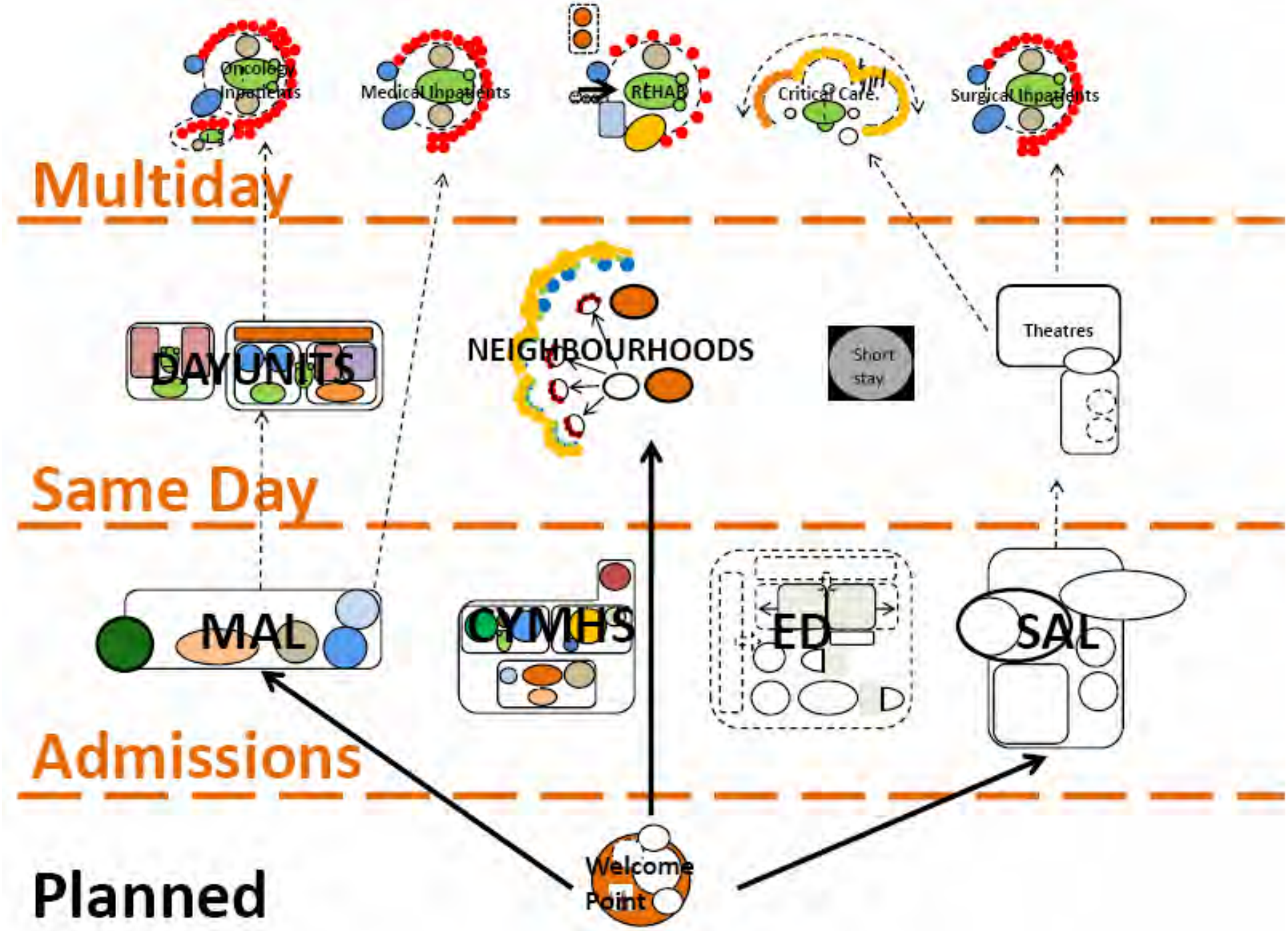
GROUP LEARNING
- 150 pp flat floor theatre
- Access to breakout space

COLLABORATION HUB
- Conference style rooms for 24 and 50pp
- All rooms divisible into smaller areas
- ICT rich environments
- Tutorial rooms

SPECIALIST TRAINING ROOMS
- Mock ward
- Generic space for multipurpose training
- Subdivisible
- ICT rich

SELF PACED LEARNING
- Carrels
- Quiet reading area

RESOURCE AREAS
- Computer labs
- Computers fixed in conference rooms


Oncology Inpatients
Medical Inpatients
REHAB
Critical Care
Surgical Inpatients
Multiday
DAY UNITS
NEIGHBOURHOODS
Short stay
Theatres
Same Day
MAL
CYMHS
ED
SAL
Admissions
Welcome Point
Planned