

Hospital Development and Design - Asia
29th-30th March 2016

Alder Hey in the Park **Inspired by Children**

David Houghton - Project Manager



Inspired by Children

Key Challenges

- History
 - We know what to do
- Experts
 - We know what we are doing
- Users
 - We know what we want





It's windy today!

No, it's Thursday!

So am I!
Let's have a beer!









Can we make better use of our landscape for families?



Clever fence but garden
not accessible to
children due to location
& water feature



The story tree



Too far from the hospital



External playground



How do you get to it?







Stating the obvious

- Children live in an adult world not Disneyland
- Children come in all shapes and sizes
- Children know what they want
- And what they don't want



My Alder Hey!

Bigger windows to see the birds and wildlife- Morgan, age 9

"Have a glass roof so people can look at the stars and wildlife"- Hannah Roberts, age 9

Have a football pitch, garden, adventure playground and much more. It should be jolly, colourful and have a room for all ages- Daniel, age 10.

Put big windows in the rooms so they can see nice trees and flowers. Put a hotel in the hospital so that the family can stay. Put a lot of nature in the garden- Will Robinson, age 8

TVs, video games and put extra beds in the ward so the family can sleep there with the children- Aine, age 9


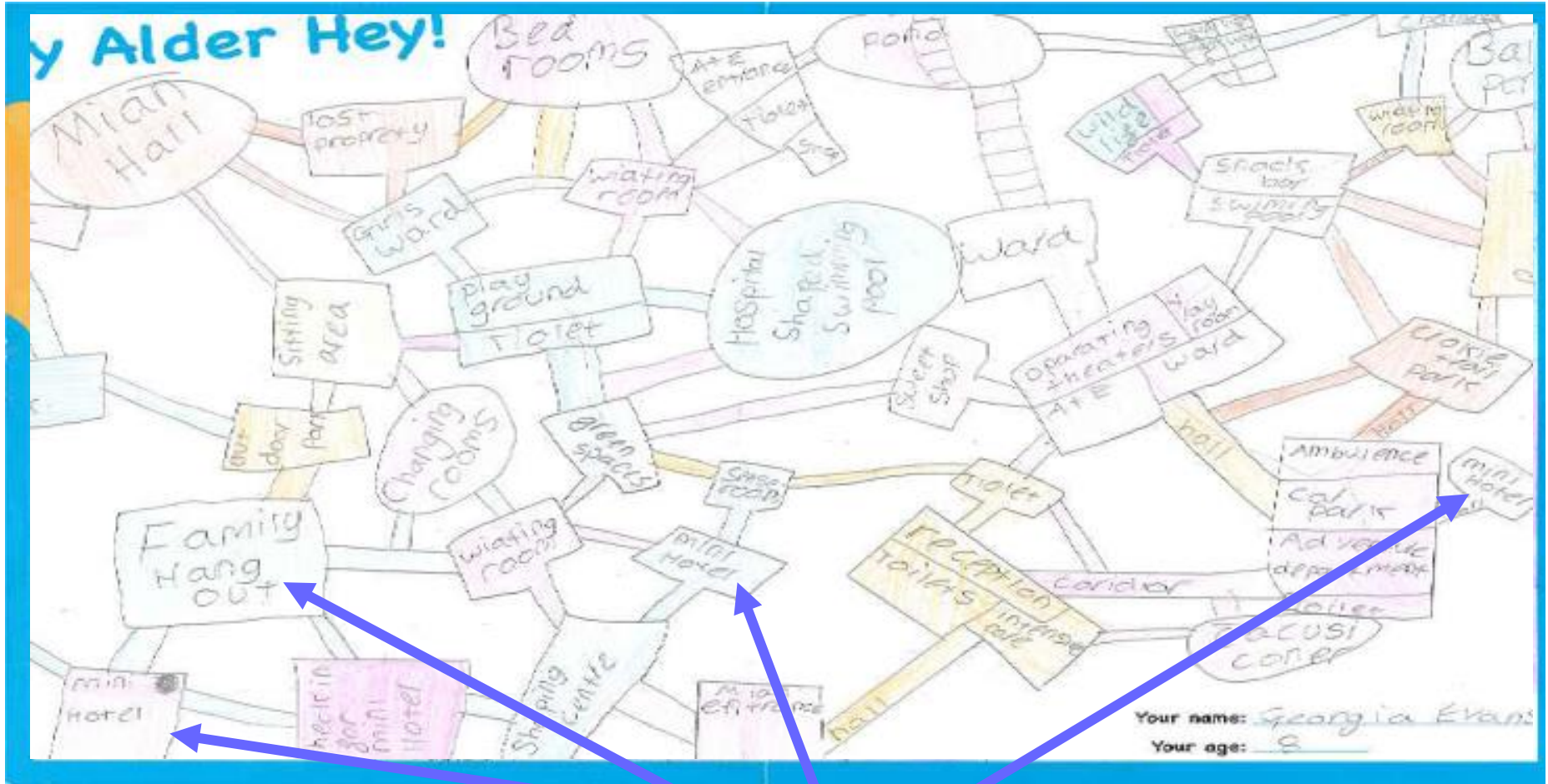
A playground and a pond. A play room and a pottery room with a learning room so kids that are at school and in their hospital can learn whilst they are away- Emma Burt, age 8

Private bedrooms- Ellie Swanson, age 8

Have fun games to play and a garden with flowers to touch and smell- Sara Cleary, age 9.

Your name: Anna McGinn
Your age: 10

Georgia Evans, Age 8



Family support

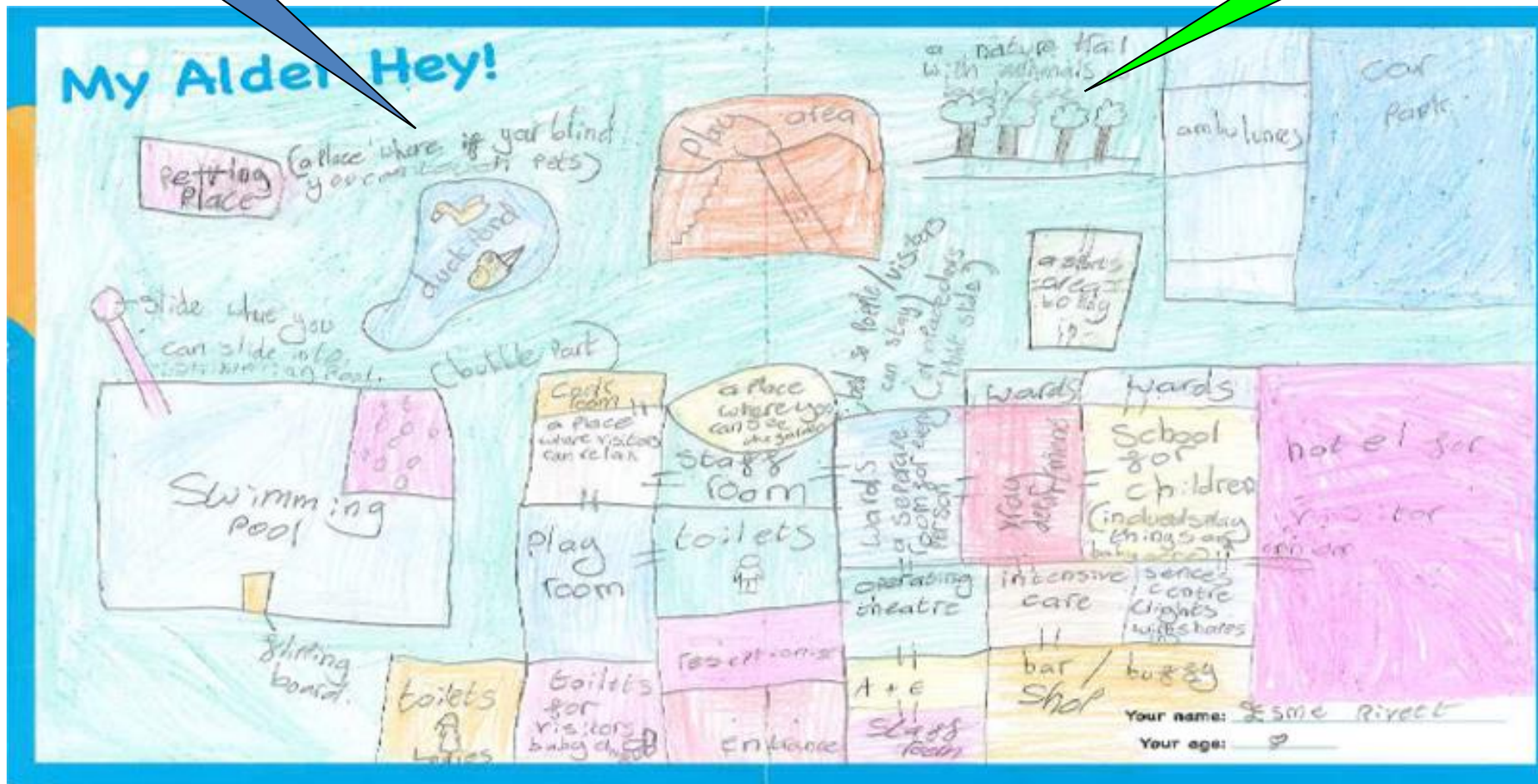
Sensory
garden

Esme Rivett, Age 8

TREES

"Lots of grassy areas where you can relax.

Lots of places where grown ups can relax and where the children can play".

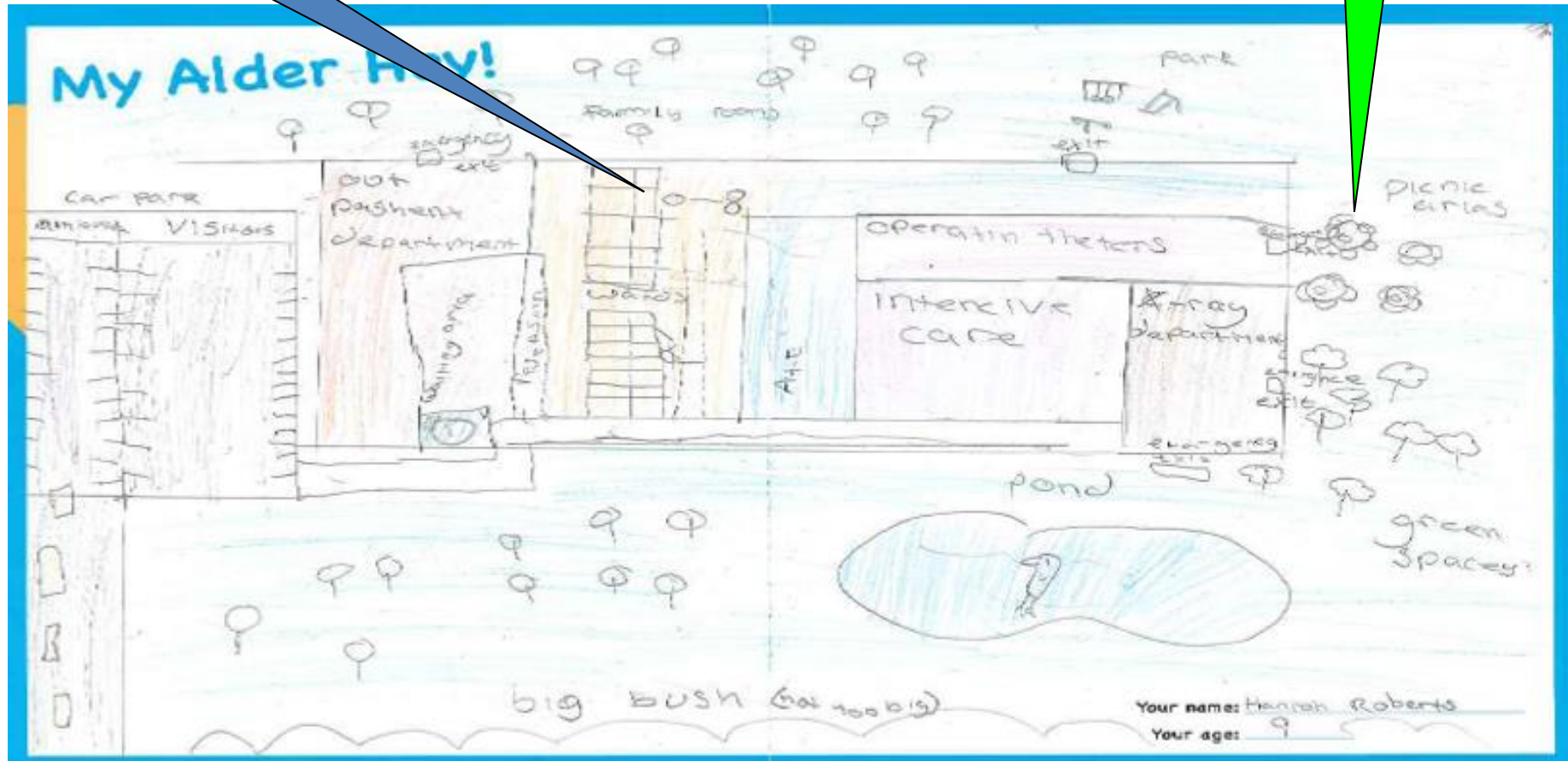


Age
separation

Hannah Roberts, Age 9

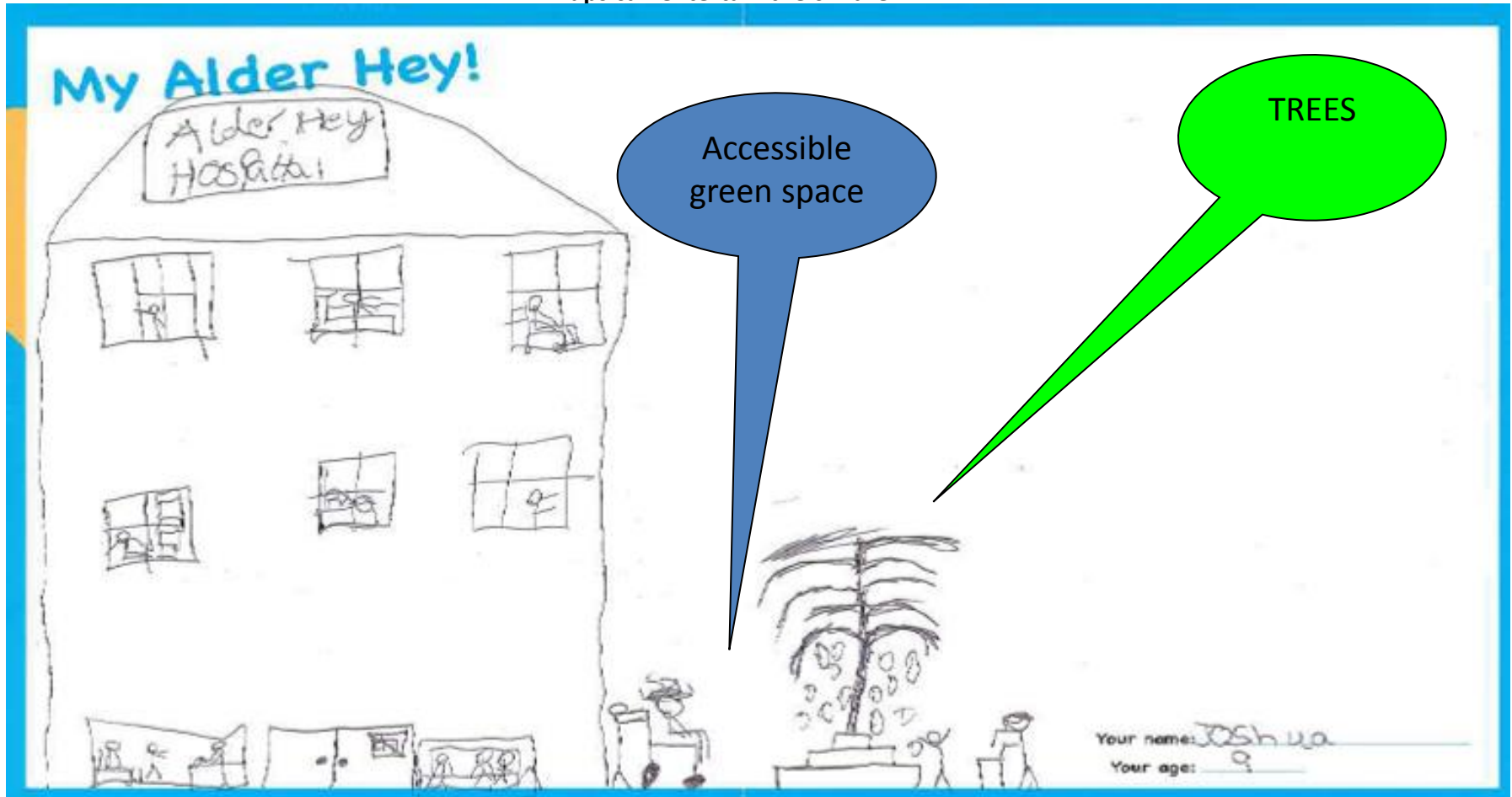
"Have a glass roof so people can look at the stars and wildlife".

TREES



Joshua, Age 9

“Have a play room with toys. A chair so people can sit down and inside so people can wait their turn. A show room so grown ups can entertain the children”.



Listening to children

*'Last time I was in my mum opened
all the windows in the cubicle so that
we could have fresh air'*





Neurology

theatres
& ICU

Pathology

X Ray

A&E

Our Design Concepts

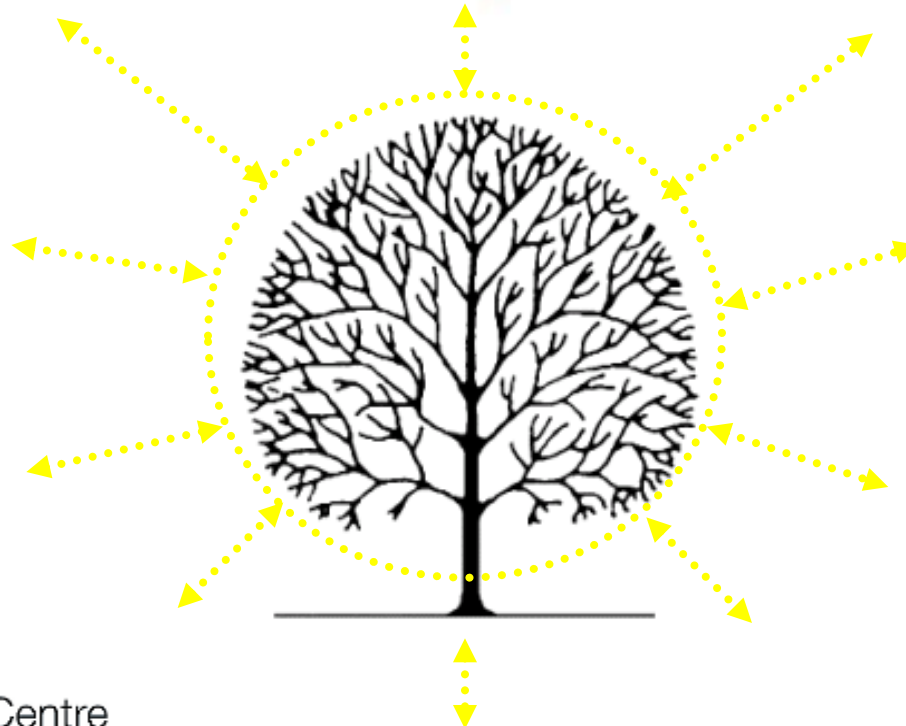
- Health park concept
- Working in harmony with natural environment
- Optimise links between hospital and local community
- Minimise roads maximise walking & cycling
- Improved transport links
- Child friendly
- Ward access to gardens
- Maximise energy efficiency and recycling
- World leading and award winning (Icon Status)



Sustainability Partners



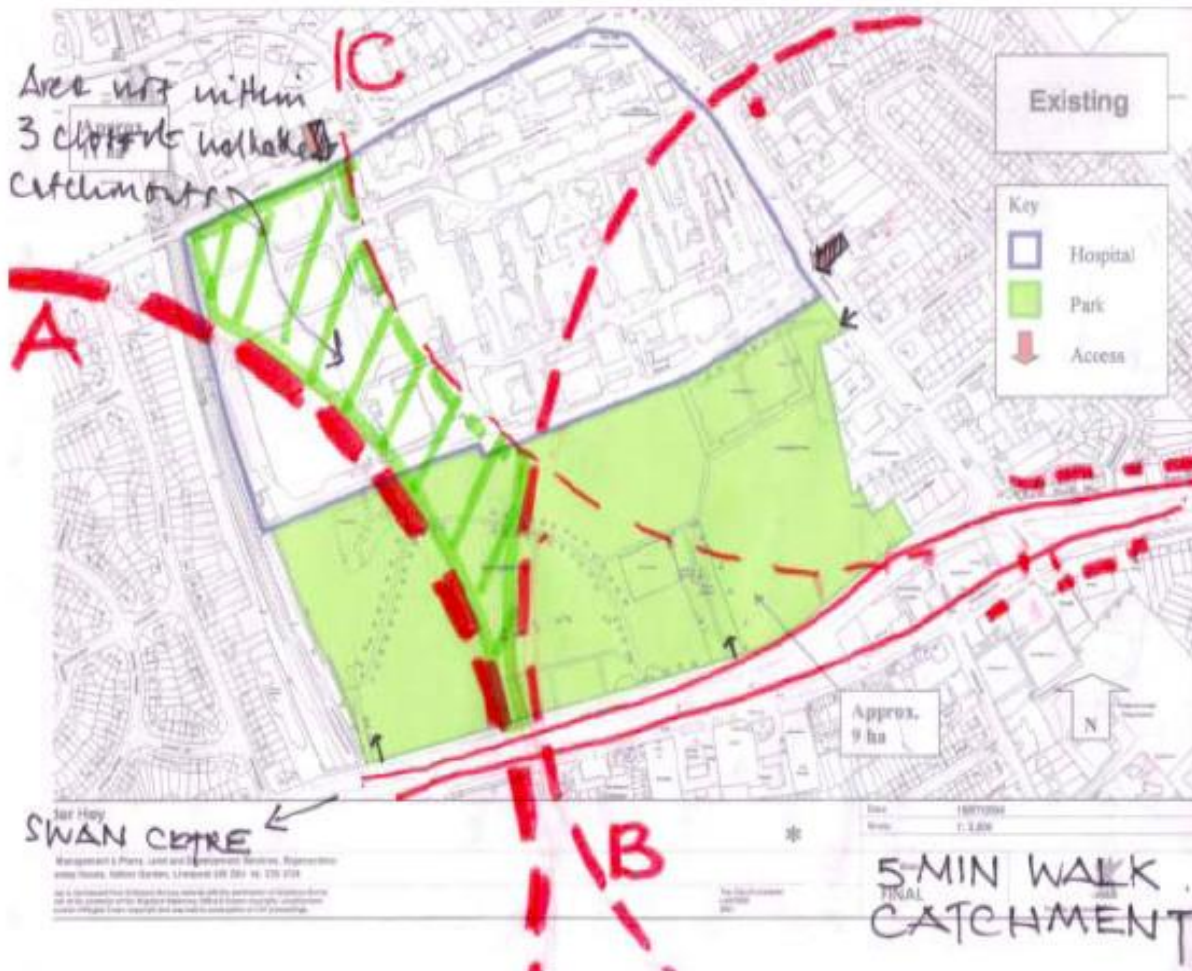
National Wildflower Centre
Promoting new wildflower habitats through creative conservation



Inspired by Children

Vision for Alder Hey

Involving stakeholders: Liverpool City Council, SHA, PCTs, Local Residents, Local Councillors, Community Interest Groups & hospital staff



Enquiry by Design Process



Relationship of 5-minute circles from local centres

A Clear Brief

- Users
- Community
- Holistic Approach



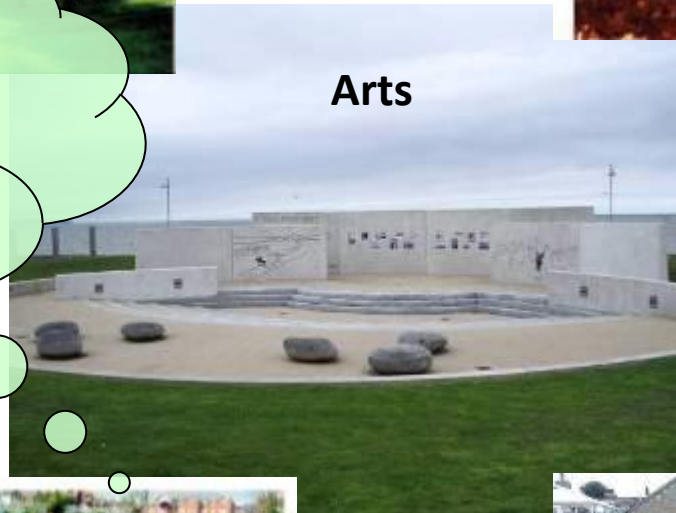
Nature



Play



Arts



DID YOU KNOW?
Alder Hey is a World
Health Organisation
Health Promoting
Hospital

Health



Our plan is to create a
Children's Health Park
with views and access to
green space, nature and
fresh air.

Green space

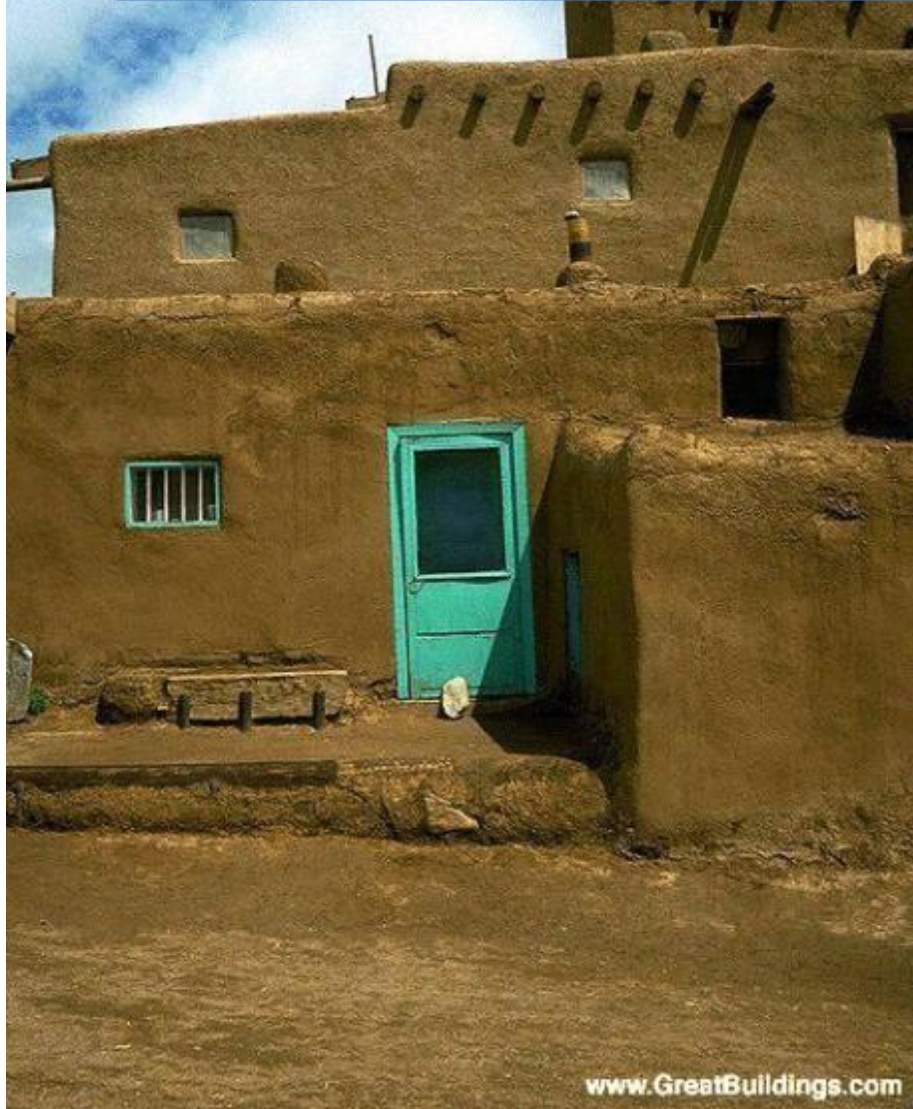




Know your customer



The Right Building for the right environment and community



Alexander road Housing, London 1969

Appearances can be deceptive

It's an interesting place to live.

I think, ultimately, the genius of the design lies in the subtle way it supports family life, and a community spirit without forcing it down our throats.

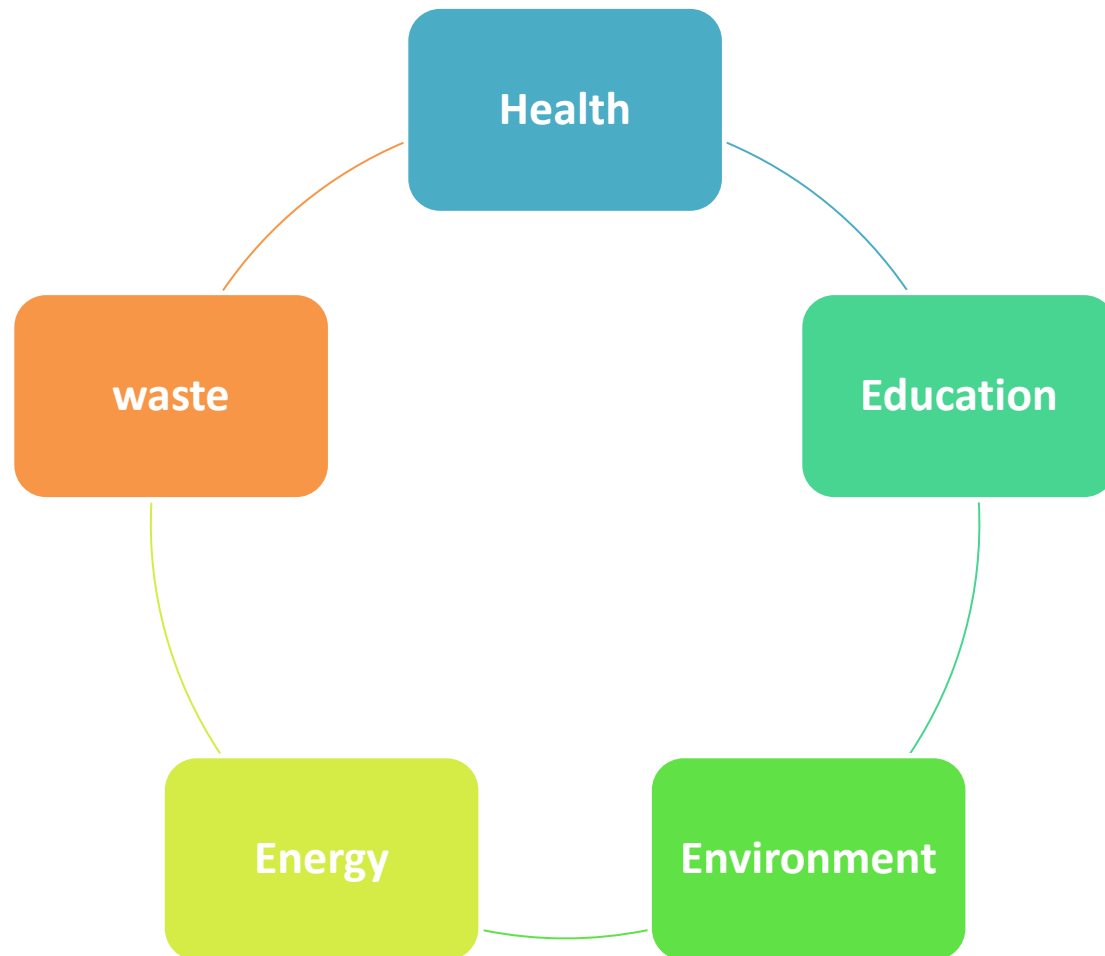
I've heard people comment on "how inhuman" Rowley Way appears to them. I can only say that my experiences in over 20 years of living in Rowley Way have mostly been positive and very human. Whether you've lived here for 20 years or 20 minutes, people are invariably friendly, polite and sensitive. I believe the space somehow magically engenders this.

Does space complement buildings or do buildings complement space?



Sustainable Priorities!

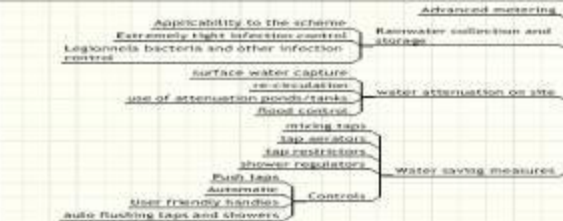
Alder Hey Children's **NHS**
NHS Foundation Trust



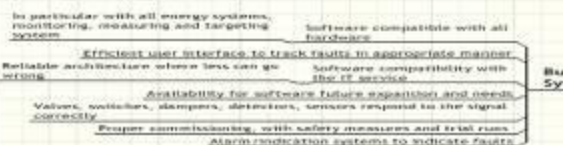
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Children's Health Park Sustainable Design Options

Water management



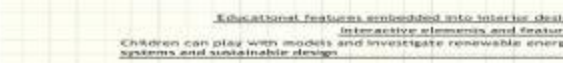
Building Management Systems (BMS)



Architectural



Educational



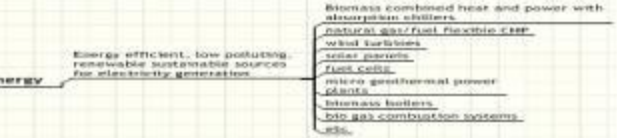
Ventilation and cooling



Heating and hot water



Energy



Construction



Lighting



Electrical







Things will only get tougher



Innovative solutions



The design brief for Alder Hey Children's Hospital is that "if we have seen it before, it's the wrong solution"

Patients staff & families

Art

- Integral in building structure and design
- internal and external strategy
- developed by patients for patients
- art workshop and performance space in design
- art, music, dance, theatre etc
- links with Tate Liverpool

Ward based catering

- greater patient choice of food
- cooked fresh on request
- portion control at request of patient
- minimal waste
- healthy cooking alternatives offered

Food

- healthy eating agenda
- direct advice from catering staff on wards

Exercise

- Information boards in parks
- Possible trim trails for varied ages
- Park and green space accessible by all

Nature

- Information boards in park and hospital gardens
- wildflower green roof with links to national green roof centre and national wildflower centre
- potential to display nesting boxes on patient TV

Sustainability

- small wind turbine for education
- small area of photovoltaic for education
- active energy information screen in atrium
- glass fronted energy centre with information boards

Education

Parent support

- bed next to child
- parent room on ward
- external deck access
- parent room outside of ward
- IT access
- information centre
- Pals

Walking & cycling

- additional cycle storage
- access to showers
- direct links to Sustrans cycle way across park
- Pedestrianised site
- Level access

Natural light

- every bedroom
- every office
- every waiting space
- every staff room
- every parent room
- every play space

Green views

- every bedroom
- most offices
- many staff rooms
- most parent rooms
- Major routes

Fresh air

- every bedroom
- most offices
- many staff rooms
- most parent rooms

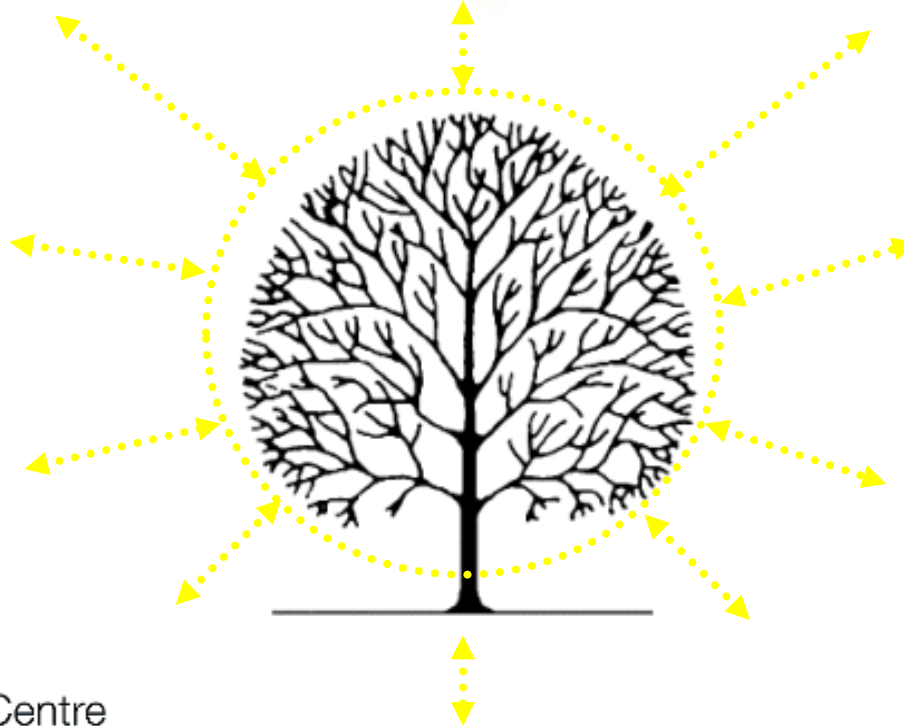
Access to outside

- private
 - every ward
 - some staff areas
- semi private
 - ICU
 - Cardiac
- public
 - all ambulant patients and families
 - all staff
 - all visitors

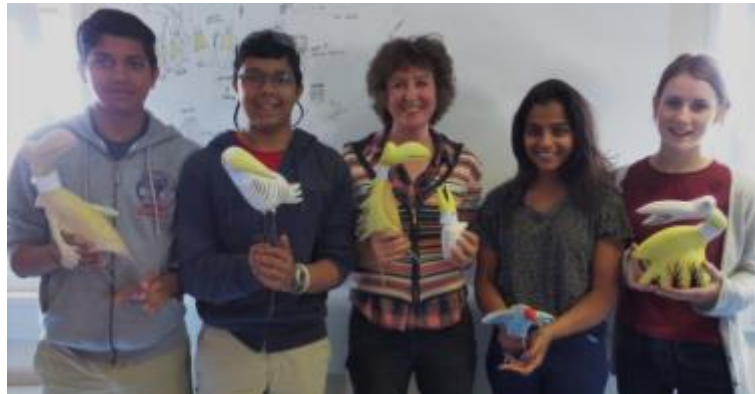
Sustainability Partners



National Wildflower Centre
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Inspired by Children



The Children &
Young Person's
Design Group
keeping Art at the
Heart of Design











A hospital that grows out of
the park

Artist impression

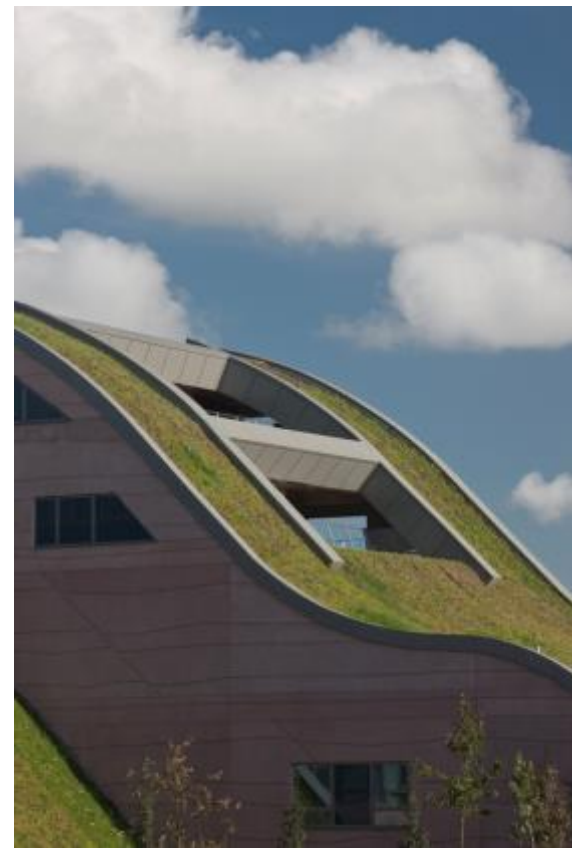


Completed building

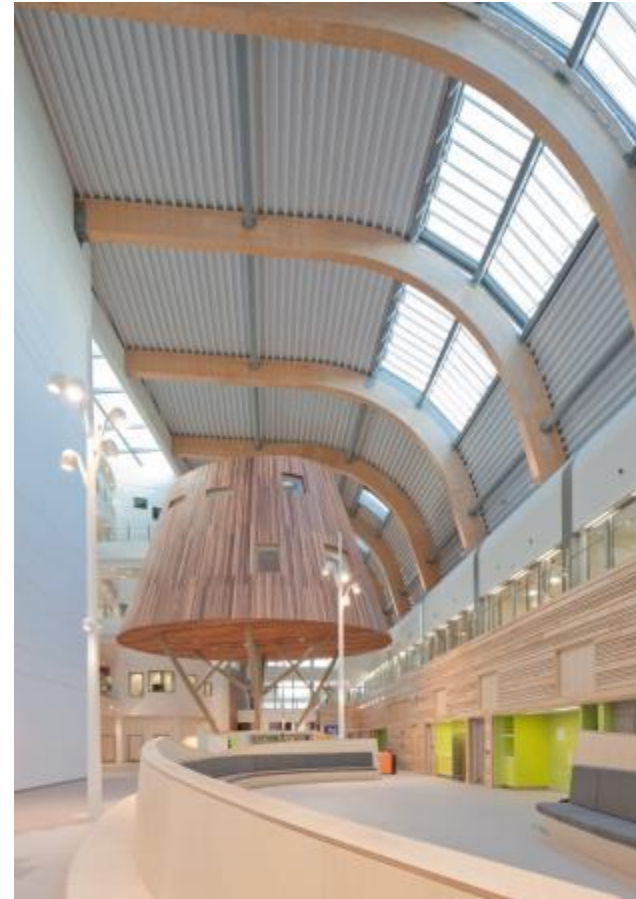




Accessible
landscape

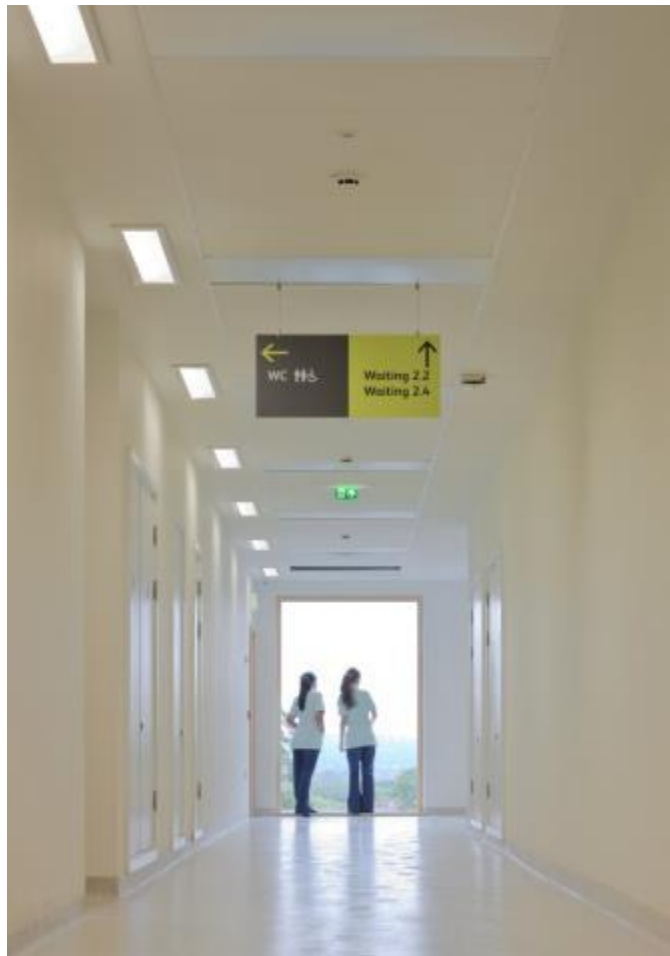


Hard working atrium space





Light and bright routes



CCU curves and light



Light bright receptions



Spacious bright bays





75% single rooms with
unique door design
for privacy or visibility





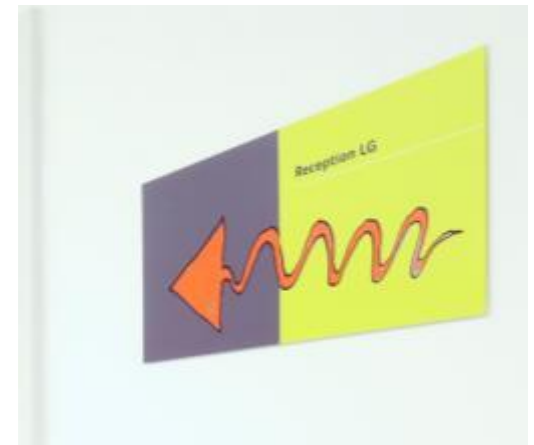
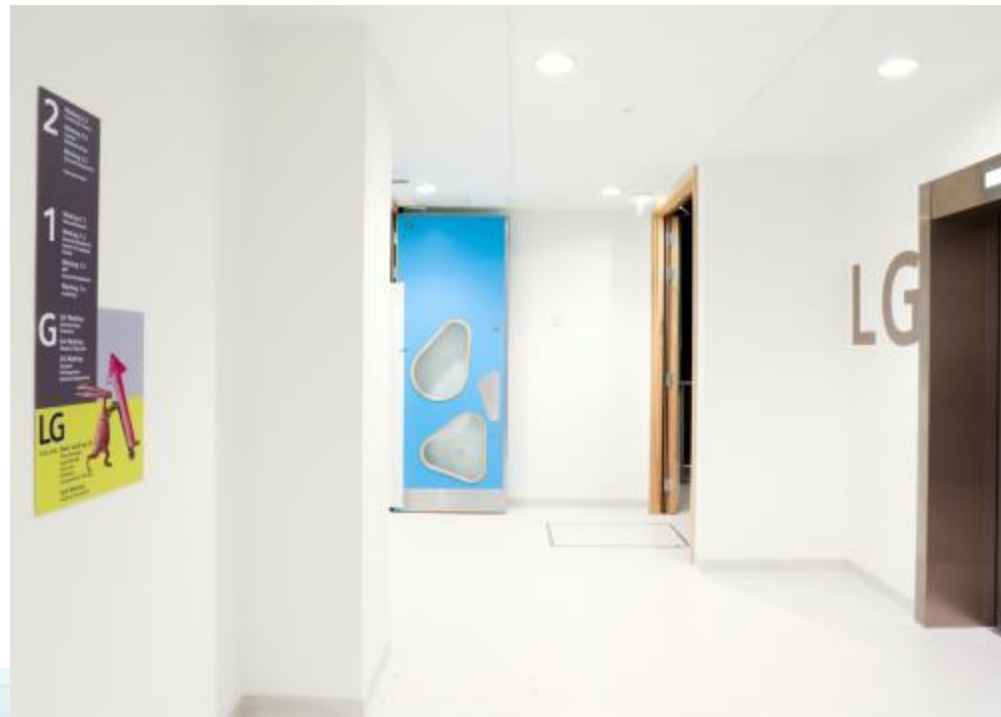
Bright nurse bases with good visibility of bedrooms

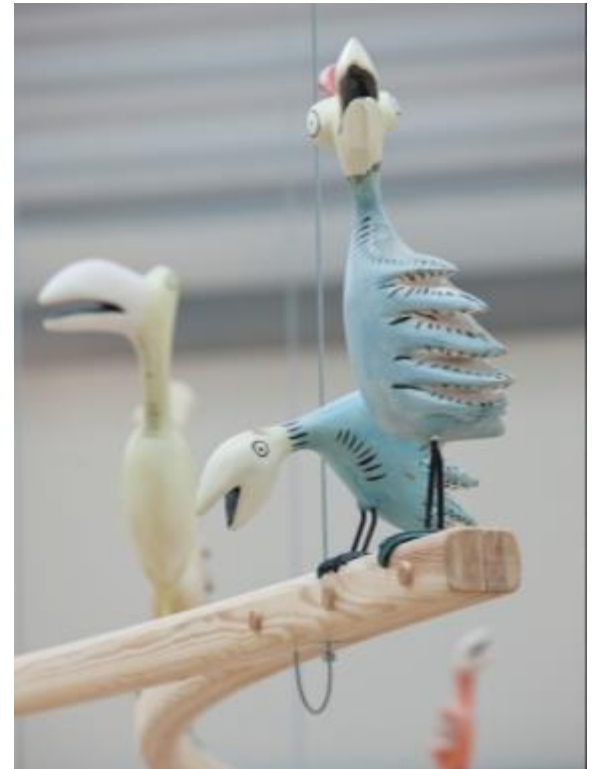
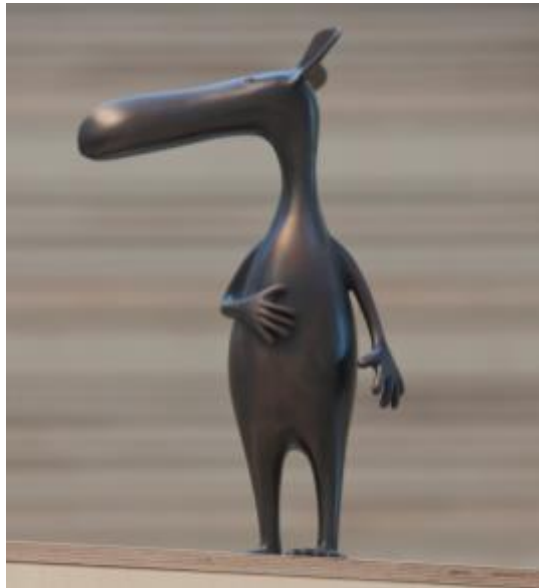
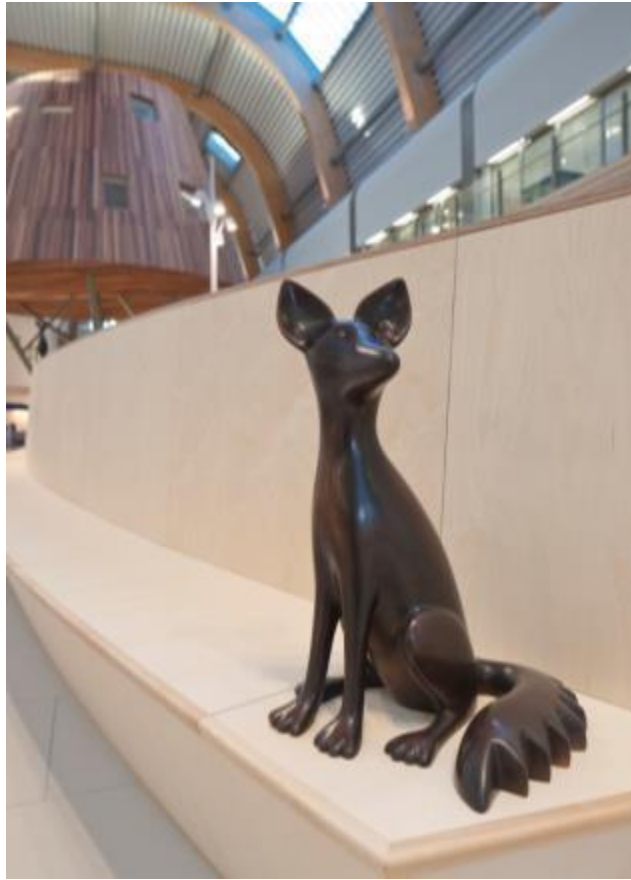
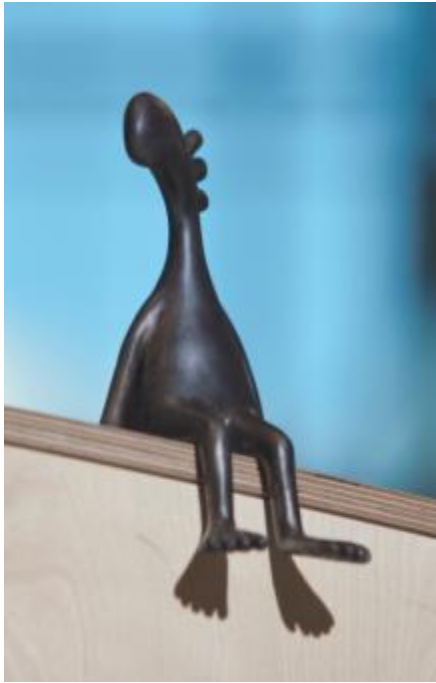


Parents space gives visibility too



Coloured patient doors with child friendly vision panels and fun signage







Sanctuary



Not just
another
play area



Smaller sub waits with distraction





Play deck
with access
to fresh air
and views
of park

Aquaponics



**Health
promotion**





Ever
see a
shark
picnic in
the park?
If he offers
you a bun
.....RUN!

To amuse emus
on warm summer nights
Kiwis do wiwis
from
spectacular
heights

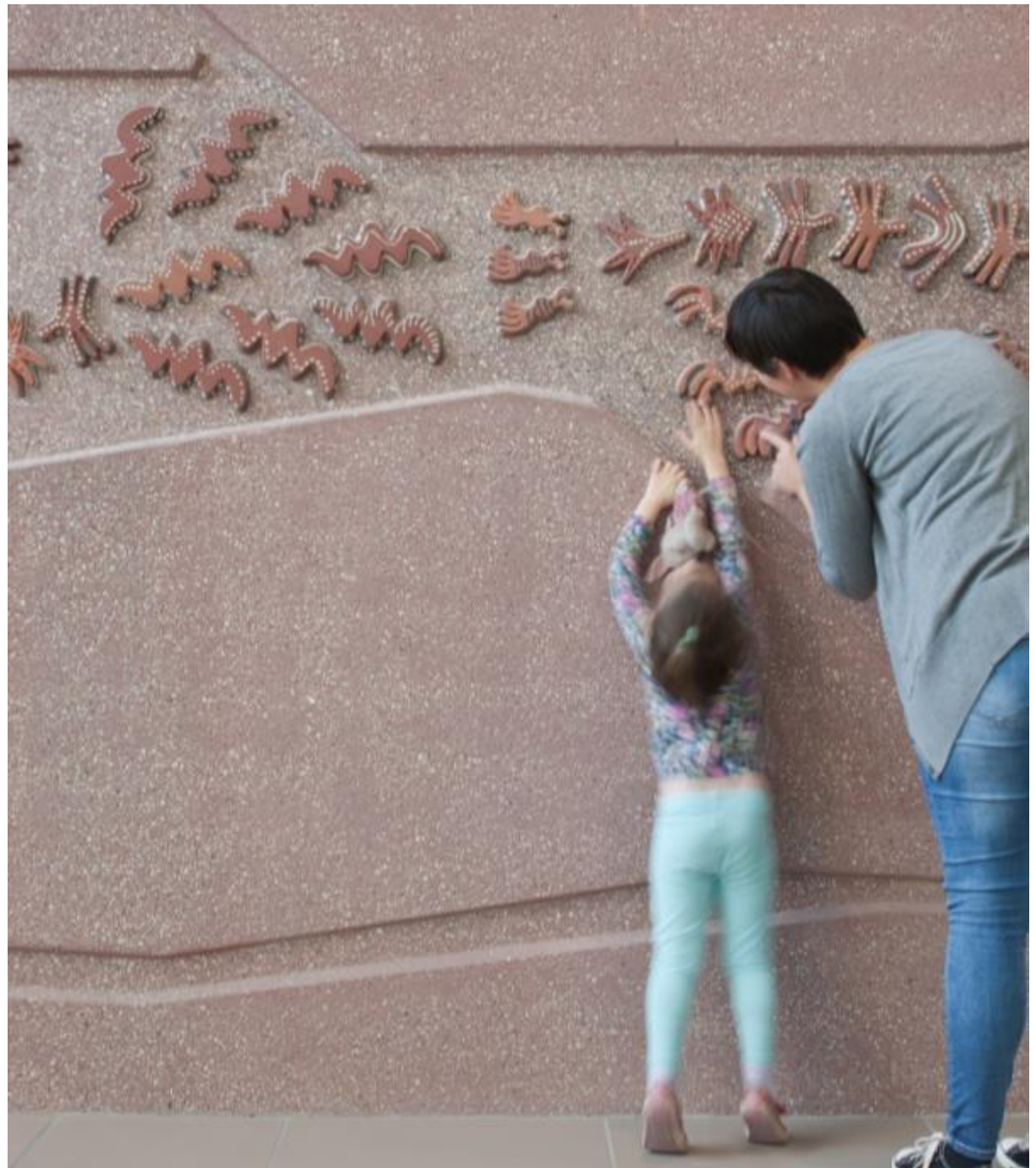


Jack

A past patient & Chair of the Children and Young persons Design Group for 3 years
Just gained a 1st class degree in Architecture

Looking to the future

**A visible change in
the perception of
children to a hospital
visit**



Challenging Change

Environmental

- Building on parkland
- Public land swap
- Traffic issues
- Green energy
 - Solar
 - Wind
 - Rain
 - Biomass boiler
 - Ground source heat pumps
 - CHP

Innovation

- Possibilities
 - New materials
 - Robotics
 - New systems
 - New ways of working
- Challenges
 - Reliability
 - Fear of failure
 - Capital costs

Box or framework?

- there to be challenged
- there to be stretched
- There to guide not dictate

Standards

- legal
- advisory
- common practice

Reasons not to

- Easier
- Cheaper
- less problems solving
- Less risk
- Laziness

Challengers

- Fire brigade
- Gateway
- Design Review Panel
- Strategic Health Authority
- Private Finance Unit
- DoH Estates
- Planners
- Councillors
- Highways
- Parks and Gardens
- Regeneration
- Will it work
- Always done this way
- Staffing implications
- new way of working
- resistance to change
- fear

Users

Risk?
Not if its managed right
Hard Work?
Yes it is but worth it

- Architects
- Building services
- Consulting engineer
- Environmental
- Facilities management
- Financial
- Healthcare planning
- Legal
- Quantity surveyor
- Town Planning
- Transport

Technical advisors

Essential Skills

- Commitment to a clear vision
- Support from the top
- Prepare to challenge
 - Everything
 - Everyone
- Don't take no for an answer



**“IT’S KIND OF FUN
TO DO THE IMPOSSIBLE.”**

-Walt Disney

