CONGRESS '19

EAHM

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HEALING ARCHITECTURE

Mr. Philippe Blua

EAHM President

Welcome by the theme chair



Mr. Gunther De Graeve

Managing Director DESTRAVIS, CEO international Academy for Design & Health

A healing city starts with a healing care environment





Healing architecture

Gunther De Graeve

CEO, International Academy for Design And Health Managing Director, Destravis Group







What is healing architecture?





Approach

- 1. Architecture and its relation to health
- 2. Healthy design and our community
- 3. Healthy design for buildings
- 4. Healthy design for healthcare facilities
- 5. Process for healthy design







How does architecture define its relation to health?







Marcus-Vitruvius-Pollio, Roman architect and writer of De Architectura. Ten Books on Architecture, written approximately 20-30 BC





It is the only text on the subject of architecture to survive antiquity. It was also one of the first texts in history to draw a

connection between the architecture of the body and that of the building.

Vitruvius believed that an architect should focus on three central themes when preparing a design for a building:

- firmitas (strength)
- utilitas(functionality)
- venustas (beauty





But the theory of *venustas* (or beauty) is a very complicated one. Vitruvius thought that a timeless notion of beauty could be learnt from the 'truth of nature', that nature's designs were based on universal laws of proportion and symmetry.

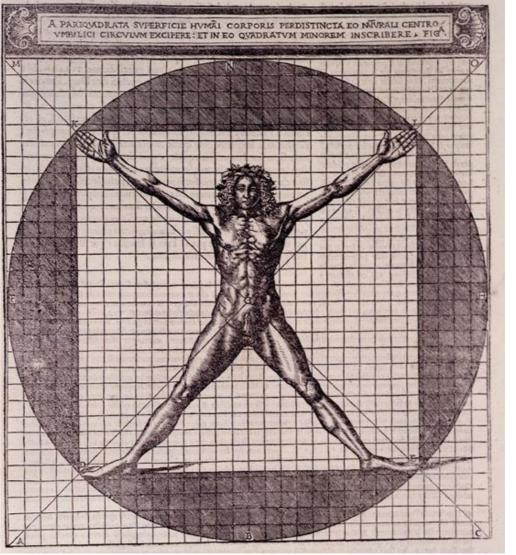
He believed that the body's proportions could be used as a model of natural proportional perfection. He wrote of the way ancient scholars examined many examples of 'well shaped men' and discovered that these bodies shared certain proportions. He showed that the 'ideal' human body fitted precisely into both a circle and a square, and he thus illustrated the link that he believed existed between perfect geometric forms and the perfect body. In this way,

the body was seen as a living rulebook, containing the fixed and faultless laws set down by nature.



So it followed, according to Vitruvius, that an architect's designs must refer to the unquestionable perfection of the body's symmetry and proportions.

If a building is to create a sense of eurythmia - a graceful and agreeable atmosphere - it is essential that it mirrors these natural laws of harmony and beauty.



Vitriuvian man





However, there is no link drawn between the sense of eurythmia and our state of mind to foster health wellbeing

...there is absence on the mater of Health and wellbeing, and on sustainability as a whole...

....in fact, there is no mention in regards to an overarching ethical responsibility for Architects.

Medical doctors swear and oath...

Architects can and are legally not obliged to avoid harming overall health and make lasting negative impact.





Conclusion on Ancient History of architecture

Vitruvius' work is incomplete, he should have written the eleventh and twelfth book of architecture:

11th The book of ethical responsibility of architecture

12th The book on how architecture should be having a healthy impact on the natural environment

As such his theory should have been complete as:

- firmitas (strength)
- utilitas(functionality)
- venustas (beauty)
- Sanus (healthy)





Conclusion 1

We need to undertake research (both Evidence based and Practice based) and define :

- The ethical responsibility of architecture
- The architectural theory on the healthy impact of the built environment

Consider Design as a whole including Town planning, Infrastructure planning, engineering, interior design, industrial design, landscape design, manufacturing, etc.



Vision 2

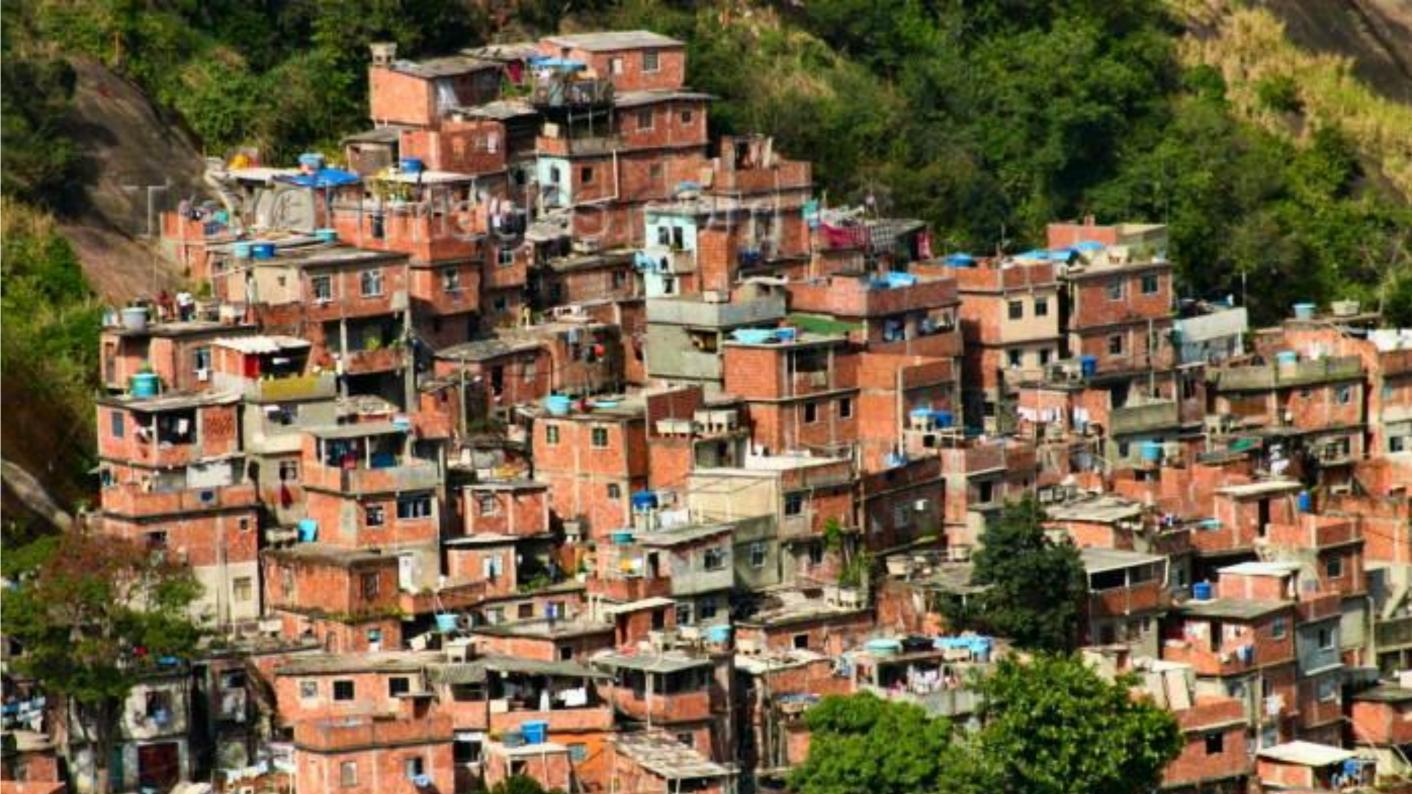


Healthy design and our community

















30% of diseases are related to medical, biological conditions.

70% are related to our environmental conditions.

OUR NATURAL AND BUILT ENVIRONMENT

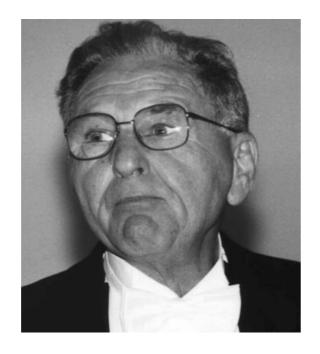


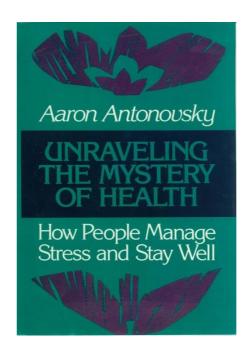


In developed countries, healthier environments could significantly reduce the incidence of cancers, cardiovascular diseases, asthma, lower respiratory infections, musculoskeletal diseases, road traffic injuries, poisonings, and drowning.









Aaron Antonovsky: salutogenesis

Latin salus = health & Greek genesis = origin.







THE GLOBAL GOALS

For Sustainable Development





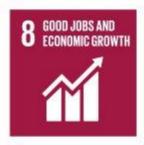






























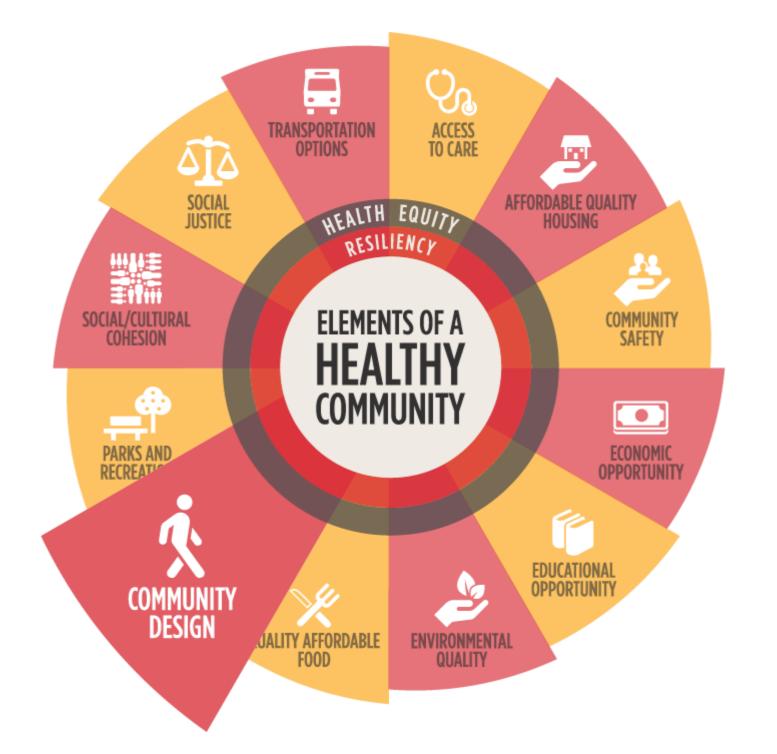


#GLOBALGOALS













DESIGNING HEALTHY COMMUNITIES



RICHARD J. JACKSON WITH STACY SINCLAIR





		www. nhsforest .org
EVIDENCE OF BENEFITS		Current page search
There is mounting research evidence which backs up the case that the NHS Forest will help sites to realise the following, proven health, social, environmental and financial benefits:		What we do
The research articles below provide evidence fields:	of the NHS Forests's benefits in the following	Get involved
ACCELERATED PATIENT RECOVERY	COMMUNITY HEALTH	Who runs the NHS Forest?
SOCIAL COHESION	IMPROVED AIR QUALITY	Sustainability and Evidence
		Benefits of green space 6
REDUCTION IN NOISE	GLOBAL TEMPERATURE	<u>Evidence</u> ő
		Biodiversity 6
REDUCED WATER FLOODING	REDUCED CARBON EMISSIONS	Pollinating <u>ő</u>
	-	Sites and Supporters
HEALTHCARE PREVENTION	FLOODING PREVENTION COSTS	Green Health Routes
REDUCED ENERGY COSTS	REDUCED MAINTENANCE COSTS	News & events
VALUE FROM LEISURE		Subscribe to NHS Forest

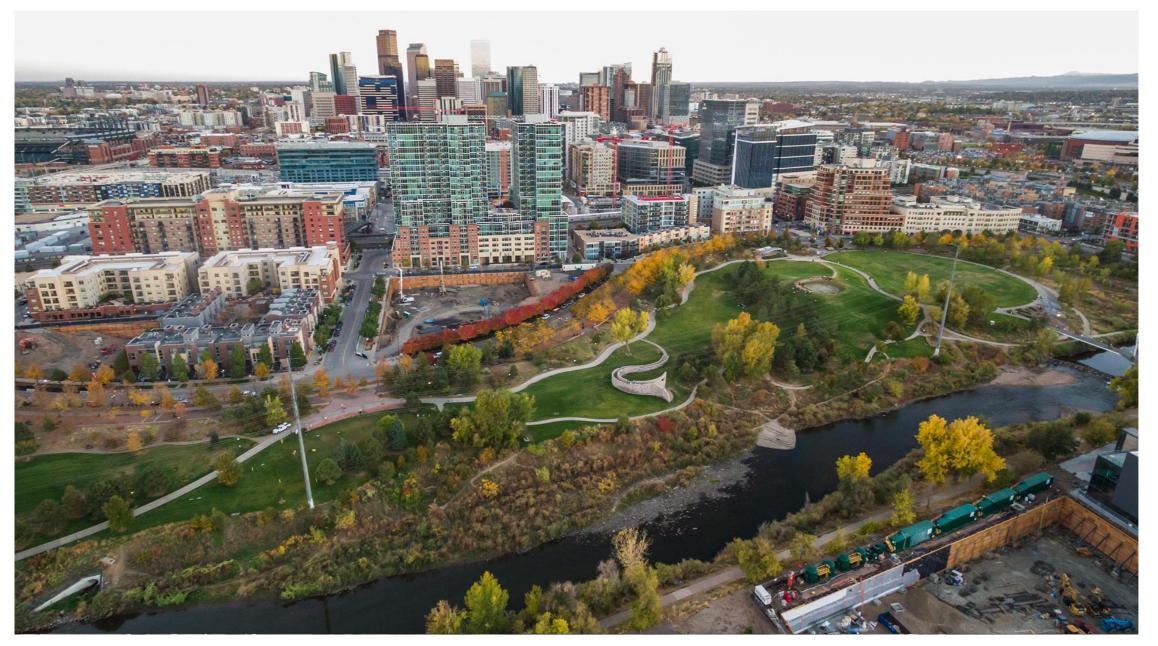














Commons Park, Denver







Vision 3

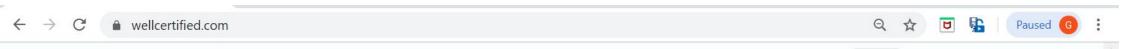


Healthy design of buildings

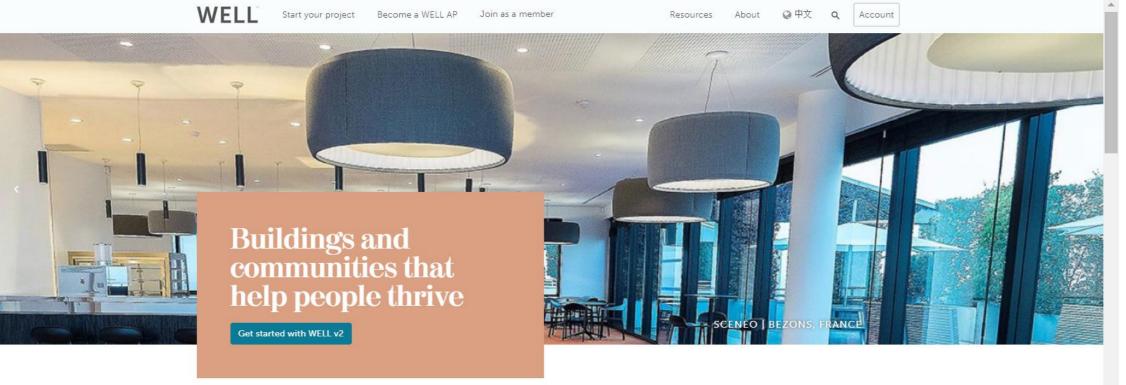














REGISTER YOUR BUILDING FOR

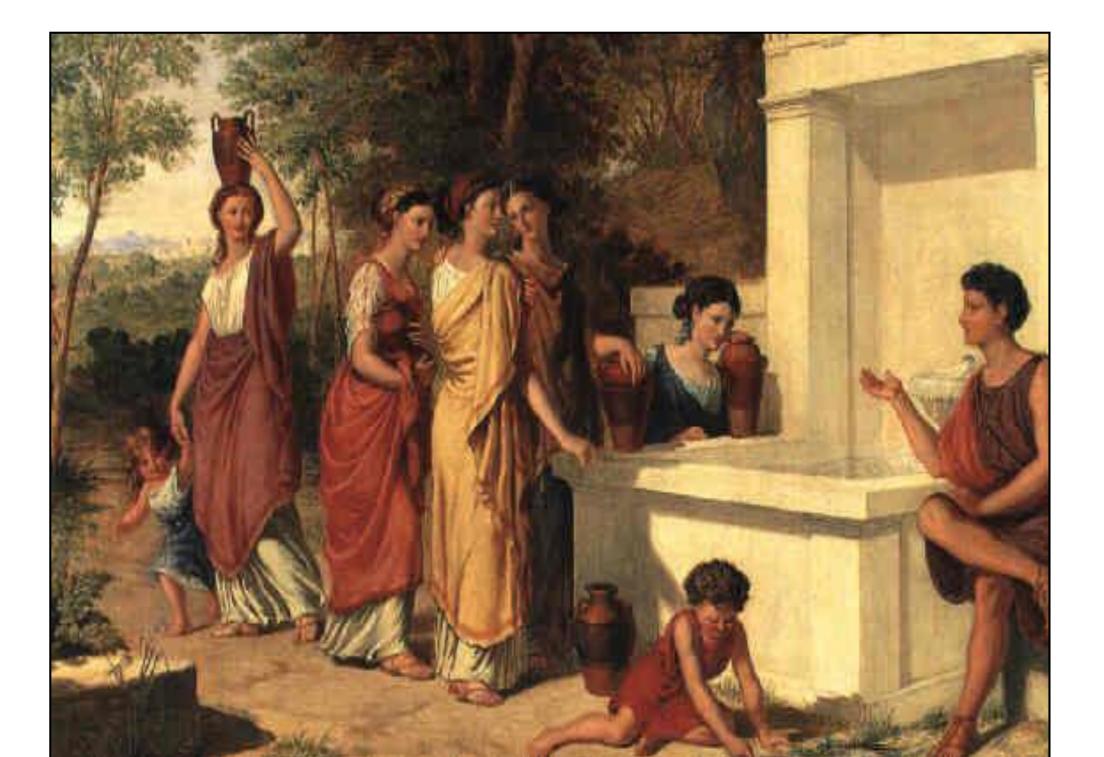
WELL Certification

WELL is the leading tool for advancing health and wellbeing in buildings globally. Register your office, building or other space to leverage WELL's flexible framework for improving health and human experience through design.

Explore WELL v2

Explore WELL v1

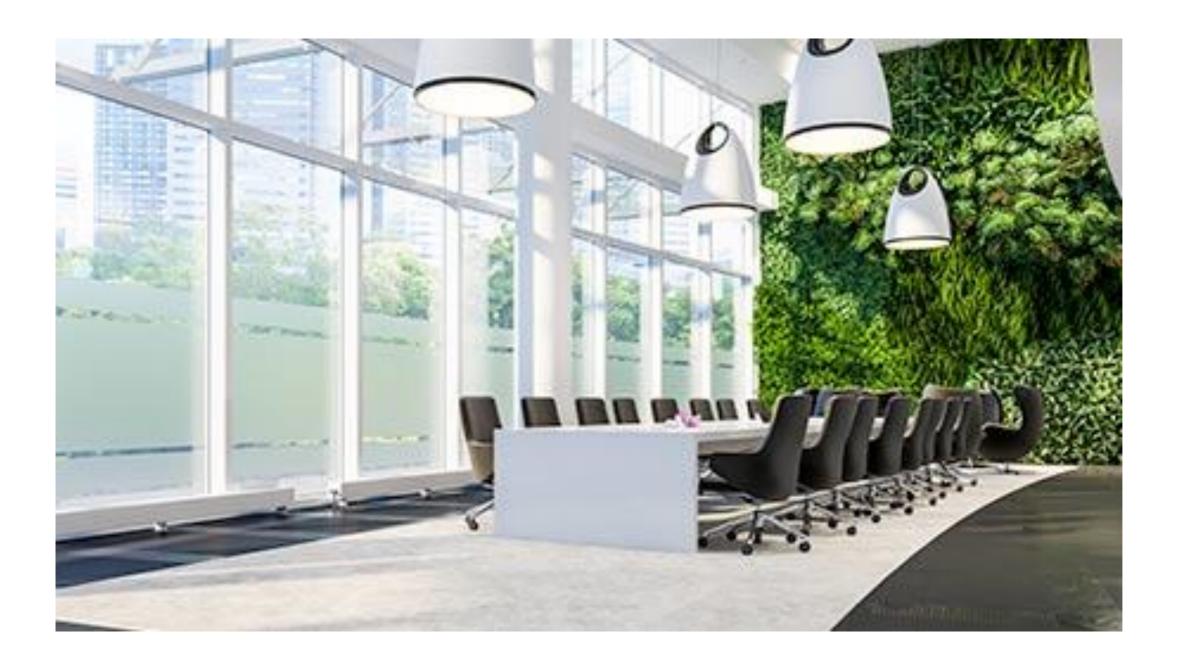


















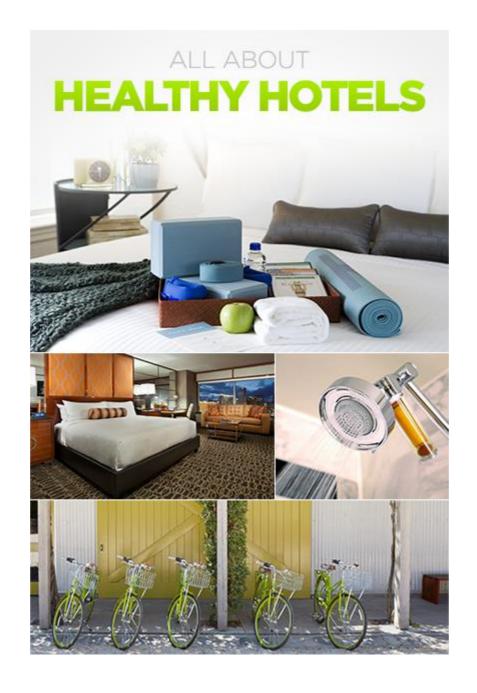




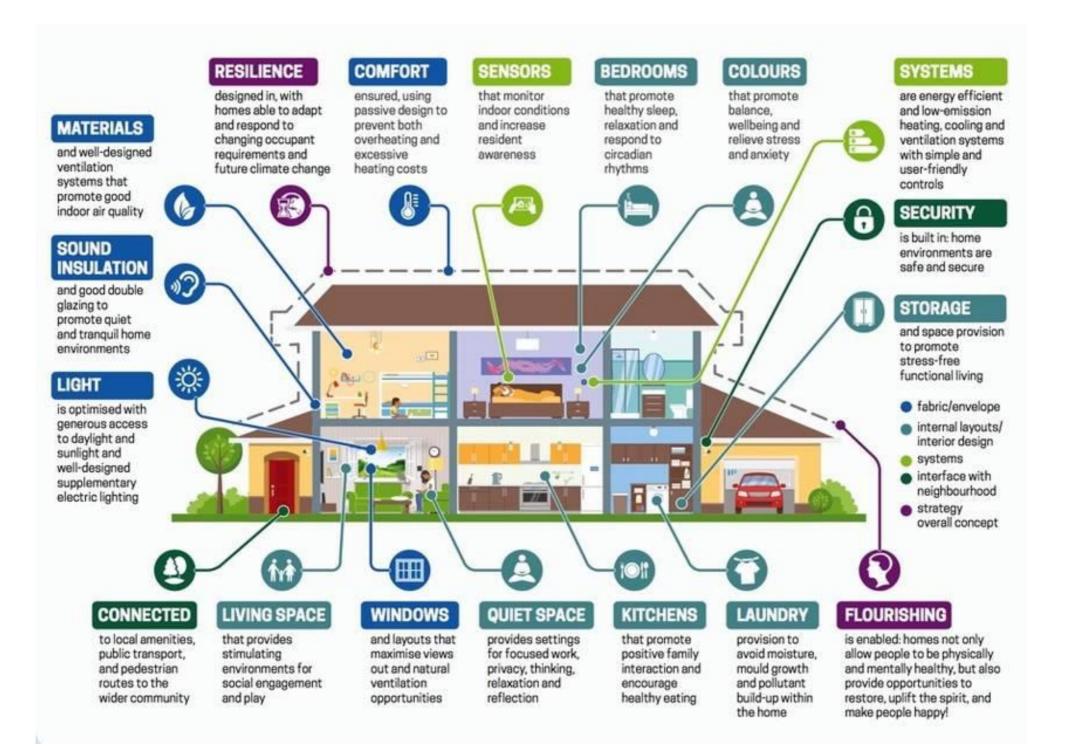
























Vision 4



Healthy design of healthcare facilities





Patients with visual access to natural light and nature stayed in hospital for a shorter time with better outcomes.

Ulrich 1984

Patients having care provided in a healing and environmentally accommodating setting are more likely to be discharged earlier and with better health outcomes

Hays (1996) Beauchemin and Hays (1998) Walch et al (2005)



















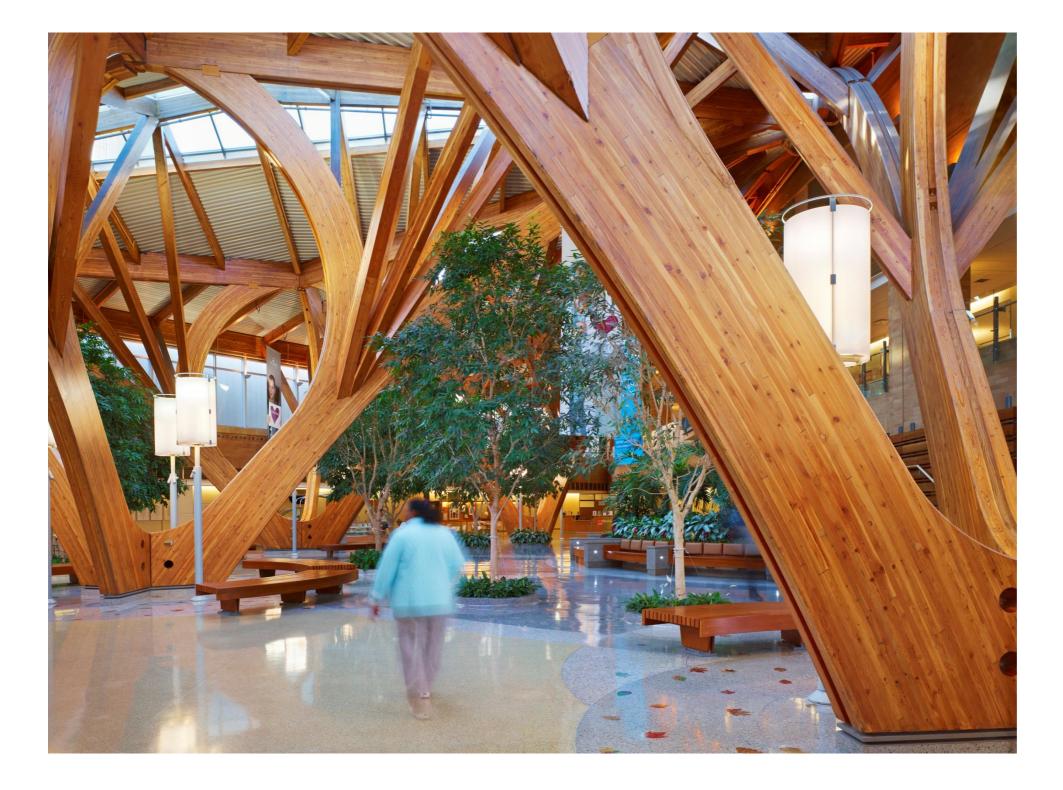
2010: 120 sqm per bed for hospital based care



2019: 175 sqm per bed for hospital based care

45% increase !?!?







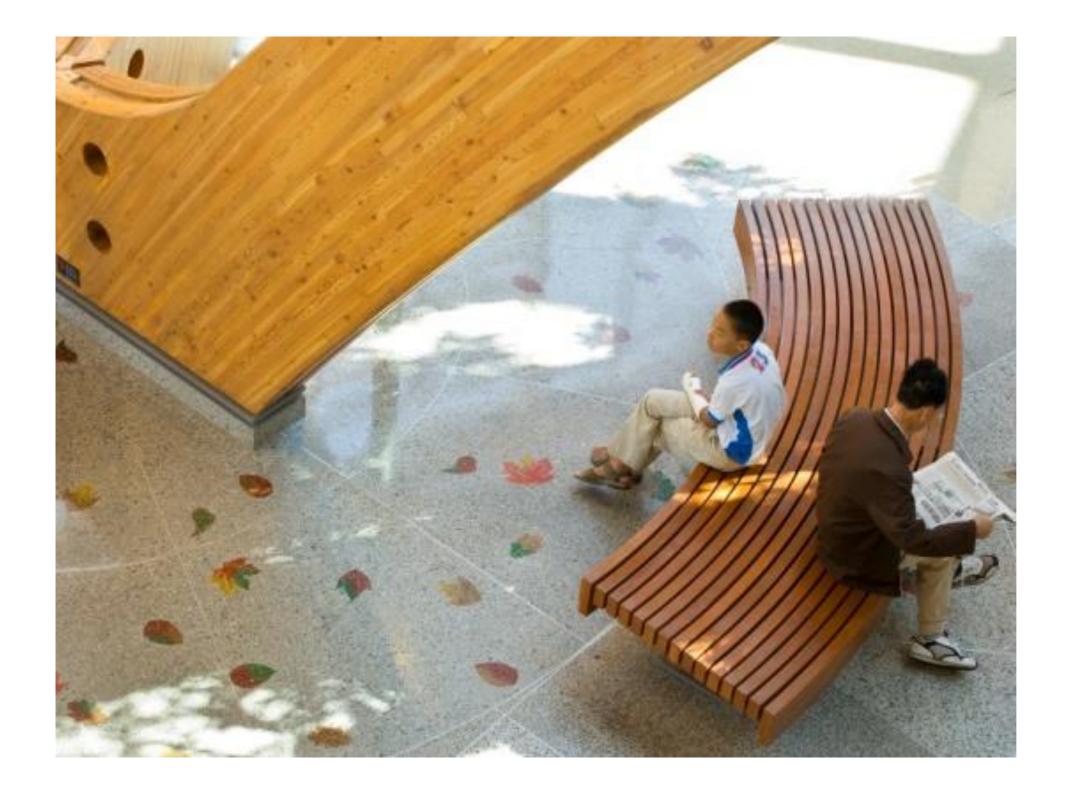
























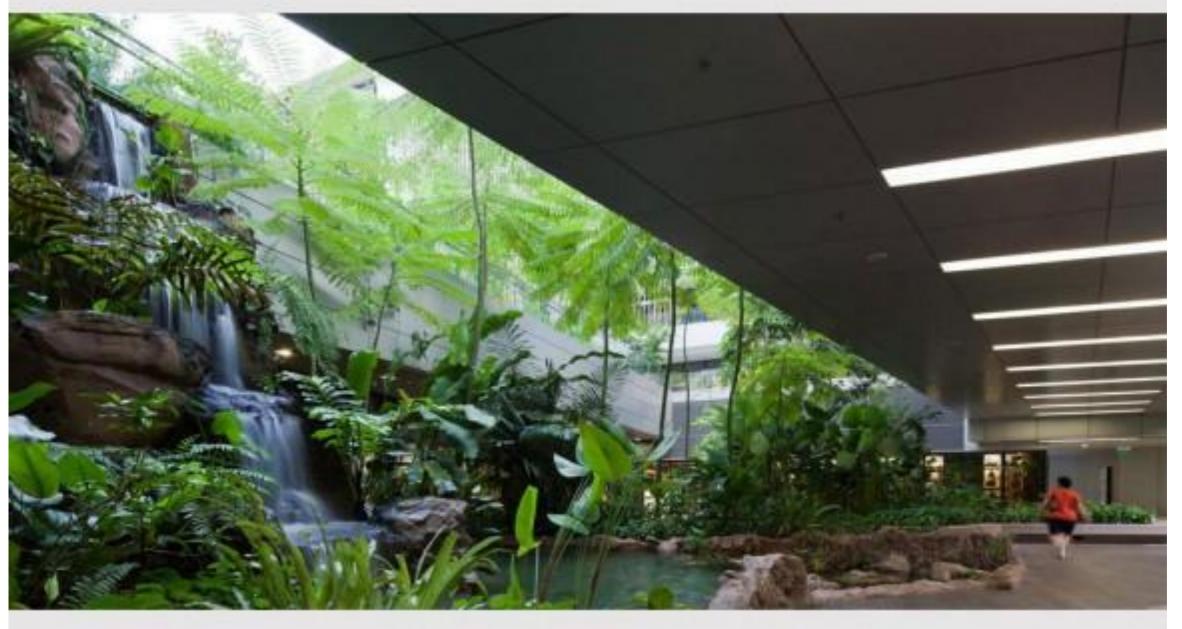










































Alexandra Health Polyclinic, Singapore

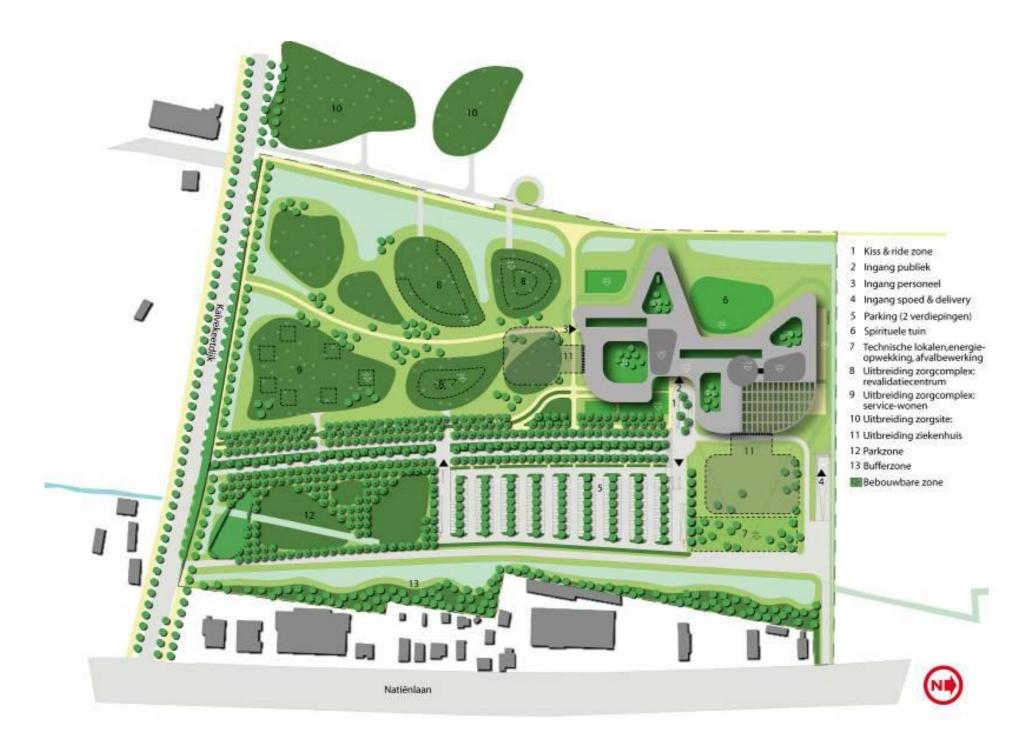






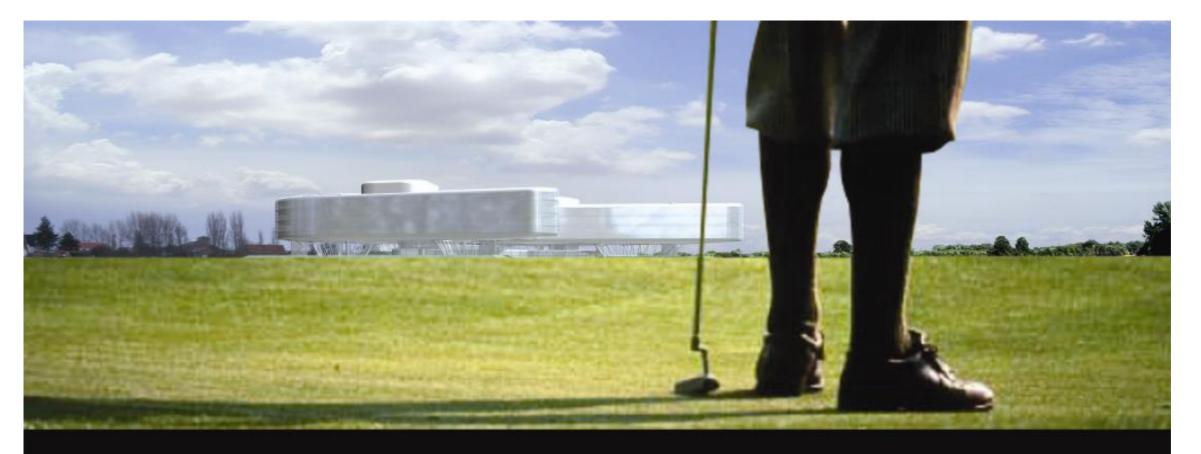












Suave, mari magno turbantibus aequora ventis e terra magnum alterius spectare laborem

Lucretius - De Rerum natura - Liber II - verzen 1-2



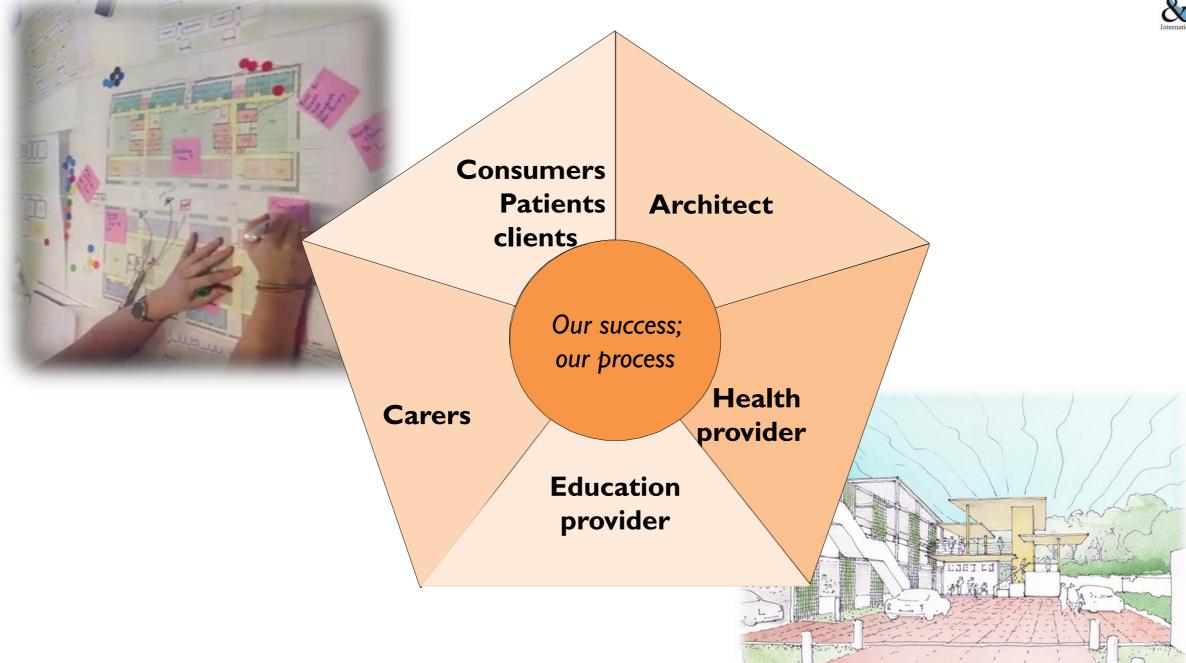
Vision 5



Healthy design process











Site selection and Test Fit

- Suitable site to support and provide amenities
- Hospital campus as per recommendation of the COI

Model of Service Workshop 1

Model of Service Workshop 2

Co Design Workshop 1 – 4th Nov - Scope Validation workshop

- Operational parameters
- Operational principles
- Design parameters
- Design principles
- Evaluation Test-fit

Model of Service Workshop 3

Co Design Workshop 2 – 21st Nov- Design workshop

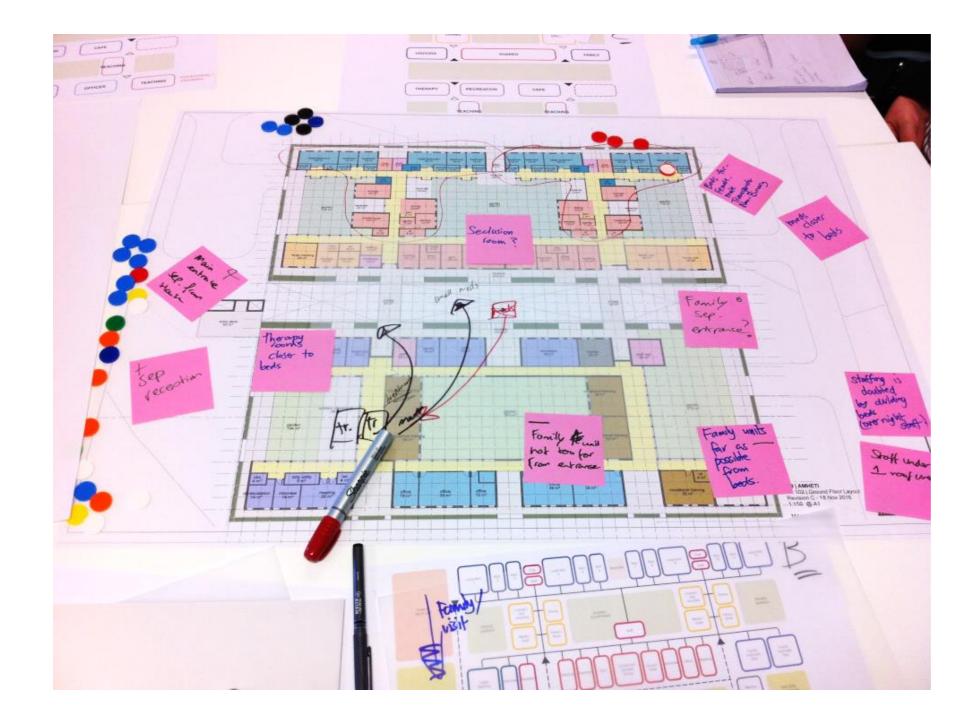
- * Day in life" scenarios: patient, staff, educator, support. emergency
- Testing of Patient cohorts
- Testing of treatment period/cycle
- Operational modes –day-night-weekend-evenings

Co Design Workshop 3 - 5th Dec–Review and Evaluation workshop

- Review design versus "Day in Life"
- Review patient cohorts
- Review treatment period/cycle
- Review operational modes –day-night-weekend-evenings



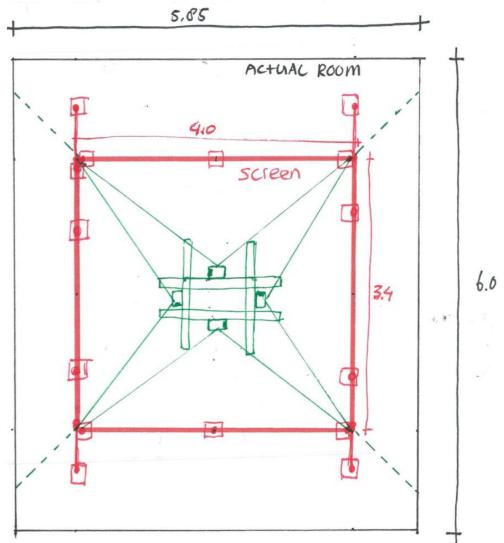




































Adolescent Extended Treatment & Rehabilitation Centre DESTRAVIS





Co-Design Process

- Understand

Design team explained the intended design of the space to create an understanding of the use of the room. The main focus was to reflect on the following questions.

- · What would you want in this room?
- · Would you change anything to make it better?
- · How would you use this room?

- Observe

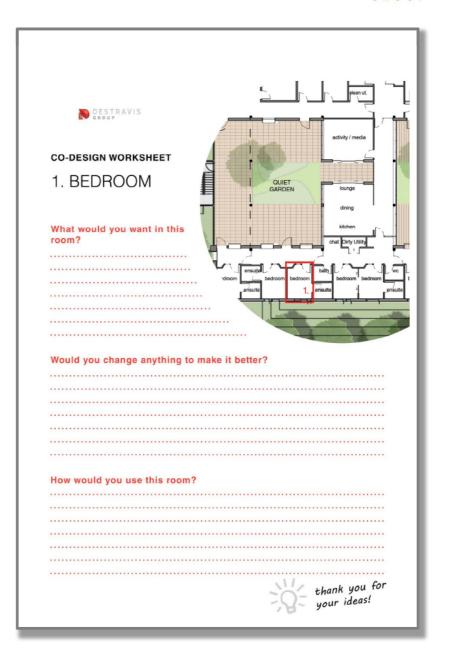
Participants observe the space and reflect on intended design. Questions were asked at the Design Team.

- Reflect

Participants share reflections, exchange findings with each other and project team.

- Capture

Participants captured their feedback on worksheets that were handed to them at the beginnin gof the workshop. Each room had a separate worksheet with the set questions.







Conclusion 5



Helping participants feel supported



Acknowledge this is a complex process and tough issues can challenge participants



Matching consultation to different stakeholders



Develop a shared language



Acknowledge expertise







Takeaway conclusion

The current approach to healthcare is not sustainable, both ethically and financially





Takeaway conclusion

- To demand that architects practice and apply the Science of healthy design
- 2. The develop a **Design Science that allows health** outcomes **to be** calculated and **measured**, thus enabling a healthy build environment index
- 3. To articulate/demonstrate the **commercial value** of healthy environments that **score high** on the build environment **index**
- 4. Leverage the commercial value as a catalyst for healthy (urban) renewal
- 5. Consider non-healthy as non compliance and unethical





International Academy for Design and Health Vision statement

To foster Salutogenic design to promote health and wellbeing by creating physical environments that support health promotion and thereby healthy societies.



Call For Papers

International Academy for Design and Health

www.designandhealth.org editor@designandhealth.org

Congress Theme – Less is more

Day 1 - Healthy City

Streams: Healthcare in the Community, Acute Care, Mental Health and Clinical Research.

Day 1 will consider how we design a healthy city? How would this impact community care, acute care, mental health and clinic research? What would be the outcomes of reducing the burden of disease at different levels? How could the design of a health city prevent a reliance on health care?

The healthy city can be strongly researchled, however, we will feature case studies and practitioners talking about their work and the outcomes in practice.

Day 2 Theme – Global Perspectives

Streams: Europe, South America, South Pacific, North America, Asia, South East Asia and Africa & Middle East.

Day 2 looks to our Global Chapter regions regarding their localised health issues. Representatives will be called on to provide regional perspectives and regional health innovations, addressing local issues.

The content will include research, case study and practical points of view to demonstrate how regions have responded in individualised ways.

Day 3 – Digital Industries

Streams: Digital Innovation, Digital Success, Digital Industry and Digital Benefit Realisation

Day 3 will assess how the impact of digital technology has created a huge transformation in healthcare including:

- a change in various models of care community care, acute care, mental health and clinical research
- how patients access care
- assistance in the prevention and treatment of disease

This theme is aimed at anticipating and focusing on clinical innovation and the effects of built environment so that we can be prepared for it, as we look to other industries for inspiration.

For example, the airline industry has changed dramatically due to advances in technology. This has resulted in new airport designs. We will assess who and what are the digital innovators, digital success stories from industry operators, digital benefit realisations for technology providers – or other upcoming or emerging technology providers, as well as links between technology and government.





Design & Health 13th World Congress

TIMETABLE

15th July, 2019

First Announcement & Call for papers

15th September 2019

Deadline for Abstract of papers

11th October, 2019

Authors notified of decision of papers

11th October, 2019

Preliminary Programme and Registration opens

21st October 2019

International Academy Awards open for entry

1st December, 2019

Deadline for Early Bird, Speaker Registration and Final Manuscript

February, 2020

Final Programme

14-18 April, 2020

13th World Congress

May, 2020

Selected papers to be published on Resource Library



You're Invited – WC2020 Design Competition

The competition encourages applicants to not only consider the influence of design on health and wellness (salutogenis); but also to apply the research and advance the cause through your personal work and through this project.

In inviting you to join our design competition, the International Academy for Design and Health encourages you to become empowered about creating change through designing healthy spaces and improving wellness, despite any formal requirement or legislation for you to do so.

The Topic for the Design Competition is:

How to design a healthy city that doesn't require a hospital because it is founded on wellness and preventative principles

In addressing this topic, please consider:

- We do not want you to design the entire city, just one building block or component.
- You can design individual building blocks that impact or help the people of the city.
- Your building block can be as small as an individual healthy room, all the way through to a healthy community through urban planning.

Find out more & register on our website – submissions close 31 October 2019
Submissions can be under a single name, a formal organization, or an informal group.
Submissions can be multi-disciplinary or may take a single focus.



Thank you



Mr. Antone Malone

Director of Research for the French Hospitals Federation

How integrated care impacts future health organisations





Structures, cultures, and the quest for Integrated Care

Antoine MALONE, Director of Research, FHF PhD Student ENAP

September 2019



OUTLINE

- Dimensions of integration
- Culture and values
- Integrated care in France : FHF's « Responsabilité populationnelle » project
 - General Design
 - Key concepts
 - Structural integration
 - Clinical integration
- Integrated care and the future of hospitals



Integrated care?

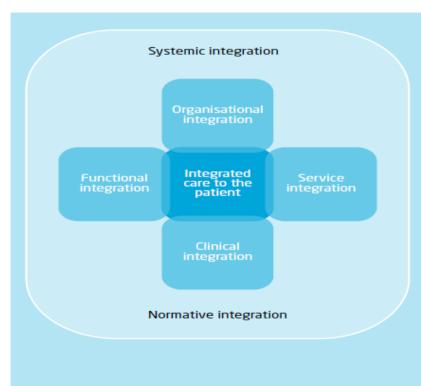
"In many health systems, integrated care is seen as a possible solution to the growing demand for improved patient experience and health outcomes of multimorbid and long-term care patients

WHO, 2016



Dimensions of integration (Curry and Ham, 2010)

Figure 1 Fulop's typologies of integrated care (from Lewis et al 2010)



- Organisational integration, where organisations are brought together formally by mergers or through 'collectives' and/or virtually through co-ordinated provider networks or via contracts between separate organisations brokered by a purchaser.
- Functional integration, where non-clinical support and back-office functions are integrated, such as electronic patient records.
- Service integration, where different clinical services provided are integrated at an organisational level, such as through teams of multidisciplinary professionals.
- Clinical integration, where care by professionals and providers to patients is integrated into a single or coherent process within and/or across professions, such as through use of shared guidelines and protocols.
- Normative integration, where an ethos of shared values and commitment to co-ordinating work enables trust and collaboration in delivering health care.
- Systemic integration, where there is coherence of rules and policies at all organisational levels. This is sometimes termed an 'integrated delivery system'.

Source: Adapted from Fulop et al (2005)

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New types of organizations



Accountable Care Organizations (USA)

Centre intégré de santé et de services sociaux



Integrated health and social services centers (Quebec, Canada)

NHS Vanguards

Bringing health and social care together around the country

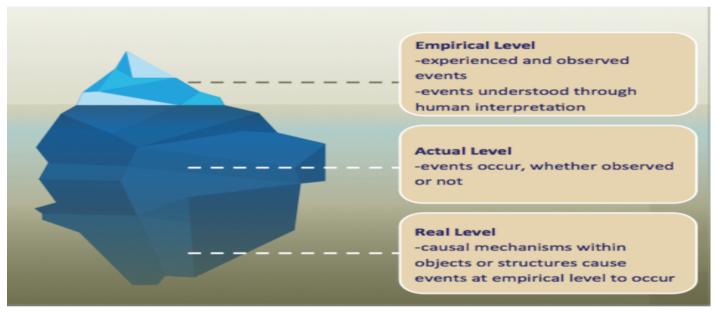
Vanguards and ACS (UK)



« Integreo », Belgium



Beneath the surface : Professional norms and culture



Source: Fletcher, 2016

Things that are hidden from plain view explain the shape of phenomena and their outcomes

Towards clinical integration in five regions

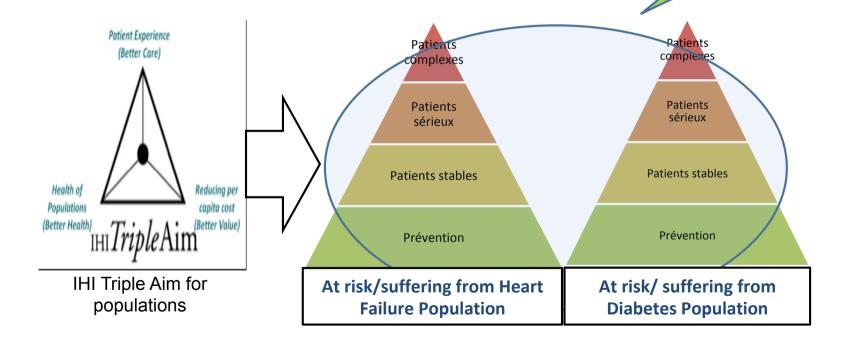
- Clinical integration as opposed to organizational integration is key in the French context
- Five volunteer Territorial hospital Groups (GHT)
- Each GHT is tasked with building an ecosystem comprising all the necessary resources and key actors to fulfil the needs of a given population -independent providers (Doctors, nurses, other health professionals), community resources, etc.
- Population between 170 000 and 400 000, a large general hospital, several smaller local hospitals, long term retirement homes, etc.
- Model primarily built on intrinsic motivation of healthcare professionals: the primary goal is to improve health of populations and care of patients
- Key concept : « Responsabilité populationnelle » : shared accountability of all towards patients and populations



The Group's architecture

- The choice to work on two common conditions allows to create a learning collaborative between 5 territories
- The method (2 common conditions, shared methodology, shared baseline clinical programs, shared indicators) allows for a robust proof of concept

2 common conditions for the five territories





The « Pionniers de la Responsabilité populationnelle » Group

Total population: **FHF** head office +-1.4 million **FHF Data** Total health **Operation** Methodologic -Cornouaille services al support al support -Aube-Sézannais spending's: +-3Md€ - Douaisis - Deux-Sèvres **Medical and** Managemen - Haute-Saône clinical t support support **IT and Data** support



« RESPONSABILITE POPULATIONNELLE »

« Responsabilité populationnelle is the idea that all healthcare providers of a given territory share an accountability towards the well-being of their populations, and the quality of care for their patients »

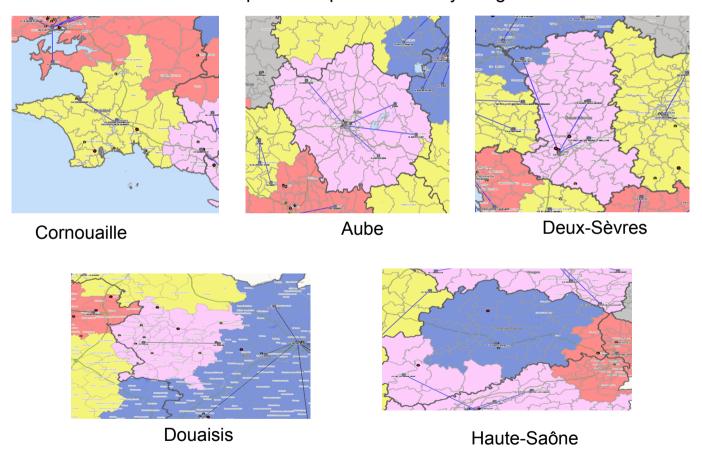
Accountability ? ACO's vs. France

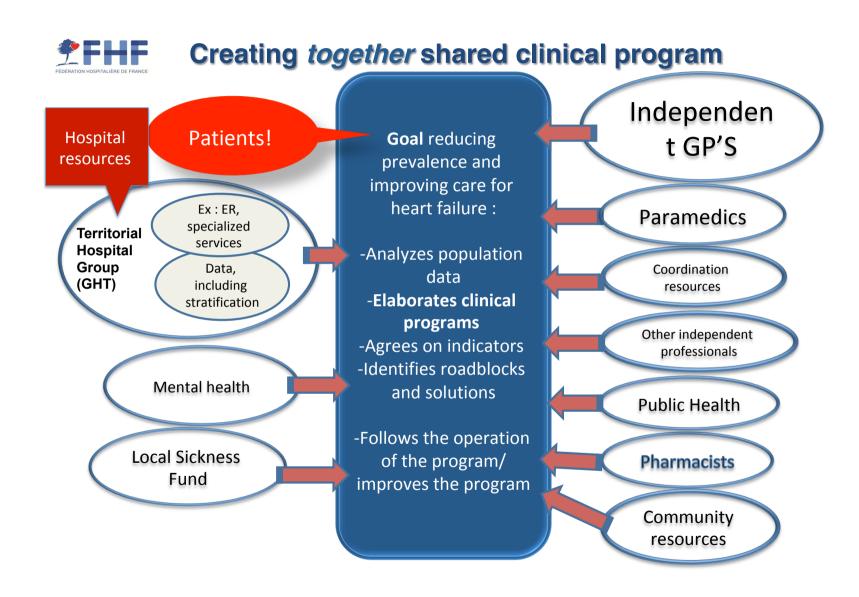
	USA	FRANCE
Target population	People contractualy linked with the ACO	Every resident of a territory
Objectives of accountability	Reduce costs, improve outcomes	Improve outcomes
Drivers of accountability	Financial incentives	Professional norms
Actualization of accountability	Through contracts	Through sharing patients and co-design of clinical programmes

f@fhf.fr . www.fhf.fr

Structural integration

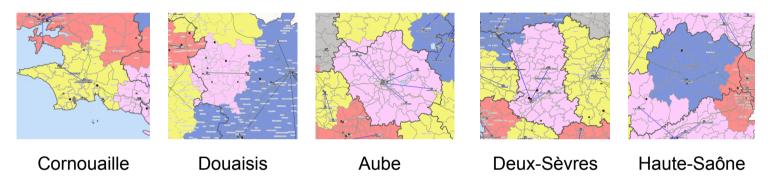
From « Territorial hospital Groups » to clinicaly integrated health networks





Creating population health data analytics in France

Using hospital data to « create » territories and populations



Number of diabetes patients found*							
10 445	11 233	14 303	15 713	7 032			
Number of heart failure patients found*							
8 303	5 355	8 241	10 386	5 033			

*Numbers at 15-01-2019

Identifying « statistical » population

Identifying « real » persons

Including real persons in clinical programs

Common baseline clinical programs

- National guidelines for diabetes and heart failure not followed by practitioners, and not practical in terms of actual work conditions
- Need to find proven guidelines for our two populations
- Need to adapt these guidelines to the French context, with expert clinicians and learned societies



Running clinical meetings

- Need for a robust methodology so that the meetings produce what is expected: shared clinical programs
- Partnership with Quebec's National Institute for Excellence in Healthcare and Social Services (INESSS)
- Training for 20 clinicians and health professionals on the « COMPAS+ » methodology: teams of four conductors per territory



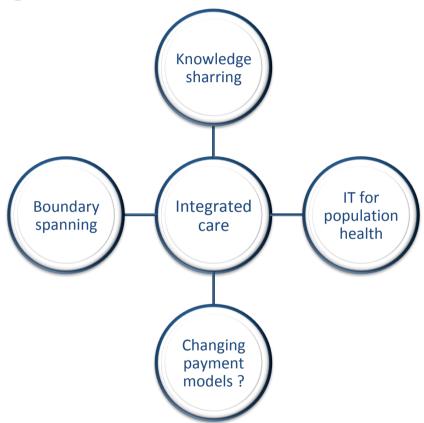








Integrated Care: changing our organizations



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THANK YOU FOR YOUR ATTENTION

WISHING YOU AN INSPIRATIONAL TOUR

SAFE TRIP BACK TO THE MEET & GREET CENTER