

Who are we?



Q1



What do we understand by Neurodiversity?

Q2



What does it Impact, what are the neuro challenges of daily living?

Q3



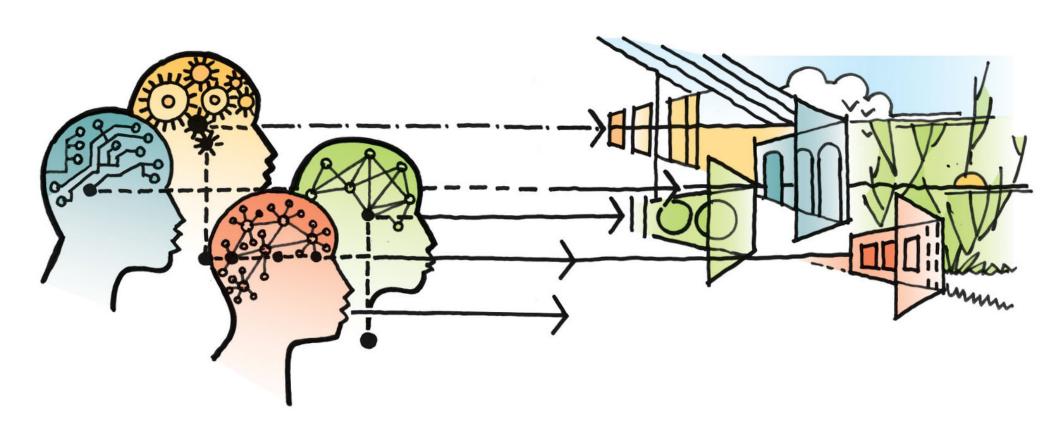
How can we design spaces to be more inclusive and how can spaces be choreographed to better promote health, wellbeing and wellness?

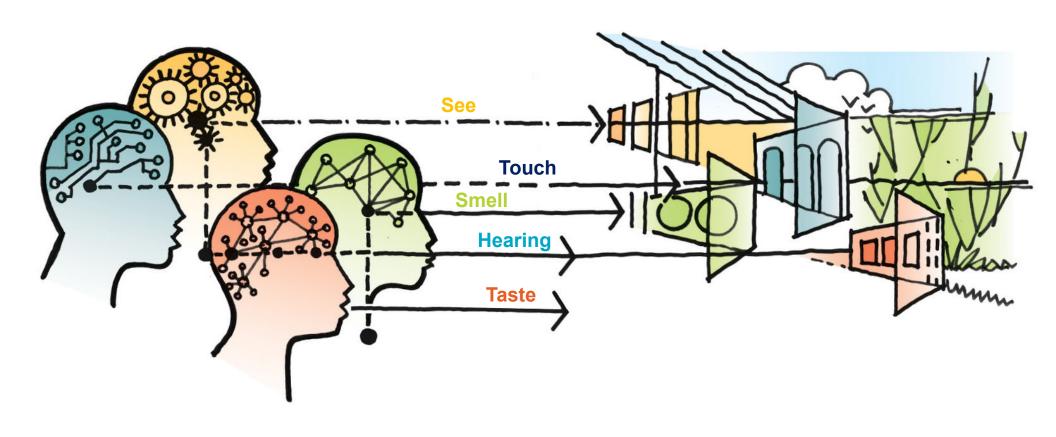
Q



What is its future Impact on design?

What do we understand by Neurodiversity?





What is Neurodiversity?

"When I was asked this question a couple of months ago, the first thing I did was engage the left hand side of my brain, which is logical, so I could try to understand the question, then I engaged the right side - which is the creative side to come up with a sketch"

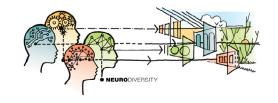


Material Source Seminar: Designing for Neurodiversity 20.10.2022



"To create this, both the left and right hand sides of my brain had to dialogue to ask: what does our neural landscape look like? *Richard Mazuch, Director of Design Research and Innovation, Arcadis IBI Group*

We are only now beginning to acknowledge neurodiverse conditions. Many older people were never diagnosed as children and / or never received appropriate services. It is estimated that around 1 in 7 people (more than 15% of people in the UK) are neurodivergent.



ADHD

Early Parkinson's

Learning Disability Dyspraxia

Conditions

Autism Spectrum Disorder

Tourette Syndrome

Dyslexia

Neuro: Think
Diversity: Different

Creativity

Accuracy Concentration

Absorb & retain Facts

Expertise Integrity

Strengths

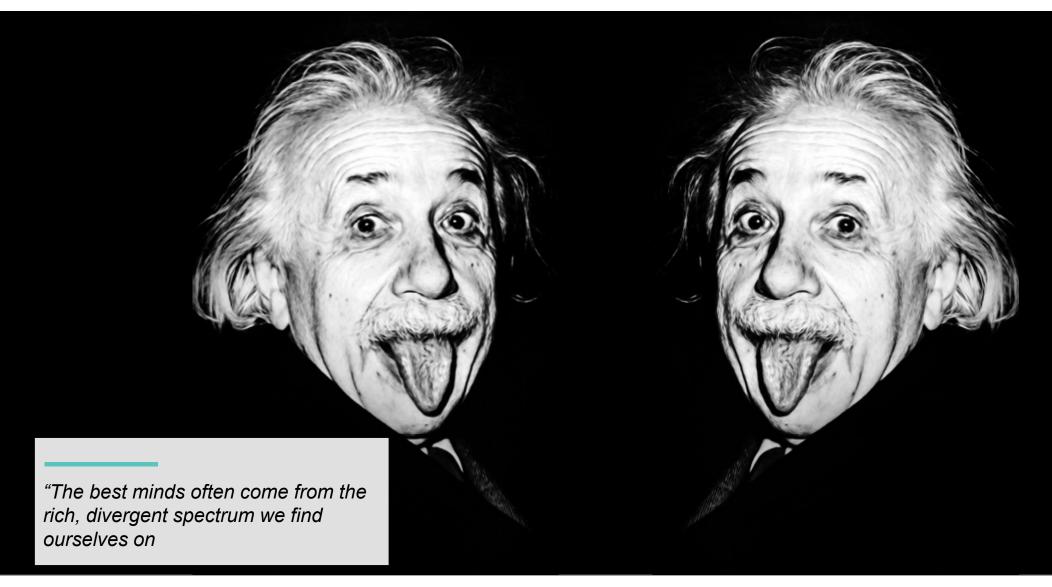
Long term memory Commitment

Attention to Detail

Thoroughness Imagination

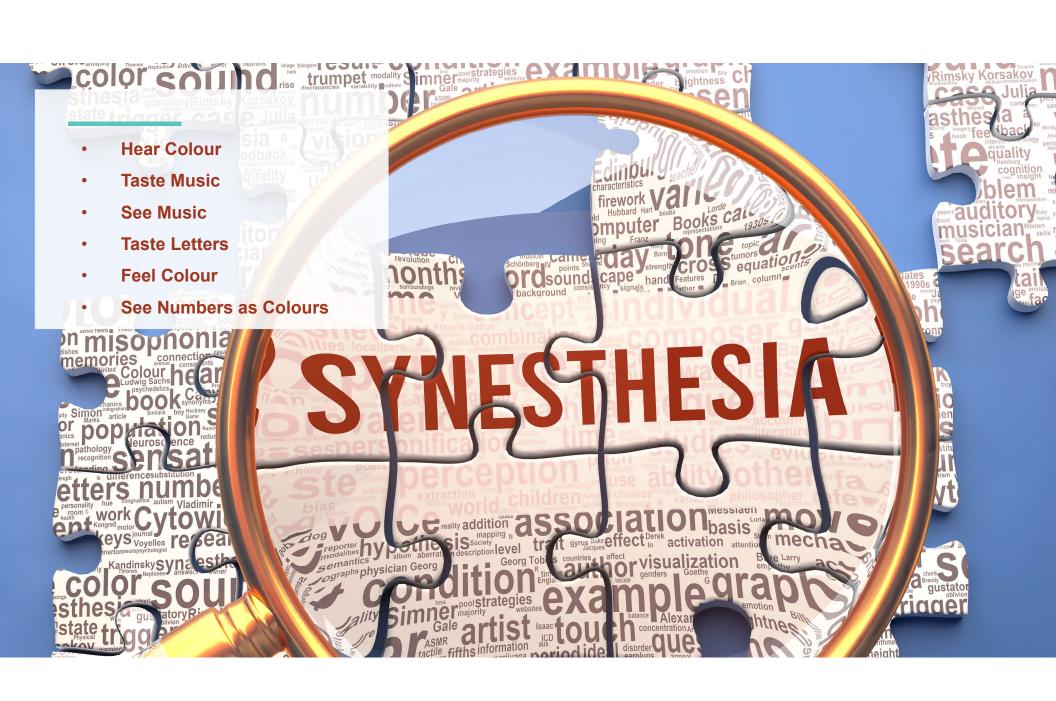
Deep Focus

Loyalty





ARCADIS IBI GROUP NEURODIVERSITY & THE SILVER SURFERS

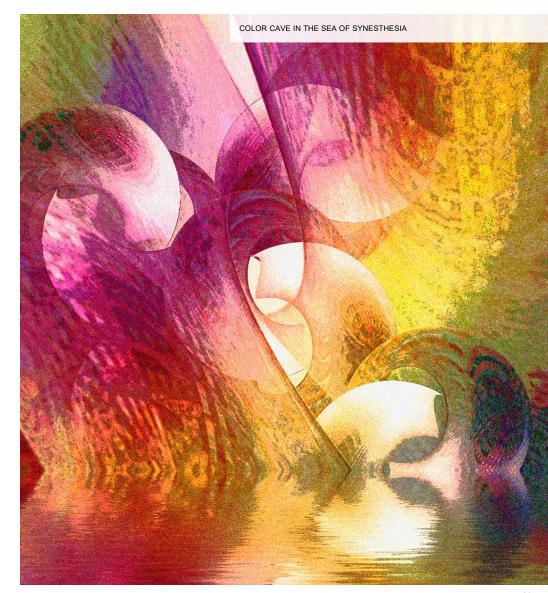


What are the neuro challenges of daily living?

What does our neural landscape look like? Do you see what I see?

We all think in different ways. Architects are often ocular centric, so everything we do is about design, pattern and aesthetics.

There are layers on top of this in terms of what I can hear, feel, smell and taste and these layers influence our experience of a space.



Sensory Scales

Understanding the impact the environment has on us.





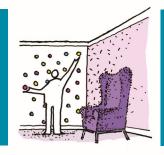
Smell Memory of smell lingers on longer than that of visual images or sounds. Floral and fruit fragrances have been proven to lower blood pressure, slow respiration, relax muscles and increase elertness.



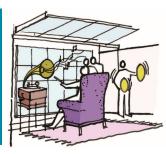










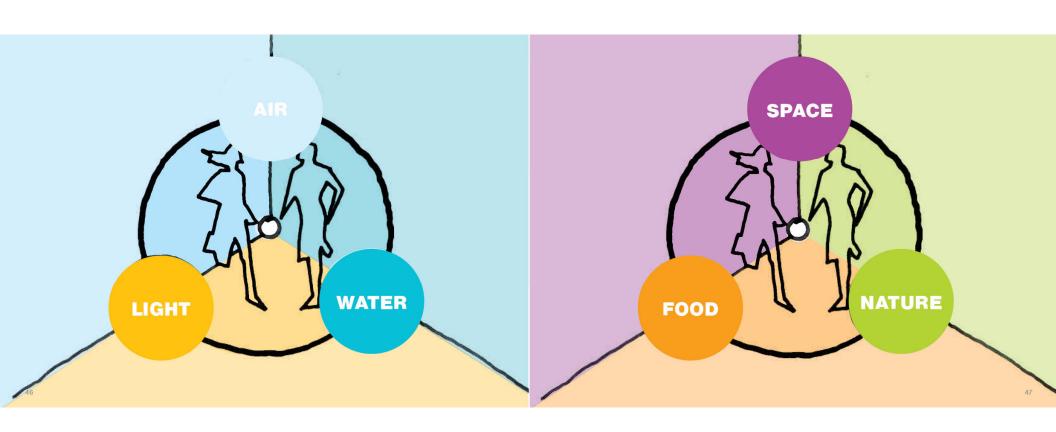




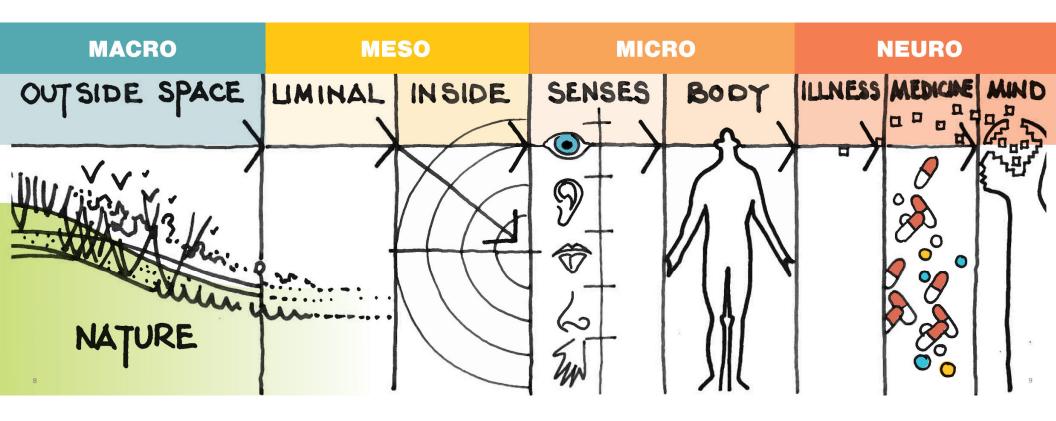


How can we design spaces to be more inclusive and how can spaces be choreographed to better promote health, wellbeing and wellness?

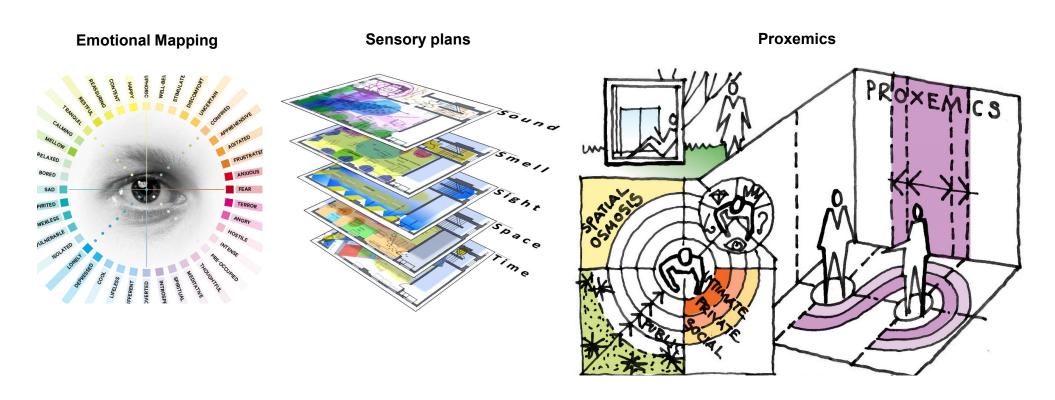
Our vital dialogue with our immediate environment.



Macro/Meso/Micro/Neuro



Sensory Design Tools



Not one solution will support everyone but there are fundamental decisions that we should be making that we can all benefit from

- · Create a sense of belonging
- Support memory
- Give information
- Help orientation
- Offer variety & choice
- · Opportunities for personalisation
- · Develop inside outside dialogue
- Provide personal & social spaces
- Supportive technologies
- · Build in flexibility adaptability
- · Decrease clutter



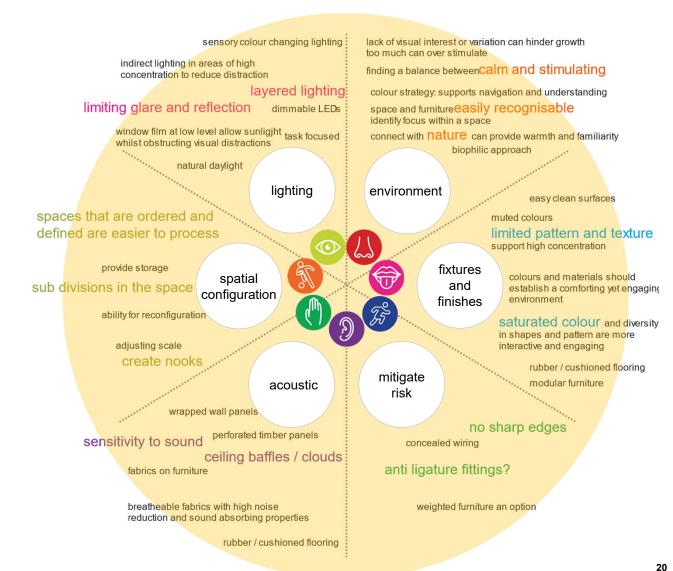








Curating the optimum environments



Impact of Art

The creative use of materials and artwork can inspire wellbeing, be uplifting, stimulating and inspirational. Design is integrated into the building elements resulting in spaces which offer a care environment that can encourage, enrich and empower, residents, families, staff & communities.





What is its future Impact on design?

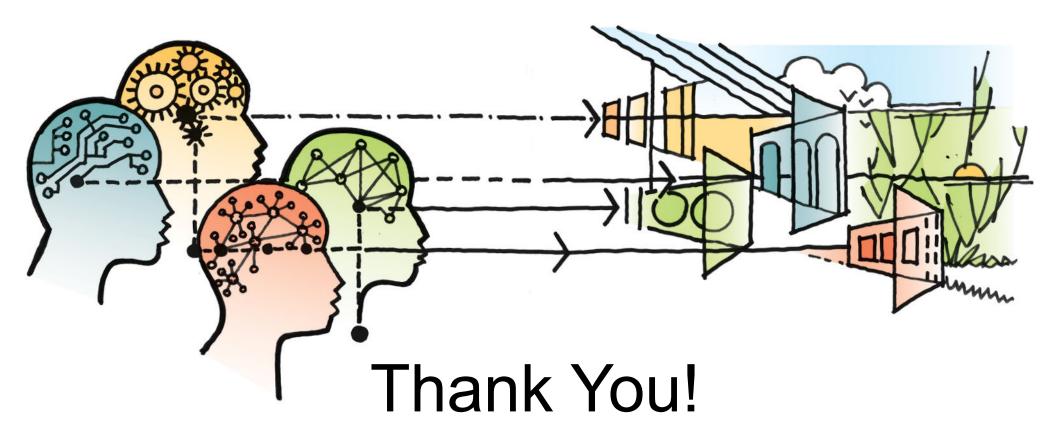
- Embrace the differences and learn from them
- Create inclusive spaces which celebrate neurodiversity and support everyone's health and wellbeing
- Adaptability and flexibility are key
- Wearable technologies VR Metaverse, choreographing your own environment
- Create natural environments

"For every £1 that is spent at the design concept stage, if you then have to make adaptions at the user and occupancy stage, it will cost £10,000"

Kate Field, Global Head Health, Safety and Well-being, BSI Group







richard.mazuch@ibigroup.com lynn.lindley@ibigroup.com

