

Neurodiversity/Accessibility in Design

A Case Study

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Our Panel



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Speaker Bios

Overview

- 01 What is neurodiversity?
- 02 Why does it matter?
- 03 Why does it impact federal spaces?
- 04 What do design solutions look like?

Questions and Answers





What is Neurodiversity?

Everyone's brain function differently, hence we are all neurodiverse.

While the functioning of neurotypical individuals falls within set norms, neurodivergents, or neurominorities, fall outside of those parameters.

- Autism Spectrum Disorder (ASD)
- Attention Deficit Hyperactivity Disorder (ADHD)
- Dyslexia
- Dyspraxia
- Dyscalculia
- Dysgraphia
- Tourette's Syndrome



Neurodiversity

Sensory Thresholds

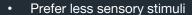


HYPERSENSITIVE

NEUROTYPICAL



HYPOSENSITIVE



- Organic, simple patterns
- Light, neutral colors
- Clean, orderly spaces
- Little to no background noise
- Personal space boundaries

- Prefer more sensory stimuli
- Layering of textures and planes
- Saturated, contrasting colors
- Plenty of visual interest
- Background chatter and/or music
- Space to move/fidget





Why is it important? Why does it matter?

Studies show that neurodiverse teams are 30% more productive than neurotypical ones and made fewer errors

Benefits of Neurodiverse Teams

- Highly innovative, proactive, and creative problem solvers
- Ability for prolonged concentration or hyperfocus
- Pattern recognition and error detection skills
- Strong recall of information and detailed factual knowledge
- Ability to excel at work that is routine or repetitive in nature
- GSA commitment to include underserved communities



Why does it impact federal workspaces?

Sensory Distractions

(sounds, smells, visual clutter)

Cognitive Distractions

(loss of focus, discomfort)

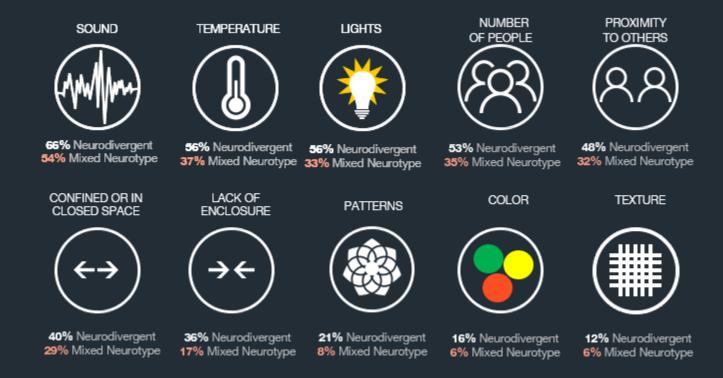
Loss of Engagement and Productivity

(presenteeism, poor recall, stress, burnout, dissatisfaction)



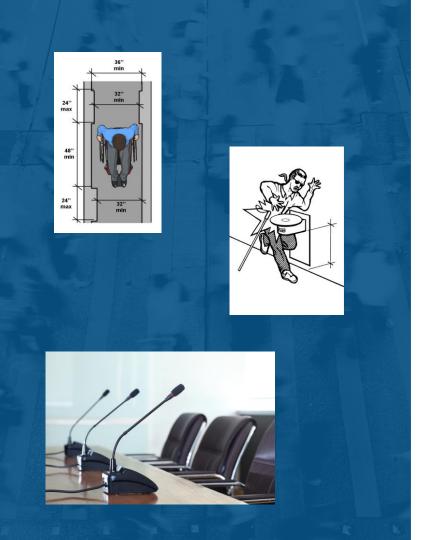
Challenges

Design elements you find **challenging** in environments?





What do design solutions look like?



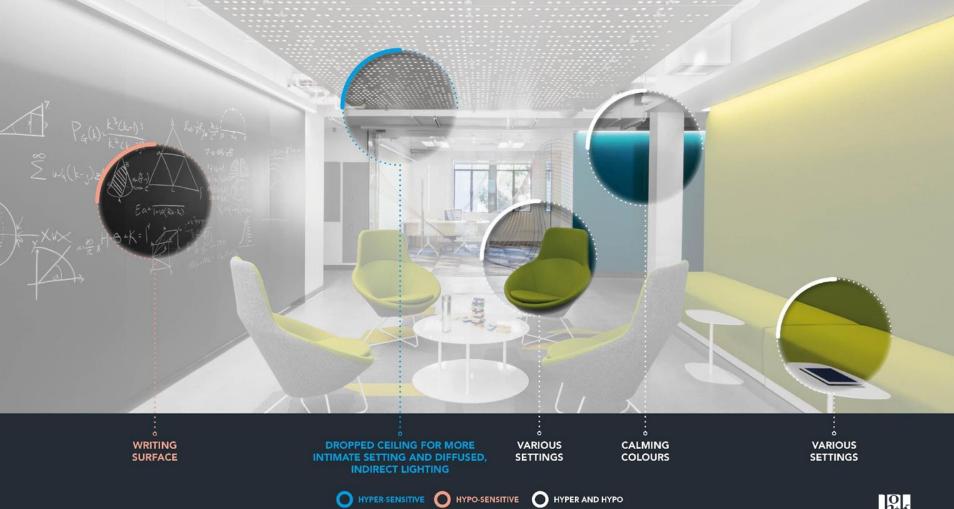
GSA/ABA Typical Accommodations

- Mobility
- Hearing
- Vision

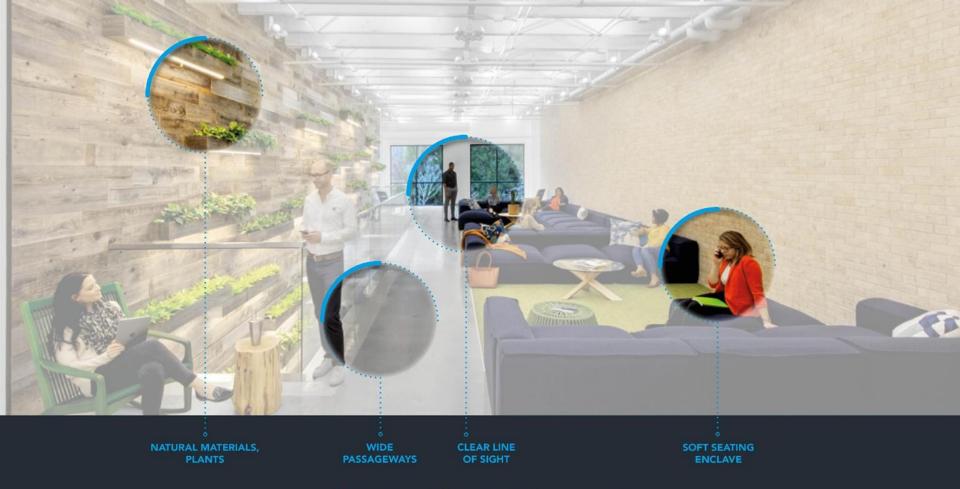


GSA Reasonable Accommodation

- Case Specific
- Process Based
- Real Time Review/Response



















ENHANCED GRAPHICS, WAYFINDING **CASUAL SEATING** AREAS FOR COMFORT

ACCESS TO NATURAL DAYLIGHT + OUTDOOR SPACE











Q&A



Neuro-inclusion Research



https://www.hok.com/ideas /publications/hokdesigning-a-neurodiverseworkplace/



https://www.hok.com/ideas/ publications/trendsaffecting-neurodiversitytoward-2030/



https://www.workdesign.co m/2019/12/designing-forneurodiversity-andinclusion/



https://www.youtube.com/ watch?v=KoGdEqZIn8M



https://www.hok.com/ideas /publications/designingfor-neurodiversity-inpediatric-healthcarespaces



http://tarkett-8435814.hssites.com/neurodiversity-1



http://www.hokforward.com/read/inclusive-designfor-complex-buildings/



https://www.youtube.com/watch? v=Gy9EZNGPwT0&t=6s



Additional References



Kay Sargent, <u>HOK</u>: *The Future of the Workplace Is Neuroflexible* https://schedule.sxsw.com/2024/events/PP146060

Kelsey Sullivan, RSP:

The Gen Z Vibe is Making Work Better for Everyone

<u> https://www.workdesign.com/2022/08/the-gen-z-vibe-is-making-work-better-for-everyone/</u>

Neurodiversity in the Workplace is Redefining How Companies Operate
 https://rsparch.com/insight/neurodiversity-in-the-workplace-is-redefining-how-companies-operate/

Intelligence After Next:
Enabling Neurodiverse Talent in the Intelligence Community

https://www.mitre.org/news-insights/publication/intelligence-after-next-enabling-neurodiverse-talent-intelligence