Neuroscience-Backed Event Design

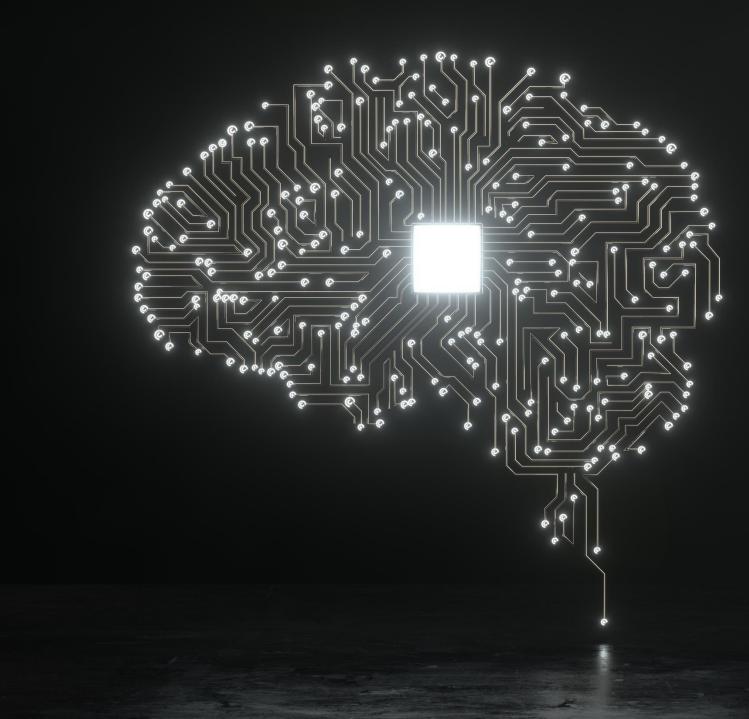
Strategies to Engage & Inspire Attendees

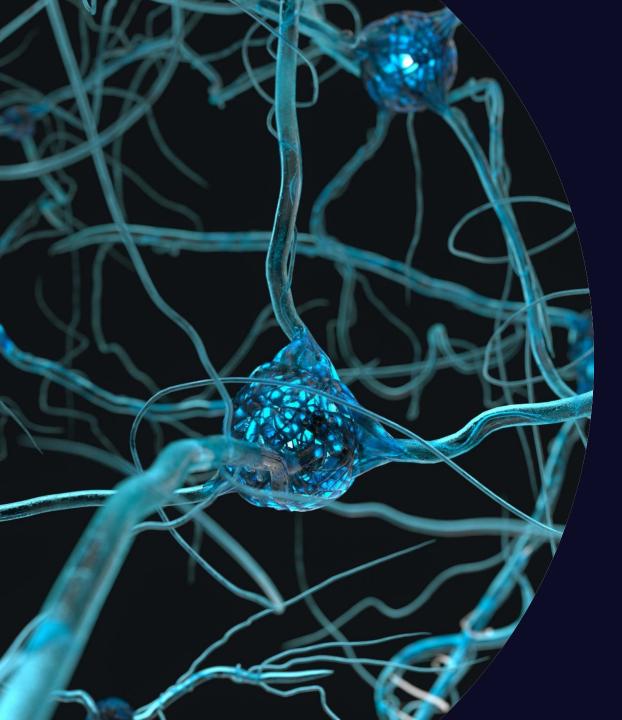
What type of meetings or events is this for?



Who Are You Designing For?

Let's Talk About the Brain...





The brain is made of up neurons...

... 86 Billion of them

Parietal Lobe

Engagement

 Processes sensory input, helping attendees stay engaged with multisensory experiences.

Basil Ganglia

Engagement

 Associated with habit formation and reward processing, encouraging continued engagement

Hippocampus 🔸

Memory

- Responsible for forming and storing new memories
- Plays a critical role in spatial navigation and learning

Prefrontal Cortex

Memory

- Involved in working memory and decision-making
- Helps integrate new information with prior knowledge for better recall

Engagement

- Governs focus, attention and executive functions
- Engages when solving problems or participating in interactive activities

Nucleus Accumbens

Emotion

 Part of the brain's reward system, releases dopamine in response to positive experiences and novelty.

Amygdala

Emotion

 Activates during emotionally charged or impactful experiences Why Neuroscience Belongs in **Meetings & Events**

Your BRAIN deserves BETTER EVENTS







How Can We Engage the Brain During Events?

Six Cognitive Cornerstones





Attention Systems

Use NOVELTY to CAPTURE your attendee's FOCUS

The Biology of Attention

Your brain lights up when something new appears



Why Attention Fades

Brain circuits tire after 10-15 minutes of nonstop input



Use PATTERN INTERRUPTS to RECAPTURE your attendee's ATTENTION



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Conference Keynote:

At minute 7, drop in a 30-second live word-cloud poll to reset focus

Museum or Site Tour

Halfway through, unveil an unplanned "secret exhibit" room, announced by tour guide to jolt curiosity

Esports Tournament

Between matches, cue a 60second crowd "cheer challenge" on the big screen



Memory Formation

Use CUES to ANCHOR your attendee's MEMORIES

The Biology of Memory

Your brain stores and recalls the moments that matter



Why Memories Matter

Without strong retrieval cues, most insights vanish fast.



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Guide Tour

Give each guest a card to stamp at key stops. (e.g. five landmark exhibits

Product Launch Expo Booth

Scan-to-unlock and AR overlay showcasing your product's top three features providing interactive reinforcement for long-term recall

Sales Kick-Off Meeting

Send a 5-question micro-quiz via email 24 hours post event. Top scorers earn a spotlight in the next all-hands newsletter



Multisensory Activation

Use SENSES to AMPLIFY your attendee's EXPERIENCE

The Neuroscience of Senses

When you combine two or more senses, memories stick



Why Multisensory Works

Pairing senses deepens emotional impact and retention





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Gala Dinner

Diffuse a signature event fragrance during the welcome toast, paired with a matching ambient piano piece

Workshop

Move part of your session outdoors! Do small group sessions or brainstorming outside

Health & Well-Being Session

Guide a 60-second breathing exercise with a lavender mist spritz and soft chime to anchor calm and focus



Time to Recharge!

Pause.

Breathe.

Reset Your Focus.



Psychological Safety

Use SAFETY to UNLOCK your attendee's CURIOSITY

The Chemistry of Safety

Feeling safe unlocks your brain's creative power



Why Safety Matters

Fear stalls learning; Safety unlocks exploration



Neuro-Event Design Tip

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Facilitated Workshop

Start with an anonymous digital whiteboard where everyone posts one "wild idea" – no names attached

Team Retreat

Co-create a "Safety Charter" on large poster paper, letting every participant write a rule they value.

Gamers' Charity Event

Introduce a station where players deliberately try silly challenges (e.g. one-handed controllers) to win prizes while celebrating mistakes

Social & Emotional Bonds

Use CONNECTION to FOSTER your attendee's TRUST

The Brain's Social Circuits

We bond by mirroring and sharing emotions and experiences



Why Bonds Matter

Shared emotion drives engagement and lasting collaboration



Neuro-Event Design Tip

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Executive Round Table

Begin with a "Show & Tell" of an object that represents why each leader attends, fostering empathy

Networking Reception

Use color-coded lanyards matching attendee interests to spark instant connections

User-Group Meeting

Host a live "Collaborative Canvas" where each attendee paints part of a shared mural

Manage Cognitive Load

Use CHUNKING to PRESERVE your attendee's ENERGY

Limits of Working Memory

Our focus has a built-in timer that needs breaks.



Why Load Matters

Too much information without breaks leads to overload.



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Town Hall

Break presentation into 8-minute segments, followed by 2-minute "stand & stretch" video

Product Demo Roadshow

After two demo stations, pause for a one-question group reflection (What surprise you the most?) before moving on.

Leadership Hackathon

Schedule three 45-minute sprints, each capped with a 5-minute "desk-off" break where teams share one quick insight



Use TECHNOLOGY to ENHANCE your attendee's EXPERIENCE

Types of Tech

Polling Chatbots

Live Q&A Social Walls

Event Apps Gamification

AI Matchmaking Live Feeds

Live Translation / Closed Captioning



Sentiment Analysis

Use AI-driven tools to gauge emotional reactions.

Perform A/B tests to examine the effectiveness of different activations and content to see what works and why.

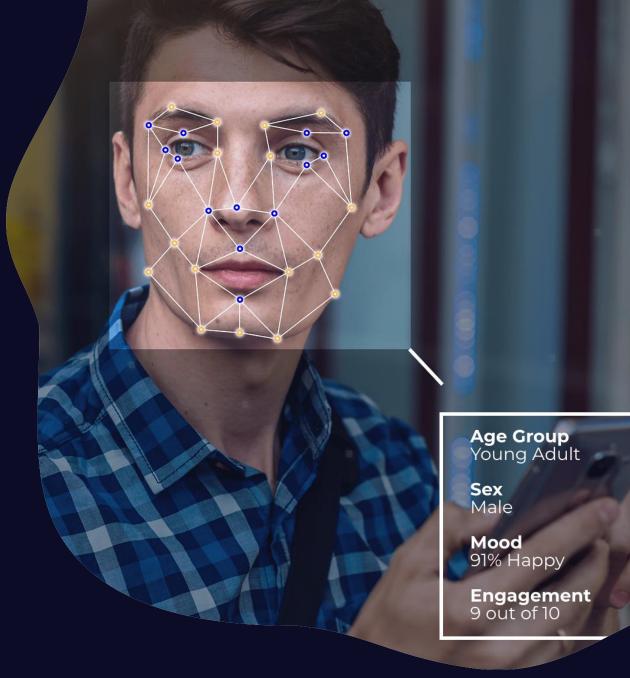


Image courtesy of Zenus

PROJECTION MAPPING

Turn any space into a Canvas for Storytelling

AR / VR

Product Launches: Showcase 3D models attendees can explore

Virtual Tours: Let attendees "walk through" an upcoming event destination or venue.

Interactive Storytelling: Allow attendees to explore a brand's history or journey in a virtual environment.

Inclusivity Tip: Provide clear instructions for first-time users and consider alternative formats for those who may experience VR discomfort.



A

Use AI to plan more engaging events.

Prompt for design



Your Brain-Friendly Action Plan

1. Insert one pattern interrupt in your next agenda

2. Pair a key idea with a retrieval cue

3. Co-create a psychologicalsafety rule with your team





Your BRAIN deserves BETTER EVENTS

... and so do your ATTENDEES



Questions? Want to Connect?



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