NEUROTECHX

Unlock the potential of the brain

The Brain is at the Center of Everything
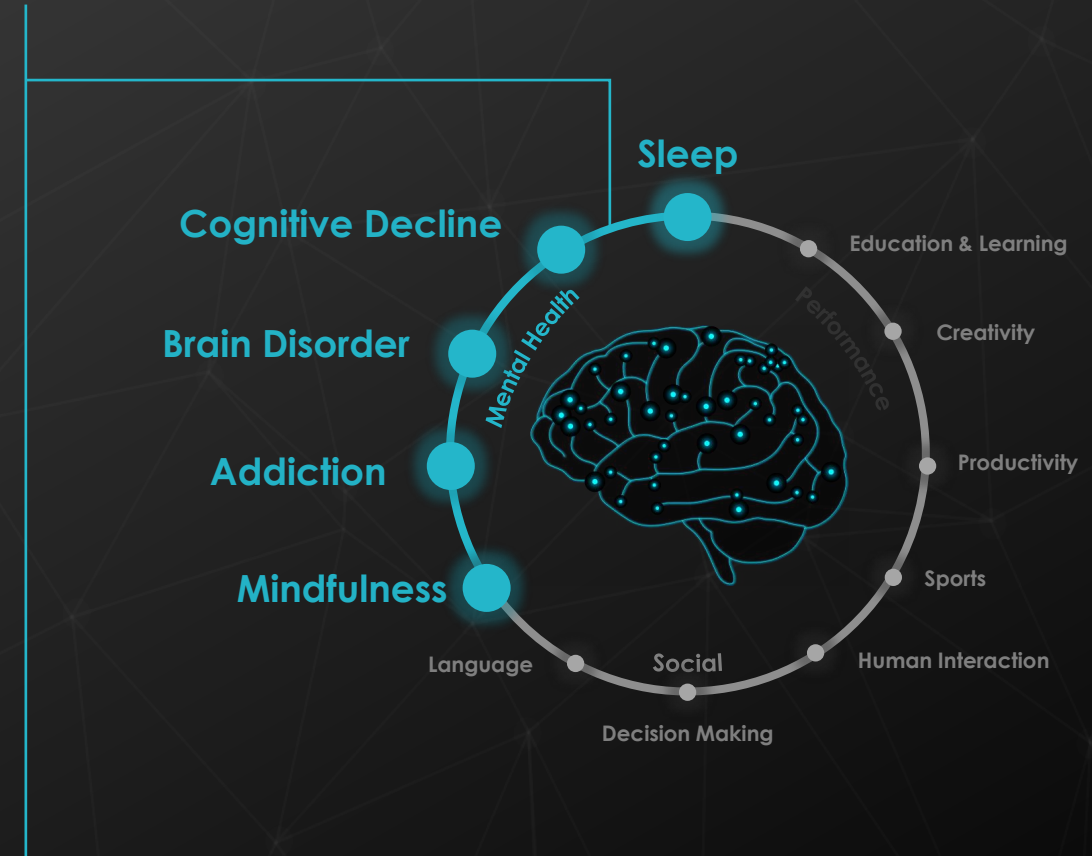

Sleep

Education & Learning

Cognitive Decline

Creativity

Mental Health

Performance

Brain Disorder

Productivity

Addiction

Sports

Mindfulness

Human Interaction

Social

Language

Decision Making
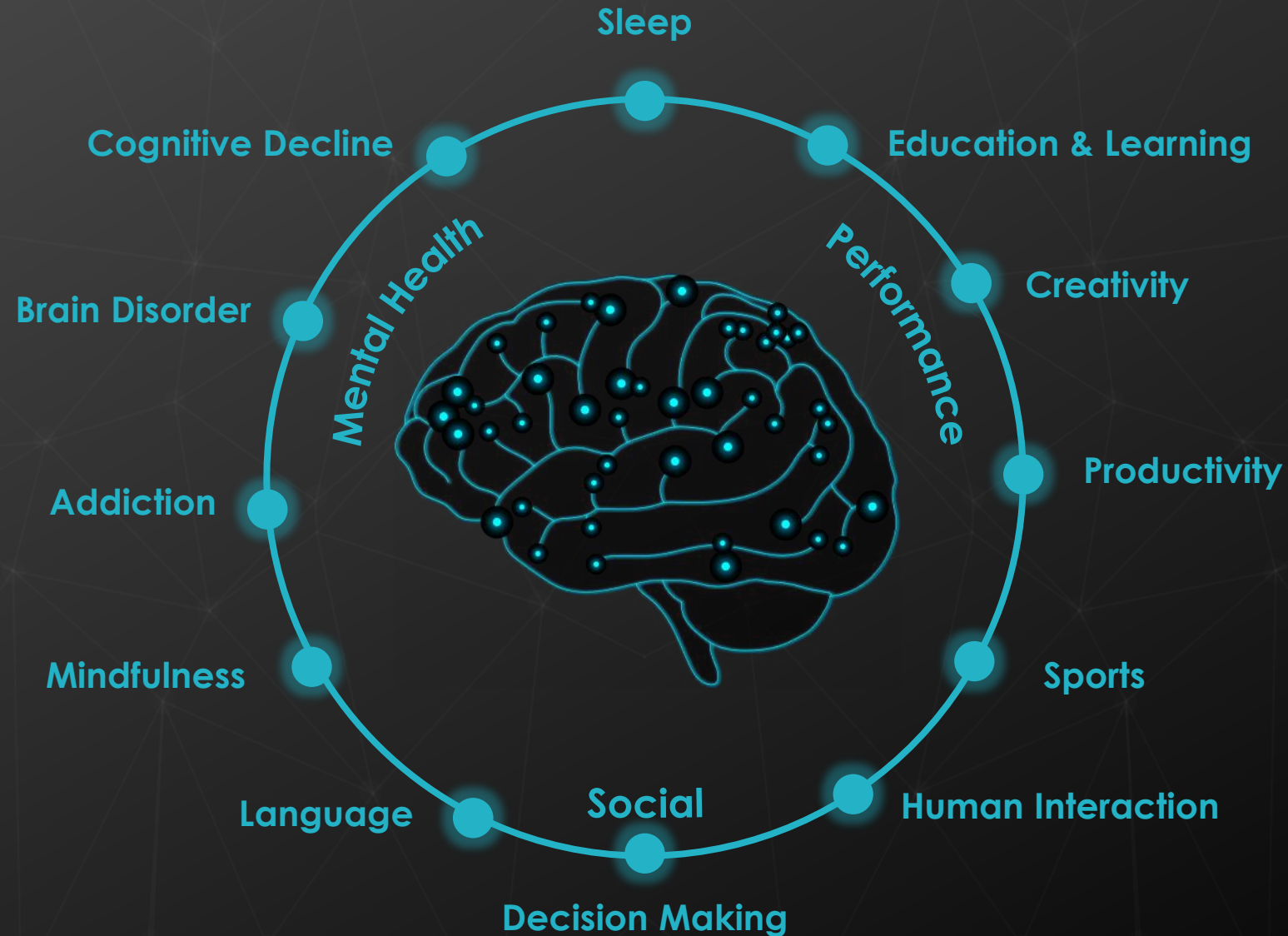
What is Neurotechnology?

Neurotechnology represents any technology in relation to the nervous system and the brain

Mental Health – Some Applications

- **Prevention, Treatment and Cures for neurological disorders:** Usage of **digital therapeutics** and other technological approaches enabling **targeted, controlled and personalized treatments** for conditions such as depression, anxiety, schizophrenia, and autism

- **Prosthetics:** Next generation prosthetics **controlled by thoughts**

- **Brain imaging and stimulation:** State-of-the-art **approaches** and **techniques** to **better understand** the brain and its intricacies

- **Sleep:** Solutions aimed at improving **sleep quality**, as well as **cognitive functions**, and overall health

- **Mindfulness:** Devices facilitating **mindfulness, relaxation and meditation**

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Performance – Some Applications

- **Improved focus:** Solutions allowing for focus and concentration improvement (e.g., professionals, pilots, students, military personnel)

- **Personalized learning:** Tailored teaching methods and tools designed **based on each individual**'s optimal learning approach and abilities

- **Cognitive and memory enhancement:** Various tools and approaches used to enhance cognitive abilities such as **brain processing speed** and **memory**

- **Marketing: Measuring people's emotions** (e.g., arousal/valence) by **leveraging neurotechnology devices** in multiple contexts (e.g., testing ads, videos, and other experiences)

- **Recruiting:** Tools allowing an **understanding** of candidates' **reactions, preferences, and emotions** beyond external behaviours
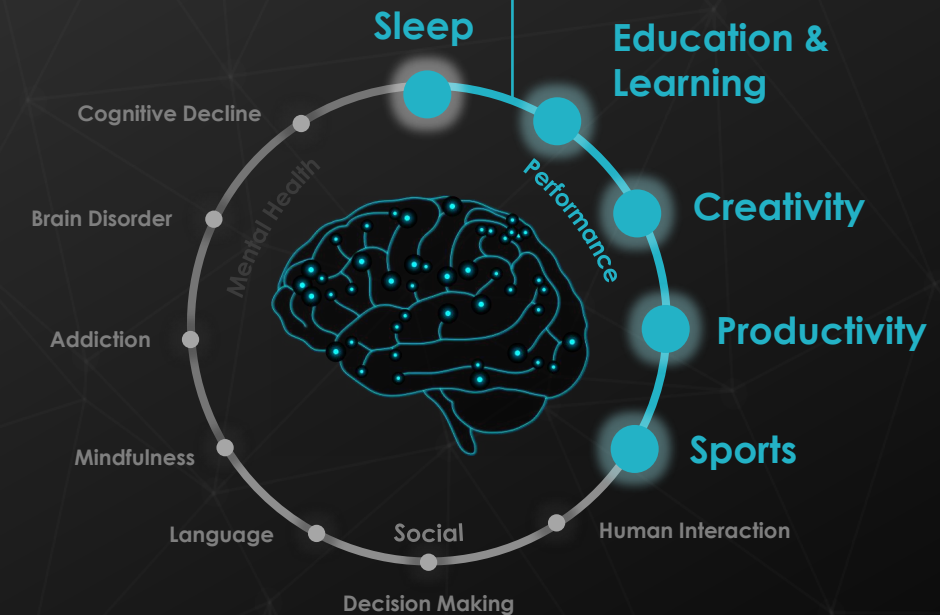
Social – Some Applications

- **Brain-led online interactions: Thought driven** web searches and online communications

- **Communication: Assistive technology** allowing **disabled people** to communicate with other people and/or their surroundings

- **Choose your own adventure:** Customized TV or movie viewing experiences based on brain activity

- **Video games: Brain controlled** experiences mixed with VR, AR, and other technologies

- **Social Matchmaking:** Improved online social matchmaking experience based on user brain activity and emotions
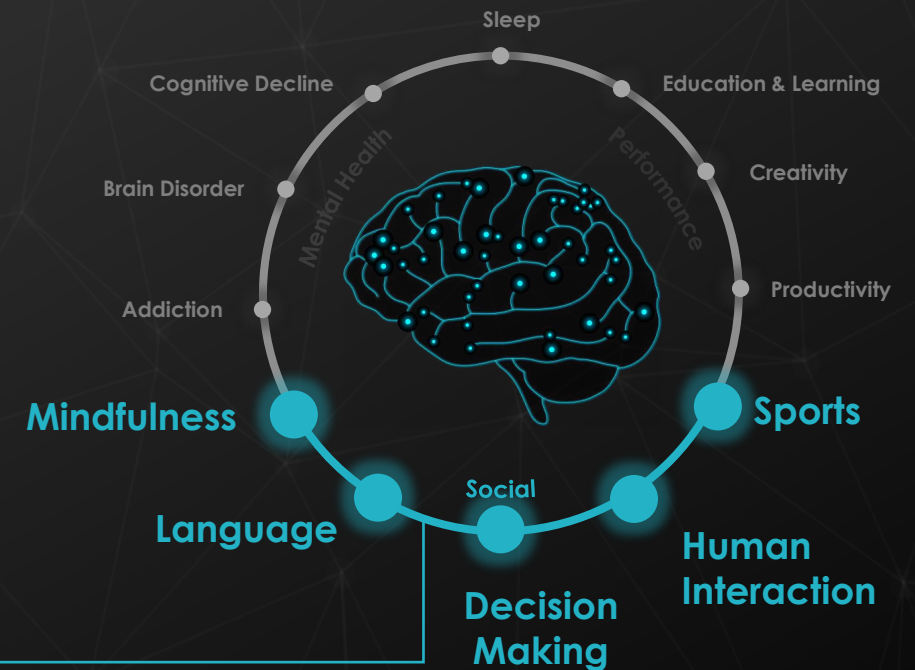
The field started growing with Government initiatives...

US & EU as pioneers in Neurotech Programs
- US: BRAIN Initiative
- EU: Human Brain Project

- **Japan's Brain/MINDS Project** (major Neurotech Program)
- **Brainnovations** (second Neurotech accelerator)

2013

2015

2014

2016

NeuroLaunch,
The 1st Neurotech Accelerator sees the day

3 (new) major Government Neurotech Programs
- **China** Brain Project
- **Australian** Brain Alliance
- **Korea** Brain Project

...Tech players joined the party, and collaborations are made

Tech's major players join the party

- **Elon Musk** creates **Neuralink**
- **Facebook** announces the development of brain-computer interfaces allowing **thoughts to text**
- **ARM** announces the development of **brain chips** to help people with brain and spinal injuries

Major announcements in the field are catching the public's attention

- **Facebook acquire CTRL-Labs** (~ $500M to $1B Valuation)
- Several **Brain Stimulation devices** are getting **FDA approvals**
- **Digital Therapeutics** are **gathering interest** (namely from major pharmaceutical companies)

2017

2019

2018

Individual initiatives prosper while collaborations arise

- **International Brain Initiative**'s 1st Meeting
- **DARPA** announces their N3 Program to **enhance humans** (beyond disabled people)
- **Microsoft** (also) announces that they will develop **brain chips** to be implanted for **disabled people**

The field has been evolving at a very rapid pace since 2020!

NEUROTECHX

NeuroTechX ("NTX")

Who we are

We are a **global community of 18K+ individuals** inspired by the untapped potential of the human brain. **We meet, share, create, and innovate** in order to push the field of neurotechnology forward.

Mission statement

NeuroTechX ("NTX") is a **non-profit organization** whose mission is to facilitate the **advancement of neurotechnology** *("neurotech")* by **providing key resources and learning opportunities**, and by being leaders in local and worldwide technological initiatives. Our **3 pillars** are *Community, Education, and Innovation*.

Our history

Founded by a **multidisciplinary group of individuals with a passion for neurotechnology**, NTX came to life in **2015** in order to create an **inclusive platform** for neurotechnology enthusiasts.

Our community has empowered NTX members through **skill development**, **experiments**, and occasions to **meet like-minded** individuals, resulting in **many success stories** across **Startups**, **Labs** and **Corporations**.

NTX Factsheet

30+ Chapters and **30+ Student Clubs**

450+ events organized **across the globe** (~ *1000 events including Hack Nights*)

18,000+ members across platforms

75+ Volunteers

Educational multimedia platform providing resources for all levels

Hundreds of NeuroTech **opportunities** featured on an **ongoing basis** on our **Job Board**

Ongoing presence as Key Speakers for International Organizations/Events
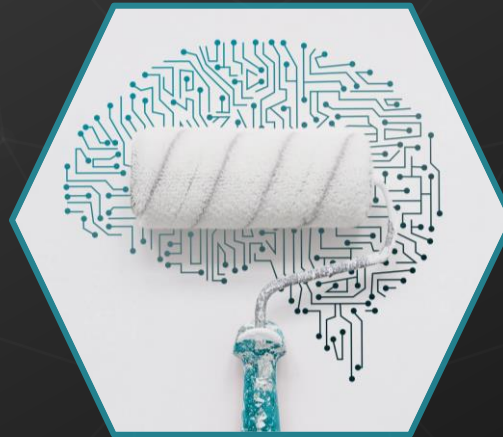
NTX – Our 3 Pillars

We seek to facilitate the advancement of neurotechnology through our 3 pillars

Community

Brain technology needs a **diverse** and **dynamic** community of experts, entrepreneurs and enthusiasts. NTX is the **connector**.

Education

NTX offers **accessible resources** and **learning** opportunities for all levels: **beginners to experts** and everyone in between.

Innovation

NTX fosters a culture of **innovation** through its **initiatives and projects**, empowering members to **address today's challenges and opportunities** with creativity and confidence.

Community

- **Chapters:** NTX is proud to support our **30+ local chapters in international cities** such as **Montreal, Toronto, NYC, SF, London, Paris**, etc. Chapters host **events, workshops** and other **community activities**, leading to **many success stories** including **startup creations** and several **partnerships across Industry** (Corporations & Startups), **Investors, and Academia**.

- **Student Clubs ("SCs"):** NTX has always worked closely with the academic community and currently supports **20+ Undergrad SCs** across **several countries**. SCs are **enabling students to explore neurotechnology** by working on stimulating projects and developing **skills leading to research positions, jobs and startup opportunities**.

- **Connectivity:** NTX manages an **active and engaged online community comprising ~7k profiles** spanning **100+ countries**, leading to many **international projects among members**.

**NTX manages an active and engaged community from all over the world.
Many of our members are already and/or will be the future leaders of the neurotechnology sector.**

Community – Some of our past events

- **Global events:**

  - **Buzz in Review** flagship 'year-in-review' annual event series – **2020**, **2021**

  - **BCI_101** global online series – **2020**

  - **NeuroTechGaming** global online series – **2020**

- **Chapter Workshops/Hackathons:**

  - **NeuroTech Entrepreneurship Series** by NeuroTechMTL (**Montreal**) – **2019**

  - **NeuroTech Hackathon** by NeuroTechHA (**Hamilton, Canada**) – **2018**

- **Chapter Meetups:**

  - **NTX Showcase series** by NeuroTechX & NeuroTechTO (**Toronto**) – **2021 seasons 1**, **2**

  - **NeuroTechDesign series** by NeuroTechBCN (**Barcelona**) – **2020**

  - **Tech for Good event with We Are Wearables** by NeuroTechTO (**Toronto**) – **2017**

NeuroTechX has supported over 450 local and global events for neurotech enthusiasts around the world.
Some of our Chapters also host weekly Hack night events, leading to a total impact of ~ 1,000 events (and counting)!
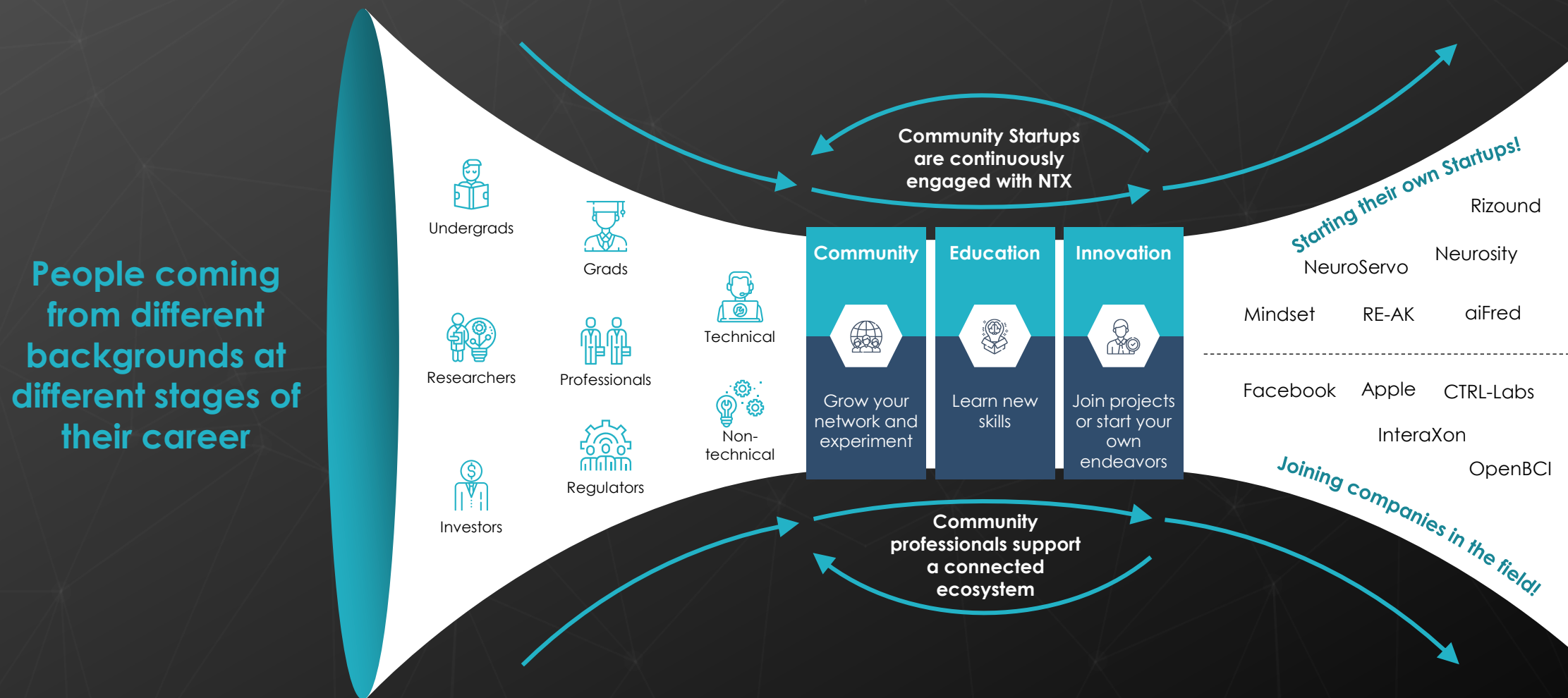
Education

- **EDU: Online educational platform** about everything neurotech, allowing neuroscientists, engineers, and other professionals to build a common understanding of the field - **Food for the brain**

- **Book:** Our **Neurotech 101 Book** - Accessible for people which are **new to the field**, but also a **key resource for neurotech experts** wanting to refine and complement their understanding of the field

- **Webinars:** Live streamed and recorded featuring **special guests and audience engagement** on a variety of key topics

- **Blog:** Covering **science, projects, products, events, and industry news** from the neurotech world

- **Workshops: Interactive activities** allowing participants to **engage and experiment** with neurotech hardware, software and datasets - **Adapted to please different crowds**

- **Newsletter:** Monthly email keeping our community up-to-date with the **latest neurotech news and activities**
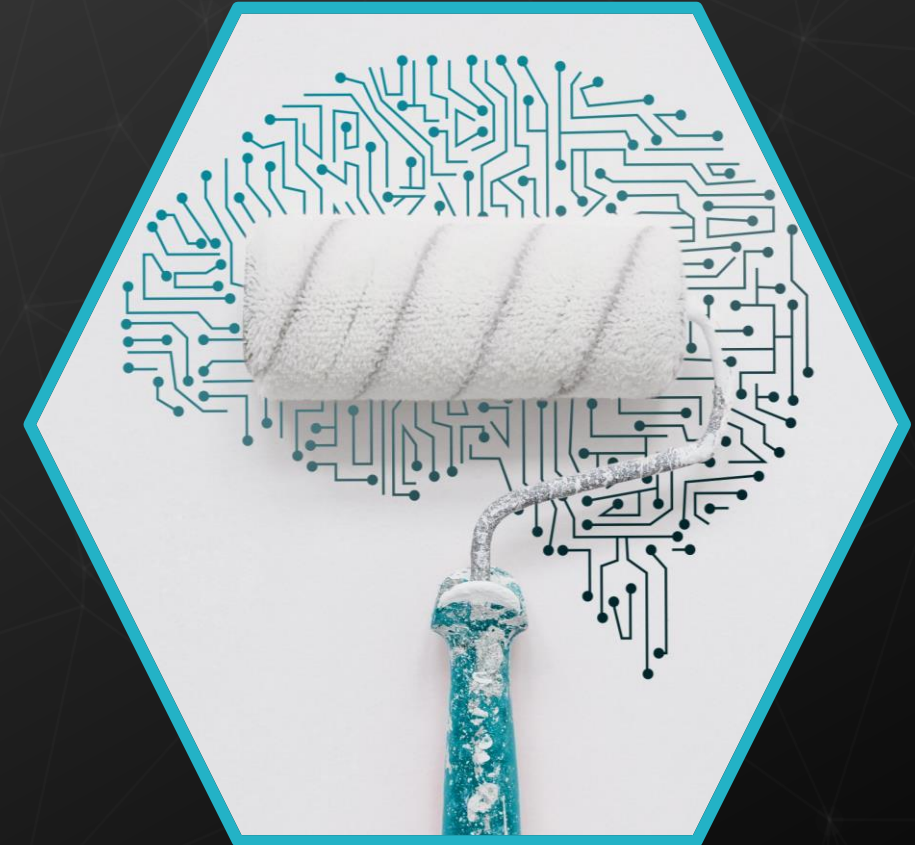
Cover of our upcoming NeuroTech 101 Book

We are engaged in creating and driving more knowledge and learning opportunities about everything neurotech.
It is essential that we support a greater understanding of this technology which will have a huge impact on our daily lives!

Innovation – Driving impact through the NTX Funnel

People coming from different backgrounds at different stages of their career

Undergrads
Grads
Researchers
Professionals
Technical
Non-technical
Regulators
Investors

Community Startups are continuously engaged with NTX

Community — Grow your network and experiment

Education — Learn new skills

Innovation — Join projects or start your own endeavors

Community professionals support a connected ecosystem

Starting their own Startups!

Rizound
NeuroServo
Neurosity
Mindset
RE-AK
aiFred

Facebook
Apple
CTRL-Labs
InteraXon
OpenBCI

Joining companies in the field!

# NTX impacting people's lives (1/2)

TESTIMONIALS

NeuroTechX introduced me to a community of **mentors, collaborators, and friends** that have been a huge part of my professional development. It gave me the chance to work on **interesting projects**, pick up **new skills**, and ultimately allowed me to make a **successful transition from academia to industry**.

– Dano Morrison
Software Engineer, CTRL-Labs
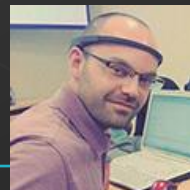
NeuroTechX and its global network of neuro-enthusiasts had a **life-changing impact on my career orientation** and expended my professional reach to companies in cutting-edge technologies. Through various contracts, I **gathered specialized skills** and knowledge that enabled me to carry out projects in neurotechnology.
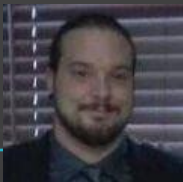
– Nicomaque Jette
Neurotech Enthusiast

The NeuroTechX Community is passionate, dedicated, knowledgeable and capable. They're helping to **expand public engagement with neurotechnology in ways no other group can**.

– Graeme Moffat
ex-VP Scientific & Regulatory Affairs,

InteraXon (Muse)

NTX impacting people's lives (2/2)

TESTIMONIALS

The concepts I've learned and the work I did while being **involved in SynapsETS, one of the NeuroTechX Student Clubs**, allowed me to get an internship in neurotechnology and then get hired as a full-time engineer. SynapsETS was the **incubator that opened doors** for me in the field.

"

– Julien Allaire
Electrical Engineer at Rogue Research
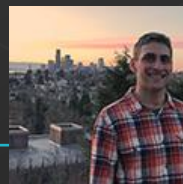
I've **continued to use NeuroTechX as a foundation** to get to my goal of controlling computers with thought. I've been able to **grow my BCI consulting business** while becoming the **world-leading experts** in OpenBCI hardware and in turn helping newcomers learn the intricacies of real-time brain imaging.

"

– AJ Keller
Push the World

I found a **great job at a Neurotech startup right out of my PhD all thanks to NTX**. I'm incredibly grateful for Yannick's efforts in building this amazing community and his dedication to helping me find my dream job!

– Adrien Martel
Neural Engineer PhD

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Contact Us!

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