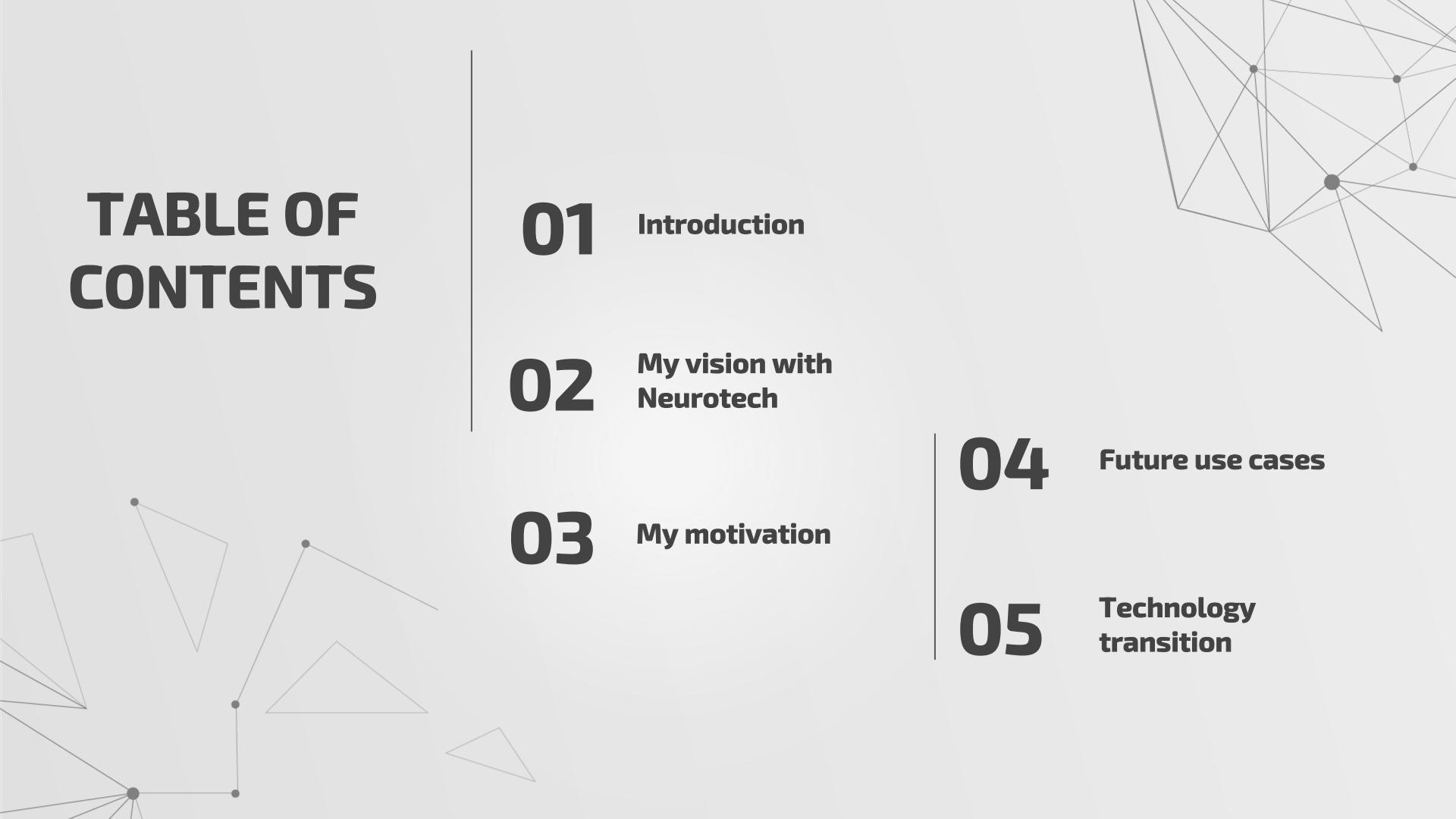
The background of the slide features a complex network of dark grey dots connected by thin grey lines, resembling a neural network or a social network. Interspersed among these nodes are several light grey triangles of varying sizes, some pointing upwards and others downwards, creating a sense of motion and data flow.

# Picturing the future of Neurotech

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Edited by Hayato Waki

# TABLE OF CONTENTS

A faint, abstract network diagram consisting of several grey dots connected by thin grey lines, forming a complex web of triangles and polygons. It is positioned in the background of the slide.

- 01** Introduction
- 02** My vision with  
Neurotech
- 03** My motivation

- 04** Future use cases
- 05** Technology  
transition

# 01

## Introduction

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# Introduction

**Hayato Waki**  
<https://wakkihaya.com>

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A senior student at University of Tsukuba.

Writer at [NeurotechJP](#)

Ex: Co-founder and engineer at startups  
in Japan and U.S.



A complex network diagram composed of numerous small, semi-transparent grey triangles and dots. Some dots are dark grey, while others are light grey. The triangles represent larger, overlapping shapes, creating a sense of depth and connectivity.

**02**

## **My vision with Neurotech**

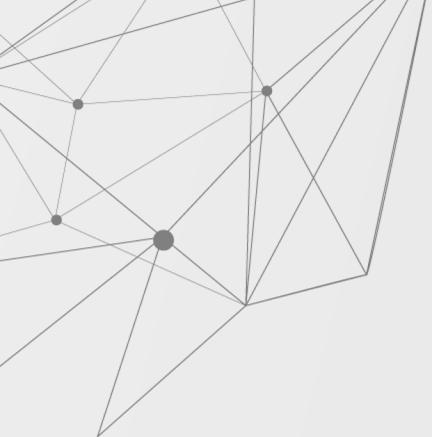
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My life vision

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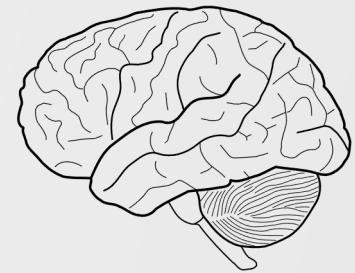
**Become a person  
who achieves Science-Fiction  
with technology and creativity**



What I want to do with Neurotech in the future

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**More connected  
between people  
by Neurotechnology**



# 03

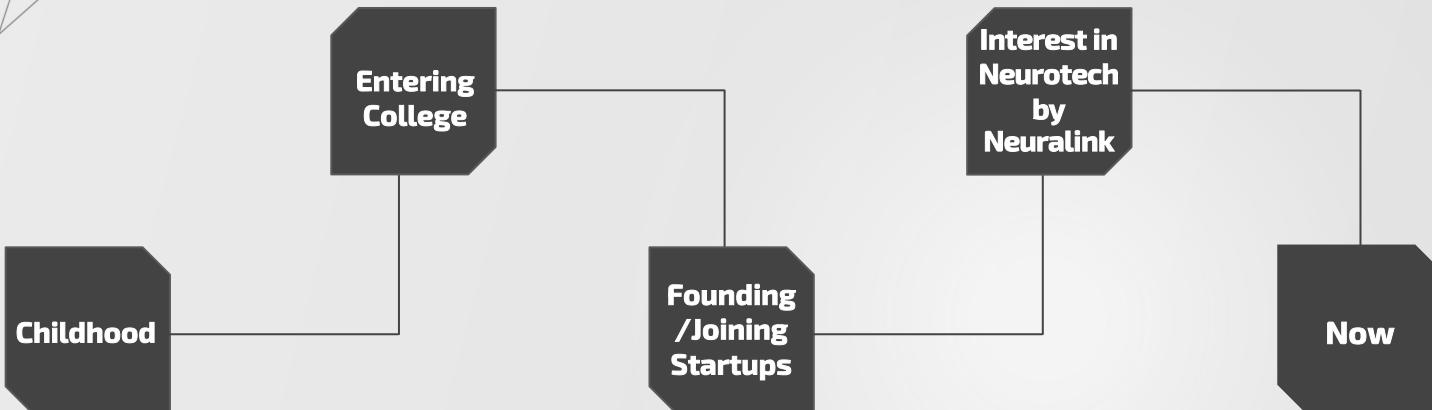
## My motivation

My vision with Neurotech comes from this motivation.



# Trajectory

Always thought  
about how tech can  
be applied to our life.



**Interest in  
Neurotech  
by  
Neuralink**

**Now**

# What I believe

## Communication

Any actions to convey something like words, emotions, etc between humans



can be a new input system.

## Our life

'Communication' is the base of our life. So if it changes, everything changes in our life.

Ex

You use words to order foods at restaurants.  
But, what if the word-communication changes?  
What if you have a new way to convey emotions without using Instagram story?

## Hardware

Hardware layer is below software layer and application layer.

Hardware revolution

## Our life

New hardware will bring us new ways of input/output, and create a new platform for software.

Ex

Smart phone: new platform for software  
VR: new platform for software  
Earphone: new audio input  
Projector: new sight input

# 04

## Future use cases

---

These might be not in near future,  
but they are what I believe in and  
want to do in the future.



# Market transition

## Now

- Medical purpose
- Education, Sports
- Meditation, Music, Sleep
- Neuro-marketing
- Entertainment

## Future

to-C region  
(e.g. SNS)

BCI(Neurotech) should be used as an interactive communication tool between consumers in the future.



# Future use case 1

To stay connected with  
your people online,

Now

## Call, SNS on phone

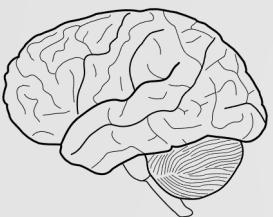
You type something on the  
screen or do voice call  
through a smart phone.

Future

## Emotions & words by thoughts. Sharing same experiences.

Emotions and words using thoughts are  
easier and more frequent to communicate.  
You can feel eating the same foods as  
others by neurostimulation even if you're  
far away.

## Future use case 2



Measure EEG and emotions  
when you do actions, and train  
the AI algorithm with those data.

AI can suggest actions to you by  
classifying real-time data with an  
always-mounted device.

### More humanized-AI



You might feel like that AI is a human, who suggests  
something by your mood or emotions, like your mother.

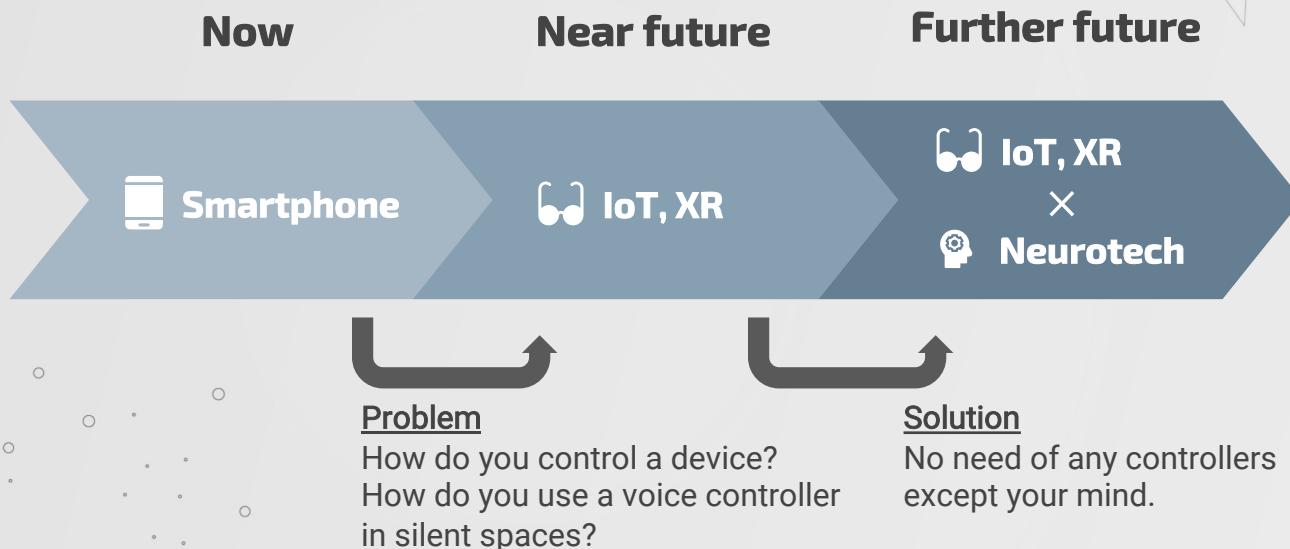
# 05

## Technology transition

Explains about future of technology transition and problems that might happen then.



# Hardware transition



# Platform transition



More immersed in  
VR with Neurotech



# Neurotechnology transition

## Non-invasive

- More compact & casual device
- Transfer learning for scalability
- More specialized on visual activity

## Invasive

- Resolve ethical issues
- Clarify high-level brain function
- Resolve brain damages for long-term attachment.

