

AI: ENHANCING HUMANITY THROUGH UNDERSTANDING



JEREMY STEELE

CEO AND MANAGING DIRECTOR OF CONTROL BIONICS

Control Bionics offers a suite of dedicated speech-generating devices and augmented alternative communication (AAC) accessories that incorporate artificial intelligence (AI) to give people with complex communication and physical needs their voice.



HELLO
My name is

INTRODUCE YOURSELF TO YOUR NEIGHBOR

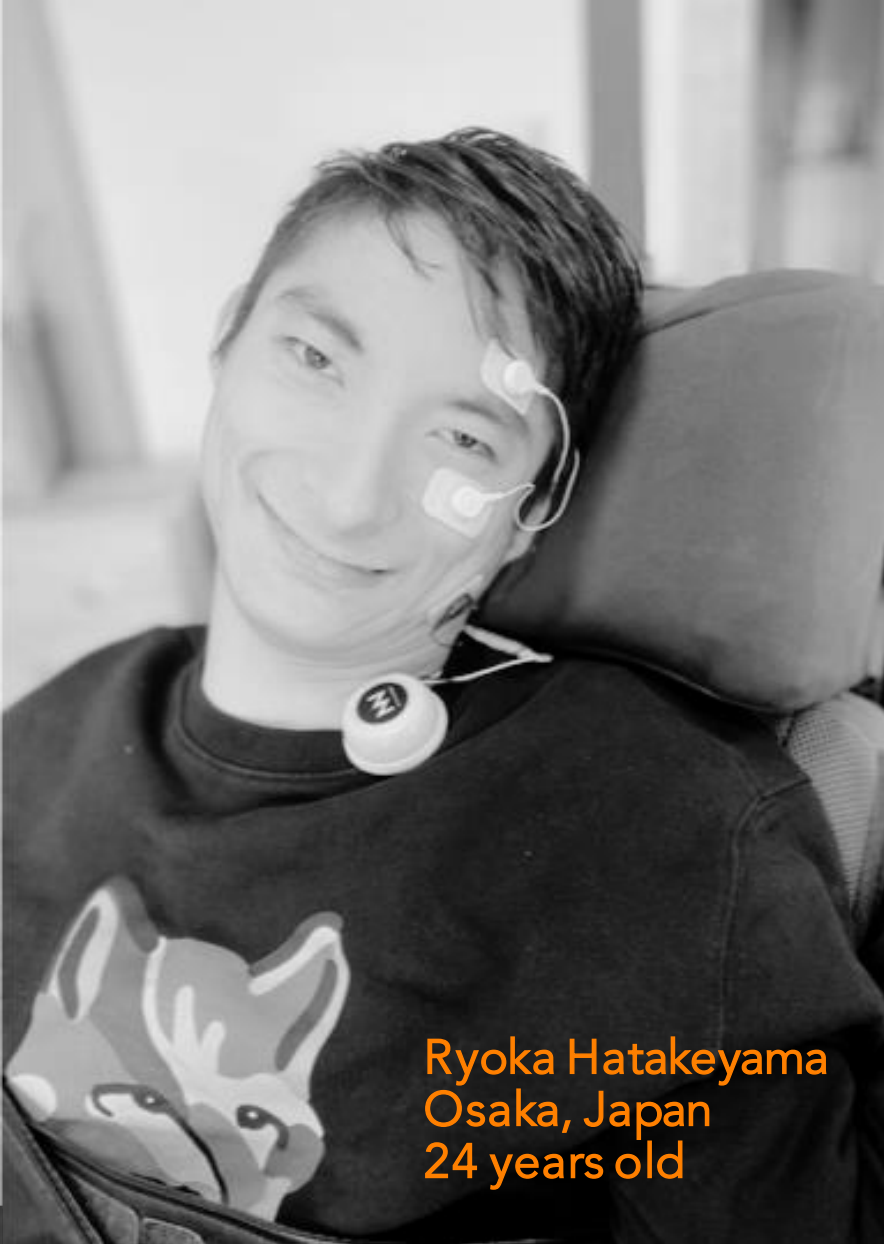
and tell them what interests
you most about AI

BUT WAIT...

- No writing
- No talking
- No gesturing
- No smiling



**OUR MOST BASIC EMOTIONAL
NEED IS TO BE UNDERSTOOD**



Ryoka Hatakeyama
Osaka, Japan
24 years old

THE REALITY OF BEING NONVERBAL

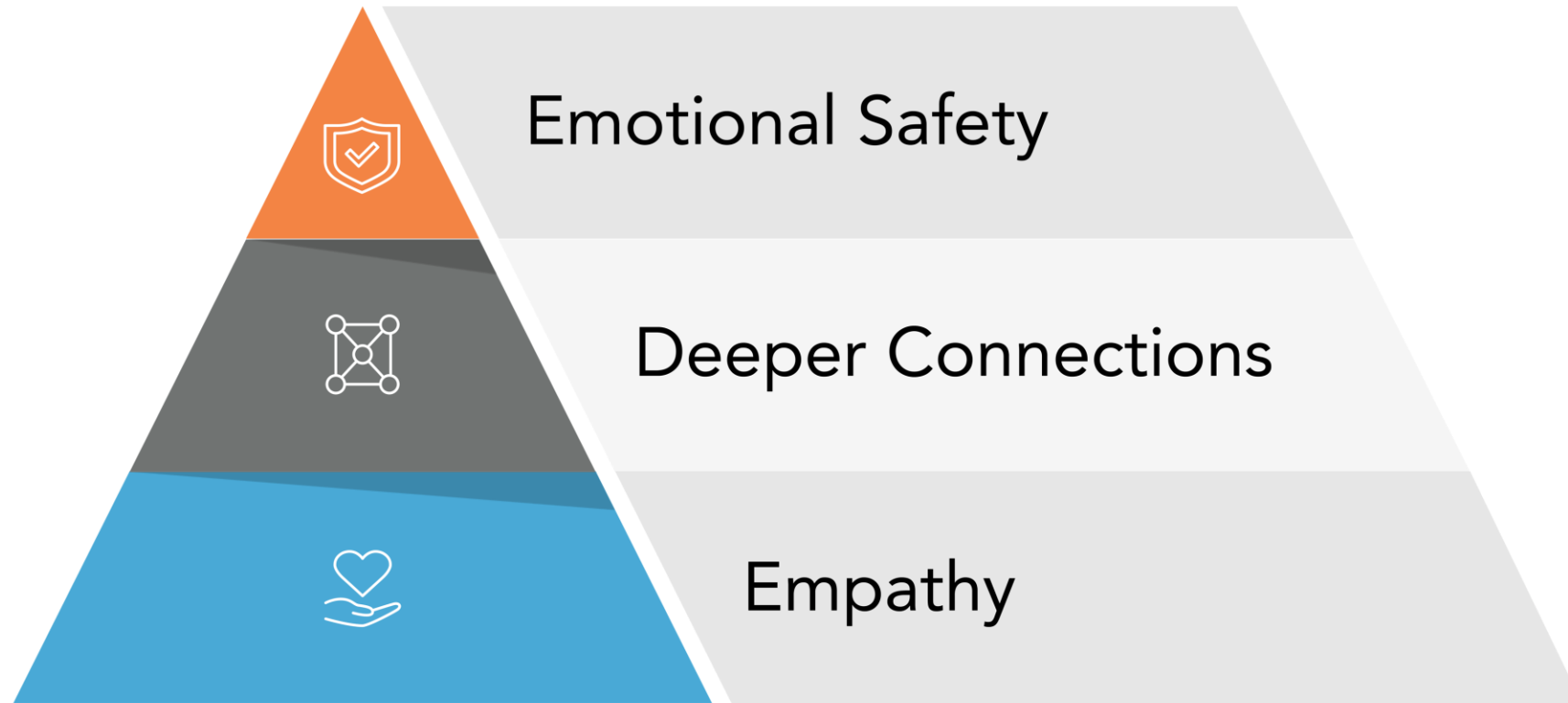
- How can you express who you are?
- How do you create substantive connections?
- How do you demonstrate personality?
- How do you create meaningful stories?

“

Since starting to work with this EMG technology, I have been able to connect technology with people who have some of the greatest communication challenges I have ever seen in my 25-year career.

– Speech Language Pathologist

UNDERSTANDING =

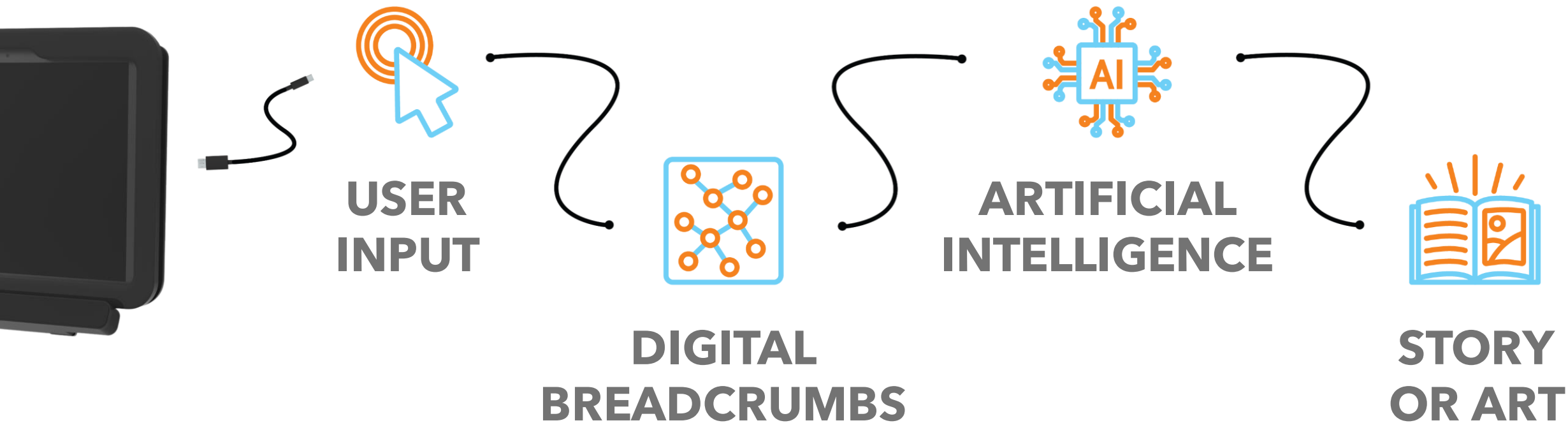


FROM NEEDS TO HIGHER EXPRESSION



EVERYONE HAS A STORY

CHATCRACKERS®







MOIRA TAKES MANHATTAN

Moira, a vivacious young woman, strolled through the bustling streets of Manhattan with her Australian Labradoodle puppy, Lilydale, trotting happily beside her. Their first stop was **Macy's**, where Moira picked out a delicate **flower vase**, envisioning it filled with wild blooms from Central Park.

As they emerged from Macy's, Lilydale tugged playfully on her leash, eager to explore the cityscape. Moira chuckled, knowing the mischievous pup was always up for an adventure. They made a pit stop for a classic New York **hotdog**, savoring the savory snack under the warm sun...



For many years, we have been constrained by Moira's severe physical developmental delays that have resulted from her progressive neurological disorder. Commercially available toys that she can independently manipulate are meant for infants and toddlers with a typical developmental timeline, so we have struggled to support Moira's growth and development in an age-appropriate way without infantilizing her. **Augmentative communication, and even more specifically, EMG signal-driven communication, has been a game changer for her and for us. Now, with her device's AI capabilities, her creativity knows no bounds. She can self-direct her own play, create and share her own stories, and express her imagination, her preferences, and her emotions in ways we never thought possible. There are parts of Moira's spirit that have always felt just below the surface and painfully unreachable to me. Hearing her unique voice through her creations has opened a whole new world of self-efficacy, communication, connection, and understanding for Moira and for our family.**

– Dania Ermentrout, Moira's Mother

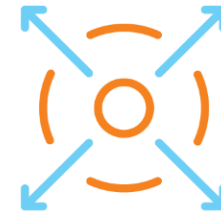
WHAT GOOD IS AI IF IT'S NOT ACCESSIBLE?



EMG

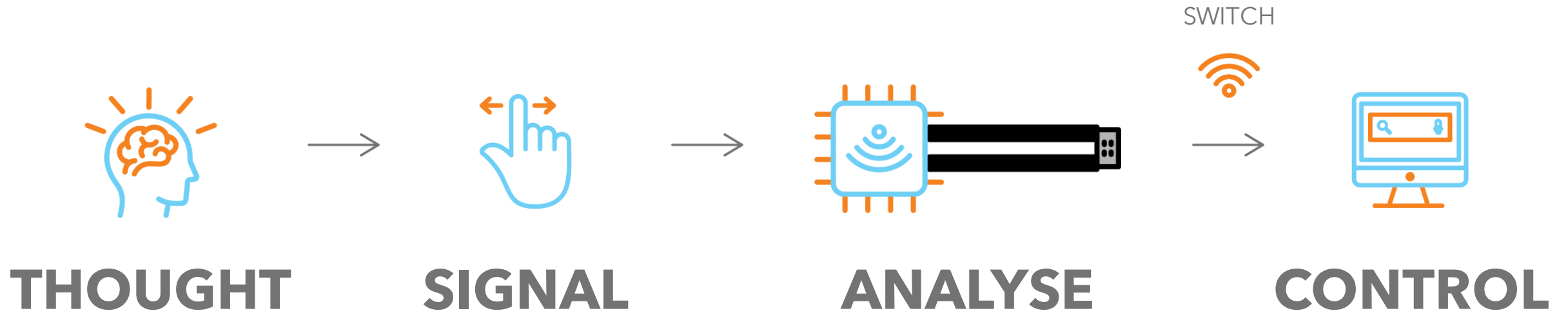


EOG



SPATIAL

THE SCIENCE OF EMG



EMG captures, records, and interprets electrical activity produced in your body's muscles when you move.



THE NEUROSTRIP®

Quick Specs:

- Weighs less than a sheet of paper
- Seamlessly conforms to the curvature of its location on the controller's body
- Comprehensive physiological telemetry
- Makes AI accessible



**AI IS CREATING A
MORE EQUITABLE & INCLUSIVE
WORLD**

QUESTIONS?



Artwork by Moira

**CONTROL
BIONICS®**

AAC SOLUTIONS

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