Intelligence Augmented:
Augmenting our natural core processor

The human brain is the most powerful processor, naturally good at filtering sounds in noisy environments, enabling people to instinctively tune into what they want to hear. When challenged with hearing loss, the brain does not receive the right input to take advantage of this natural ability. That is why we use co-processors powered by Artificial Intelligence (AI) to provide extra help with hearing in noise when needed, so the brain can continue what it is naturally good at. This human-centered approach, which we call Intelligence Augmented, helps the brain preserve its natural hearing processing.

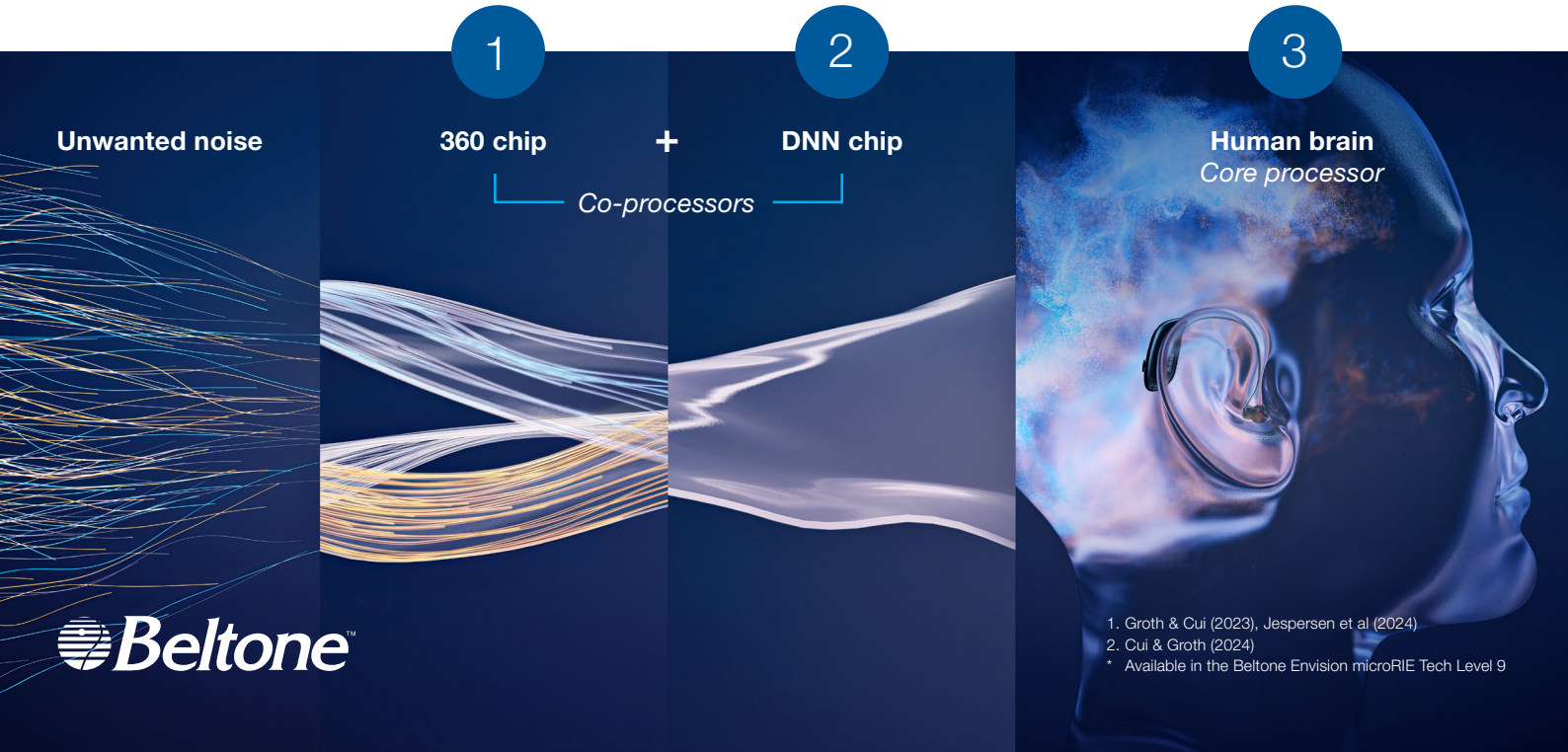
DualChip, Triple Processors

To ensure that our natural core processor, the human brain, gets the needed help, Beltone Envision™ introduces two intelligent co-processors embedded in our new DualChip:

1. Our **360 chip** features the industry's most accurate real-time environmental classification,[1] constantly scanning, classifying and adjusting to complex listening environments, so the hearing aids activate the right features at the right time. It also brings our unique approach to directionality for the best hearing experience all around,[2] by providing all the auditory information the user needs to hear their best across different sound situations.

2. Our **Deep Neural Network (DNN) chip** works on top of the 360 chip and acts as a filter to create greater contrast between unwanted noise and speech. It powers our new **True Focus** feature*, focusing on de-noising the sound signal to spotlight speech and remove distractions for outstanding sound clarity and reduced listening effort.

3. Together, these two co-processors – the industry-leading 360 chip and the new DNN chip – augment the human brain to better tune in and out of sounds, enabling users to instinctively process their sound environment for a more natural and intuitive listening experience.



1. Groth & Cui (2023), Jespersen et al (2024)
2. Cui & Groth (2024)
* Available in the Beltone Envision microRIE Tech Level 9

Behind the **AI tech**

Our new DNN chip is trained for real life

13.5 million
spoken sentences

3.9 million
tuned sound parameters

4.9 trillion
operations per day[3]

17x
more efficient[4] and fits into the world's smallest AI hearing aid[5]



Illuminate life with **intelligent sound**

Although these big numbers seem impressive, they only indicate the power of our engine, but not what it can achieve. With our new True Focus feature*, your clients can embrace the radiance of life from all the sounds around them while hearing through the noise as nature intended. We've pushed the boundaries to deliver the world's best for hearing in noise,[1-4] supporting your clients to cut through the noise while staying connected to the sounds that matter to them.

Hearing clarity for al

Boost your clients' natural abilities so they can experience sounds more clearly. Beltone Envision delivers the sound clarity and relief your clients need, even in the noisiest environments.

Highlight speech and reduce distractions

Empower your clients to instinctively decide on what they want to focus on by reducing thousands of unwanted noises while spotlighting speech. This is why 89% of users prefer True Focus when hearing in noise.[6]

Ideal listening experience

Enable your clients to always feel in control of their hearing with intelligent technology that detects the environment and noise level, seamlessly adjusting to their ideal listening experience.

Discover Beltone Envision now on gnhearing.com

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3. GN data on file
4. Jespersen, Dieu & Rubachandran (2024)
5. GN data on file
6. Rated by end-users compared to legacy. Jespersen (2024)

* Available in the Beltone Envision microRIE Tech Level 9

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