1. This document was created to support maximum accessibility for all learners. If you would like to print a hard copy of this document, please follow the general instructions below to print multiple slides on a single page or in black and white.
2. This handout is for reference only. Non-essential images have been removed for your convenience. Any links included in the handout are current at the time of the live webinar, but are subject to change and may not be current at a later date.
3. Copyright: Images used in this course are used in compliance with copyright laws and where required, permission has been secured to use the images in this course. All use of these images outside of this course may be in violation of copyright laws and is strictly prohibited.
4. Social Workers: For additional information regarding standards and indicators for cultural competence, please review the NASW resource: Standards and Indicators for Cultural Competence in Social Work Practice
5. Need Help? Select the "Help" option in the member dashboard to access FAQs or contact us.

How to Print Handouts

- On a Mac
  - Open PDF in Preview
  - Click File
  - Click Print
  - Click dropdown menu on the right "preview"
  - Click layout
  - Choose # of pages per sheet from dropdown menu
  - Checkmark Black & White if wanted.
- On a PC
  - Open PDF
  - Click Print
  - Choose # of pages per sheet from dropdown menu
  - Choose Black and White from "Color" dropdown

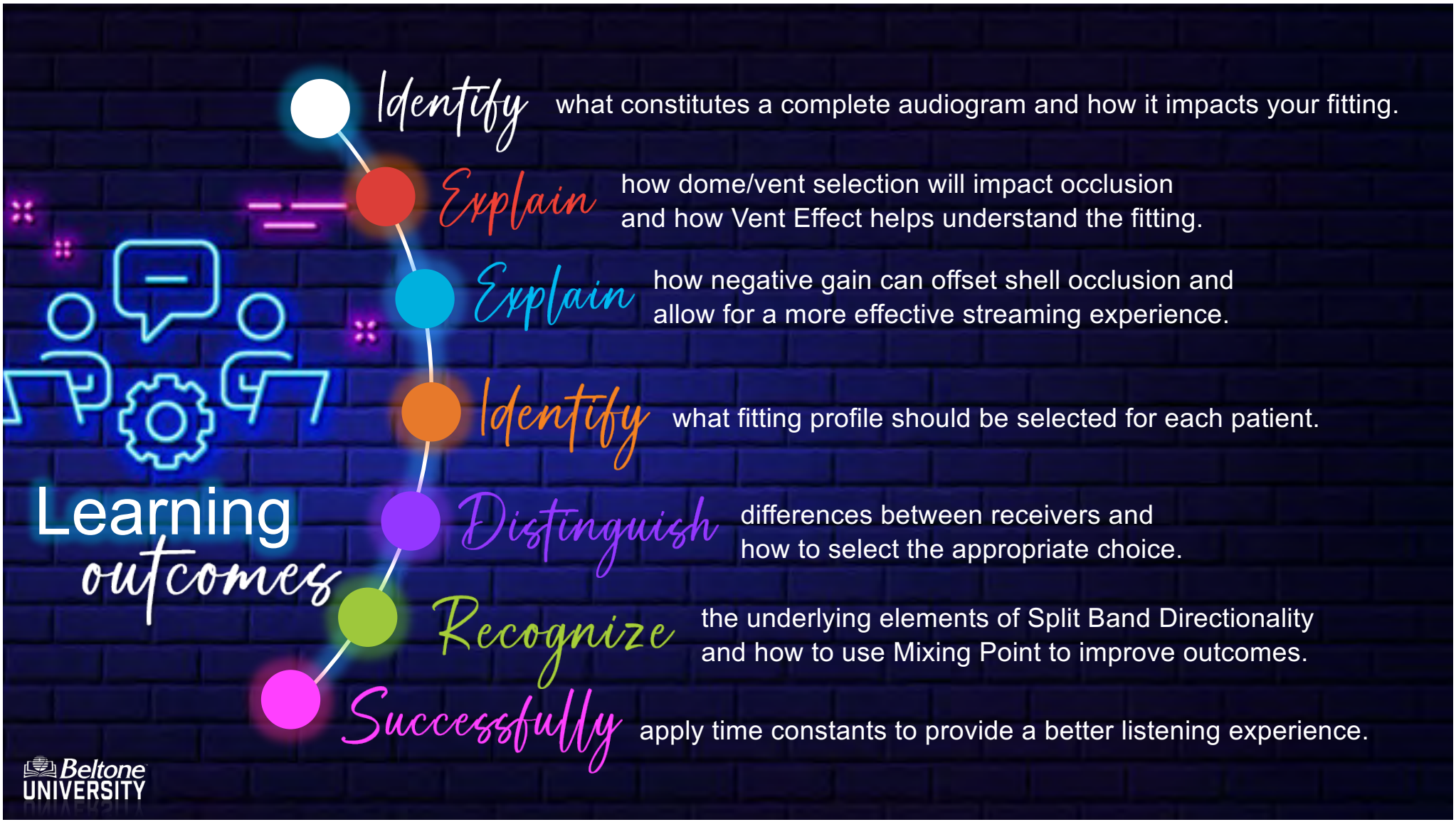
Troubleshooting the most common fitting issues with modern Beltone devices

Christopher Phoenix

Regional Training Manager

Presented in partnership with

continued



Presented in partnership with

continued

Presented in partnership with

continued

Start with a strong foundation

- Pure Tone Air & Bone Scores
  - Don't forget to properly mask when needed!
- Pure Tone LDLs
- SRT
- MCL
- UCL (speech)
- Word Discrimination
  - Both monaural and binaural
- QuickSIN
- Verification/Validation

Beltone UNIVERSITY

Why do we bother?

Pure Tone Air & Bone Scores
- Used to calculate gain

Pure Tone LDLs
- Used to set MPO

SRT
- Used to verify results of pure tone testing

MCL
- Used for ensuring proscribed targets are in line with preferences

UCL
- Used for ensuring targets are not too high for comfort

Monaural/Binaural Discrimination
- Used to predict success in fitting and to determine one aid or two

QuickSIN
- Used to determine need for therapies and features

Validation/Verification
- Used to ensure unique ear anatomy is taken into account and aids are functioning the way we think they are

Beltone UNIVERSITY

Presented in partnership with

continued

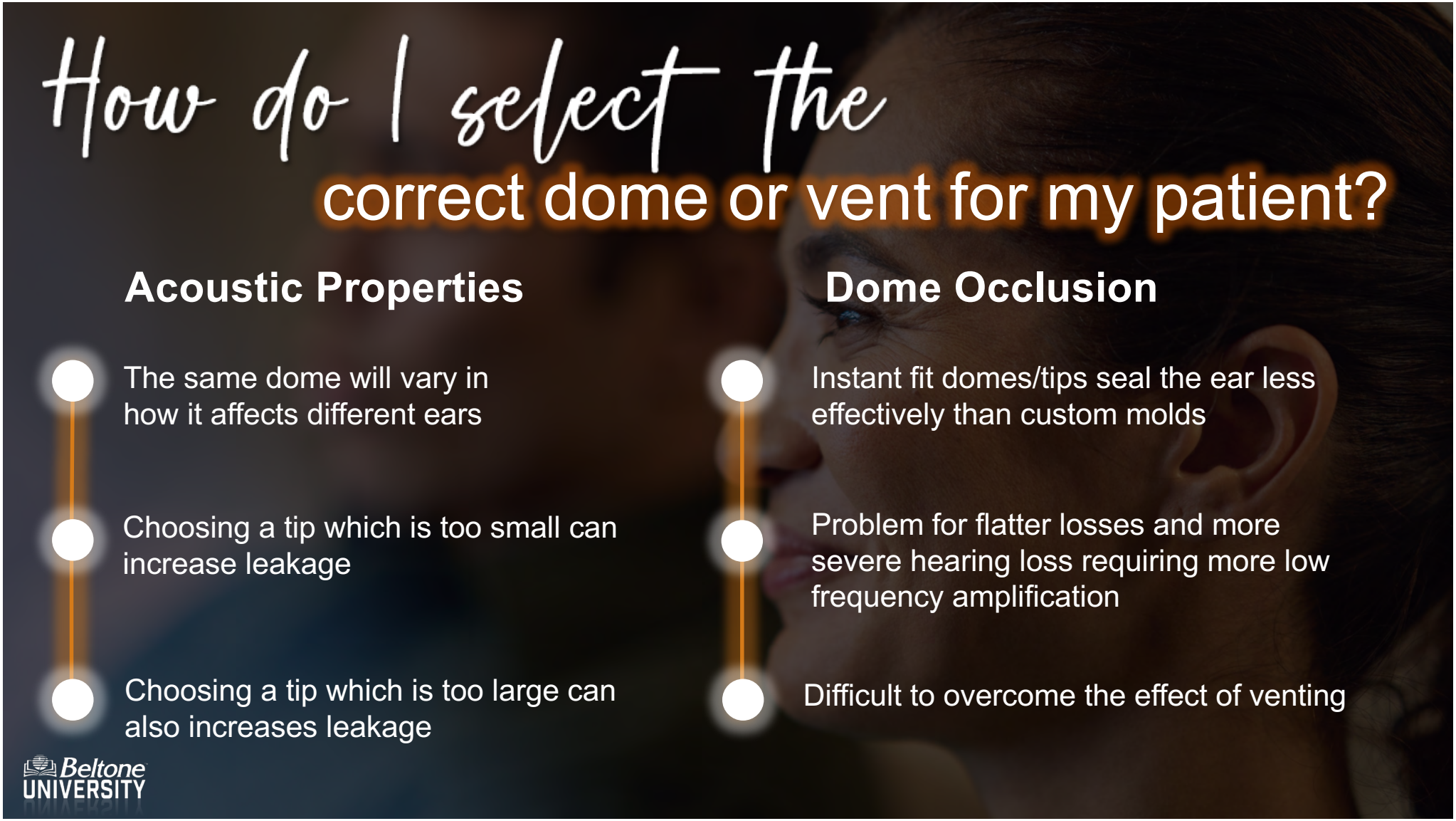
Occlusion *Friend or Foe?*

There are two types of occlusion:

- Shell occlusion
- Amplifier occlusion

Presented in partnership with

continued

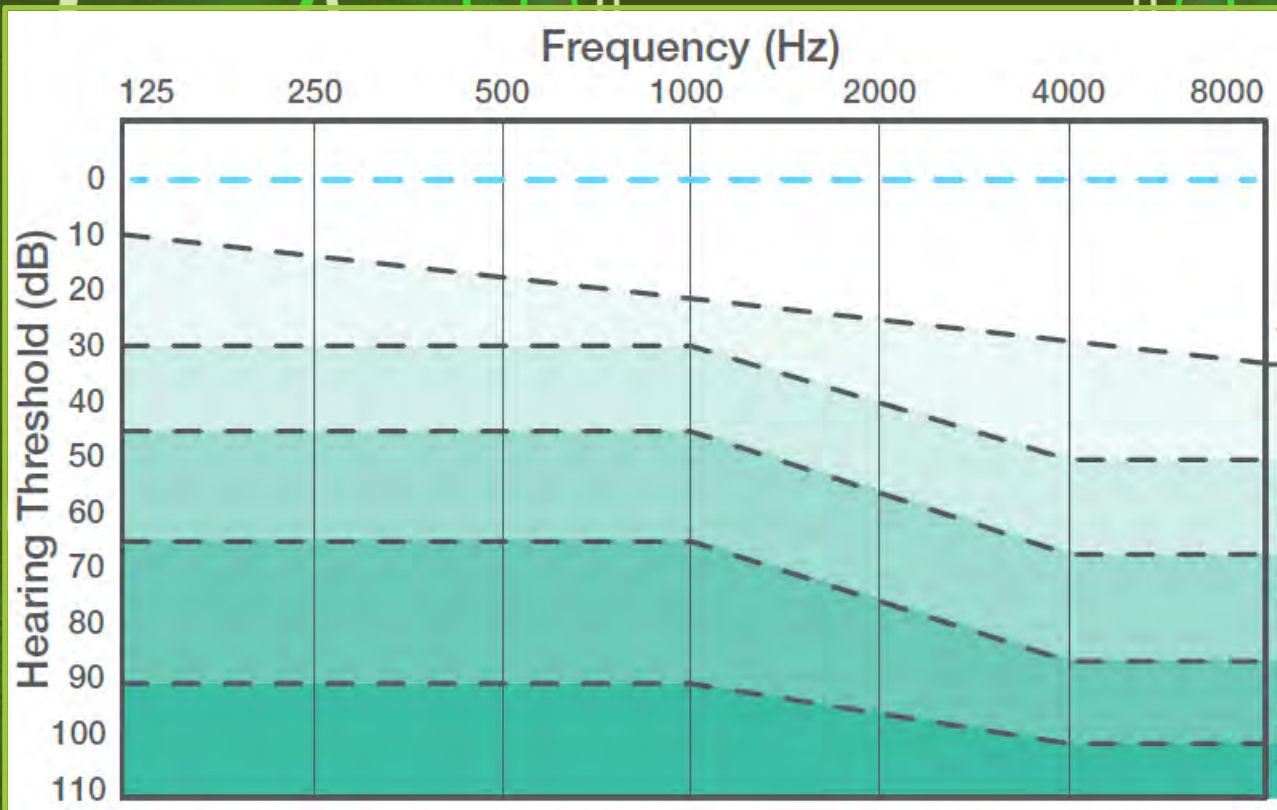


Presented in partnership with

continued

Shell *occlusion*

Beltone UNIVERSITY

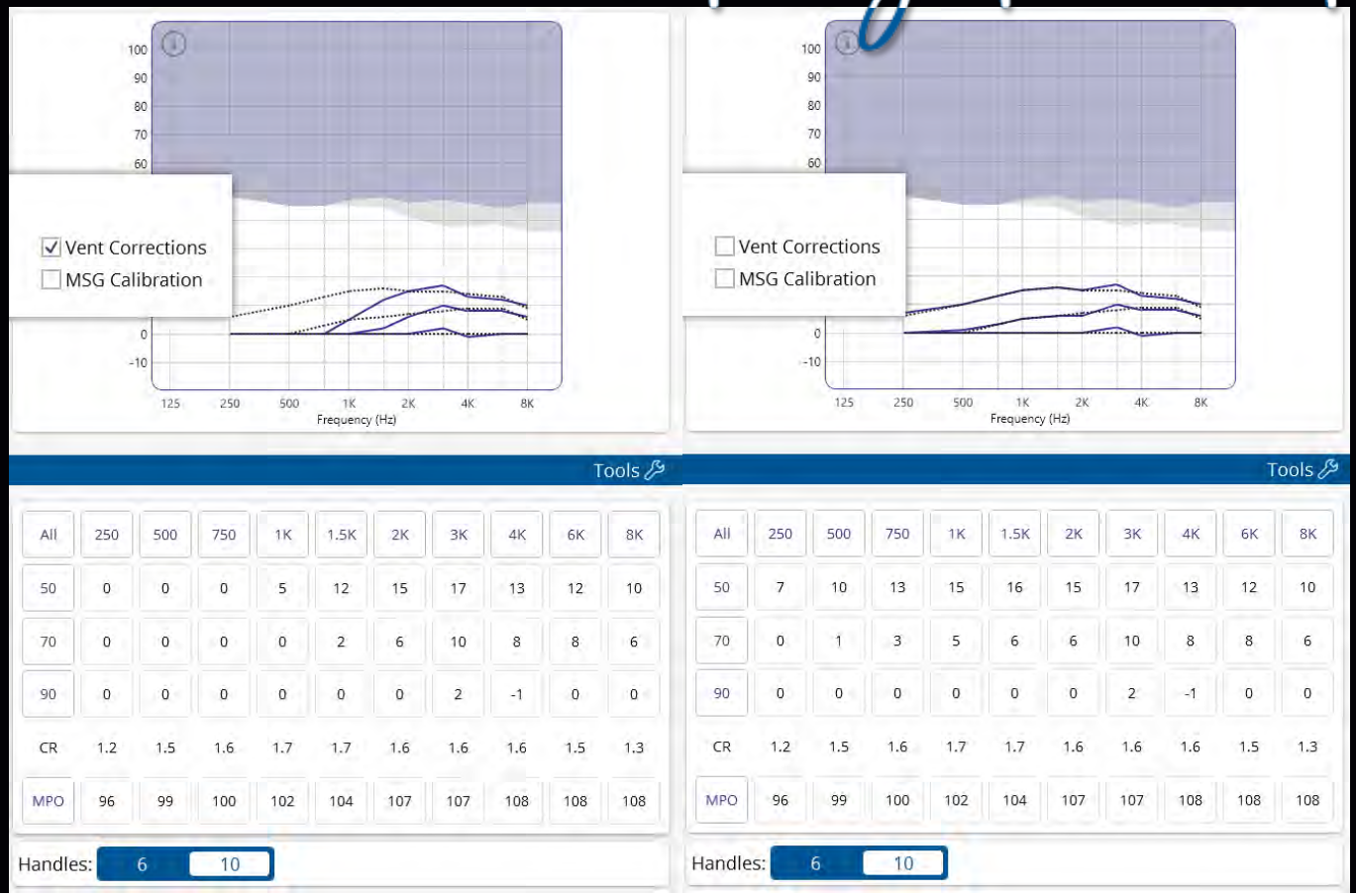


Venting	Dome	Receiver Power	Tubing
D-Vent MOV	Open	LP	Thin
Large/ Medium	Tulip or Closed	LP	Thin
Medium/ Small	Tulip, Closed or Power	MP	Standard 13
Small/ Pressure	Power Micro Mold	HP	Standard 13
Pressure	Encased	UP	Double/ Thick Walled

Presented in partnership with

continued

Why don't the gain and targets match?



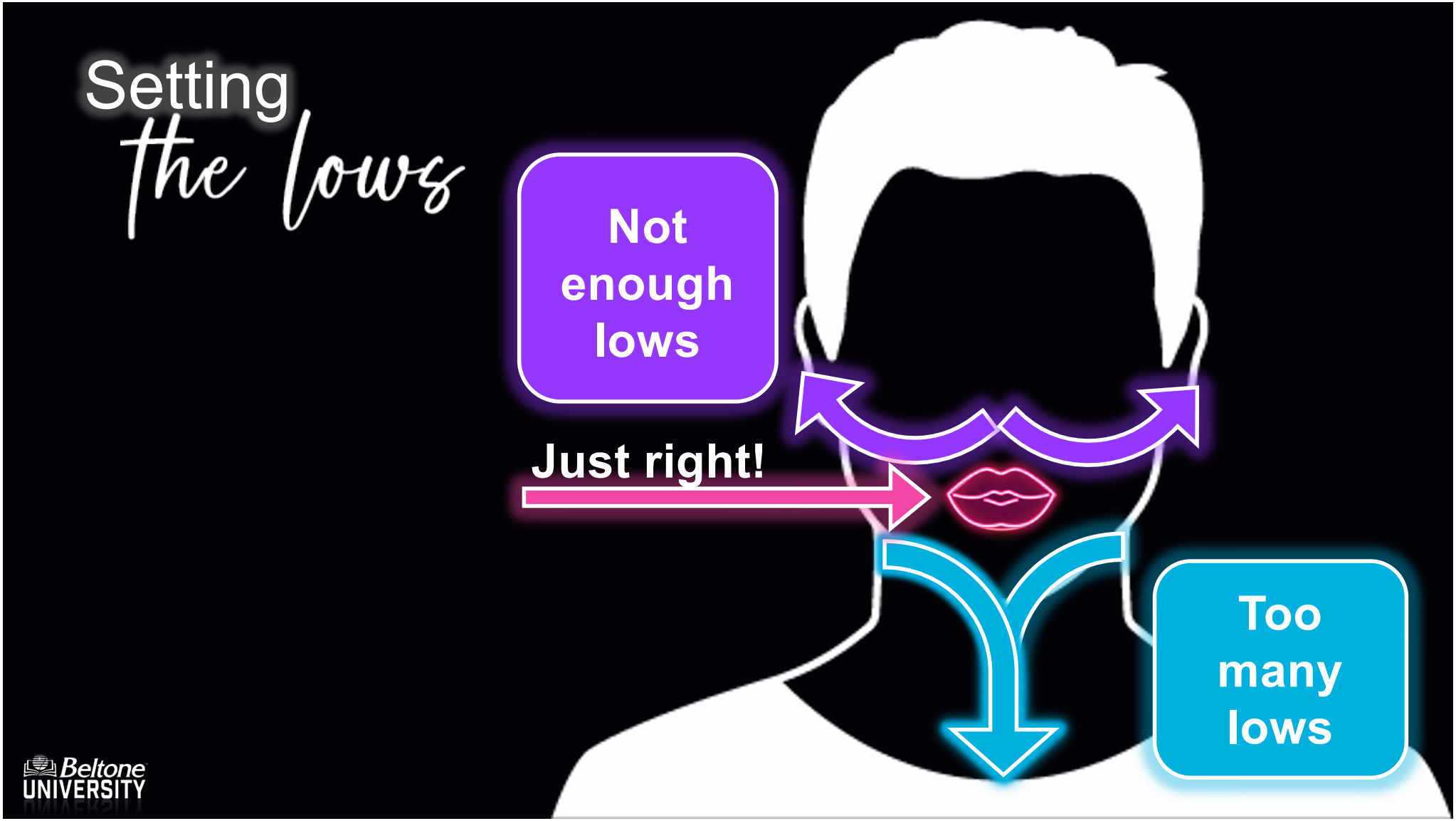
	All	250	500	750	1K	1.5K	2K	3K	4K	6K	8K
50	0	0	0	5	12	15	17	13	12	10	
70	0	0	0	0	2	6	10	8	8	6	
90	0	0	0	0	0	0	2	-1	0	0	
CR	1.2	1.5	1.6	1.7	1.7	1.6	1.6	1.6	1.5	1.3	
MPO	96	99	100	102	104	107	107	108	108	108	

	All	250	500	750	1K	1.5K	2K	3K	4K	6K	8K
50	7	10	13	15	16	15	17	13	12	10	
70	0	1	3	5	6	6	10	8	8	6	
90	0	0	0	0	0	0	2	-1	0	0	
CR	1.2	1.5	1.6	1.7	1.7	1.6	1.6	1.6	1.5	1.3	
MPO	96	99	100	102	104	107	107	108	108	108	

Beltone UNIVERSITY

Presented in partnership with

continued



Presented in partnership with

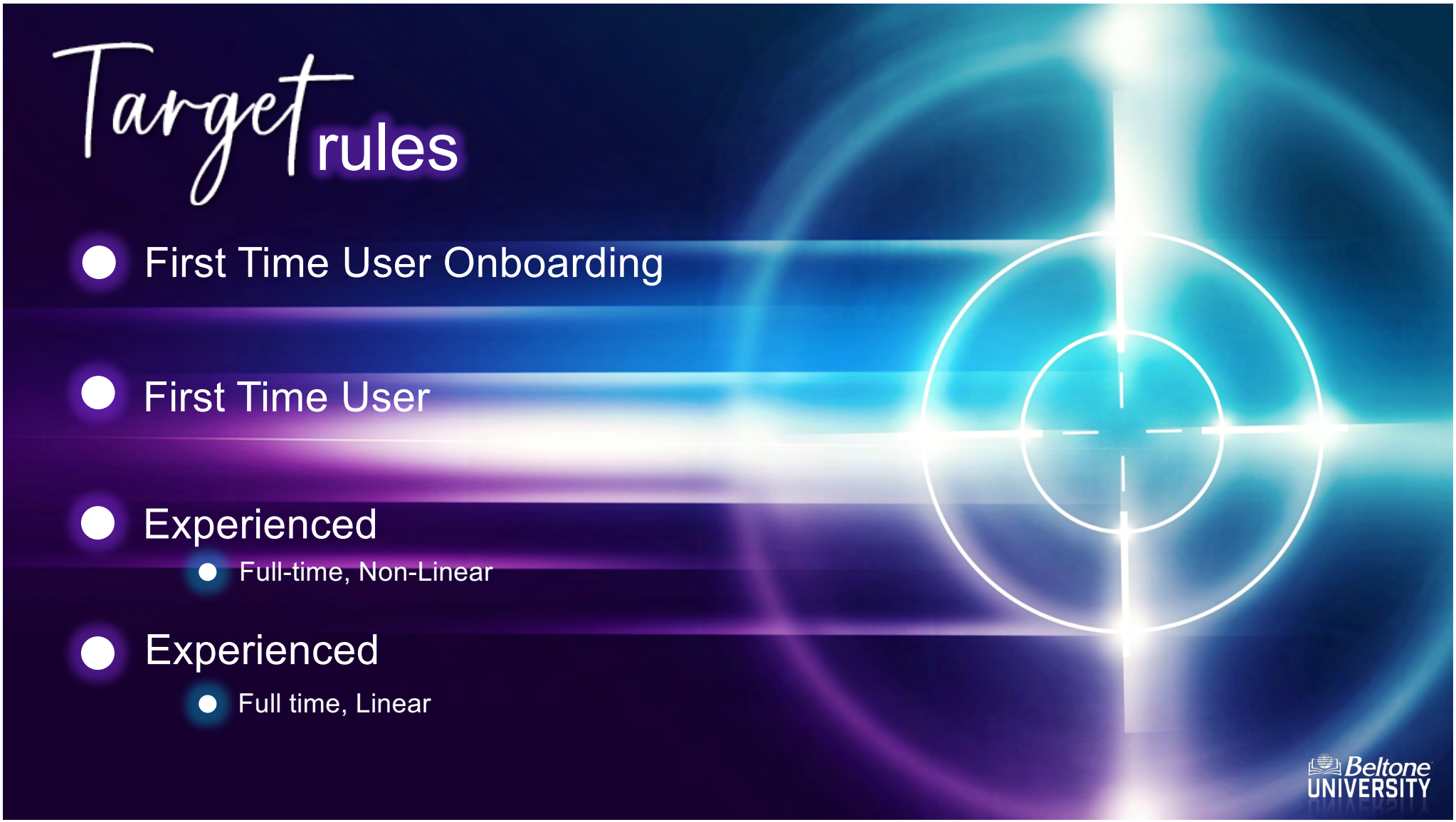
continued

Negative gain values

- **Helps with occlusion for any type of fitting**
- **With a CROS fitting**
  - Good ear could still have too much occlusion even with an open dome
  - Hearing aid microphones are on

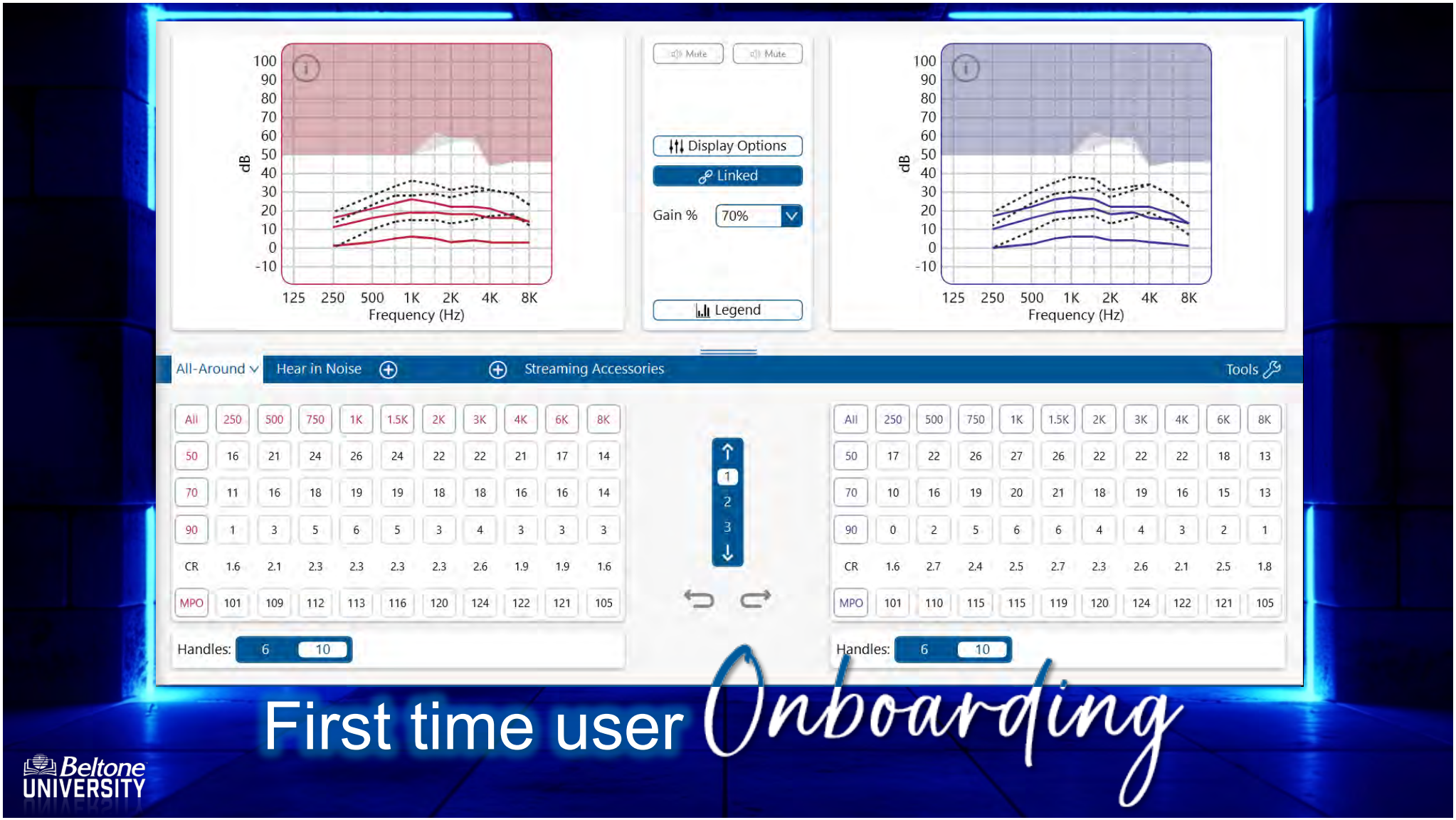
All	250	500	750	1K	1.5K	2K	3K	4K	6K	8K
50	-10	-10	-10	-5	1	4	3	-1	0	0
70	-10	-10	-10	-10	-4	0	2	-1	0	0
90	-10	-10	-10	-10	-4	0	2	-1	0	0
CR	1	1.1	1.1	1.2	1.2	1.1	1	1	1	1
MPO	96	98	99	99	101	102	102	102	102	103

Beltone UNIVERSITY



Presented in partnership with

continued

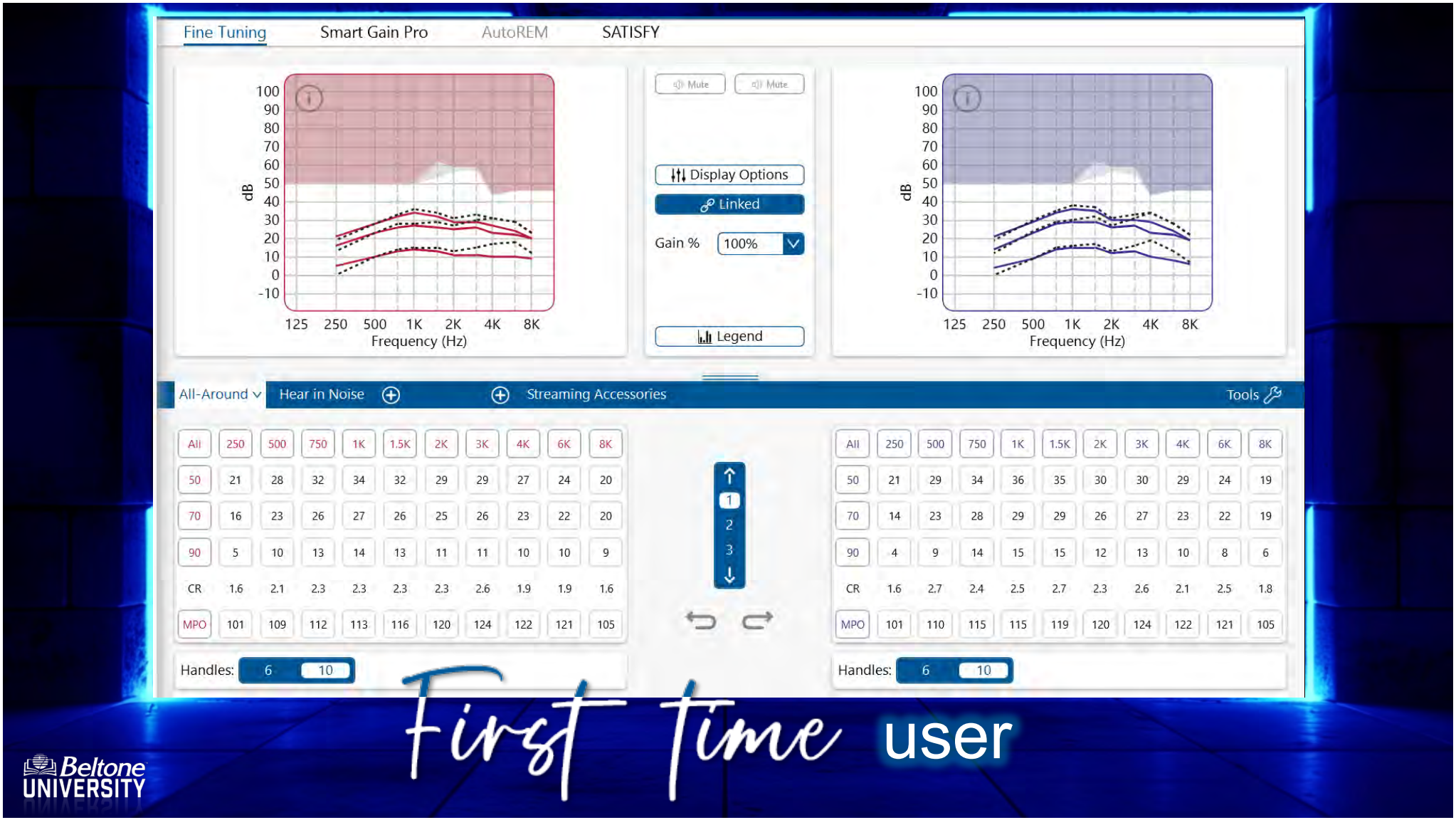


First time user *Onboarding*

Beltone UNIVERSITY

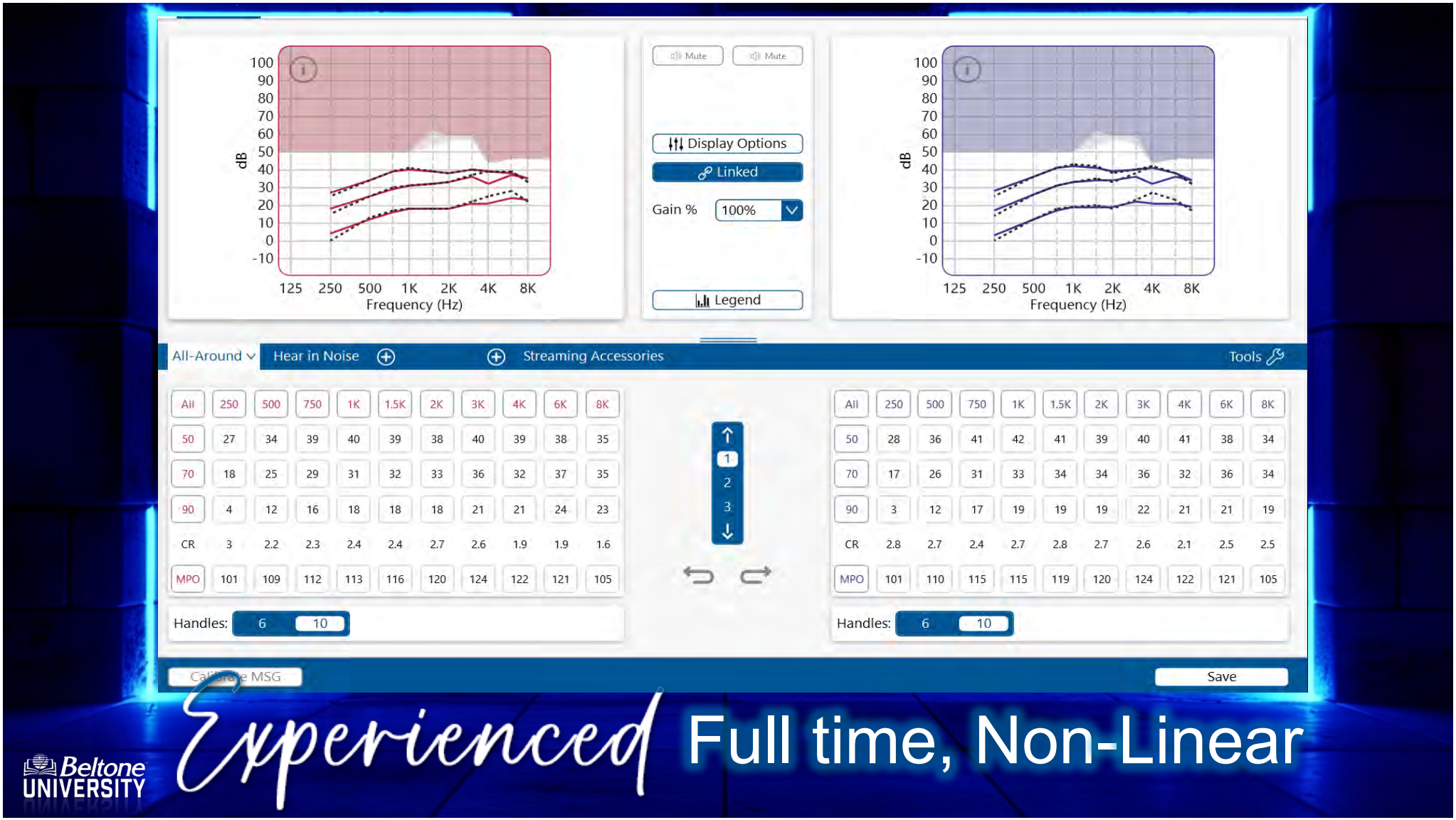
Presented in partnership with

continued



Presented in partnership with

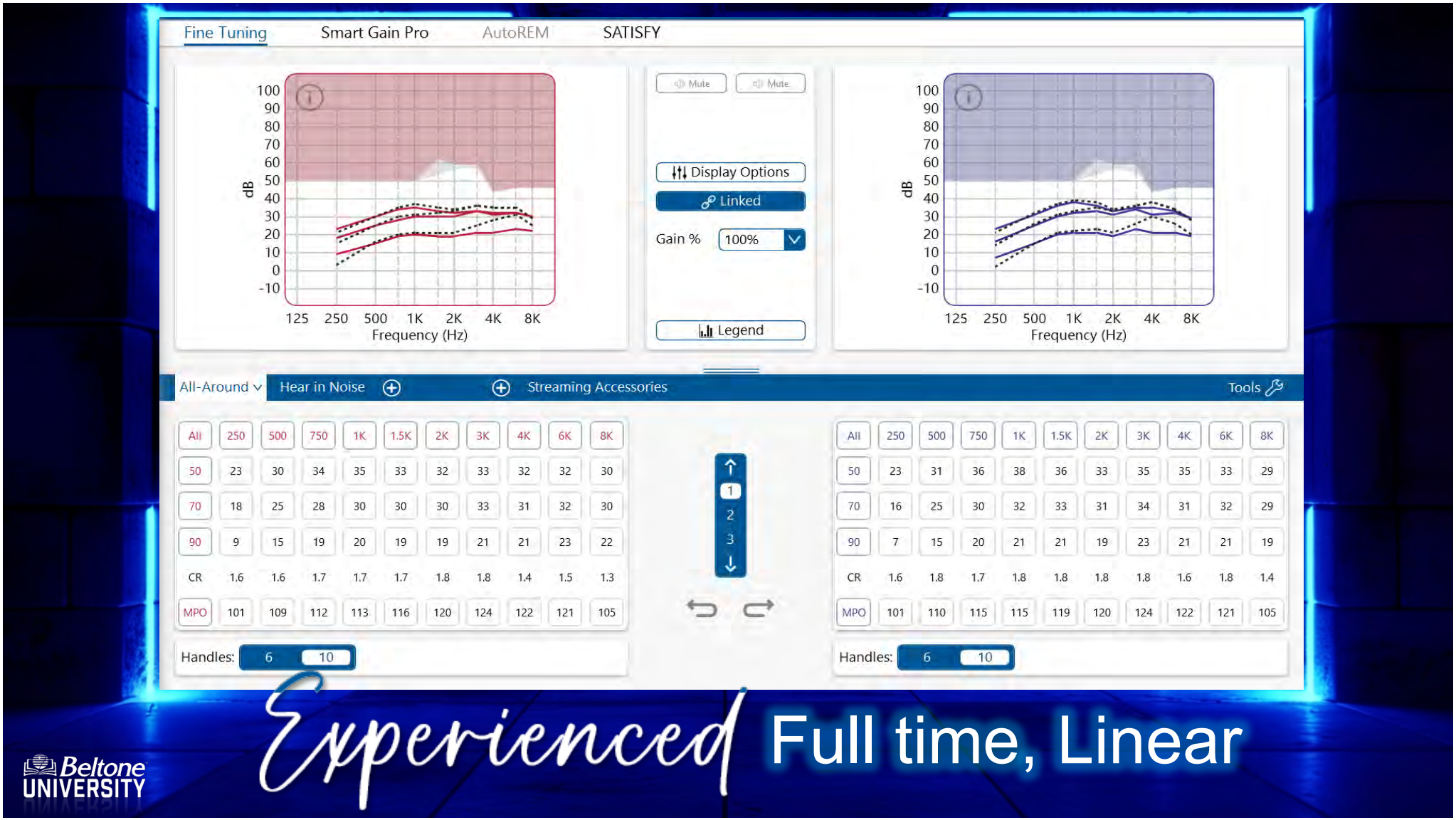
continued



Beltone UNIVERSITY

Presented in partnership with

continued



Presented in partnership with

continued

Sure Fit 3

Receivers

LP

MP

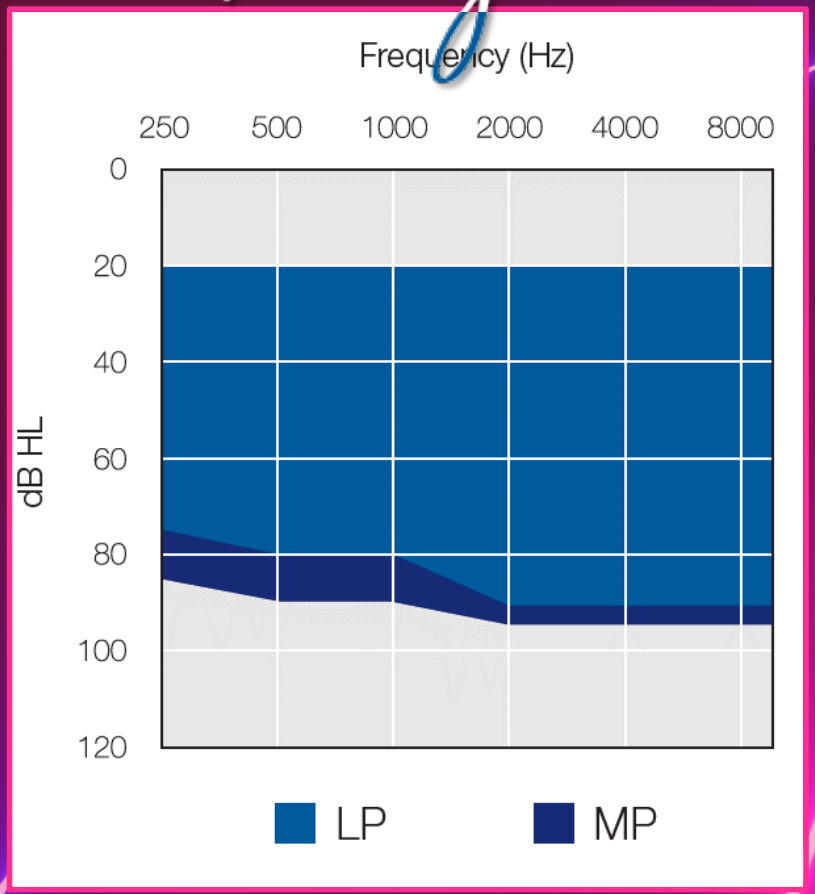
HP

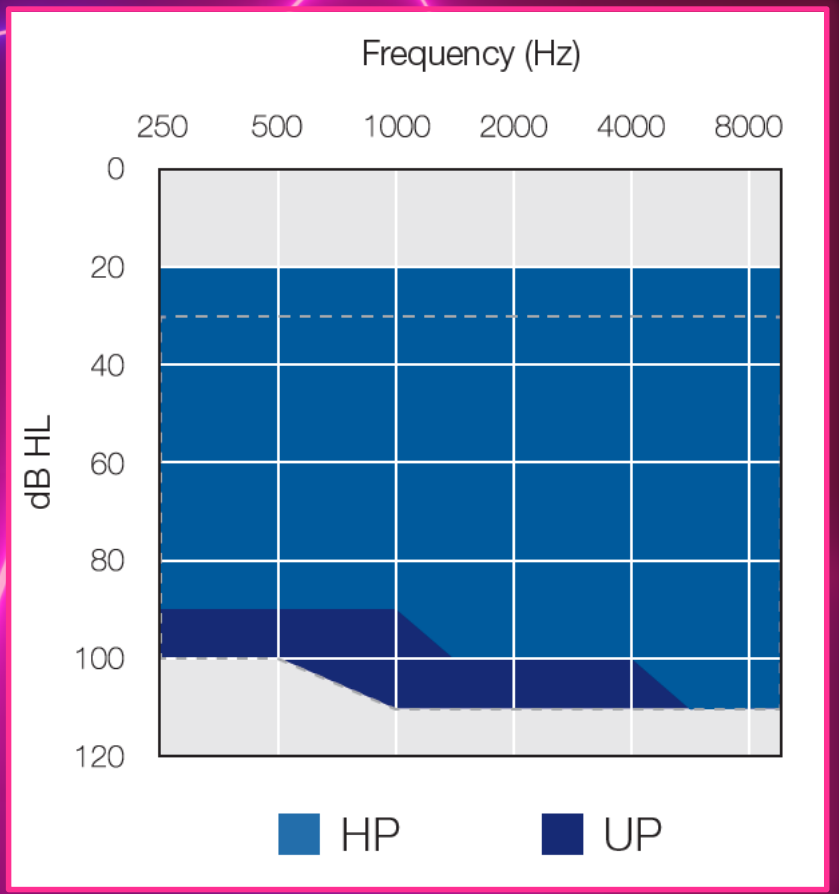
UP

Presented in partnership with

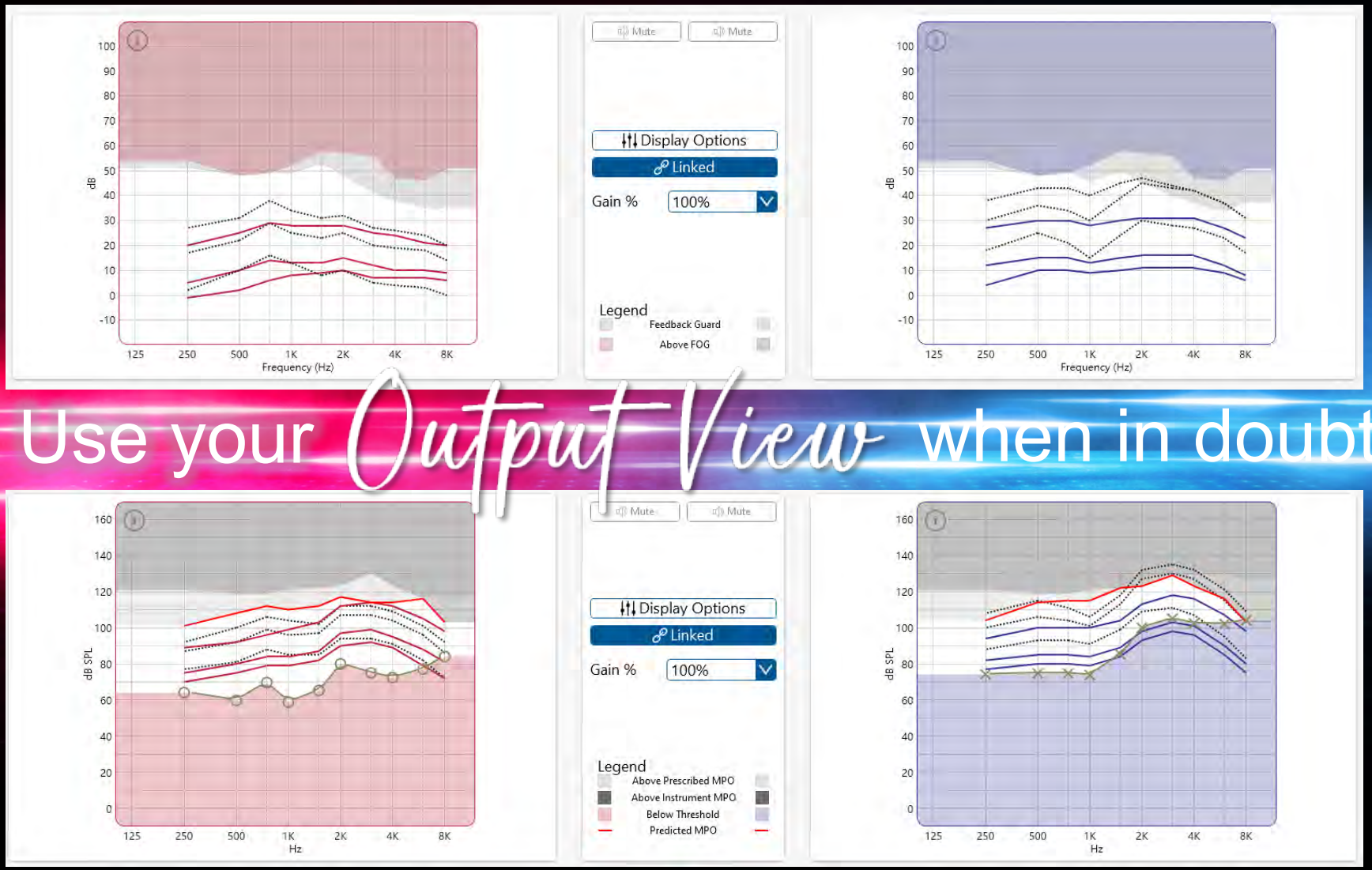
continued

Fitting Range



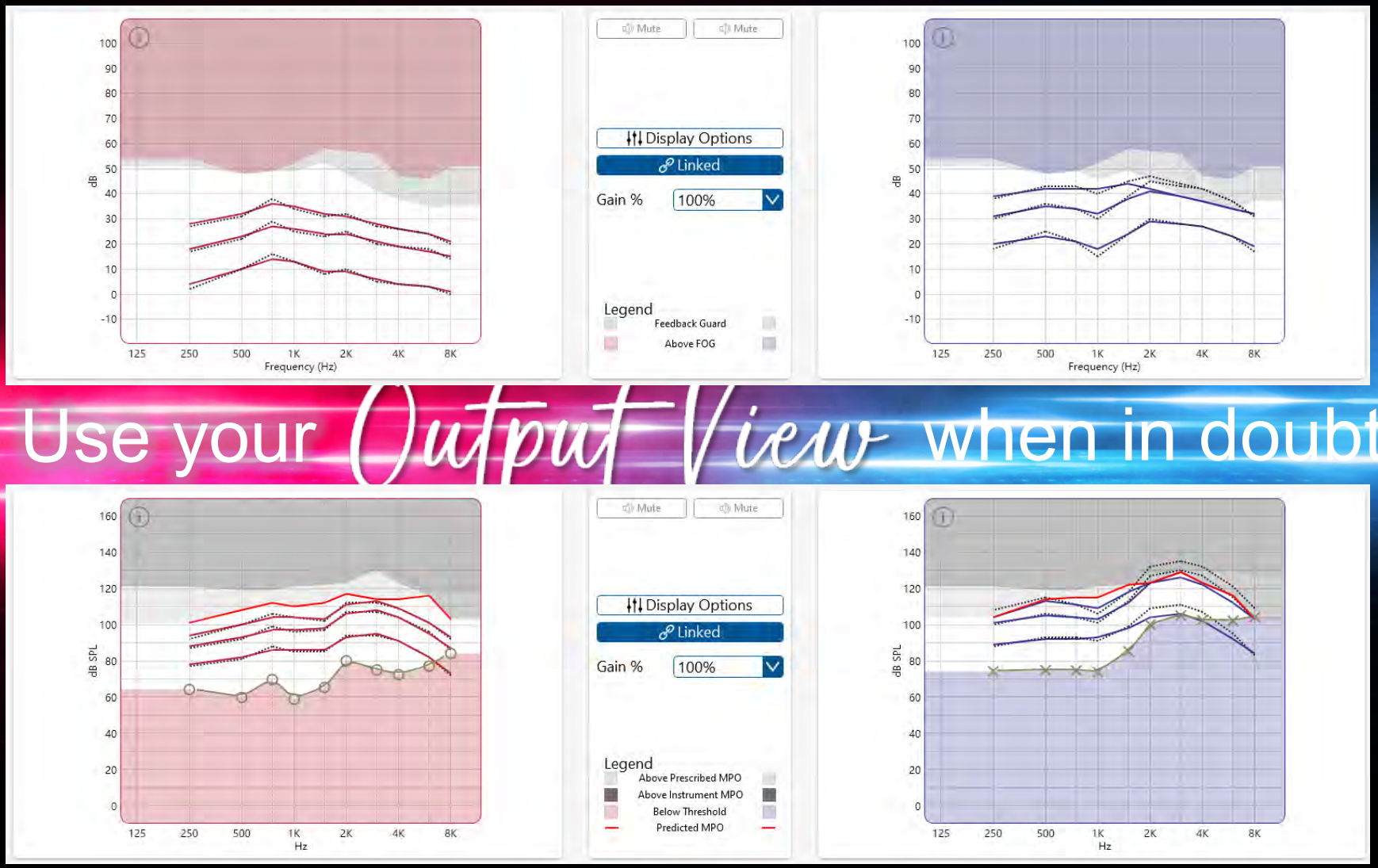


Presented in partnership with



Presented in partnership with

continued

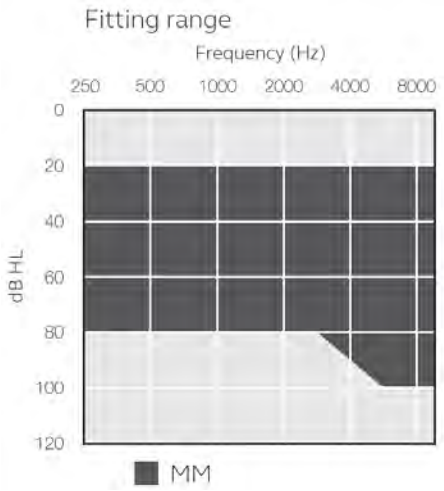


Presented in partnership with

continued

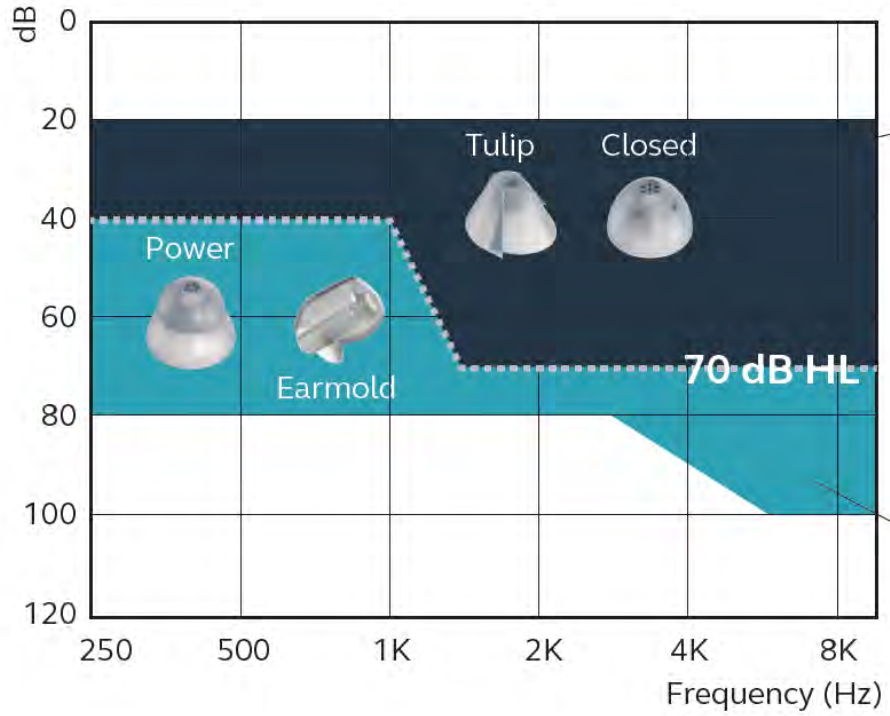
Microphone & Receiver In Ear

Abbreviations	• M&RIE (pronounced “Marie”) • MM (Beltone Solus Max)
Available Options	• Single gain option: 53 dB • Lengths 0 - 4



Selecting the best dome

M&RIE



Best results are obtained with Closed or Tulip dome

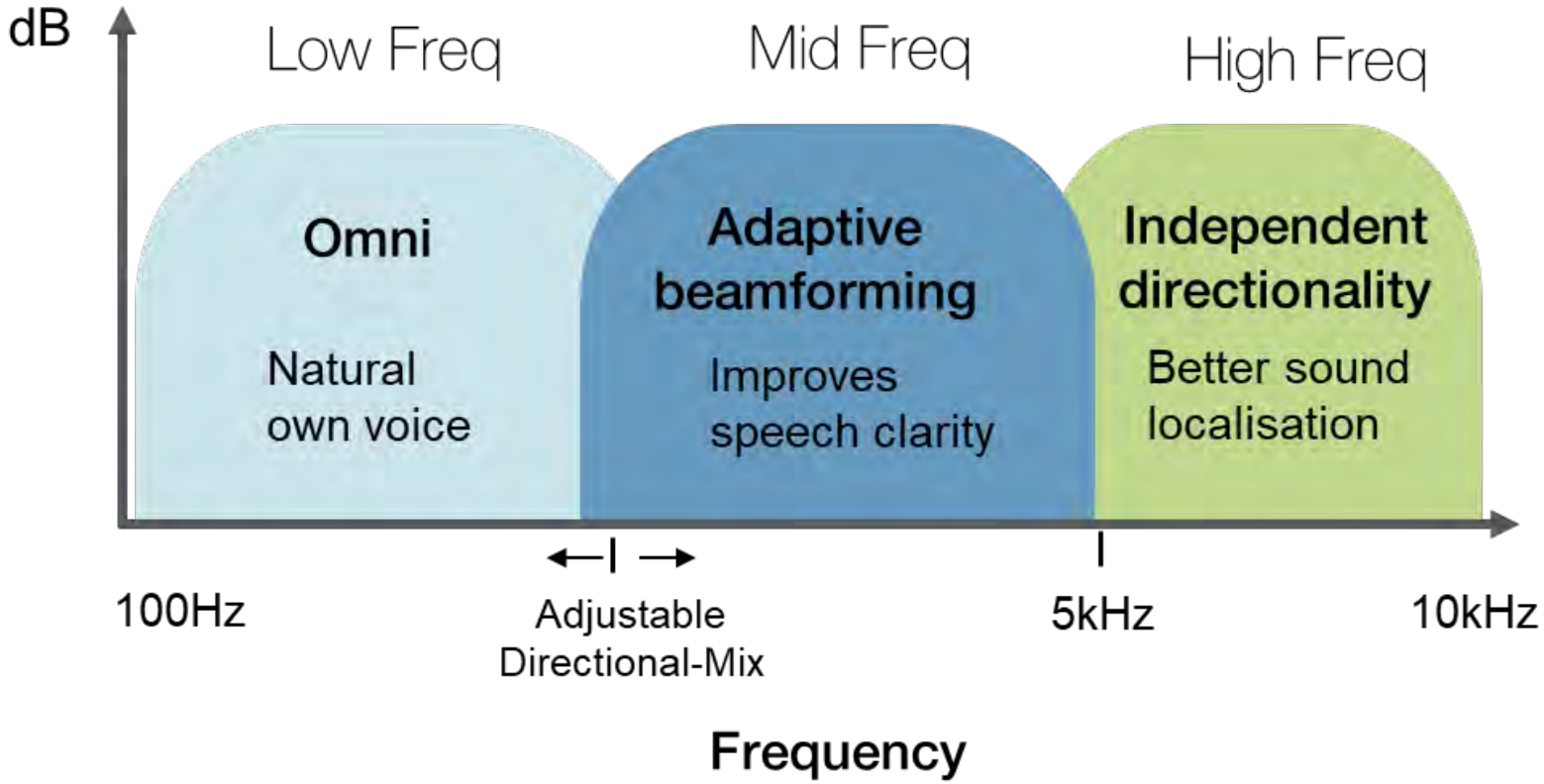
Tulip and Closed domes are rated equally good and provide the same degree of occlusion

Tulip and Closed domes increase available stable gain by approximately 3 dB relative to the Open dome

Power domes and earmolds are recommended for users with hearing loss within this range

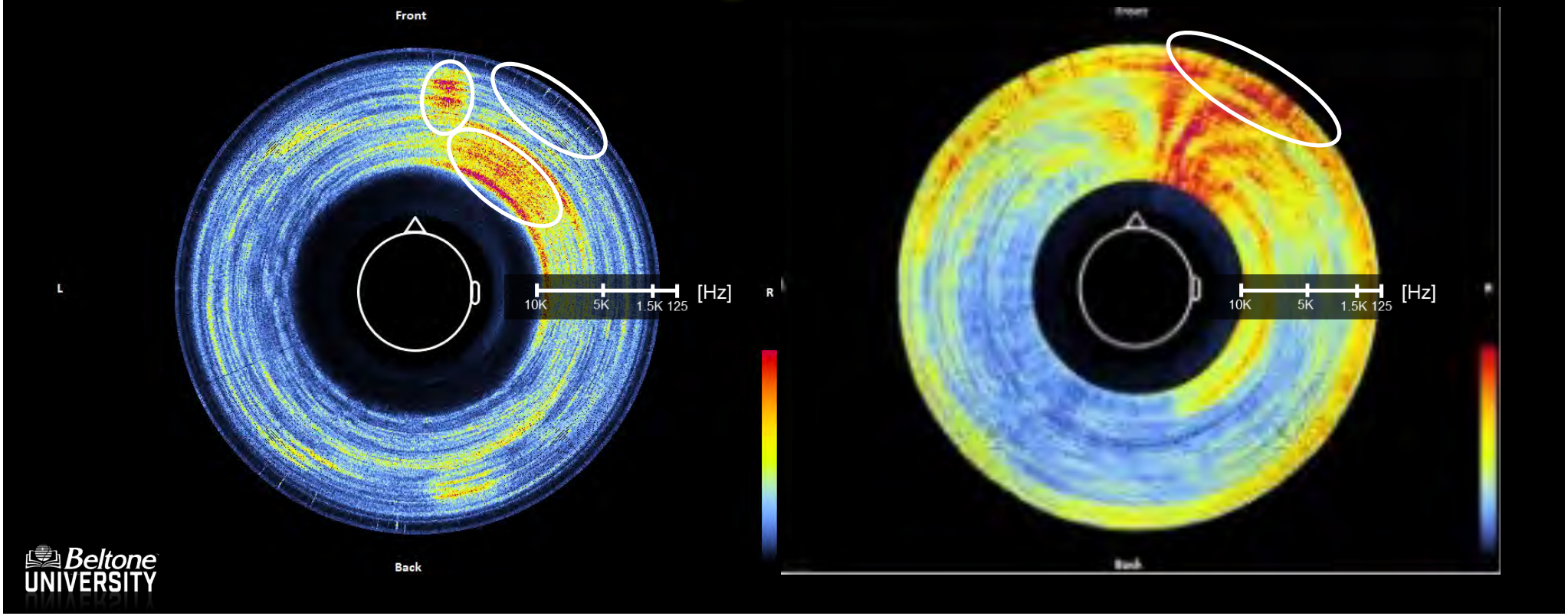
Earmolds are an excellent option for people with moderate-to-severe hearing loss

Bandsplit Directionality



Bandsplit

Directionality

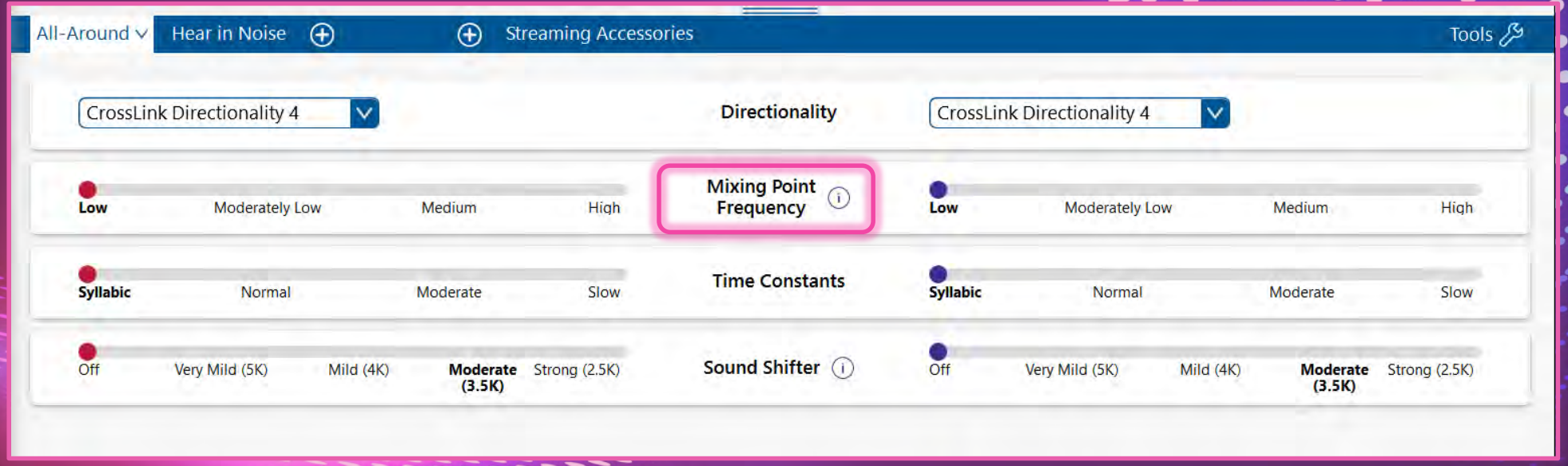


Beltone UNIVERSITY

Presented in partnership with

continued

Mixing point options



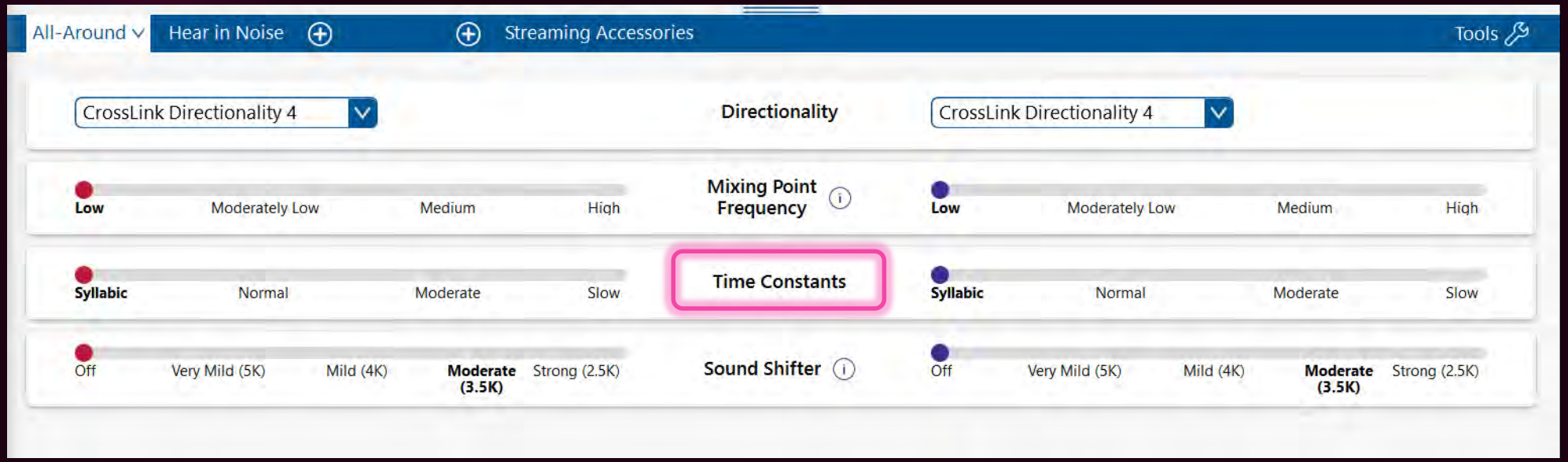
Beltone UNIVERSITY

Presented in partnership with

continued

Time constant

Beltone UNIVERSITY



Presented in partnership with

continued

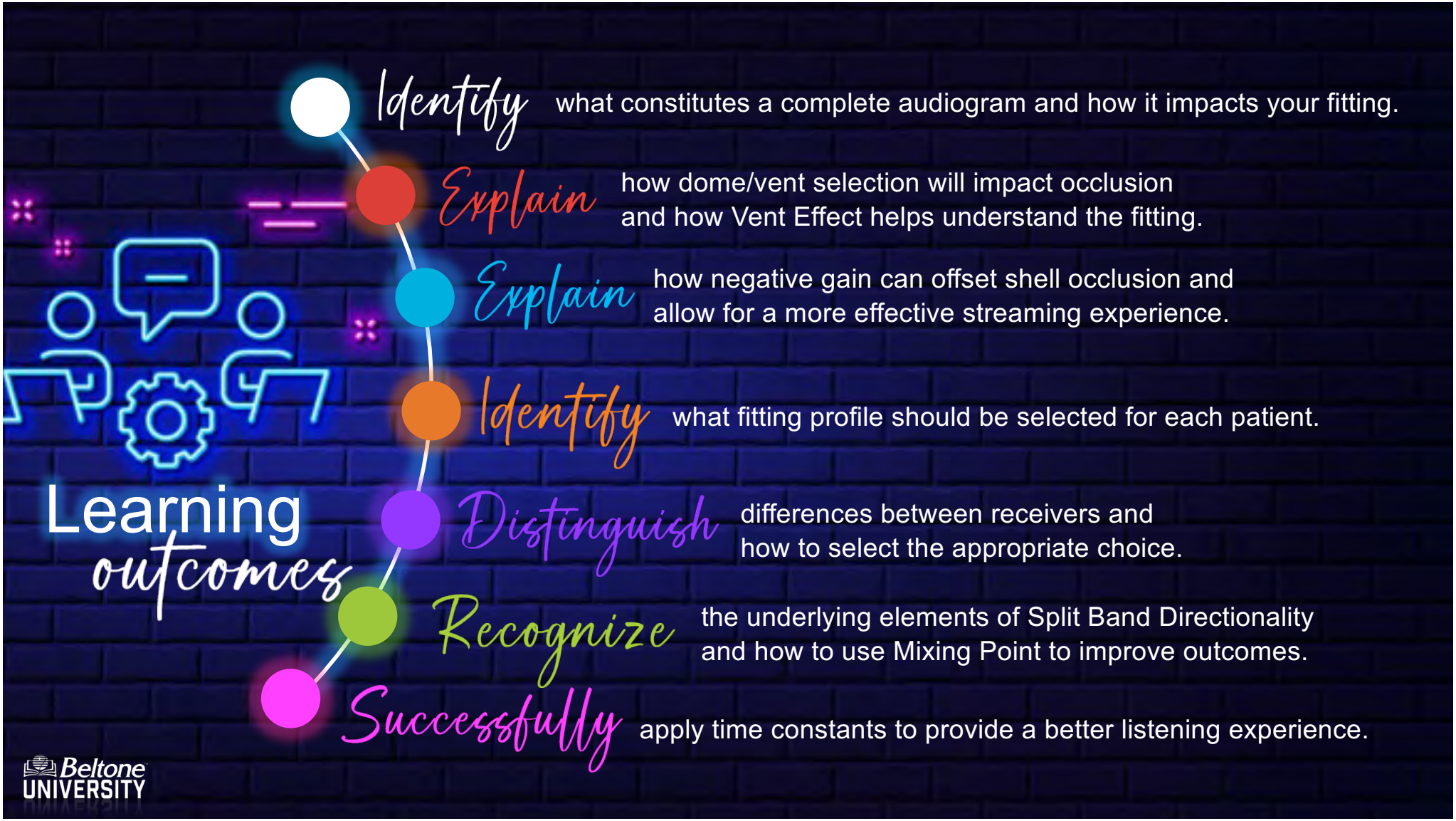
Conclusions and take aways

- Our field is built on science **but is perfected in the art**
- To improve the quality of streaming, **we can occlude more with Negative gain**
- Choosing the right receiver **can simplify your process**
- Changing the Mixing Point **can help your fitting but…**
- Occlusion, when properly used **is our friend, not our enemy**
- Fitting profiles can simplify acceptance **but have to be managed**
- Band split processing is **powerful and sets us apart**
- Time constants are a great tool **when used sparingly**

Beltone UNIVERSITY

Presented in partnership with

continued



Presented in partnership with

continued

Presented in partnership with

continued