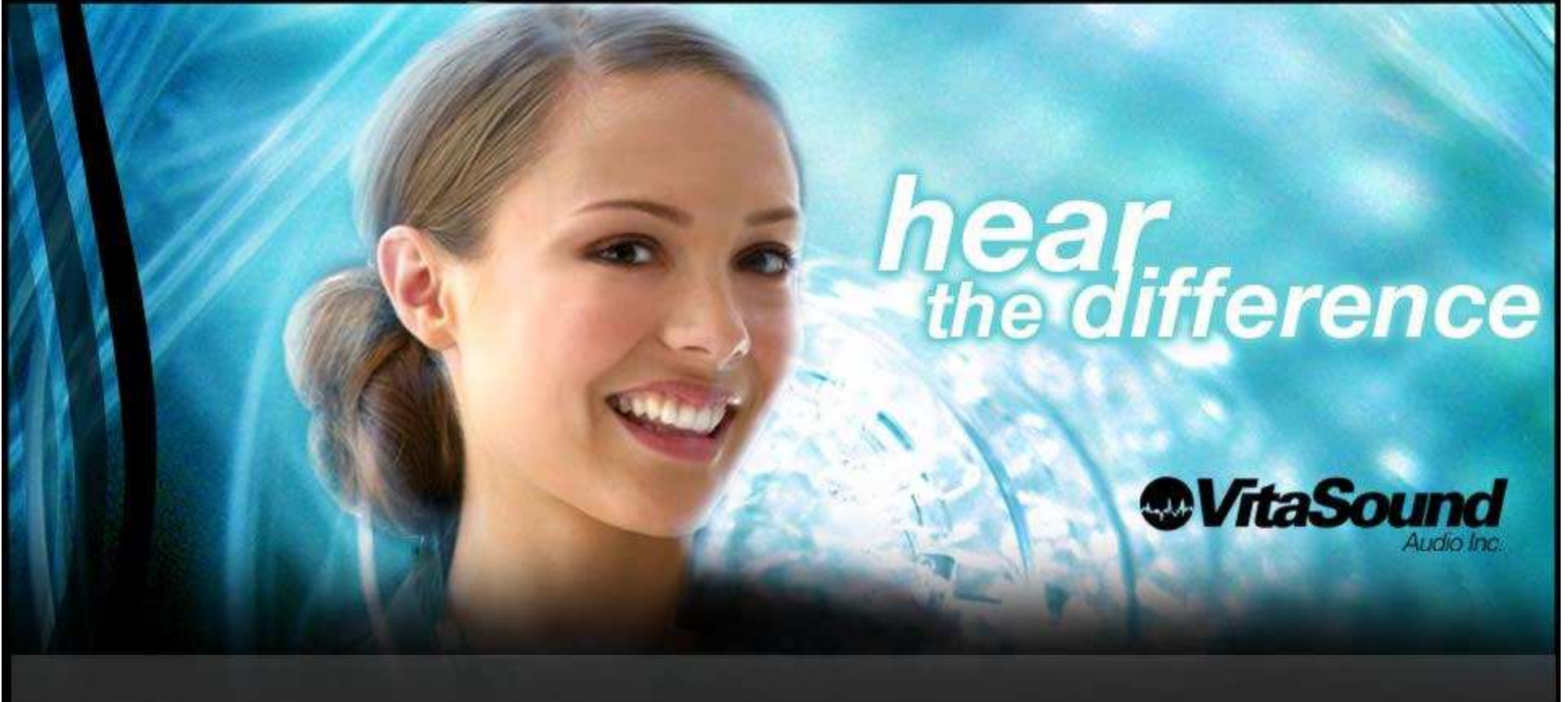


**VitaSound**  
Audio Inc.

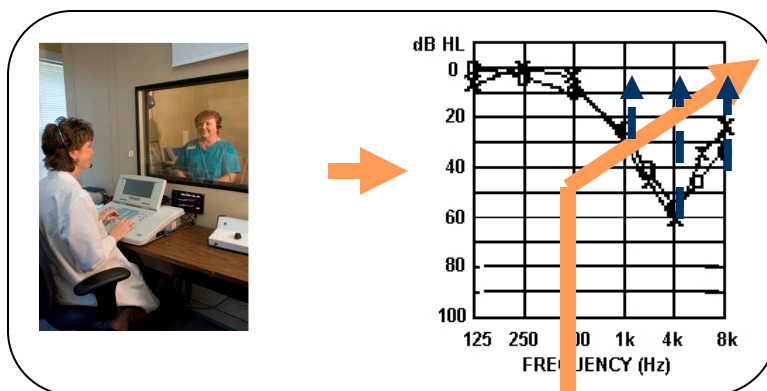
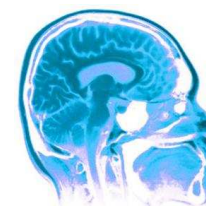
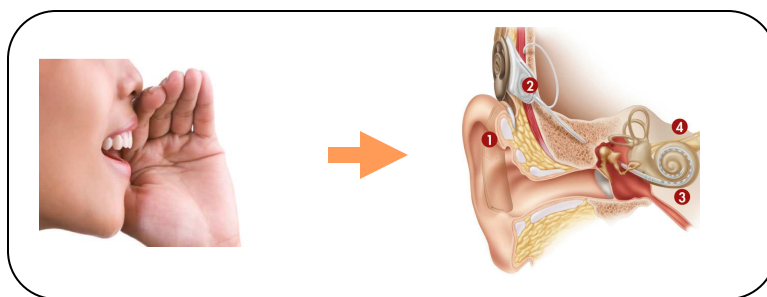


Introducing

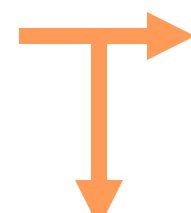
**NEURO-COMPENSATOR™**

-  The concept  
How it works  
Auditory Model
-  Fitting methodology  
Custom amplification  
Fitting software
-  Higher performance

**1** The Concept: Finding the optimal amplification criteria

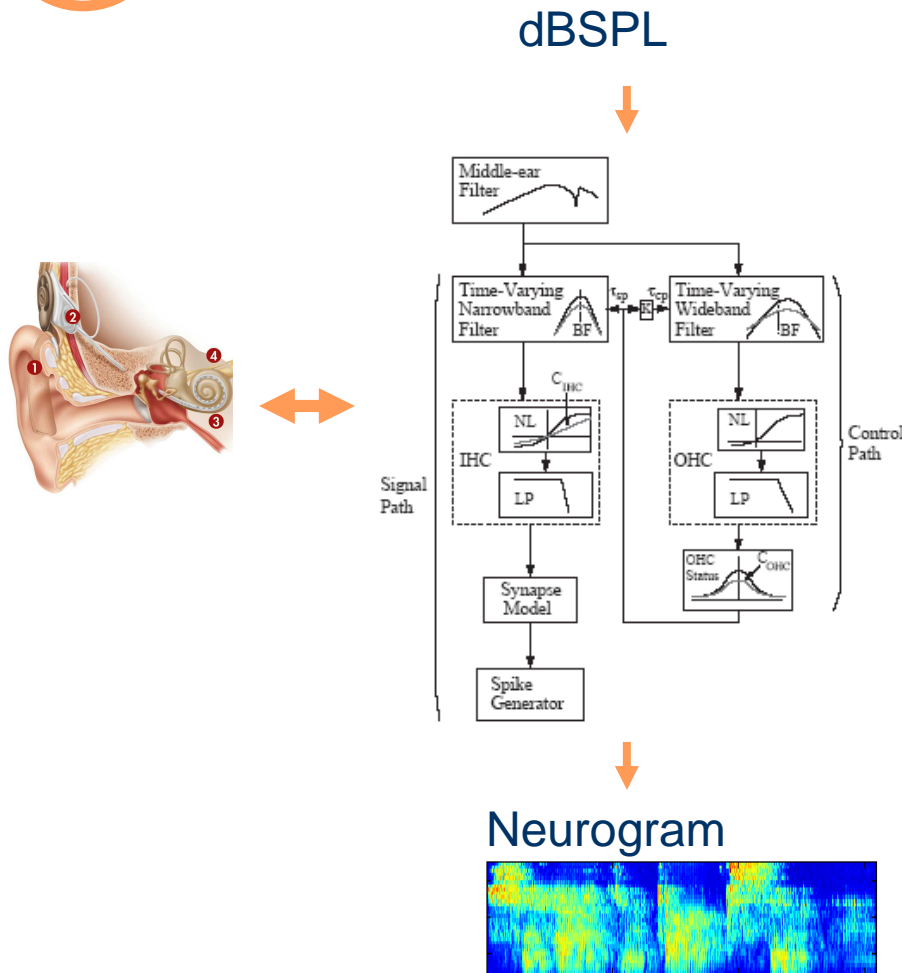


Amplification solely based on loudness compensation provides limited benefit



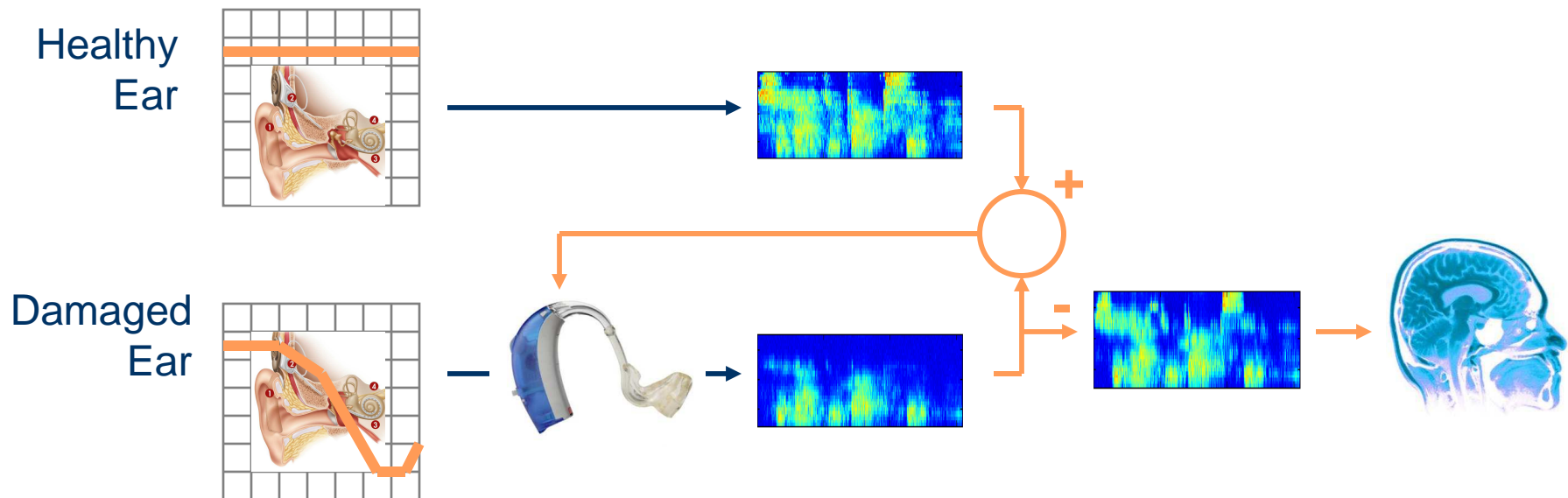
Having access to the nerve signal reaching the brain defines a whole new genre of hearing aid amplification technology

**1** The Concept: Auditory Model



- Patient's auditory model derived from audiogram
- Model converts sounds (dBSPL) into Neurograms
- Over two decades of Fundamental research
- Reproduces all functions of the auditory system from the middle ear to auditory nerve
- Captures a range of phenomena due to hair cell nonlinearities

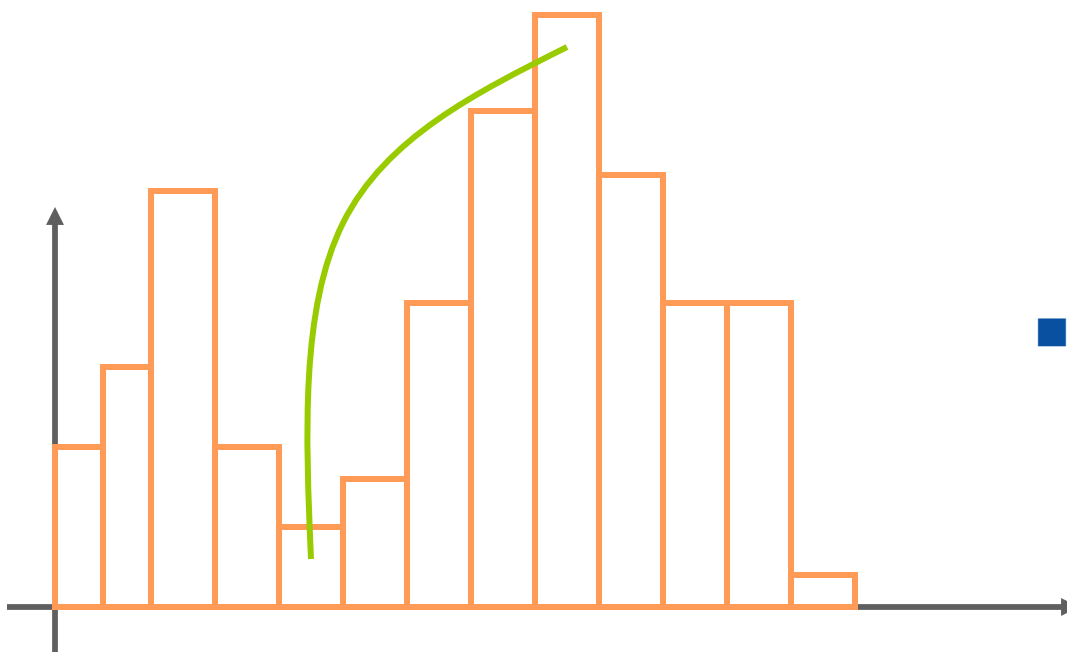
**1** The Concept: How the Neuro-Compensator works ?



Machine-learning algorithm minimizes error between healthy and damaged ear models, so as to enforce an optimal electrical output from the auditory nerve to the brain

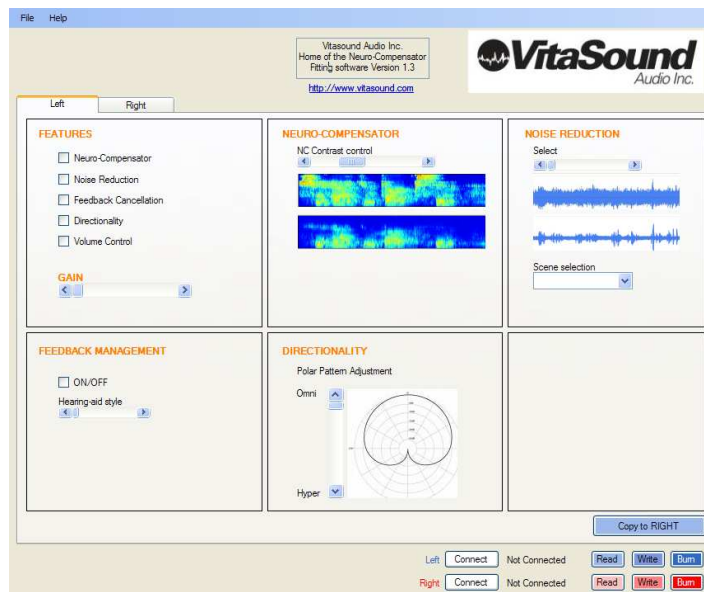
**2** Fitting Methodology  
Amplification algorithm

Gain in each band is affected  
by activities in all other bands



- Over two decades of Fundamental research
- Takes into account masking properties of the human ear (cross-frequency and cross-temporal interactions)
- Intense computation leads to custom amplification

**2** Fitting Methodology  
Fitting software

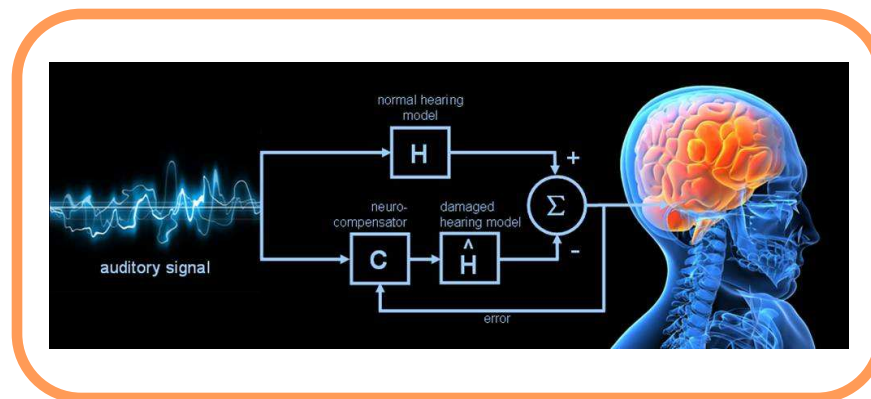


- Our approach: The prescribed **Neuro-Compensator amplification** is the sole feature that is responsible for fixing the hearing loss;
- Other features available to enhance sound quality: Noise reduction (up to 18dB noise attenuation), Directionality, Feedback management
- Fitting software: extremely simple and user-friendly Graphical User Interface

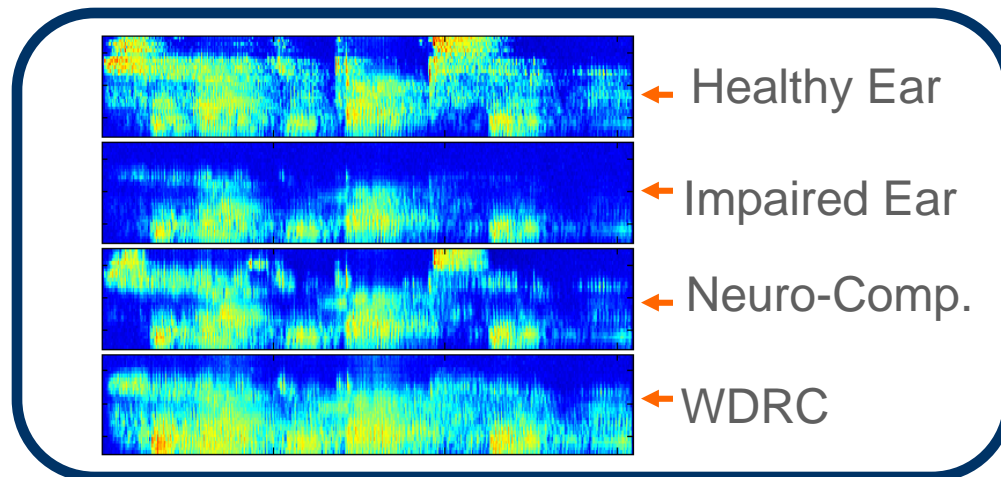
3

Higher performance

A patented hearing aid engine



Optimal sound reconstruction



3

## Higher performance



**Kelly T., Teacher**

*The Neuro-Compensator hearing aid greatly increased my ability to hear in 'crowded' situations - for example, a cocktail party, or out shopping with friends.*

*... I started appreciating the true "colors" of sound which are governed by the overtones at high frequencies that I lost ...*

*... Less 'canny' sound than my current hearing aid ...*

**Jim C., Media Consultant**

*The Neuro-Compensator provides a transparent sound well into the soprano range and I could hear better how the bass fitted into the harmonization.*



*... Clear sound, minimal wind noise, own voice perceived normal, high frequencies are more 'real' ...*

*... Crisp sound with less reverberation*