



Speaker disclosure

► Relevant financial relationships:

Candace Depp is an employee of Oticon, Inc. and receives a salary

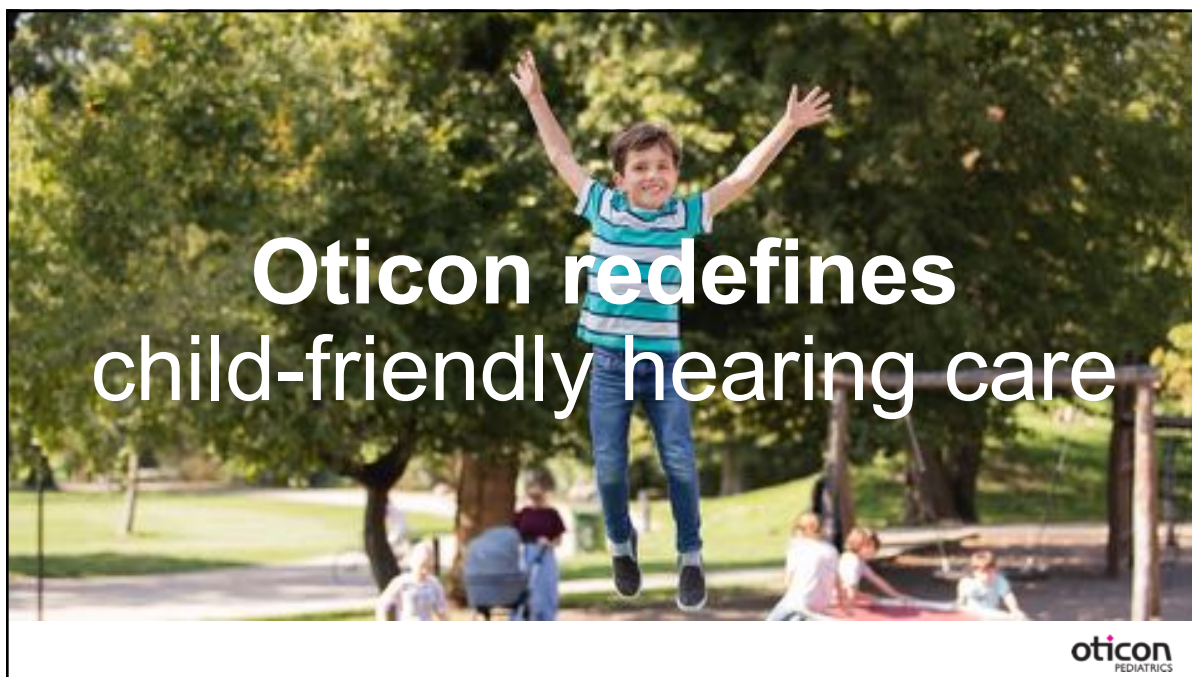
► Relevant nonfinancial relationships:

None



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The next step in the Oticon legacy

Oticon has a long history of making high-quality pediatric power instruments.



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Introducing Oticon Xceed Play



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The hearing aid that
opens up a child's world



OTICON | Xceed Play

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Pediatric insights

Optimal conditions for language development

- Children need **access to all sounds**
- Children need **to be connected**
- Children need **a reliable hearing aid**
- Children need **optimal gain with no risk of feedback**

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Facts about children and listening...

- Children live and learn in **noisy environments**
- Children **do not always look at the talker** when they listen*
- Children rely on overhearing for **incidental learning**

*Ricketts & Galster, 2008

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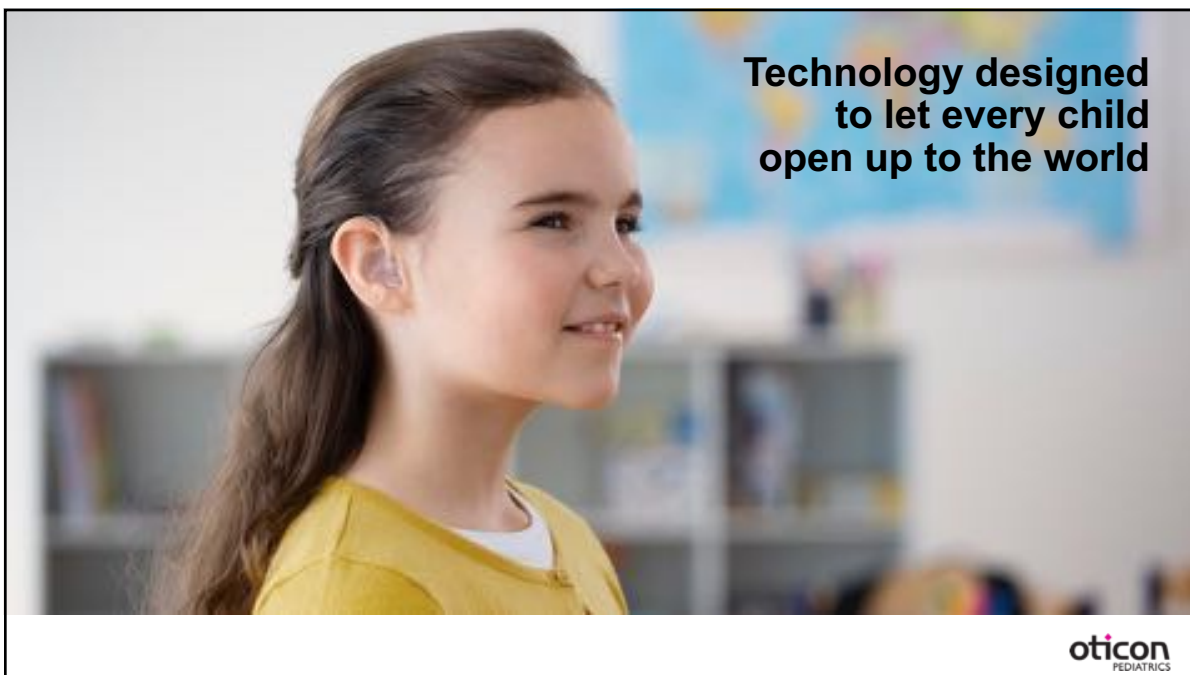
Oticon Xceed Play builds on the Oticon philosophy



Brainhearing
supports the natural
way children's brains
process sounds

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**Technology designed
to let every child
open up to the world**



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Velox S™ – power for BrainHearing™

The most advanced and powerful platform ever

- ▶ Industry leading gain and output
- ▶ 360° access to speech all day
- ▶ Speech enhancement features
- ▶ Excellent sound quality with 48 processing channels
- ▶ TwinLink™ wireless connectivity



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Powerful features



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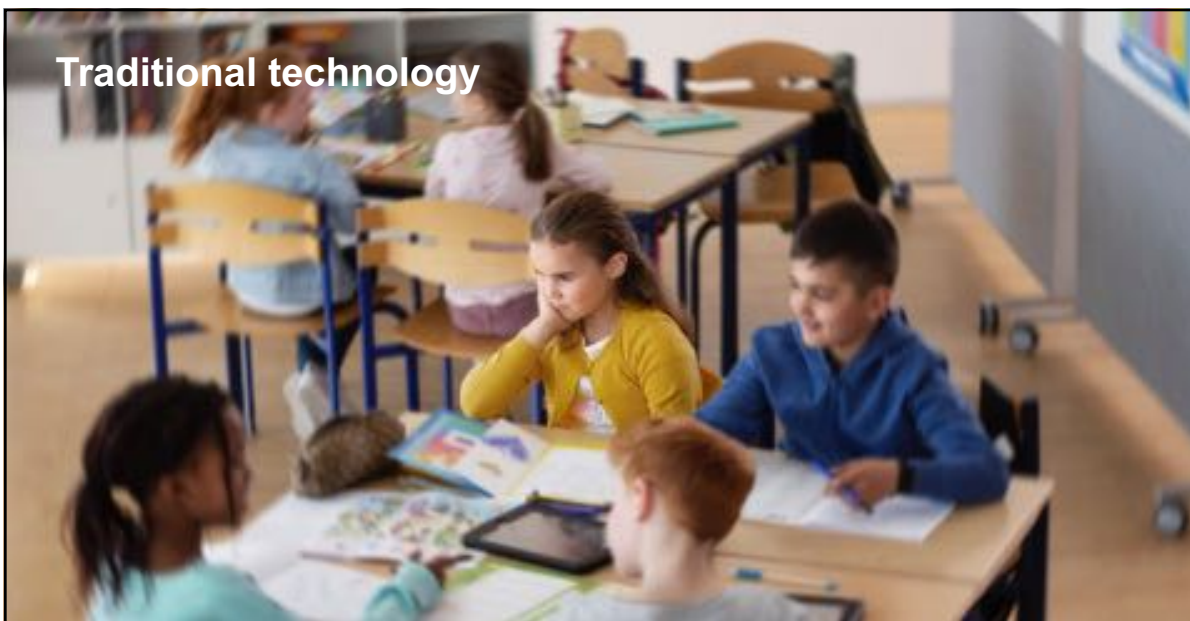
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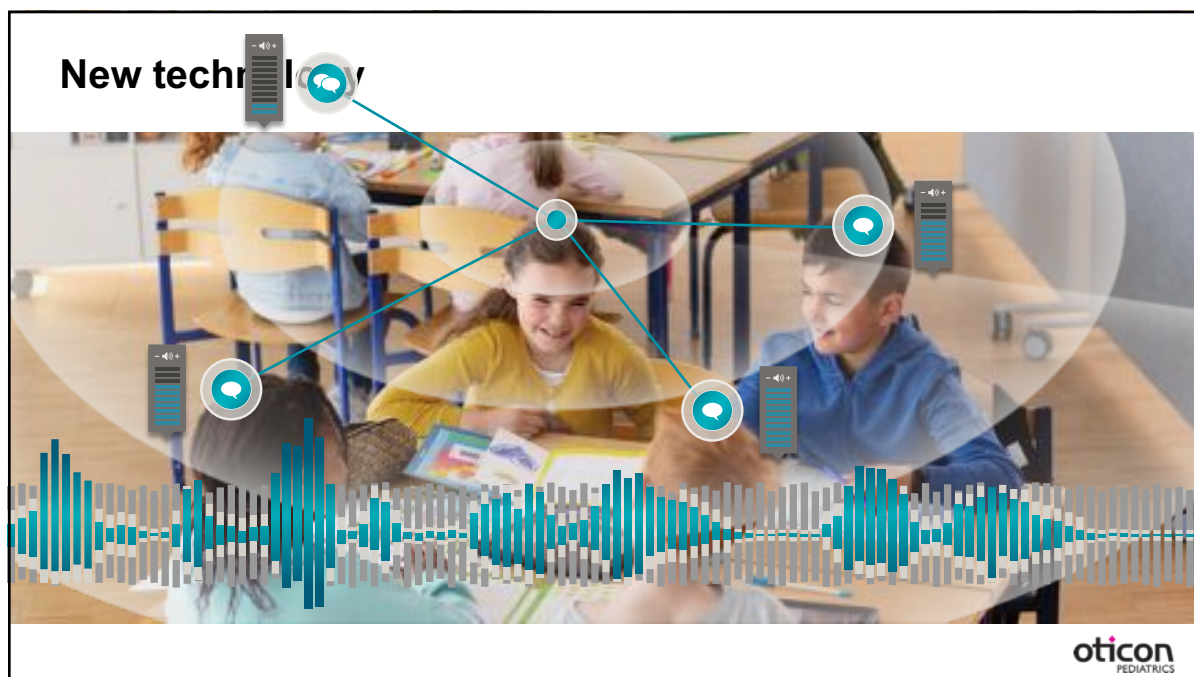
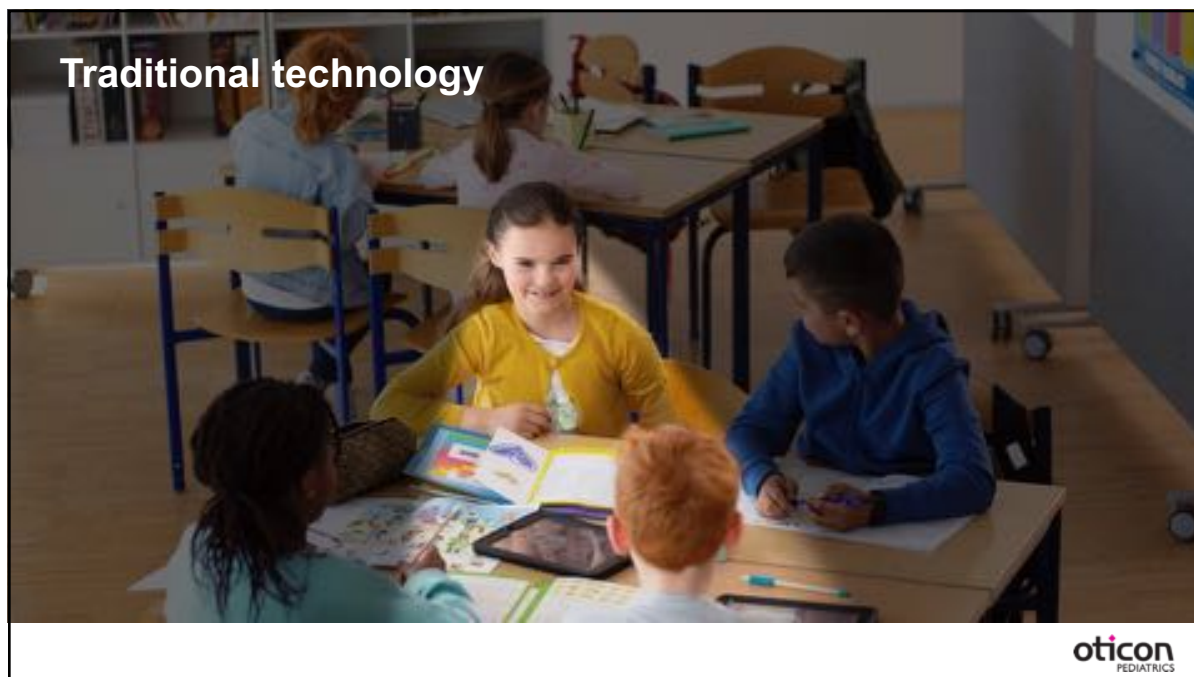
Traditional technology



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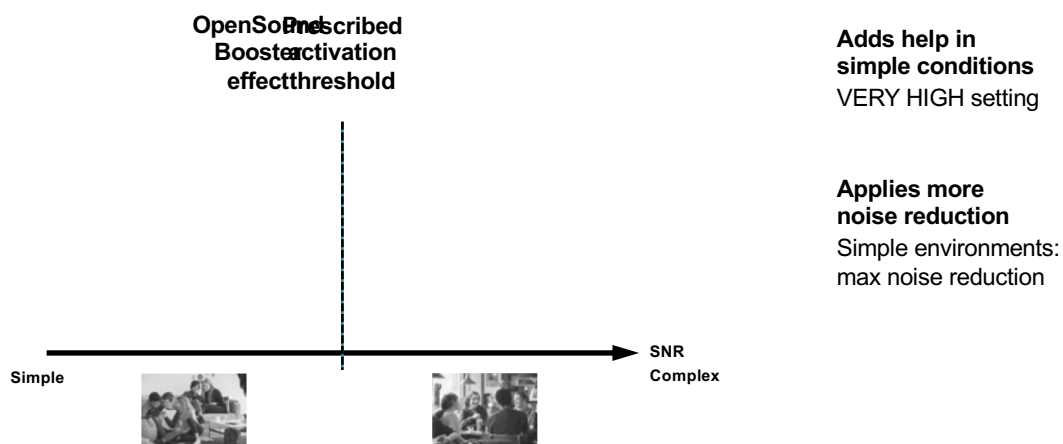


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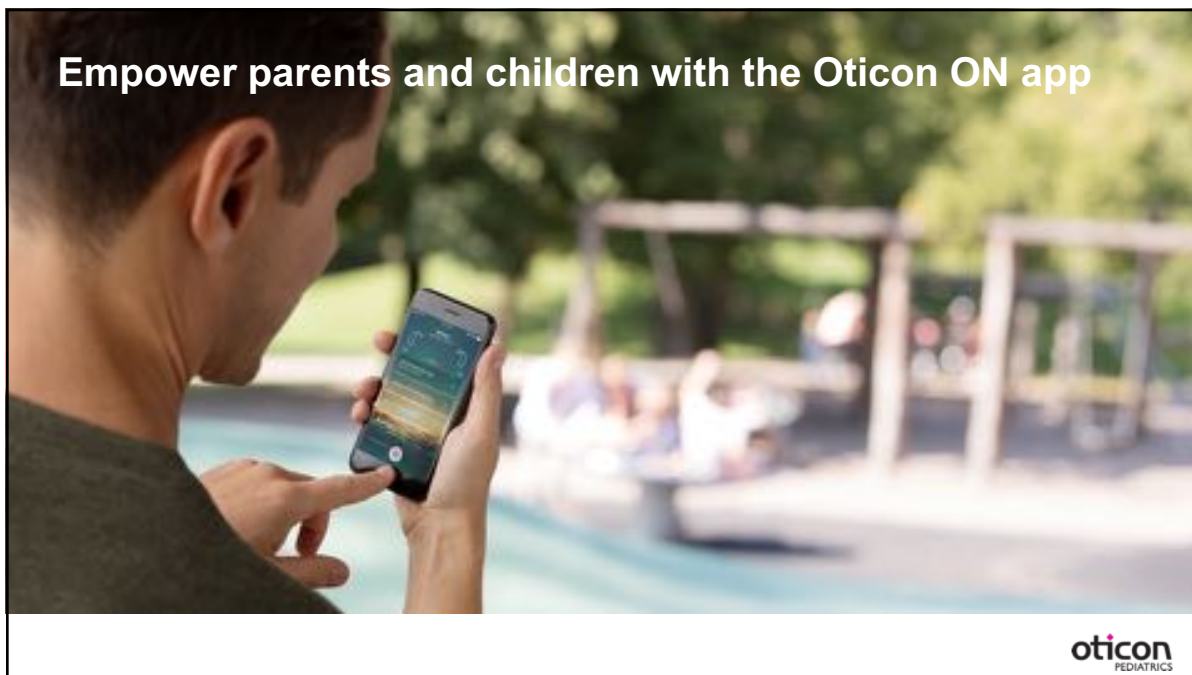
OpenSound Booster in Oticon ON App

Moving down the activation threshold for OpenSound Navigator



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Empower parents and children with the Oticon ON app



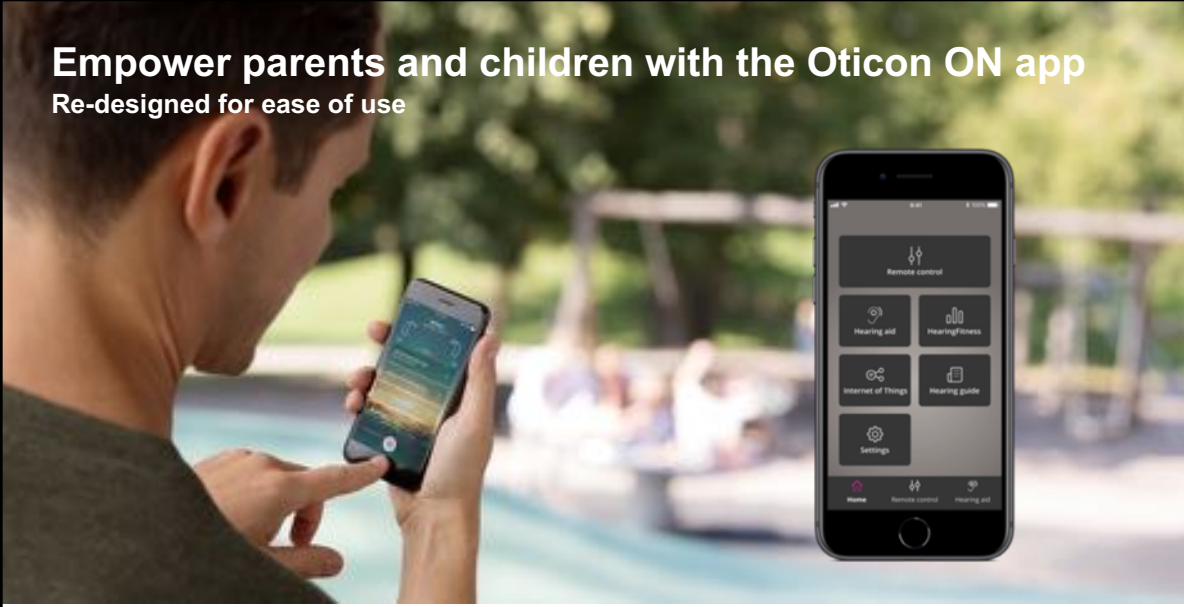
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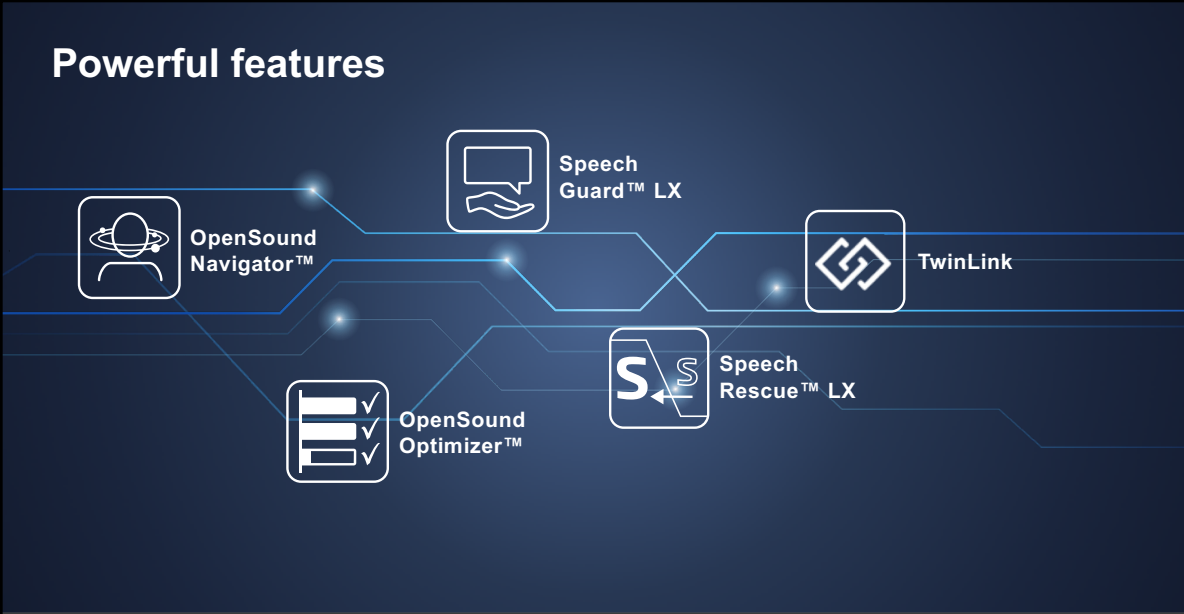
Empower parents and children with the Oticon ON app

Re-designed for ease of use



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Powerful features



- OpenSound Navigator™
- Speech Guard™ LX
- TwinLink
- OpenSound Optimizer™
- Speech Rescue™ LX

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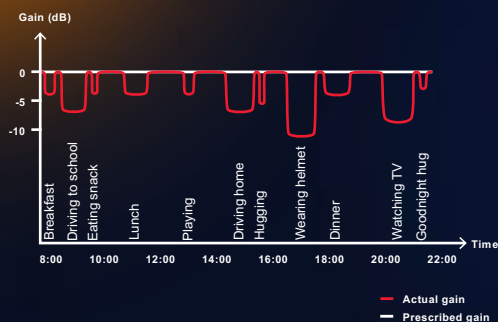
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OpenSound Optimizer

Delivers gain and prevents feedback from happening

Traditional hearing aids – examples



* Callaway 2019, Oticon Whitepaper

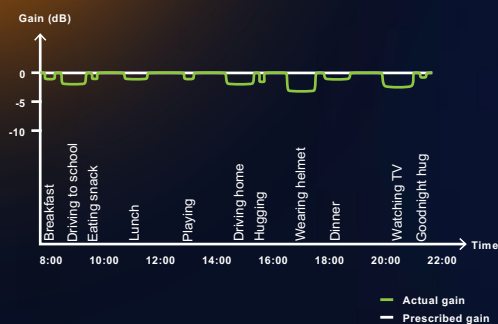
** Ng & Rumley 2019, Oticon Whitepaper

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OpenSound Optimizer

Delivers gain and prevents feedback from happening

Oticon Xceed Play – examples



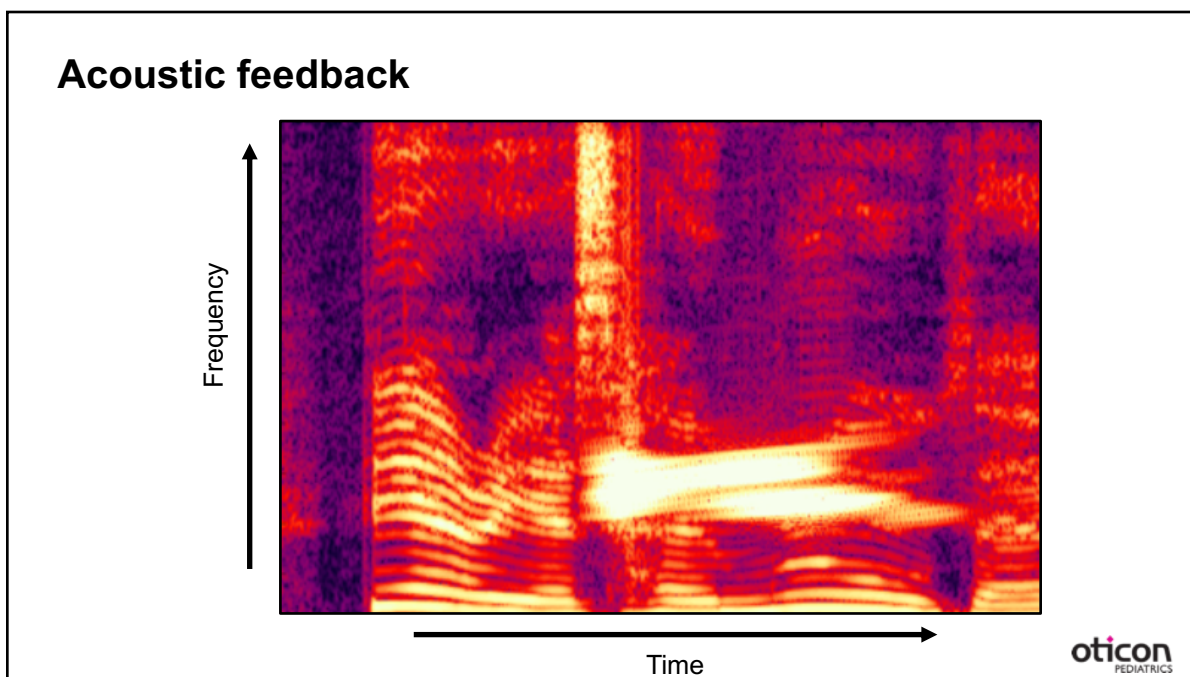
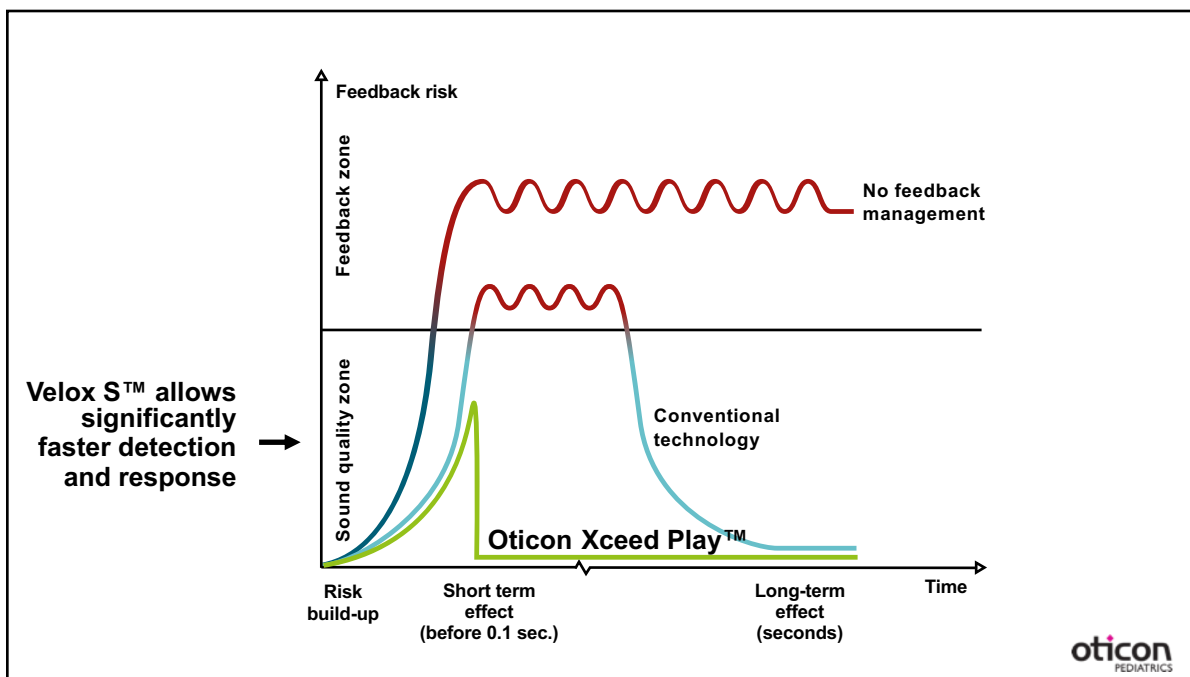
* Callaway 2019, Oticon Whitepaper

** Ng & Rumley 2019, Oticon Whitepaper

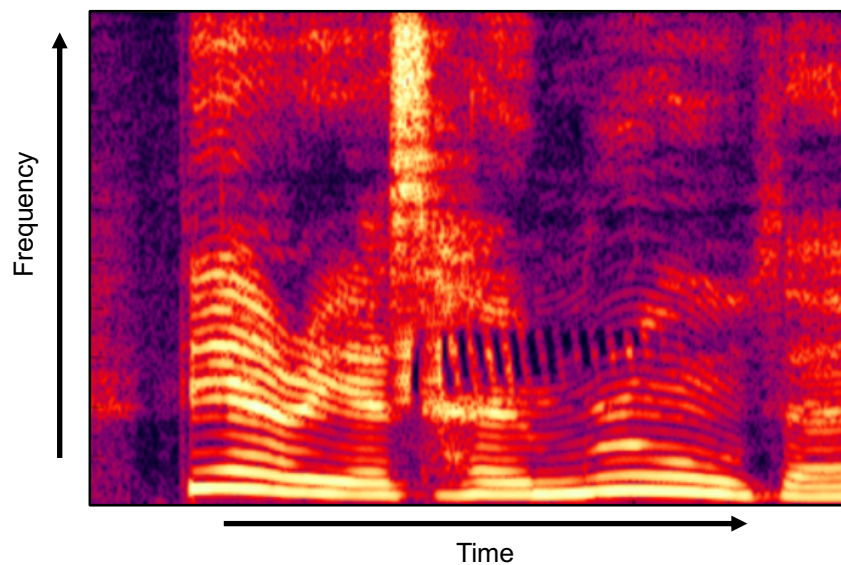
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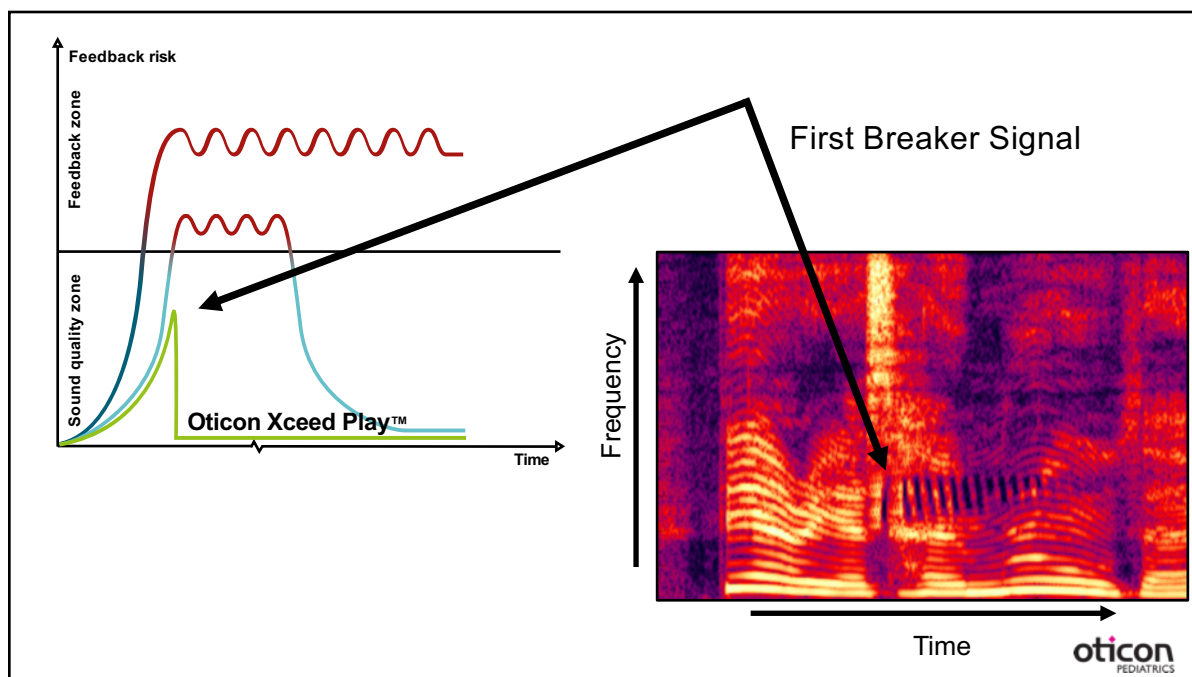
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Breaker Signals



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Feedback shield LX

Three technologies working together



Frequency shift

Phase inversion

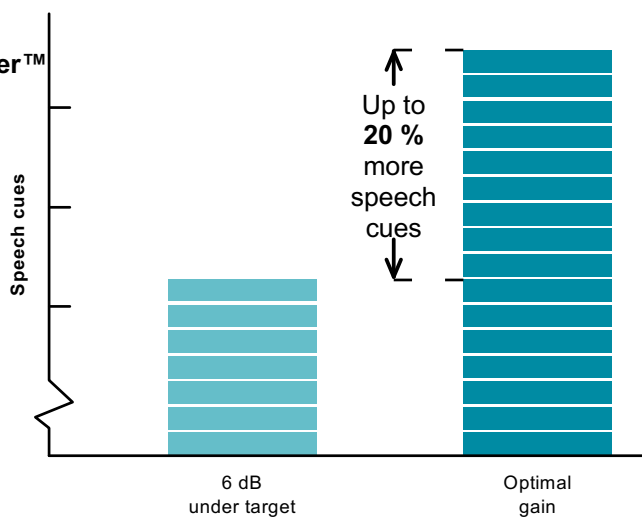
Gain control

- ▶ On each microphone
- ▶ 10 Hz frequency shift above 940 Hz
- ▶ always on

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Up to 20% more speech cues

Due to OpenSound Optimizer™



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Powerful features



OpenSound
Navigator™



Speech
Guard™ LX



TwinLink



OpenSound
Optimizer™



Speech
Rescue™ LX

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Powerful features



Speech
Guard™ LX

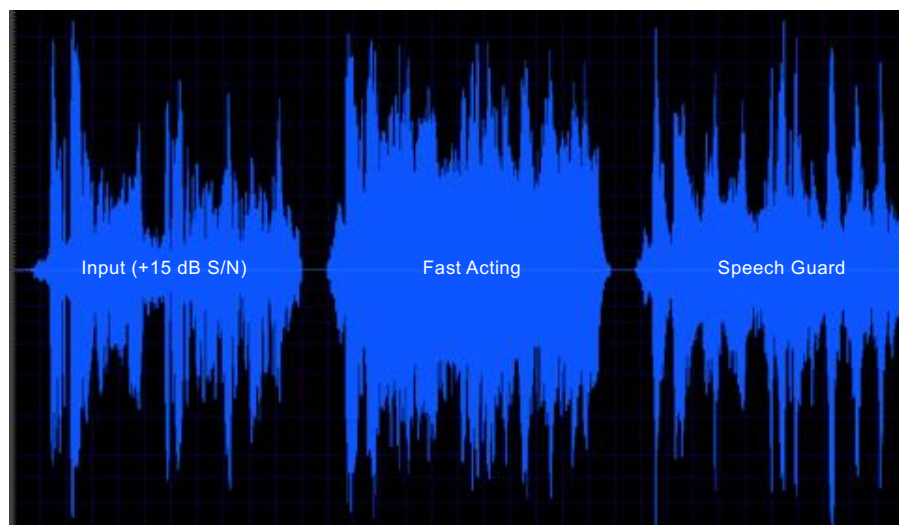


Speech
Rescue™ LX

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Speech Guard LX

- ▶ Preserve details of speech
- ▶ Keeping speech clear even in complex environments



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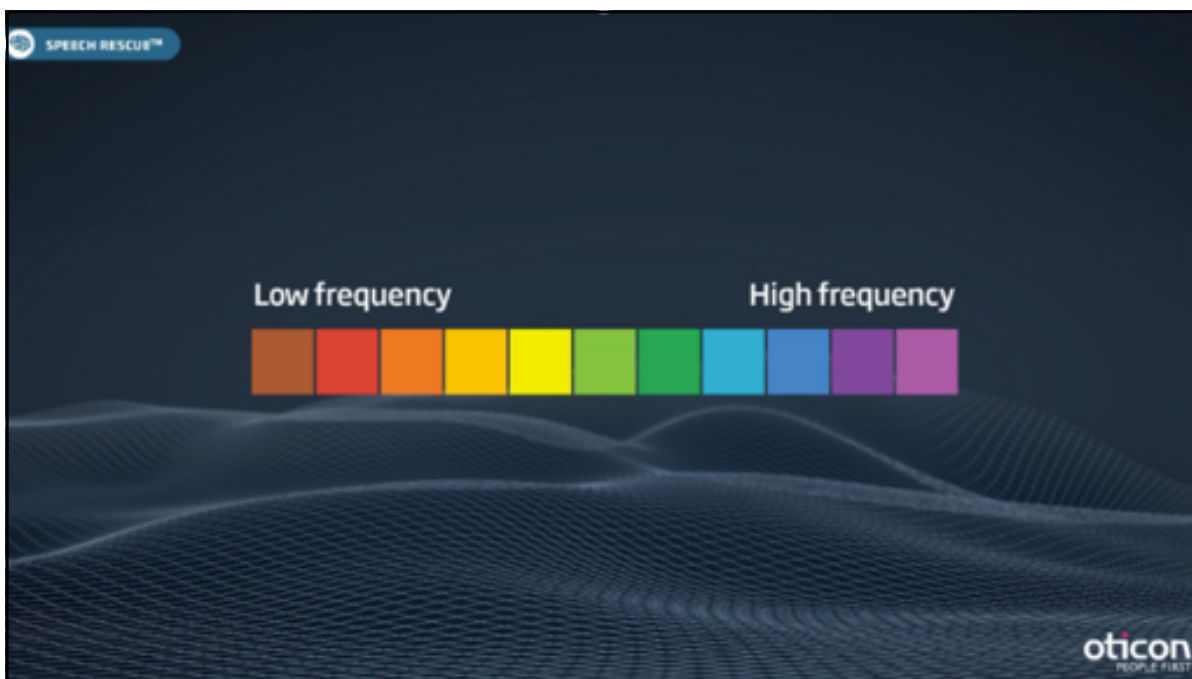
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Powerful features



Speech
Rescue™ LX

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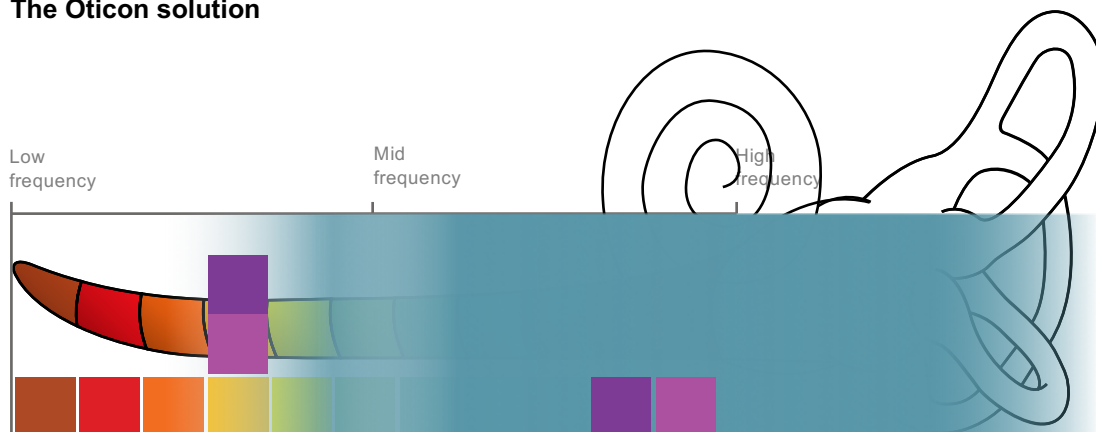


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Speech Rescue LX

The Oticon solution



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Default settings in Genie

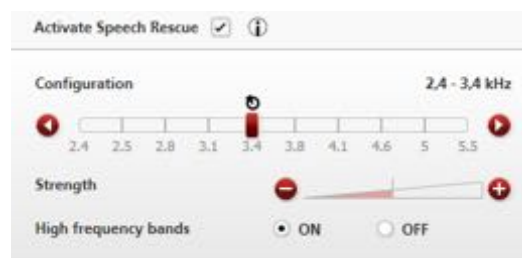
Children

Adults

► Default OFF

► Default OFF

Prescribed settings can be seen even when Speech Rescue is not activated

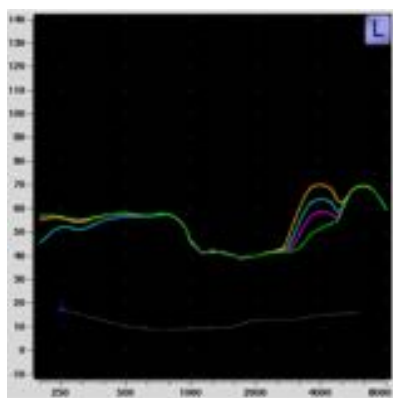


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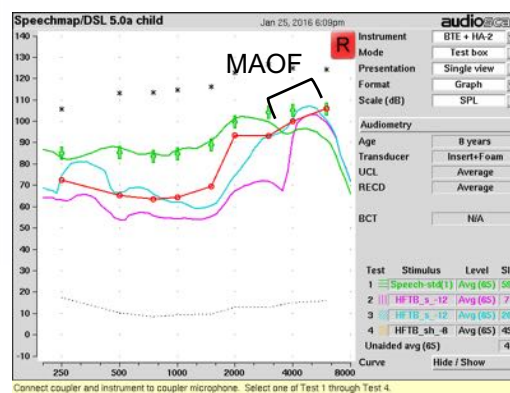
Strength of the signal



7 steps
approx. 2.5 dB each

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Speech Rescue Verification



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Speech Rescue LX

- ▶ Audibility to hear more speech details
- ▶ Copy and keep method – nothing is removed
- ▶ Utilizes the natural occurring available spaces in speech with no interference to signal below 1600Hz.



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Powerful features



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Two communication systems in one hearing solution


TwinLink
NFMI + 2.4 GHz




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TV




Oticon ON App




ConnectClip




Music



Computer



Landline phone



Remote Control

**Connect wirelessly
to the world**

An extensive
range of
connectivity

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A full range of easy-to-use classroom solutions



Works with any modern smartphone

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Xceed Play 1



Xceed Play 2

Industry leading output and gain: 146 dB SPL MPO and 87 dB full-on gain

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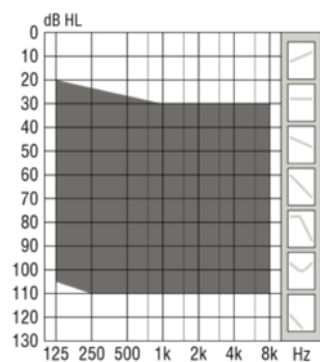
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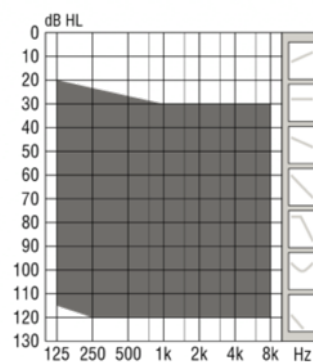
BTE SP and BTE UP fitting ranges

For severe and profound hearing losses

110



120



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12 colors to meet the needs of most children



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Designed to stand up to the test of childhood

- ▶ Tamper-resistant options
- ▶ IP68-certified
- ▶ LED indicator



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Keeping batteries away from curious fingers

Oticon tamper resistant battery drawers (TARs)

Obligatory for children below the age of 3

Locked and unlocked easily using a small tool



Oticon's TAR is compliant to IEC 60601-2-66:2012

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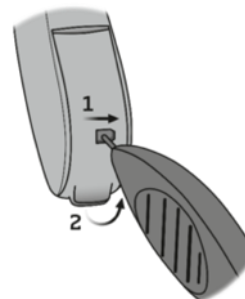
How to lock and unlock the TAR?



Close the battery drawer and make sure it is locked



Use the small tool (BLUE pin tool)



1. Insert and move the pin to the right and hold it
2. Open the battery drawer

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Free of allergens

Meeting international standards on biocompatibility

- ▶ Oticon Xceed Play is hypoallergenic
- ▶ Tested for more than 200 potential harmful substances, such as
 - ▶ Phthalates
 - ▶ Latex
 - ▶ Nickel



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Oticon Xceed Play BTE Super Power



*Optional

Oticon Xceed / Xceed Play BTE Ultra Power

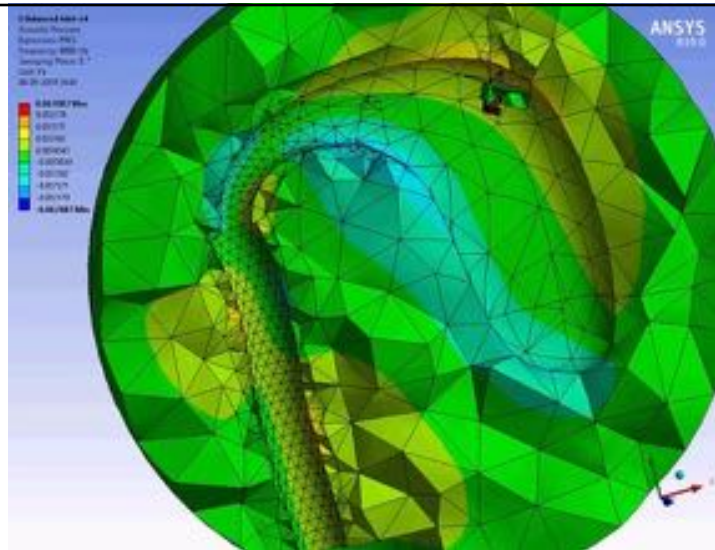


*Optional

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More stable performance

- ▶ Shell design
- ▶ Microphone inlet design
- ▶ Speaker suspension
- ▶ Placement of components

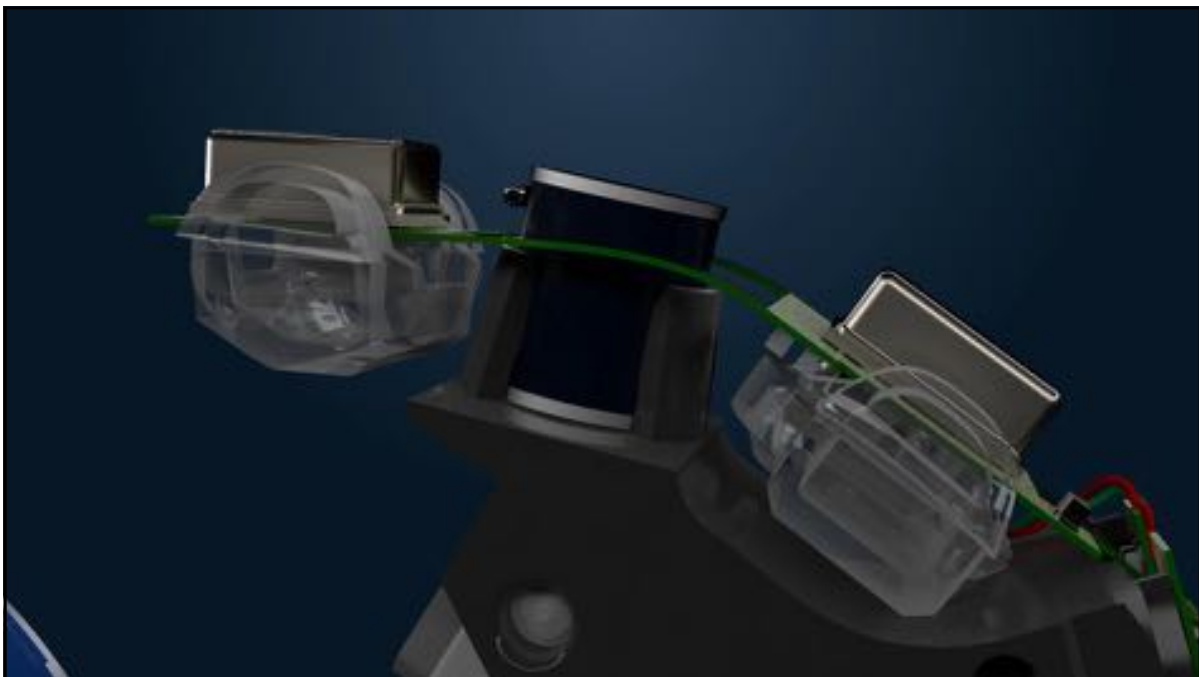


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Meeting the needs with Oticon Xceed Play

**Audibility with reduced
risk of feedback**



Help in noise



Connectivity



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A complete family of products



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What is single-sided deafness?

*"...single-sided deafness (SSD) is defined as **unaidable hearing in one ear and normal hearing or an aidable hearing loss in the other ear**"*

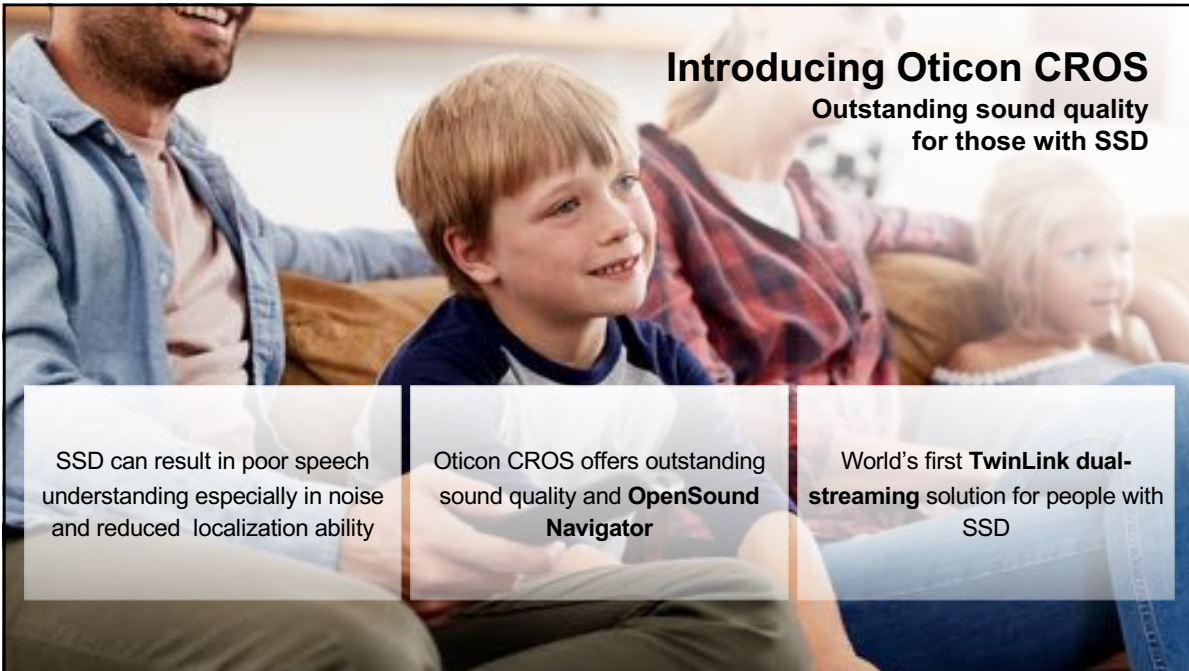


Taylor 2010

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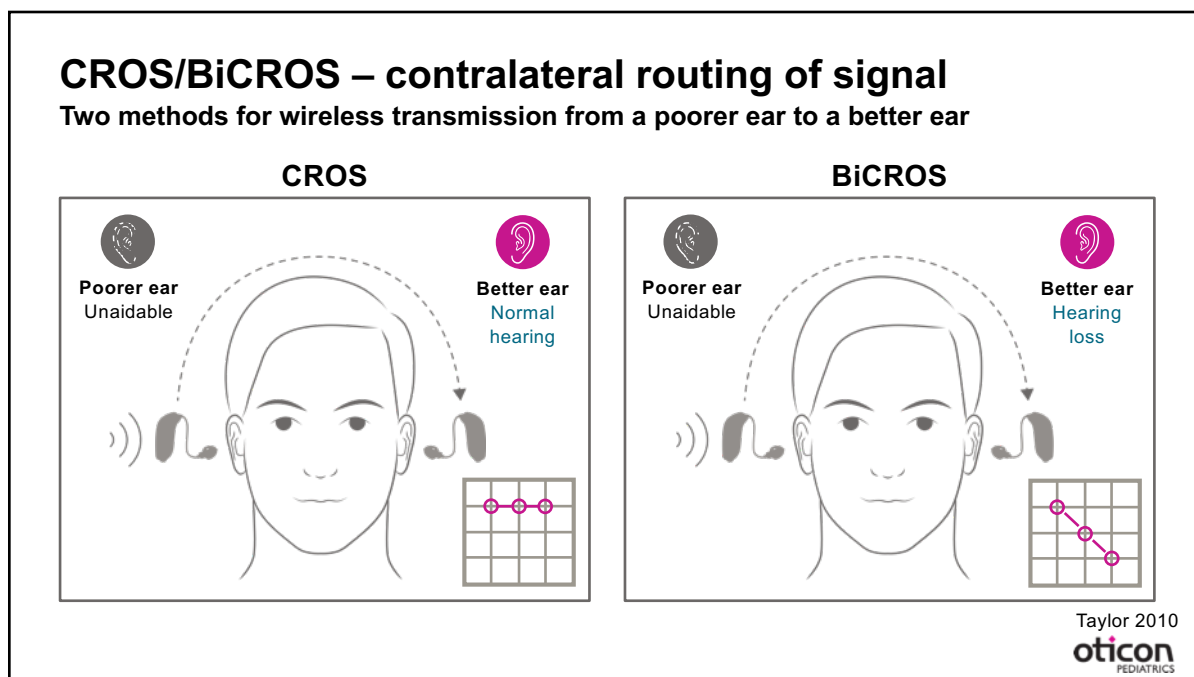
Introducing Oticon CROS

Outstanding sound quality
for those with SSD

SSD can result in poor speech understanding especially in noise and reduced localization ability

Oticon CROS offers outstanding sound quality and **OpenSound Navigator**

World's first **TwinLink dual-streaming** solution for people with SSD

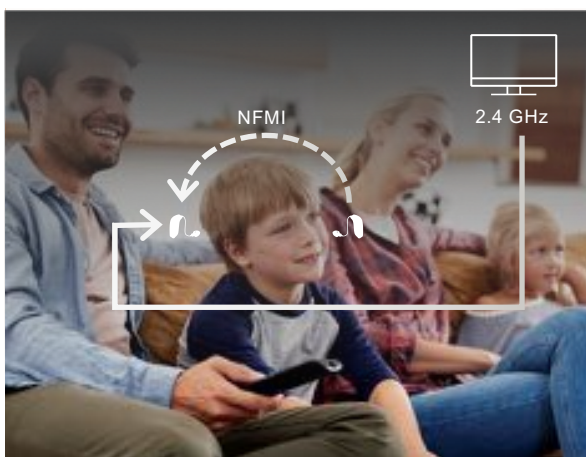
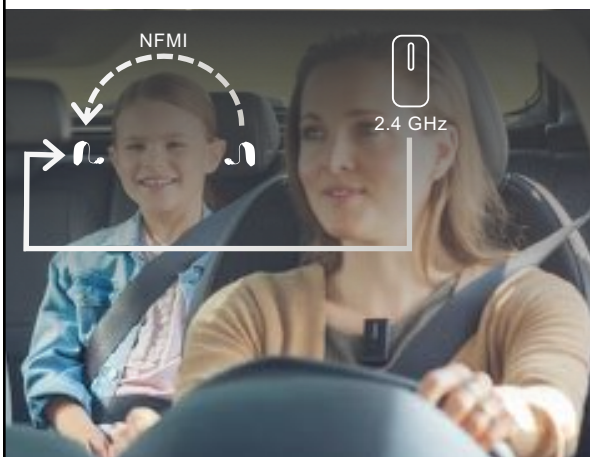


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Industry first - TwinLink dual streaming

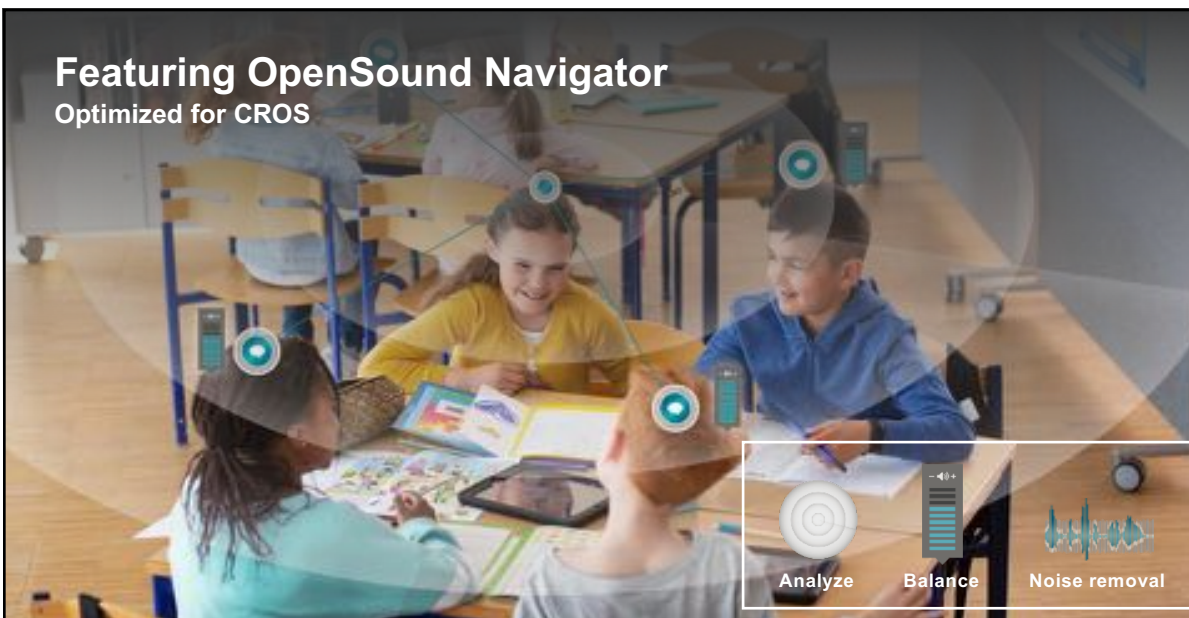
Receiver can simultaneously receive 2.4GHz and NFMI streamed signals



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Featuring OpenSound Navigator

Optimized for CROS



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Oticon CROS for kids?

- ▶ CROS is available and intended for children over 36 months
- ▶ No tamper resistant solution available
- ▶ Available in 7 standard colors only



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Bimodal fitting

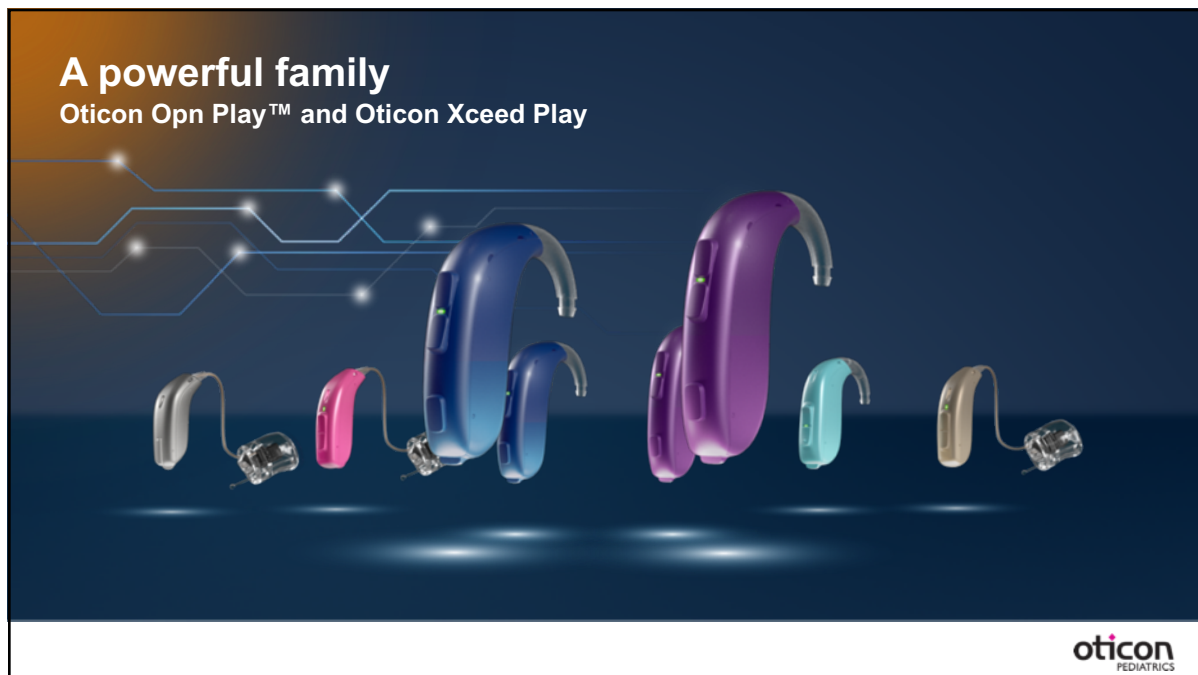
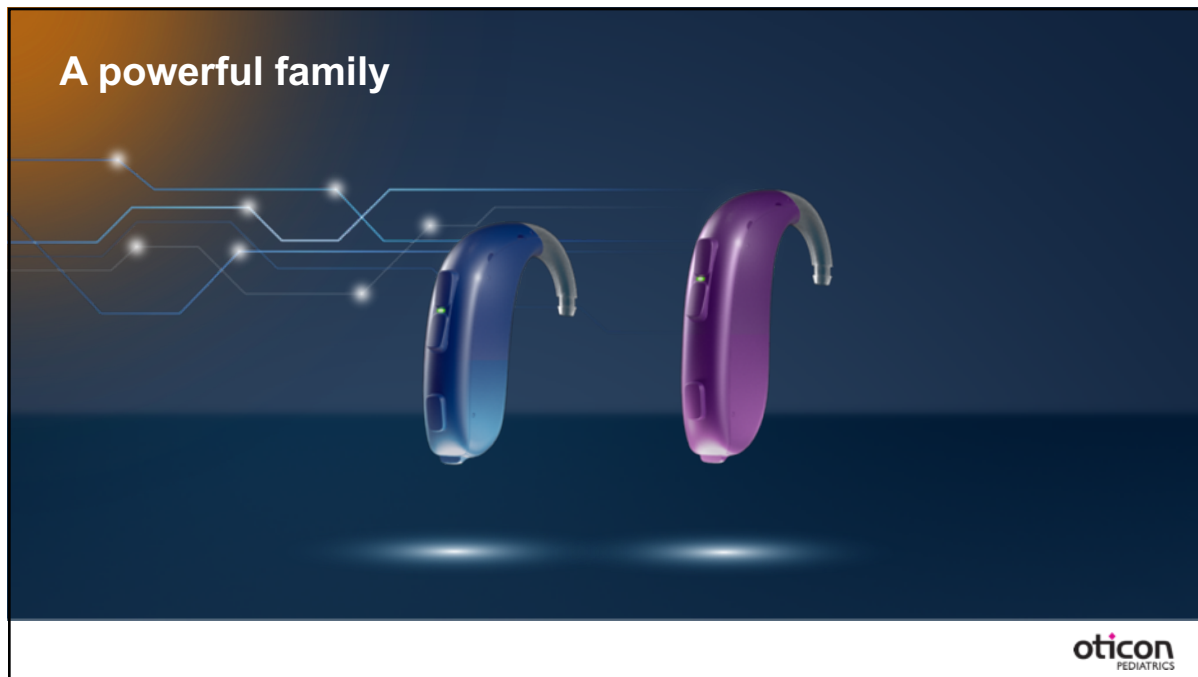
Perceptual advantage given by additional acoustic cues



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