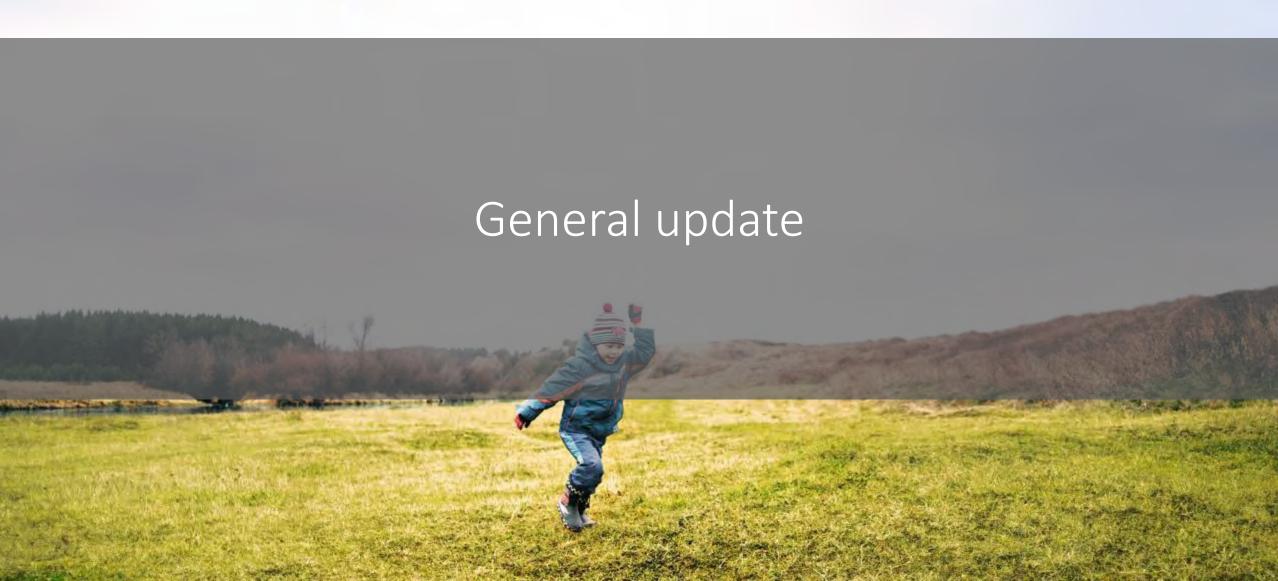




Agenda

- General update
- Hearing Devices
 - Oticon
 - Bernafon
 - Sonic
- Hearing Implants
- Diagnostic Instruments
- Q&A







H1 2017 highlights



Market share gains in wholesale of hearing aids, with organic growth of 11% driven by Oticon Opn

12%

Strong revenue growth of 12% with organic growth of 8% for the Group



24% organic growth in Hearing Implants driven by innovative product launches



10% organic growth in Diagnostic Instruments across most geographies and brands



EBIT increased by 28% to DKK 1,142 million, in spite of FX headwind of around DKK 70 million



EBIT guidance increased to DKK 2.3–2.6 billion from previously DKK 2.2–2.5 billion before restructuring costs of around DKK 175 million (previously DKK 200 million), despite the negative FX impact



Oticon





Oticon Opn – the result of true product innovation

...and a unique combination of world-class audiology, 2.4GHz connectivity and rechargeability in one device!

Audiology

- Audiology the key parameter
- Open sound paradigm vs. traditional directionality
- NFMI ear-to-ear communication
- Best-in-class

Connectivity

- 2.4GHz Bluetooth Low Energy-based connectivity
- Direct streaming through Made for iPhone® interface
- Audio streaming from all devices
- Internet-connected devices (IFTTT)

Rechargeability

- Improved flexibility for end-users
- Interchange between rechargeable and disposable batteries
- Upgrade of existing install-base

eHealth

- Enabling closer relationship between HCP and end-user
- Tool to improve efficiency in public systems
- Real-time video integration
- Current technologies still at early stages





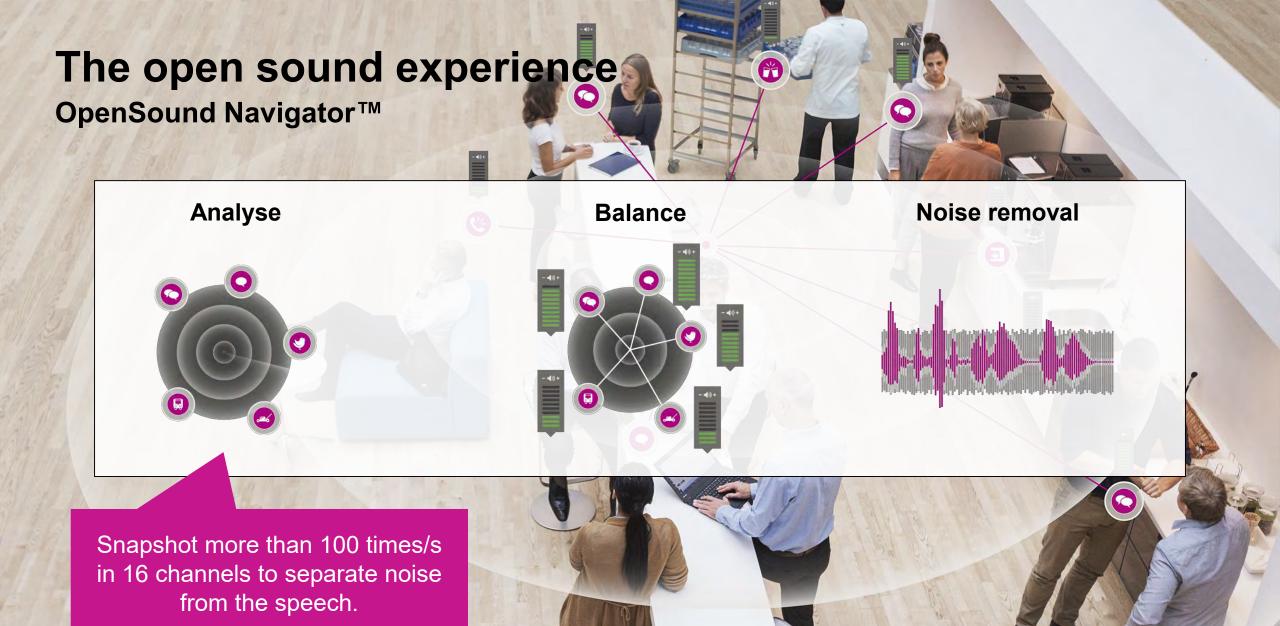
Oticon Opn

Trial

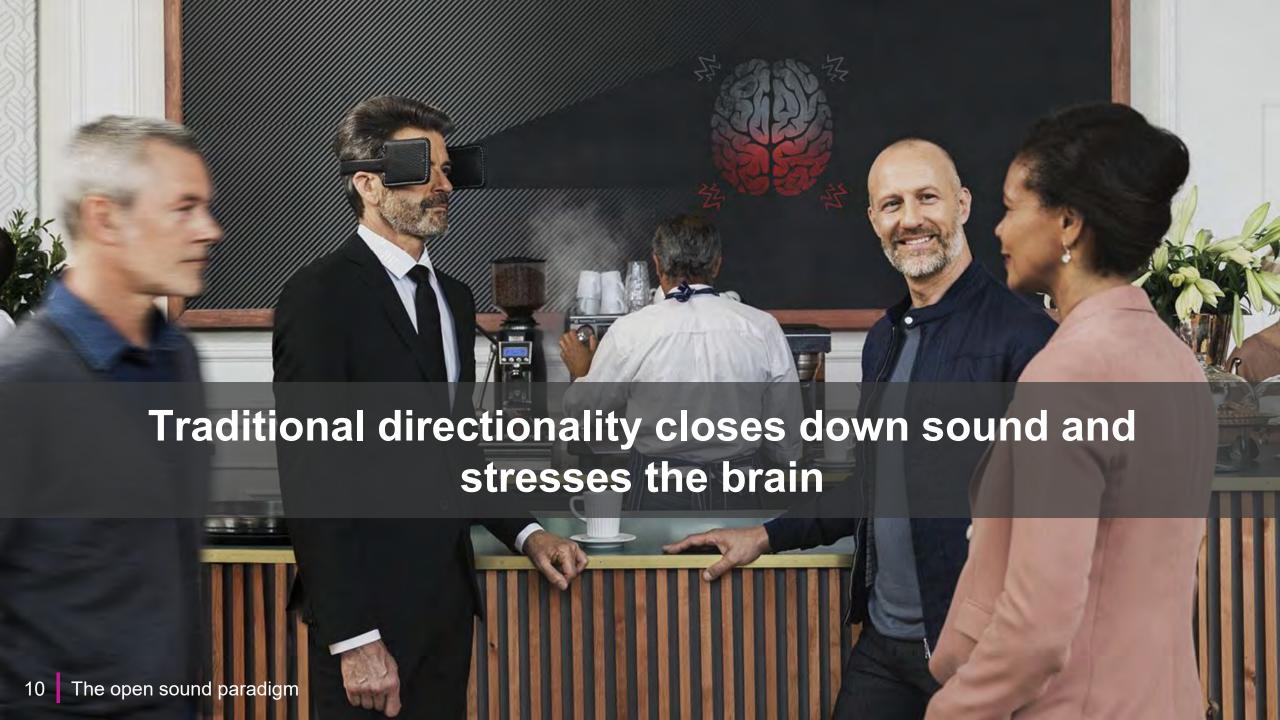


Opn has introduced a paradigm shift in hearing care



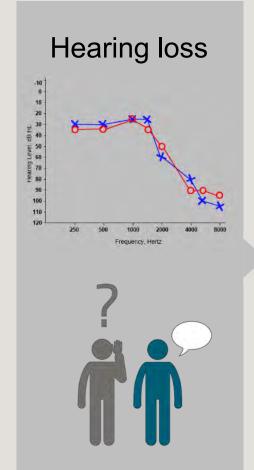




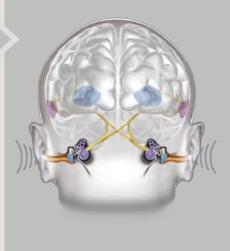


Consequences of an untreated hearing loss

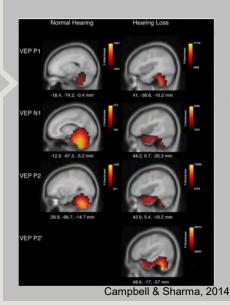
Hearing loss is more than an audibility problem



Signals to the brain have lower quality

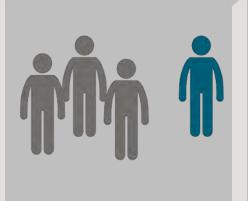


The brain will reconstruct and compensate



Fatigue and social withdrawal

Acceleration of health problems (e.g. depression and dementia)

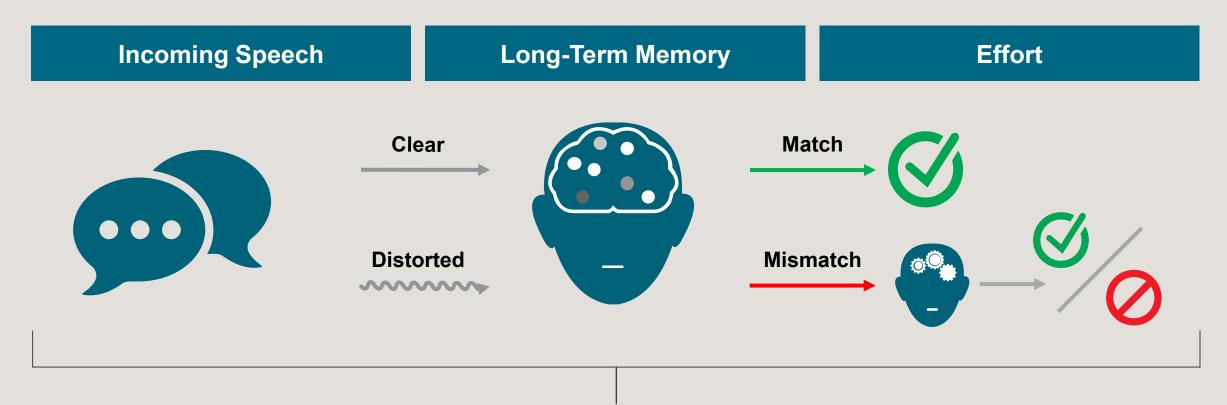






Hearing loss loads the brain

Listening becomes challenging when having a hearing loss

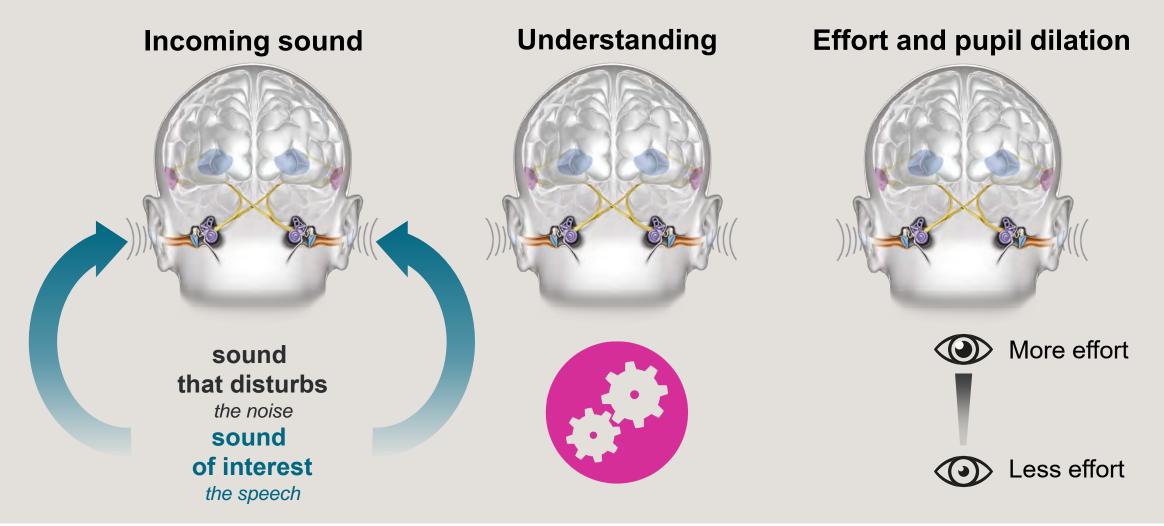


Listening effort for persons with hearing loss is higher than for persons with normal hearing



Hearing is a cognitive process

How to measure the benefits of hearing aids?



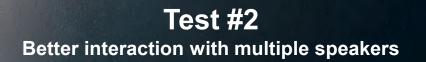


New evidence

Opn makes a profound difference to users in noisy situations

Test #1

Improving speech understanding in noise while reducing listening effort



Test #1 Improving speech understanding in noise while reducing listening effort

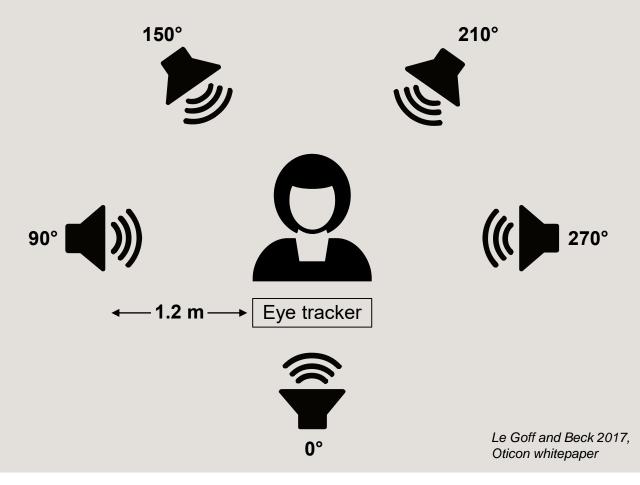
Study: OpenSound Navigator™ – understanding and effort Background

Purpose:

Investigate the effect of OpenSound Navigator on speech understanding and listening effort

Participants:

- ▶24 participants with hearing impairment
- Mild to moderate hearing loss





Speech understanding

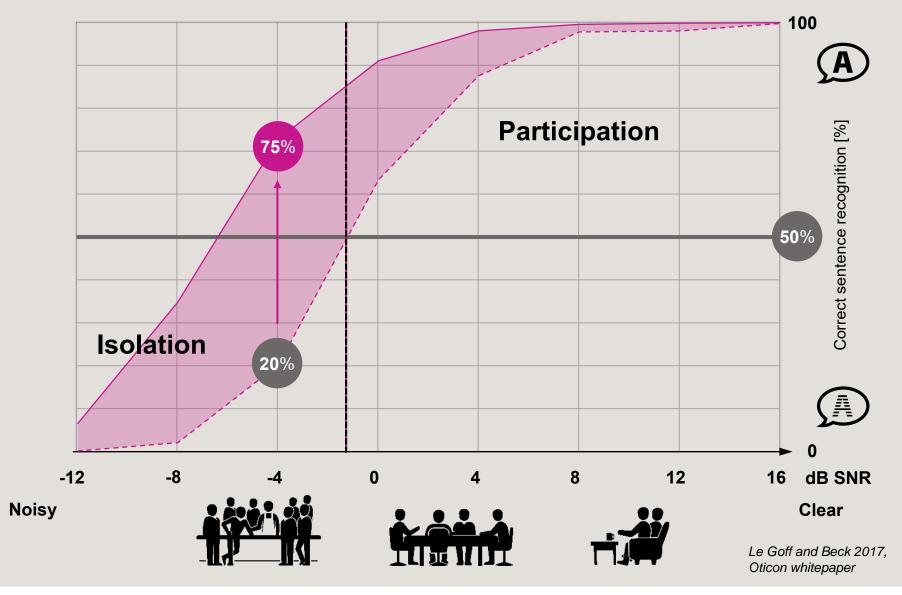
- Speech recognition with well-fitted hearing aid
- ____ Speech recognition with OpenSound Navigator
- Gained area



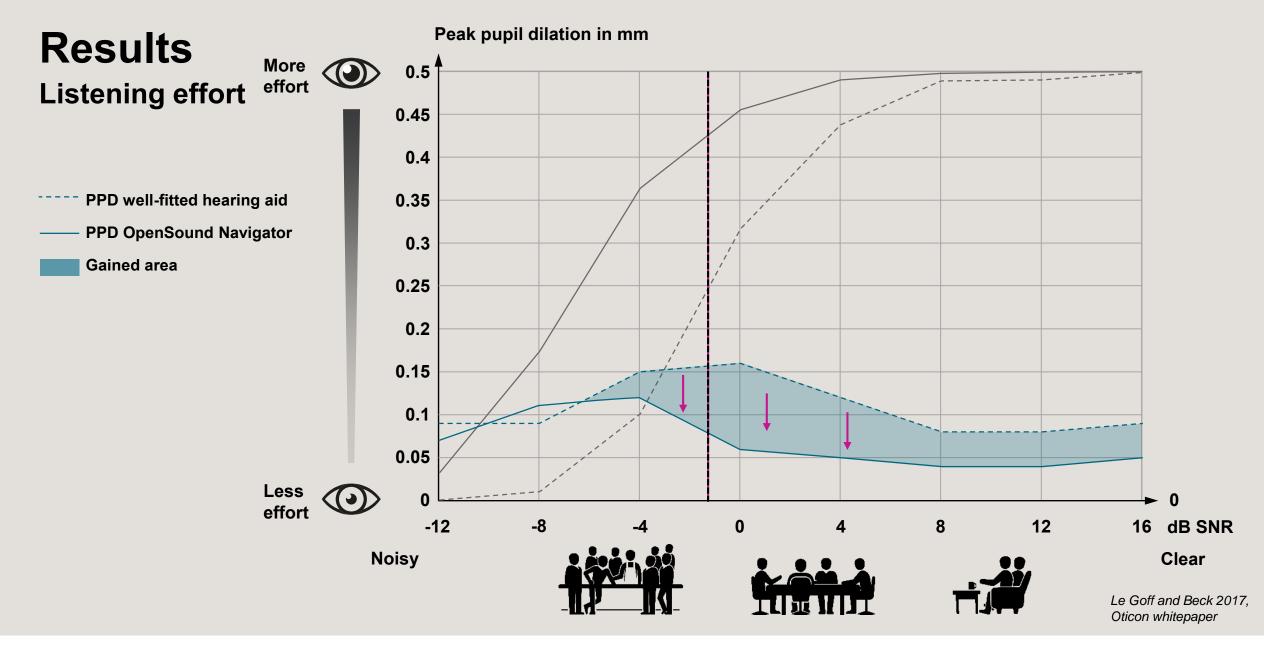
-5dB/4T OSN



-5dB/4T no OSN



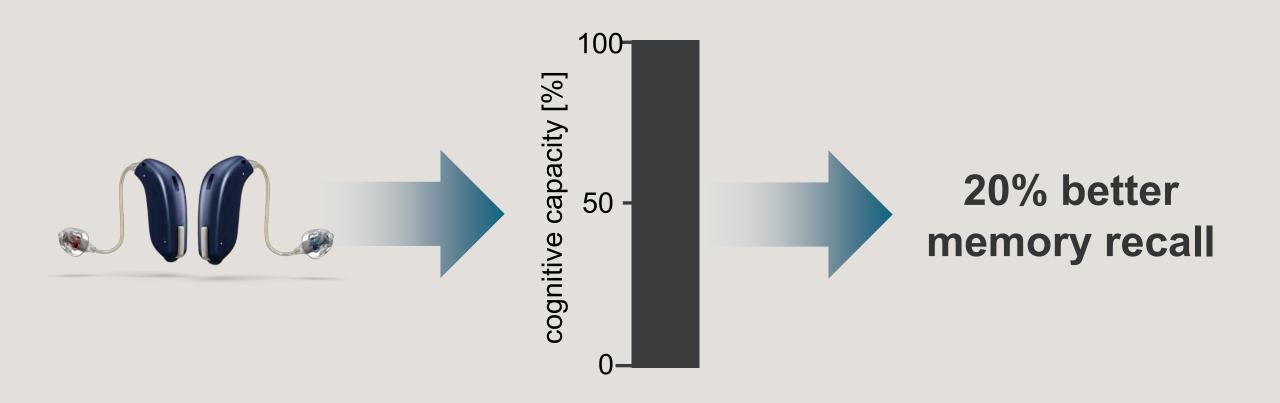






What does reduced cognitive load mean to clients?

Cognitive resources are released for other tasks



Le Goff et al. 2016



Conclusions

Comprehensive data show better and easier communication in noise

Improved speech understanding

even in the noisiest environments



Reduced listening effort

over a broad range of environments



Motivation and empowerment

to participate and engage



Le Goff and Beck 2017, Oticon whitepaper



Test #2 Better interaction with multiple speakers

Study: Multiple speakers – communication in noise

A test representing real life communication between 4 people



Criteria:

- Uncertainty on the target speaker location
- Involve a certain degree of localisation ability
- Cognitive involvement



Study: Multiple speakers – communication in noise

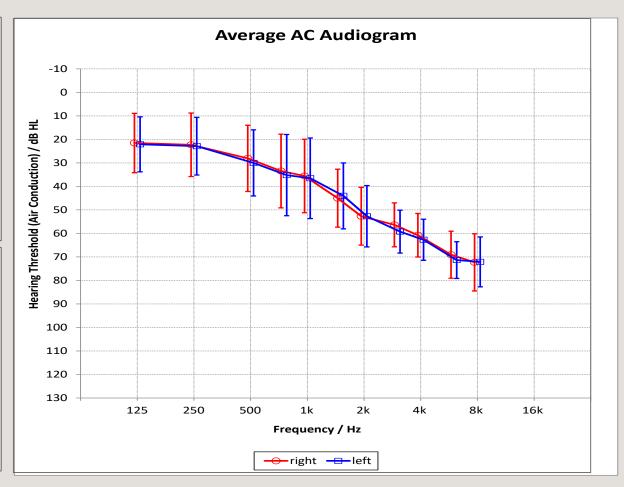
Background

Purpose:

Measure hearing aid benefits in a real-life noisy conversation with multiple speakers in an independent study

Participants:

- ▶25 participants with hearing impairment
- Mean age of 73 years
- Mild to moderate hearing loss

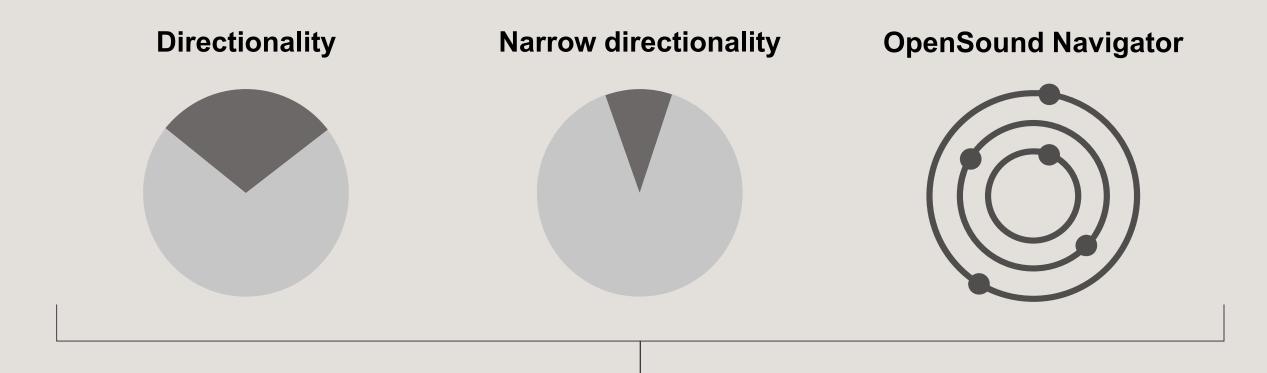


Le Goff & Beck, 2017



Study: Multiple speakers – communication in noise

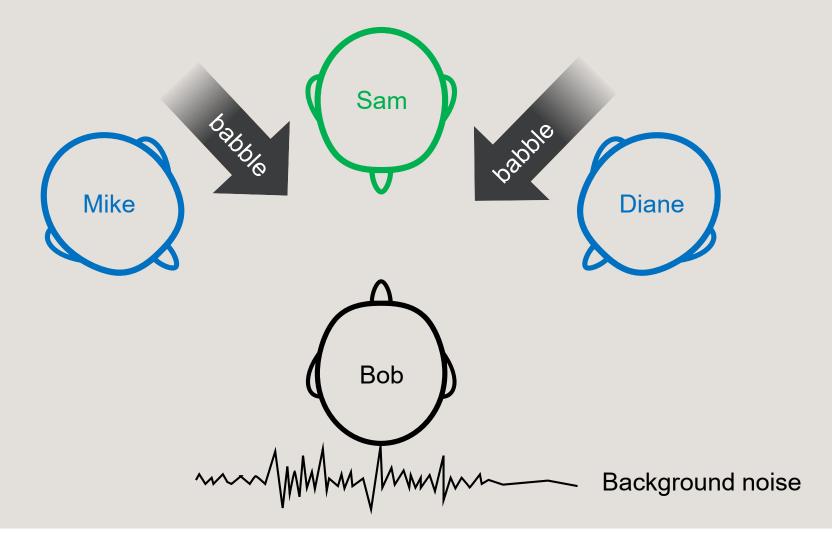
Comparing 3 technologies



Which technology is best?

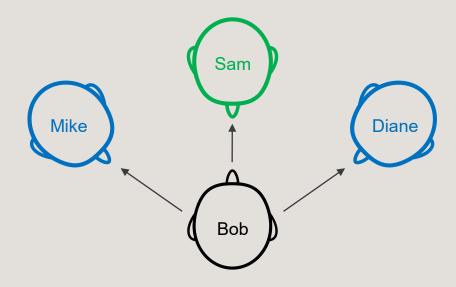


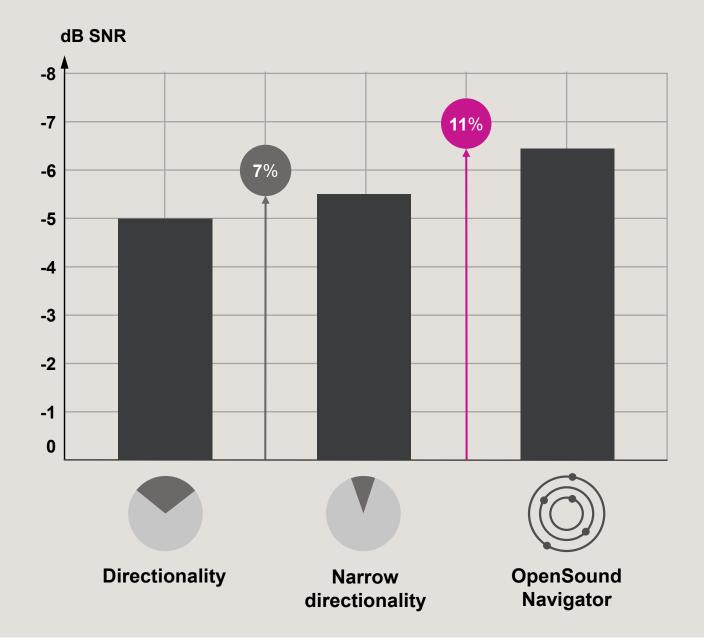
Study: Multiple speakers – communication in noise Test setup





Average speech understanding of 3 speakers

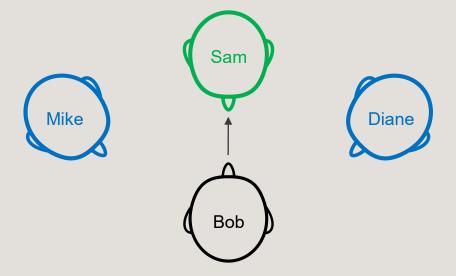


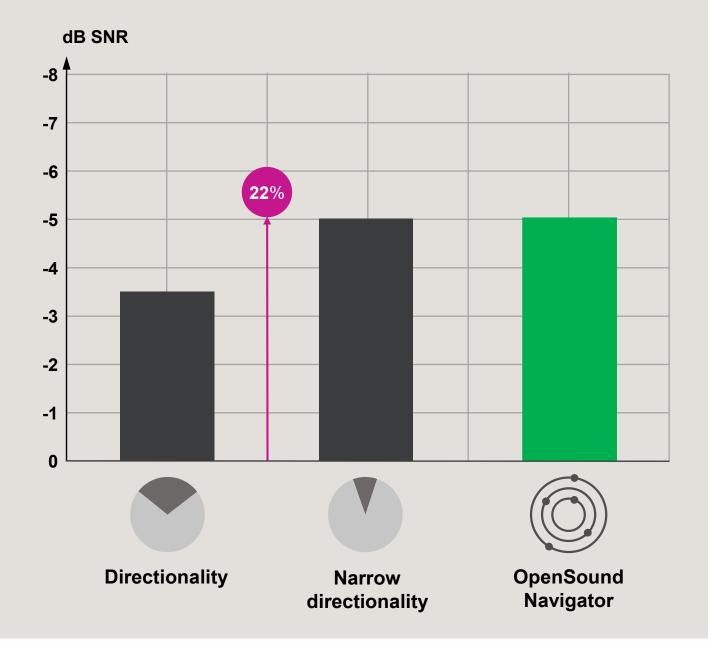


Le Goff and Beck, 2017



Speech understanding of centre speaker (Sam)

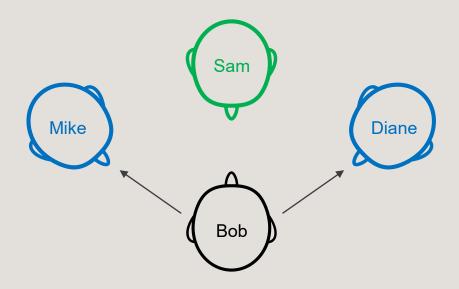


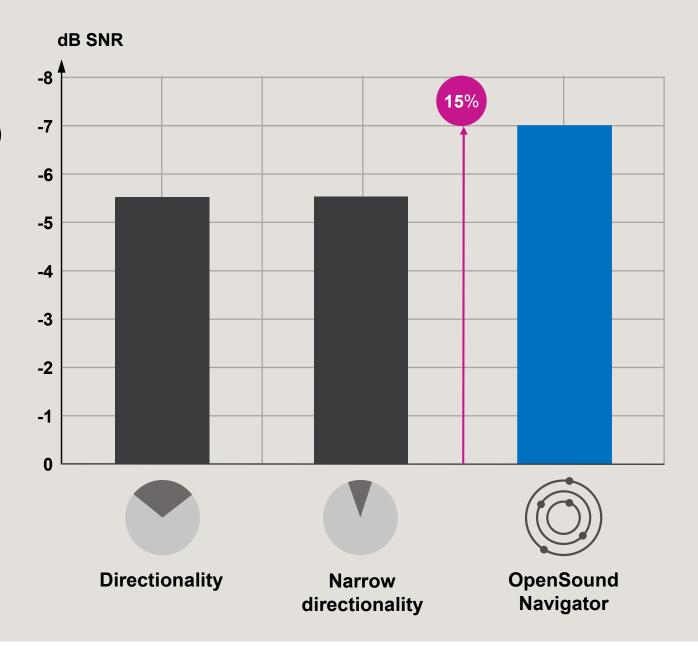


Le Goff and Beck, 2017



Average speech understanding of speakers from sides (Mike and Diane)





Le Goff and Beck, 2017





Directionality as we know it is now a thing of the past

OpenSound Navigator outperforms other directional technologies in a realistic setting

The higher speed and accuracy means accurate and powerful noise reduction

No need of narrow directionality technology - benefits are only in predictable environments

Introducing stereo streaming from all smartphones

Overcoming the limitations of Classic Bluetooth

Oticon Opn with 2.4GHz BLE enables:

- Streaming in stereo to both ears
- ▶ High-quality sound thanks to extended frequency range (7.5 kHz)
- Low battery consumption
- ▶ Made for iPhone® (MFI)

Industry standards coming for Bluetooth Low Energy audio streaming standard







Outstanding connectivity to any modern smartphone

2.4GHz BLE streaming of all types of audio to both ears





- High quality streaming in stereo
 - ▶ Hands-free phone calls
 - Music
- Hassle-free and efficient connection to any modern smartphone
 - ▶ iPhones: Made for iPhone®
 - Other smartphones: High-quality streaming with ConnectClip
- No compromises on audiology, rechargeability or hearing aid size



Introducing the Oticon ConnectClip

- Multi-function in one device
 - Wireless headset
 - ▶ Remote microphone
 - ▶ Basic remote control
- Velox platform and OpenSound Navigator™
 - Streams clear speech
 - Free from unwanted noise in phone conversations
- Elegant and discrete design







Make any Opn miniRITE rechargeable

Now in even more countries

The only rechargeable hearing aid with an open sound experience



Upgradable solution:
Turn any Opn miniRITE into a
rechargeable hearing aid

The world's first rechargeable hearing aid with **2.4 GHz** direct streaming



eHealth - an emerging agenda

Enabling a closer relationship between hearing care professionals and end-users



- Ongoing work with large-scale government systems
- Real-time video interaction needed to provide extended service to end-users
- ▶ Integration with fitting software required for full suite of services
- ▶ Direct interaction with a hearing care professional remains key for ensuring trust, professional care and strong outcomes for end-users

▶ Trials are ongoing and progressing well



New fitting features

- ▶ New fitting features:
 - New paediatric fitting mode
 - NoahLink wireless with updated fitting software and fast data view
 - New in-situ audiometry

Noahlink₁))
Wireless







New releases complement recent Oticon Opn launches

Broadening the reach of the open sound paradigm







Zerena 9|7|5

THE NEW DYNAMICS OF HEARING CONTINUES...



Zerena 9|7|5: A breakthrough in Technology

Seamless and boundless hearing. Anytime, anywhere.

- Superior speech understanding in active, fast-changing situations
- Small and attractive design
- Made for iPhone® and 2.4 GHz streaming to all phones with SoundClip-A without compromises
- Ear-to-ear NFMI communication

Dynamic Environment Control System DECS™.

- Analyses 32,000 data points of the listening environment per second
- Ultra-fast and precise updates of the binaurally coordinated Dynamic Directionality™ and Dynamic Noise Reduction™
- ChannelFree[™] amplification 20,000 times a second



Zerena 9|7|5: Great market acceptance

- Introduction in largest markets completed
 - Excellent feedback about product performance, connectivity features and efficiency of the fitting software Oasis^{nxt}
- Introduction in some export markets in progress
- Costco: launched in USA/Canada, additional countries following
- ➤ Clinically proven user benefits confirmed by hearing care professionals and users
 - 1. Significantly **improves speech understanding** in noisy and dynamic listening situations. This makes conversations easier to follow.
- 2. Provides maximum comfort in highly noisy places. This makes sound more natural and less loud.
- 3. Reduces listening effort so users can focus on hearing what's important to them. This makes busy places less tiring.



^{*}Bernafon (2017) Dynamic Amplification Control, Topics in Amplification, Sept. 2017

^{*}Bernafon (2017) Benefits of dynamic amplification control in complex listening environments, White Paper, Sept. 2017



New Zerena features



 Z-Power rechargeable Silver-Zinc batteries





 SoundClip-A, 2.4 GHz binaural audio streaming and hands-free phone calls to all phones









Sonic Enchant 100|80|60: Status

- International roll-out ongoing
- SoundDNA technology extremely well received
- ➤ Upcoming news:
 - Wireless connectivity solution for all phones with SoundClip-A
 - MiniRite rechargeable with Z-Power solution









History of Oticon Medical

Bone Anchored Hearing Systems (BAHS)

2007

Oticon Medical established in Gothenburg, Sweden



2009

Launch of the Ponto System bringing digital sound quality to BAHS





2011

Ponto Pro Power

- the first bone anchored digital power processor



2013

Wide Ponto Implant

bone-to-implant

- the industry's largest

Oticon Medical/WDH acquires Neurelec

neurelec

2013

Ponto Plus & Ponto Plus Power

- the first and most powerful family of processors with wireless connectivity

2014

14mm OptiFit™ abutment

- the most extensive abutment family for all skin thicknesses power processor



2015

Minimally Invasive Ponto Surgery (MIPS)

– a truly new perspective on tissue preservation



- bone bonding. the next level of osseointegration

2016

Ponto 3 family

- The world's most powerful family of abutment-level sound processors





Cochlear Implant Systems (CI)

1976

First multichannel cochlear implantation in France by Prof. Chouard



1977

Development and production of cochlear implants established in Nice, France

1992

Digisonic DX10

- the first digital multi-channel cochlear implant

2004

2001

Digisonic BTE

- our first BTE

sound processor

Digisonic SP

- 20 channel implant



2006

surgery

Digisonic SP ABI

for brainstem

2012

2012

contact

Digisonic® SP EVO

– the atraumatic electrode array to preserve residual hearing



2013

Saphyr Neo Collection

 better speech understanding in noise with Voice Track & Crystalis XDP



2015

Launch of the Neuro System

Neuro Zti implant – an ultra-compact design with a powerful and future-proof technology



Neuro One sound processor

 Oticon technology inside, designed for better speech understanding

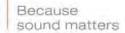
Today

Neuro 2

 Where sound meets design







Ponto 3 SuperPower

- The world's first and most powerful abutment-level super-power sound processor
- Highest output ever
 - utilizes the patients' capability to hear better
 - best audiological solution to **any** boneanchored patients
- A paradigm shift







Ponto 3 SuperPower – clinical results

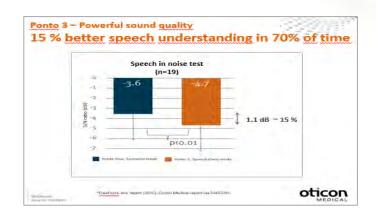
Study conducted by

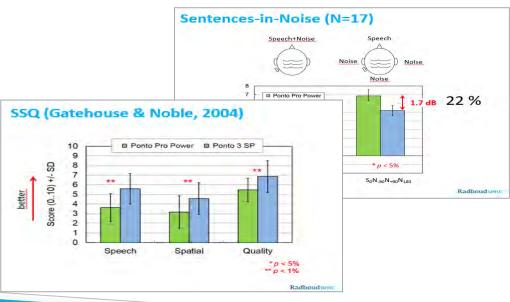
A Bosman et al, Radboud University Medical center, Nijmegen

- Experienced BAHS subjects (N=20)
- Ponto Pro Power (N=19), Baha Intenso (N=1)

Results

- 22 % increased speech understanding
- Sign. improved subjective outcome
- All preferred P3SP









Where sound meets design





Design excellence – the smallest BTE ever









reddot award 2017 winner





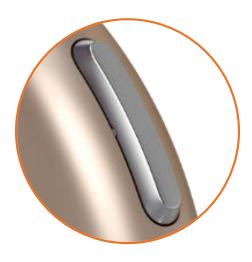
Design excellence



Integrated light indication



Discreet microphones



Aluminium dual push button

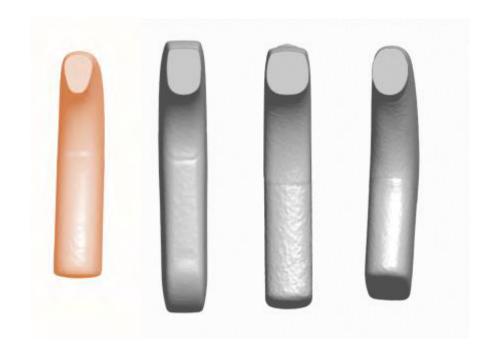


Integrated Battery lock



Design excellence – dimensions









Design excellence – blend in or stand out?



Discreet skin and hair colours

Matching Oticon colours

Proud modern colours



Easy to use and rely on – battery lifetime



Large rechargeable
Typically 2 full days

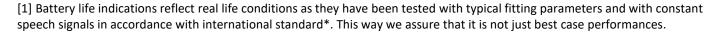
ZnAir
Typical

ZnAir Typically 3 full days

Small rechargeable
Typically 1 working day

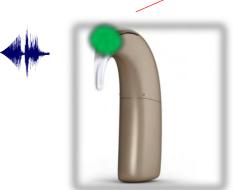
In real life conditions¹

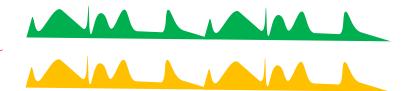




Voice activated self check - « how are you »







OK

Mic issue





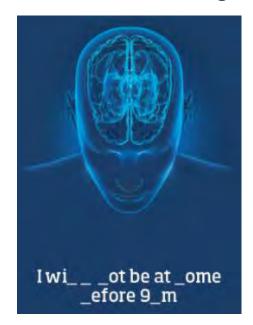
BrainHearing[™] – making sense of sound

Neuro is designed to provide sound details for easier listening



BrainHearing[™] – making sense of sound

Listening gets harder when details are missing



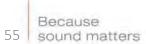
Every speech cue counts!

Less energy spent on listening



More energy for everyday life





BrainHearing[™] – making sense of sound



Coordinated Adaptive Processing (CAP)

designed to automatically deliver undistorted speech in the widest range of listening situations

Powered by the **Inium Sense** platform



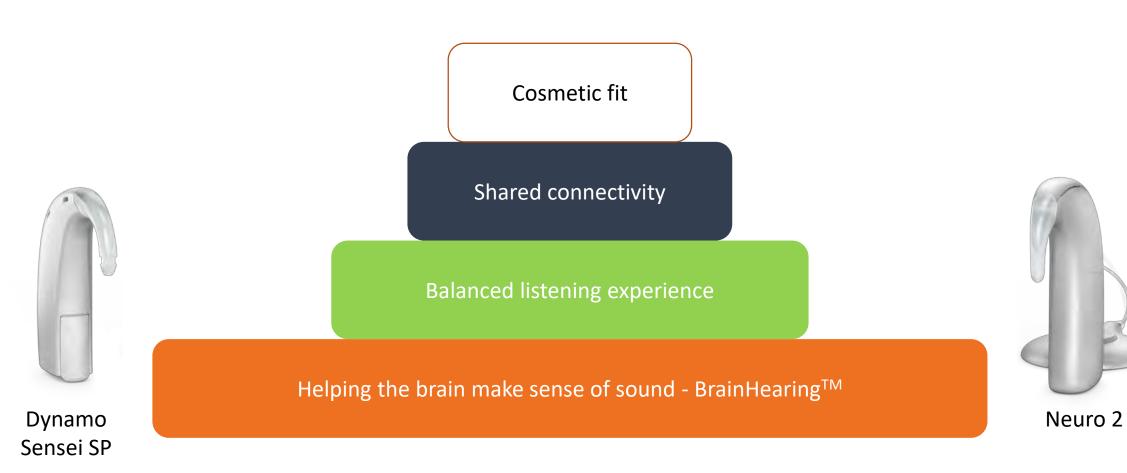








Bimodal − BrainHearingTM is the foundation





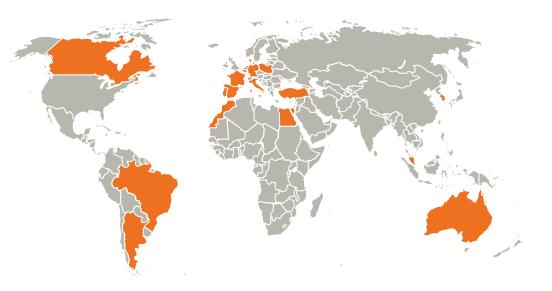
Neuro – Significant progress through excellent outcomes

More centers and more geographies – and growing

- Brazil active from Q2 2017
- Argentina active from Q3 2017
- Australia active from Q4 2017
- FDA patient inclusion to be completed before year-end
- Strong base established for Neuro 2 launch









Outstanding reliability data for Neuro Zti



Read more at:

https://www.oticonmedical.com/for-professionals/cochlear-implant/reliability-report



COCHLEAR IMPLANT SYSTEM

The Neuro System –

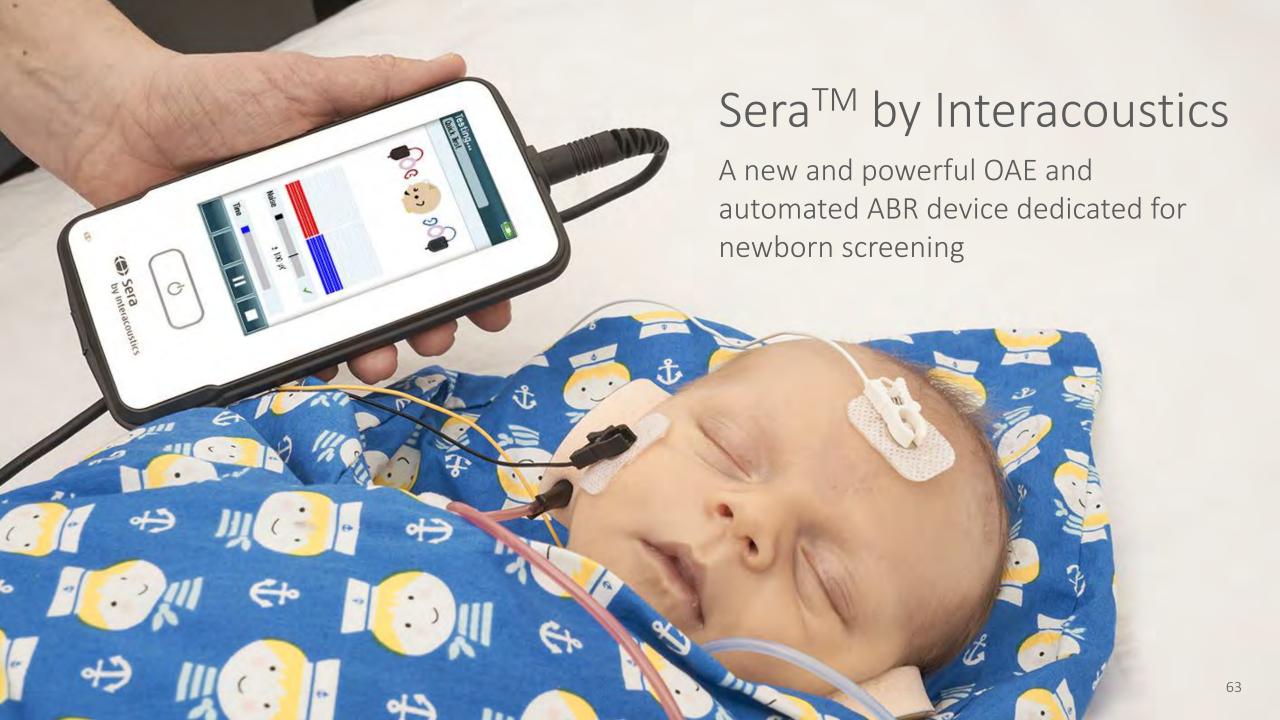












Affinity^{2.0} and Callisto™

A complete solution for fitting hearing aids, a client-centered process that starts with audiometry and ends with a satisfied client.



New MA 28 screening audiometer from MAICO

Air conduction & bone conduction audiometry made portable

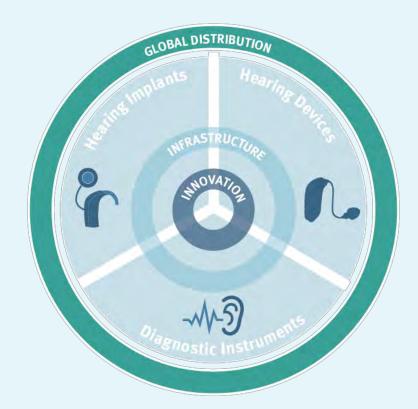






A strong platform for future growth

... and a vision to make a life-changing difference to people living with hearing loss





Q&A

Next up:

Interim Management Statement will be released Thursday, 9 November 2017





IR contacts



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