

7 March 2019

Introducing Oticon Opn S

Oticon breaks a
law of physics



Dr. Nishat Fatima

oticon
PEOPLE FIRST

Today's presenters



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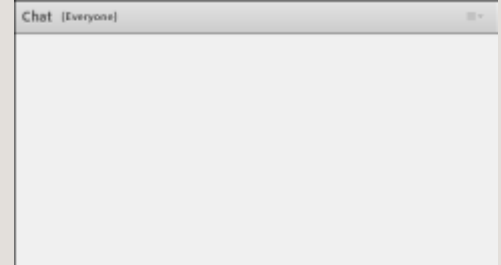


Area Sales Manager
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Keep in mind...

Please use a wired connection

- ▶ This session will be recorded
- ▶ Please ensure that your microphones are switched off
- ▶ Please type questions into the Chat box



Upcoming webinars

Please mark your calendars

- March 7** **Oticon Opn S and Rechargeable Solution**
- March 13** **Genie 2019.1 – Fitting the new products**
- March 21** **Rechargeable hearing aids and batteries – How to handle logistics**

**OPTIMAL
GAIN**

**OPEN
FITTING**

FEEDBACK

Laws of physics
relating to hearing aids?




Trapped
in a world of
compromise

until now...

**OPTIMAL
GAIN**

**OPEN
FITTING**

FEEDBACK

A man in a dark suit is seen from behind, walking through a jagged hole in a grey brick wall. He is stepping onto a path of white, misty or ethereal light that leads into a bright, colorful, and blurry background. The overall atmosphere is one of breaking through barriers and entering a new, vibrant world.

Oticon Opn S with OpenSound Optimizer™

A new level
of fitting freedom

OpenSound Optimizer breaks a law of physics

Breakthrough Innovation

Detects and
prevents feedback
before it occurs



GAIN



LOW

OPTIMAL

OPEN FITTING



CLOSED

OPEN

FEEDBACK



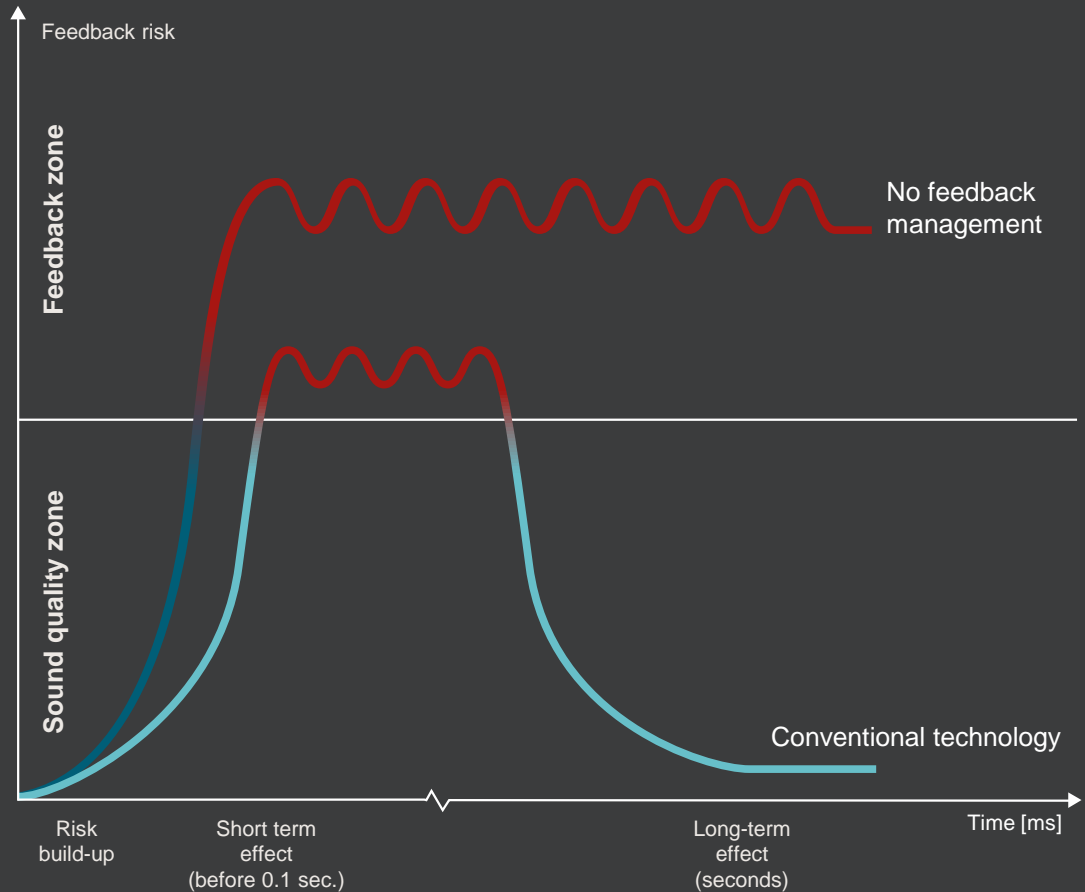
NO RISK

HIGH RISK

The proactive system provides optimal and stable gain

Open fitting without feedback risk

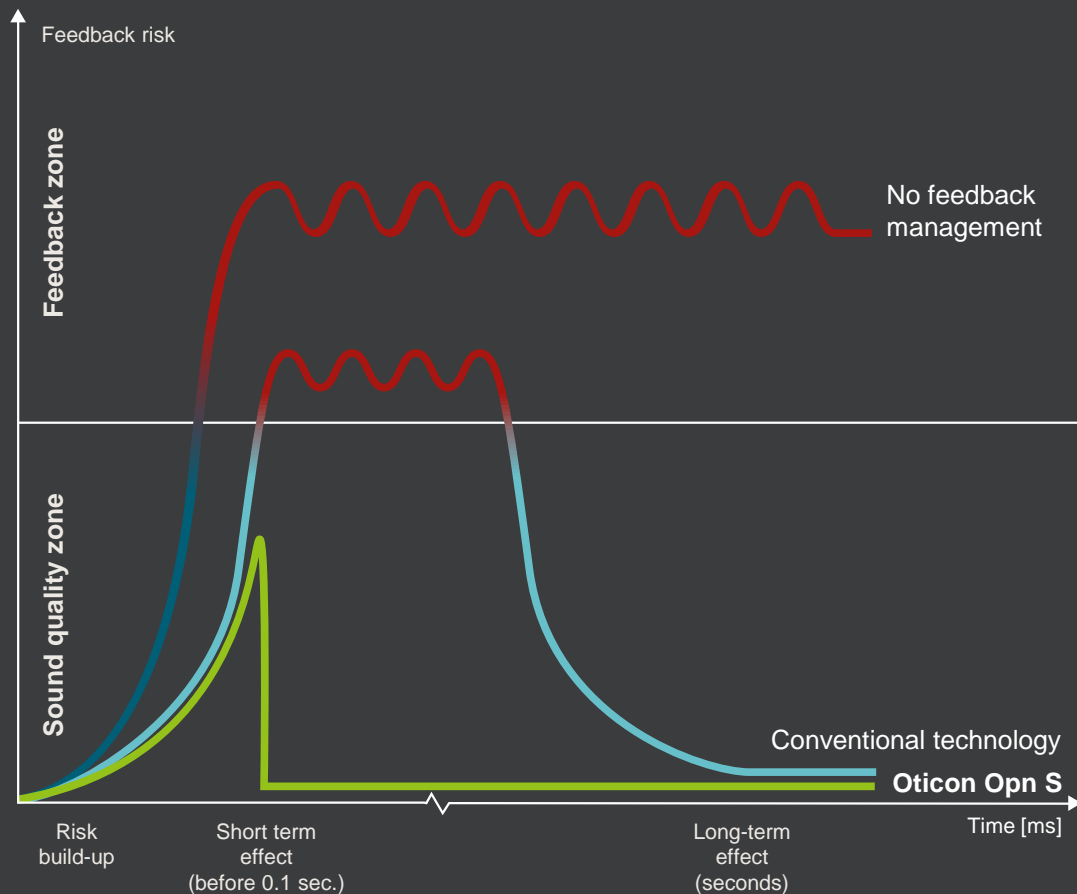
OLD WORLD



The proactive system provides optimal and stable gain

Open fitting without feedback risk

NEW WORLD



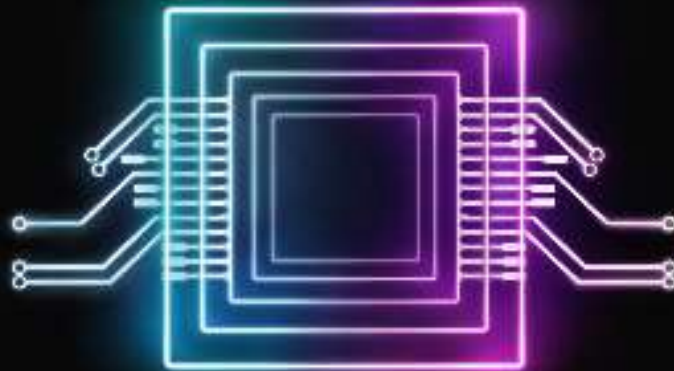
Introducing Velox S™

Oticon's most advanced and powerful platform ever

More memory

56.000 additional
measurements by
new detectors

New signal
processing for
proactive feedback
management



Preventing feedback
in 28 channels

New automatics to
handle the new Very
High setting in Genie 2

Handle inductive charging

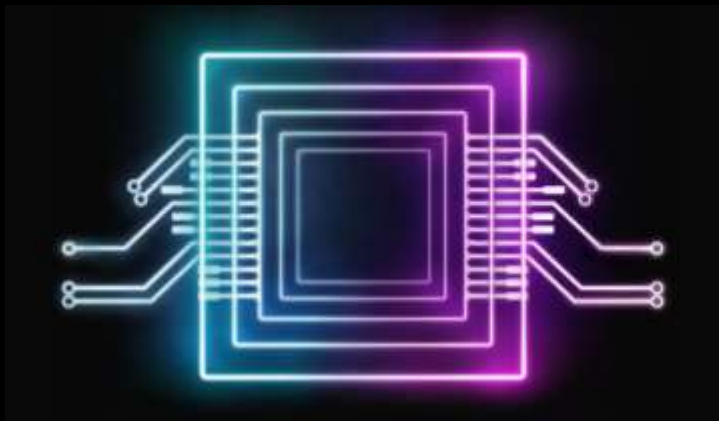
Introducing Velox S™

Oticon's most advanced and powerful platform ever

Our fastest ever
processing speed

Secured interaural
level differences


Updatable firmware



Precision of
gain estimation

Intact interaural
time differences

Improved
flexibility in fitting

A close-up photograph of a man and a woman smiling warmly at each other. The woman is on the left, with dark curly hair, and the man is on the right, with short dark hair and a beard. They are both wearing light-colored tops. The background is a plain, light color.

Up to
30%
more speech
cues to the brain

**Delivers 6 dB
more gain**

**OpenSound Optimizer brings benefits to all
96% prefer Oticon Opn S**



Internal clinical validation

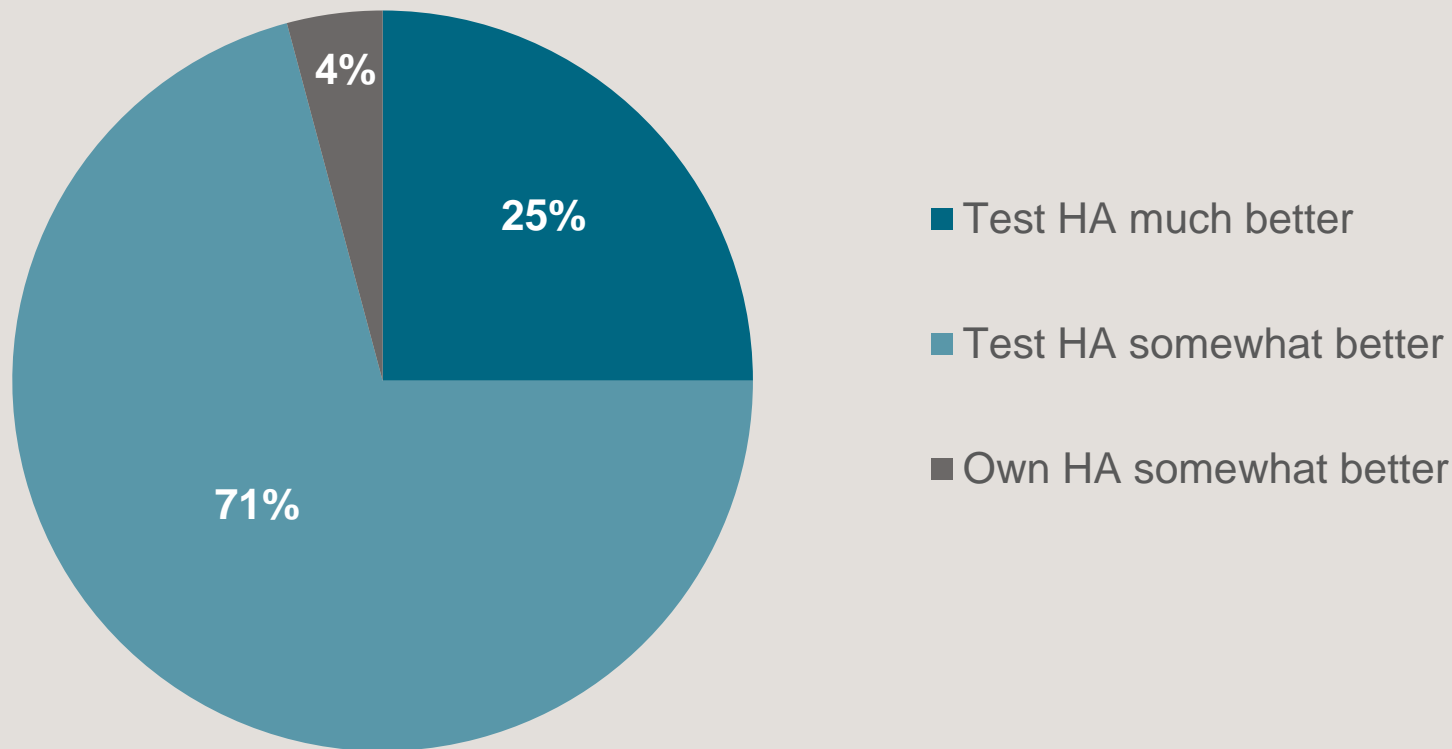
Background

Participants:

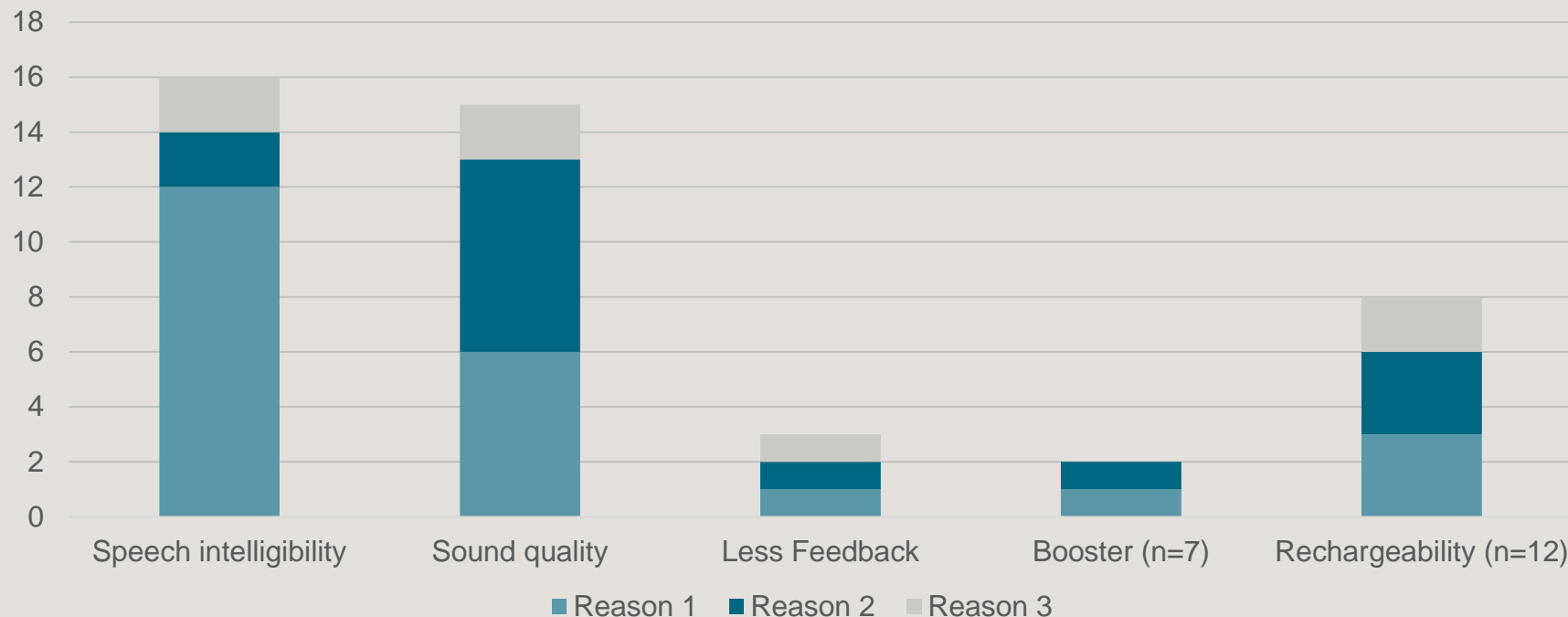
- ▶ 24 participants
 - ▶ 12 BTE PP users
 - ▶ 2 miniRITE T 60 speaker users
 - ▶ 10 miniRITE T 85 speaker users
- ▶ Mean age: 73,5 years
- ▶ Mix of hearing losses
- ▶ All participants are experienced and satisfied Oticon Opn 1 users

96 % prefer Oticon Opn S over Oticon Opn

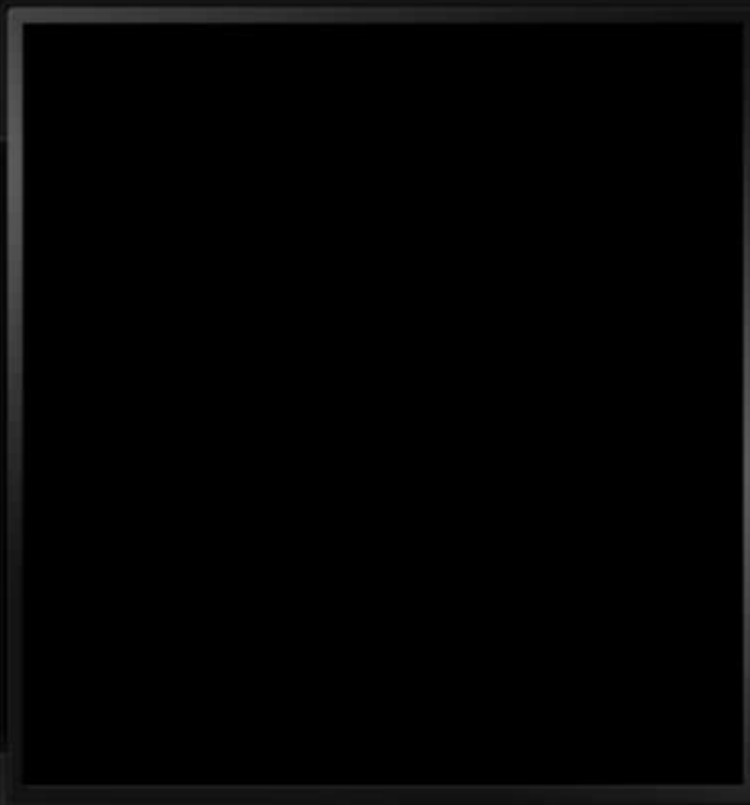
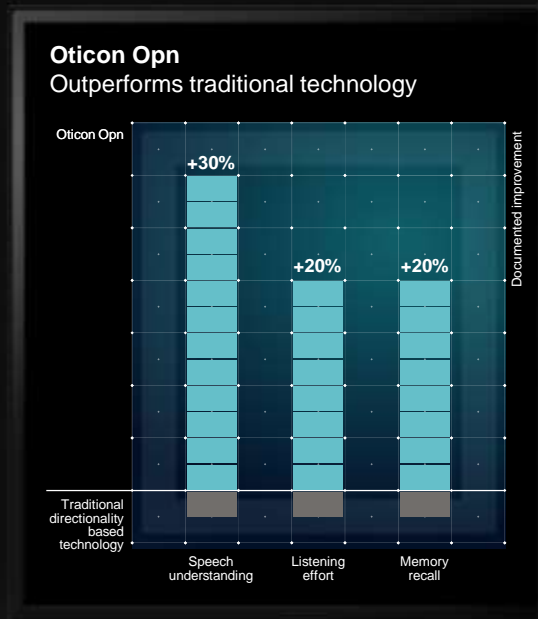
N=24



Main reasons for preferring Oticon Opn S

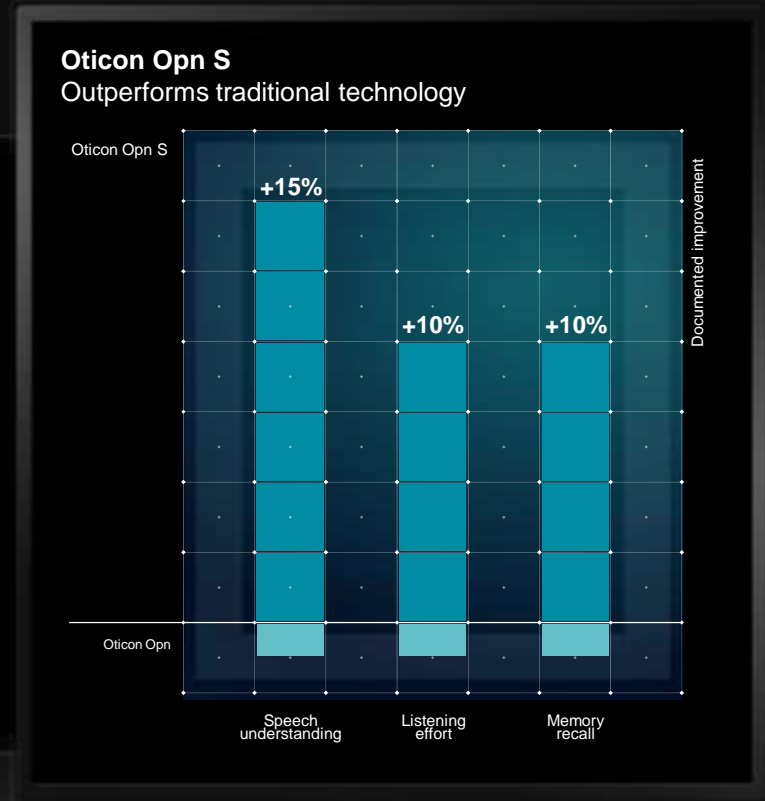
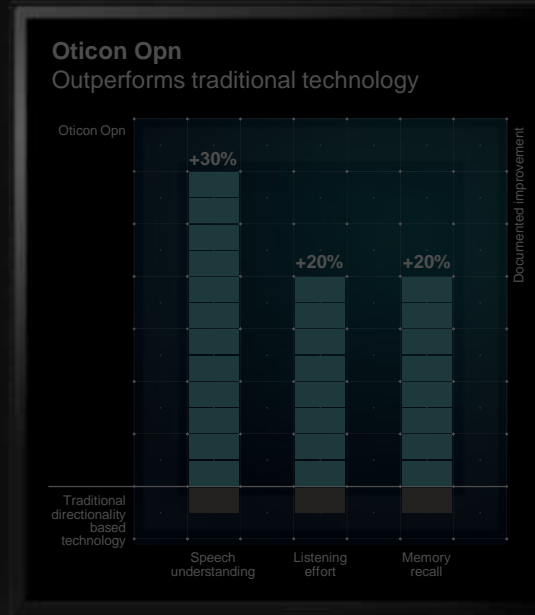


Oticon Opn S takes the BrainHearing™ benefits even further



Le Goff et al. 2016, Oticon Whitepaper

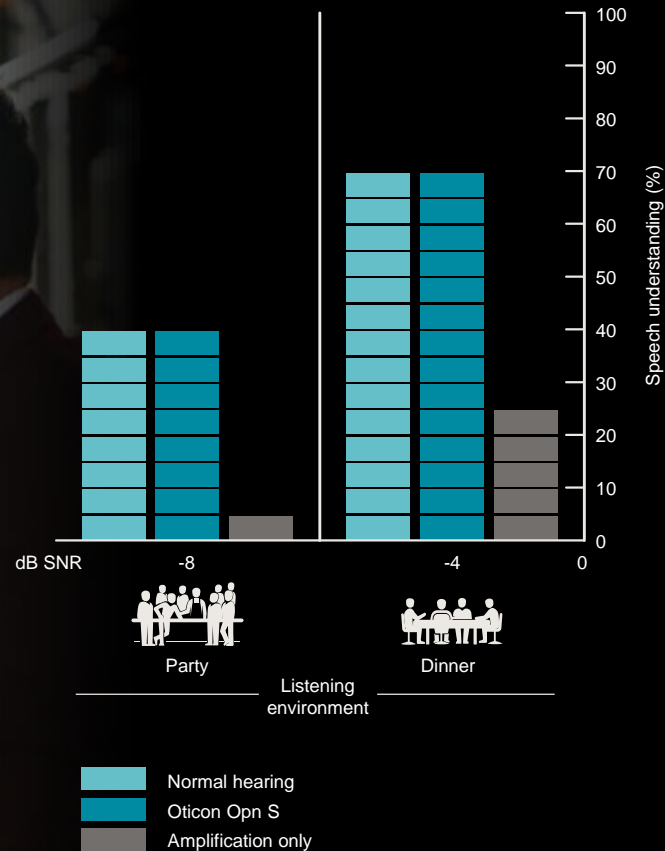
Oticon Opn S takes the BrainHearing™ benefits even further



Juul Jensen 2019, Oticon Whitepaper

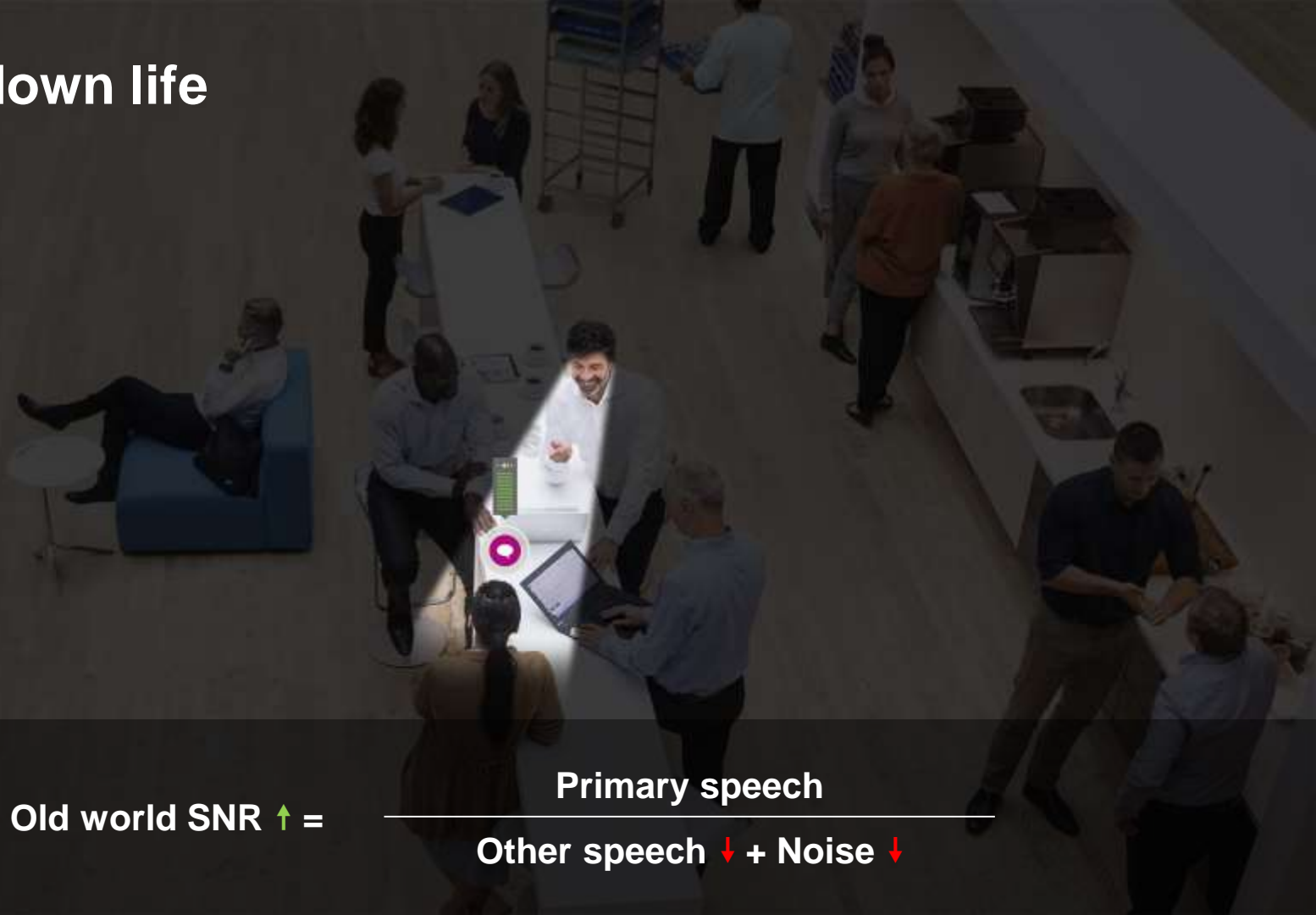
Oticon Opn S

On par with normal hearing in noisy environments



Closing down life

Old world



Old world SNR \uparrow =

Primary speech

Other speech \downarrow + Noise \downarrow

Traditional directionality closes down sounds

When you close down
sounds, you close
down life



OLD WORLD

NEW WORLD

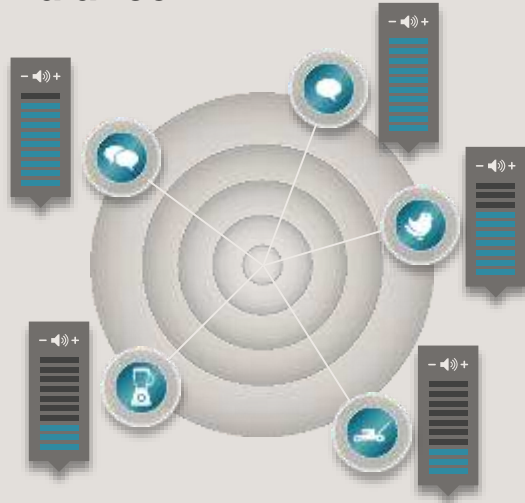
OpenSound Navigator

Keeping all speech sounds clear and precisely attenuating noise

Analyse



Balance



Noise removal



OpenSound Navigator

Updated for more empowerment

Very High setting
in Genie 2

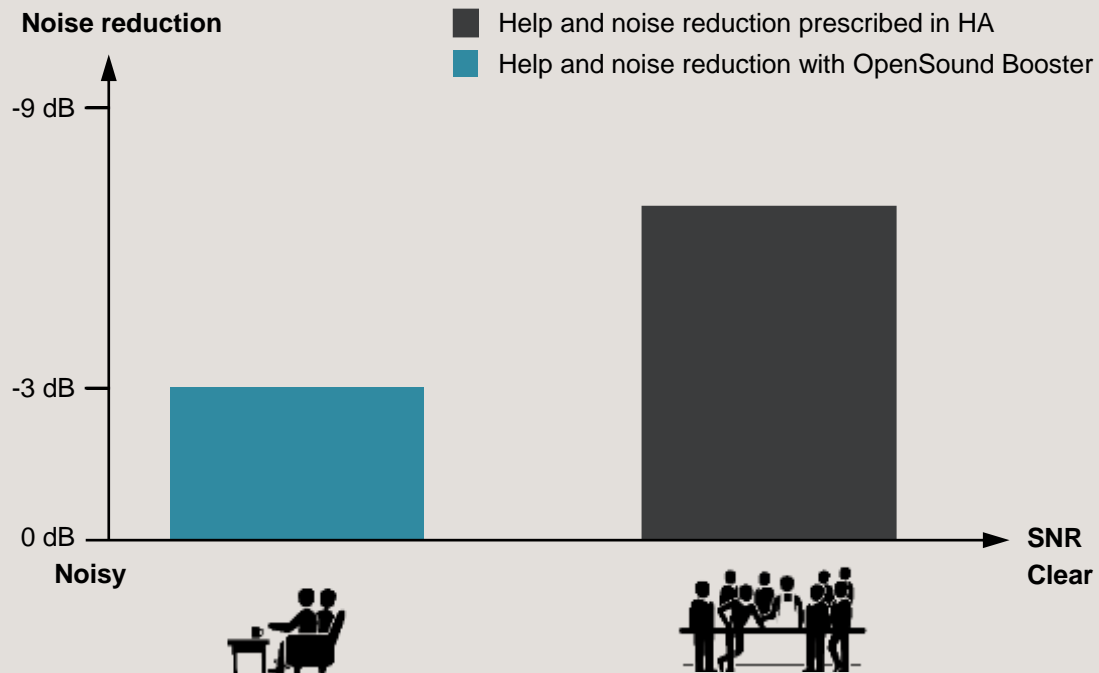


OpenSound
Booster



OpenSound Booster

An example

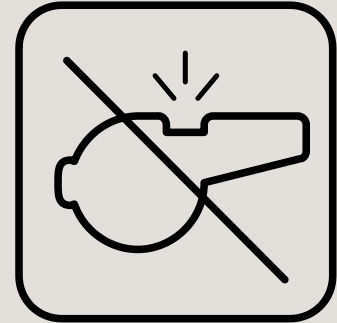




Open Sound
Optimizer

OpenSound Optimizer

A combined system for optimal gain and sound quality – free of feedback



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

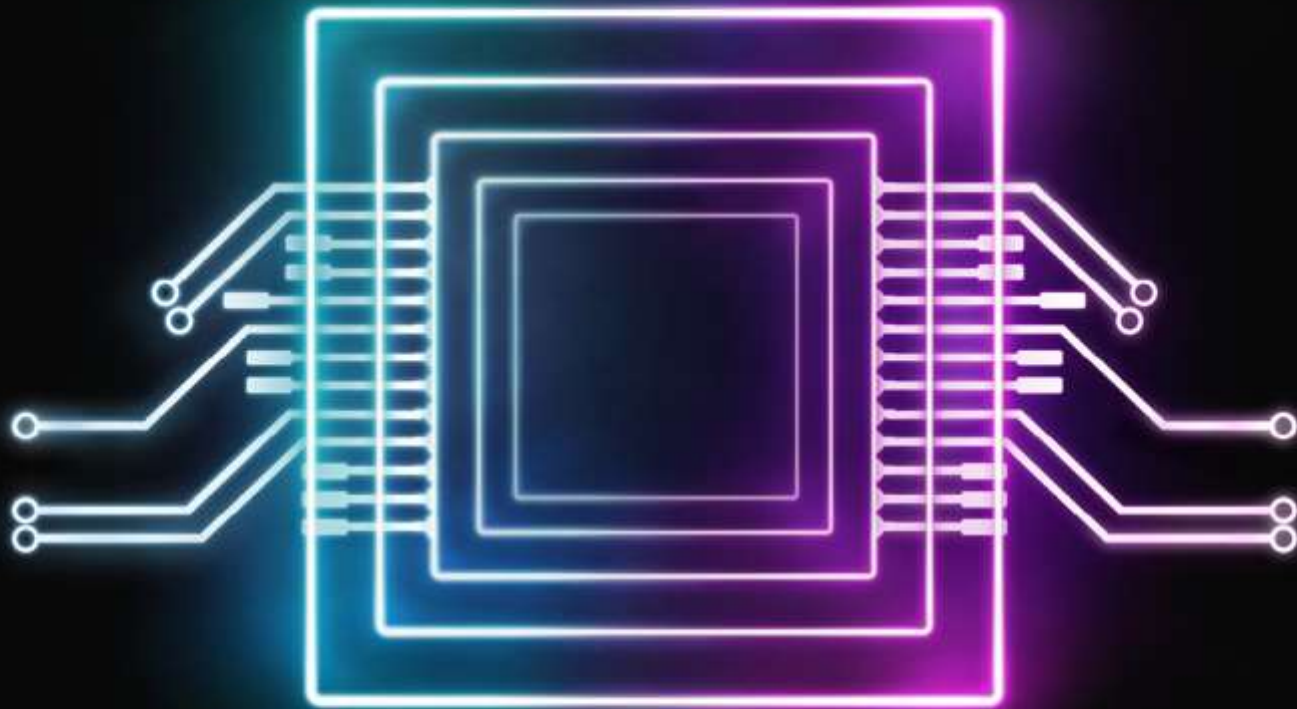
OpenSound Optimizer

Velox S

Rapidly

Precisely

Minimally



OpenSound
Navigator



YouMatic
LX



Open Sound
Optimizer



Spatial Sound
LX



Speech Guard
LX



Speech
Rescue LX



Soft Speech
Booster LX



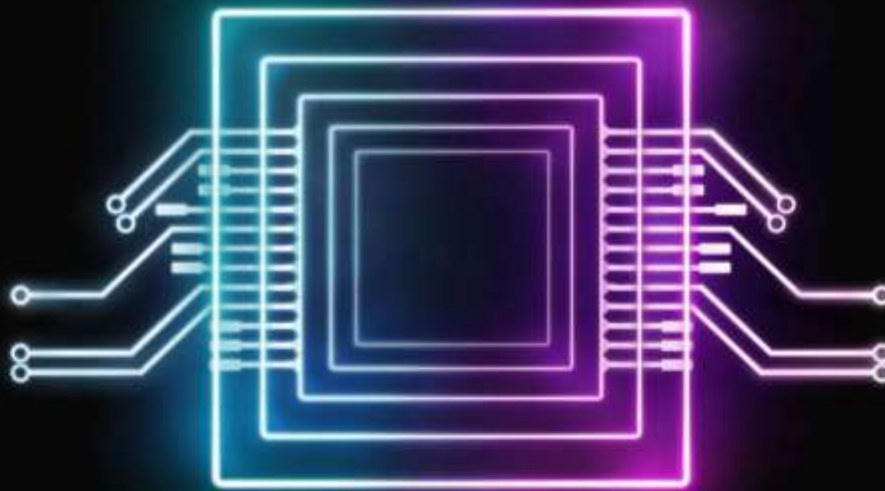
Clear
Dynamics



Wind Noise
Management



Tinnitus
SoundSupport



BrainHearing support levels



Product



BrainHearing support



Open access to All speakers



Rapid noise reduction



Localisation of sounds



Speech clarity



A personalised listening experience

Product	BrainHearing support	Open access to All speakers	Rapid noise reduction	Localisation of sounds	Speech clarity	A personalised listening experience
Oticon Opn S 1	Level 1	Yes	•••	•••	•••	•••
Oticon Opn S 2	Level 2	Yes	••	••	••	••
Oticon Opn S 3	Level 3	Yes	•	•	•	•

Supporting features:

- OpenSound Navigator
- Spatial Sound LX

- OpenSound Navigator
- Frequency bands

- Speech Guard™ LX
- Spatial Sound LX
- Clear Dynamics
- Bandwidth

- OpenSound Navigator
- Speech Guard LX
- Clear Dynamics
- Bandwidth
- Frequency bands

- Fitting bands
- YouMatic™ LX
- Soft Speech Booster LX

Introducing the new rechargeable miniRITE R

A high performing lithium-ion solution

- Easy to power
- Fast charging
- Quick recharge
- Reliable charging
- Easy to insert



- Smart automatic ON/OFF
- Intuitive status
- Discreet power LED
- Modern look

Easy handling of Oticon Opn S miniRITE R

Leave in
the charger overnight



Automatically turns on
when taken out of the charger



Super fast charging time

Charging time for a completely drained battery

3 hours

Fully charged

1 hour

50% charged

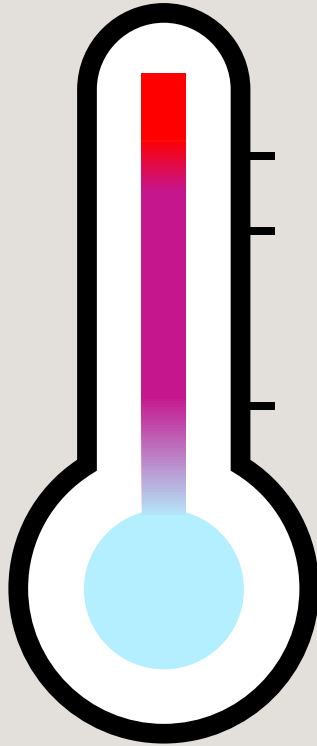
0.5 hour

25% charged



Lithium-ion technology is sensitive to temperature

Lithium-ion is temperature sensitive



Above +40°

No charging due to too high temperature

+35° to +40°

Prolonged charging. Charging will take up to 4 hours

+5° to +35°

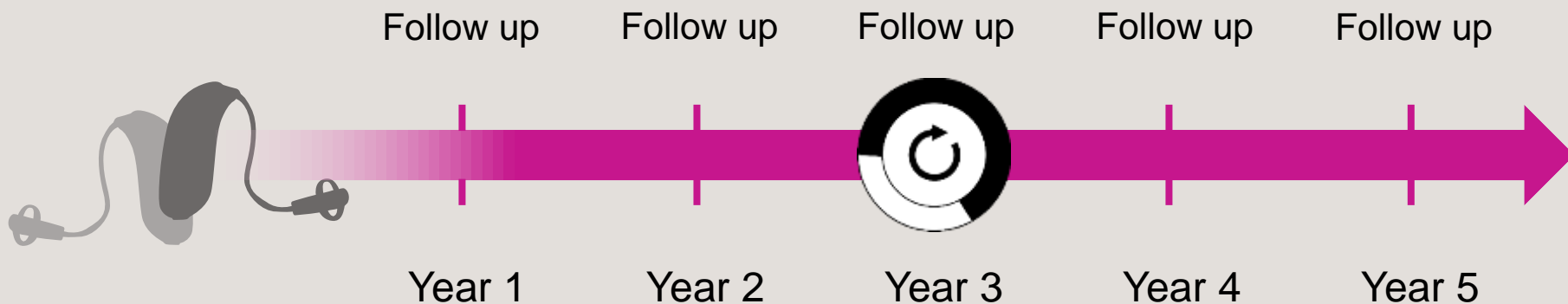
Best charging condition. Charging will take up to 3 hours

Below +5°

No charging due too low temperature

Battery capacity

Follow-up



Lithium-ion battery performance varies depending on hearing loss, lifestyle and streaming behaviour

The Oticon Opn S family

The options

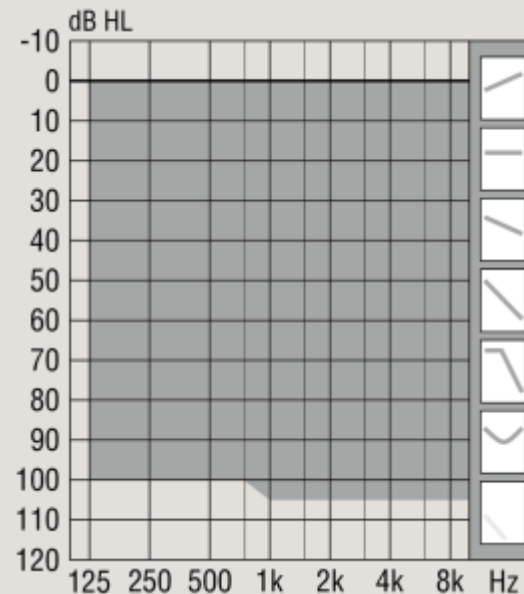


Oticon Opn S fitting range

All the way up to severe-to-profound losses



0 – 105 dB HL



Summary

- ▶ OpenSound Optimizer is a breakthrough in sound quality and speech understanding
- ▶ Boosting OpenSound Navigator
- ▶ New Velox S platform
- ▶ Next-level BrainHearing benefits.
- ▶ State-of-the-art rechargeable lithium-ion miniRITE R.

