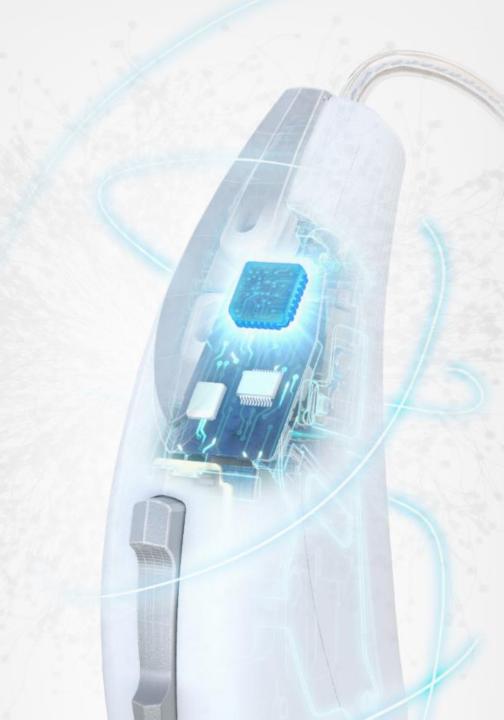
Connected Audiology: Trends Informing Modern Audiology Care

Jeff Crukley, Ph.D., Reg. CASLPO

Senior Research Scientist Manger of Audiology Research and Hearing Science









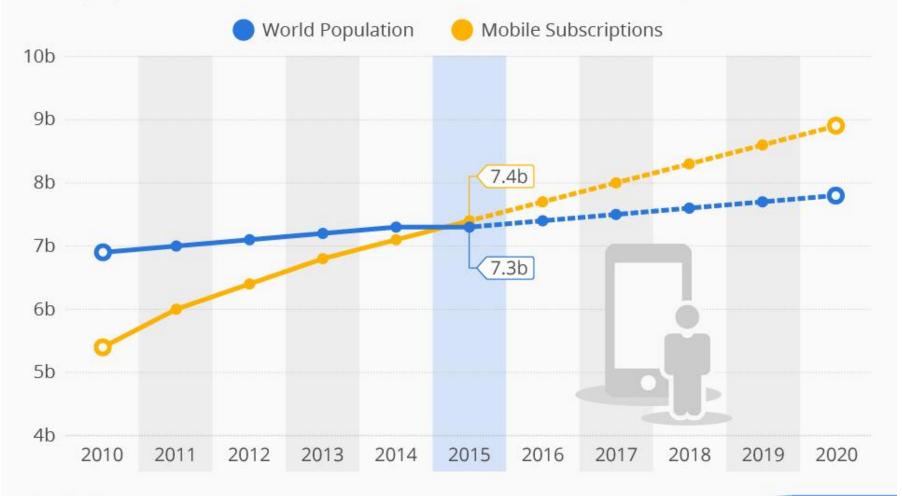
"Mobile communication has arguably had a bigger impact on humankind in a shorter period of time than any other invention in human history."

World Bank Report in 2012



#### Mobile Subscriptions to Outnumber the World's Population

World population vs. estimated number of worldwide mobile subscriptions









## Wearables are paced to



## Auditory Ecology

The The The range of auditory importance of acoustical demands those demands + environments of those to an individual's that a person environments daily life experiences

(Gatehouse et al., 1999)

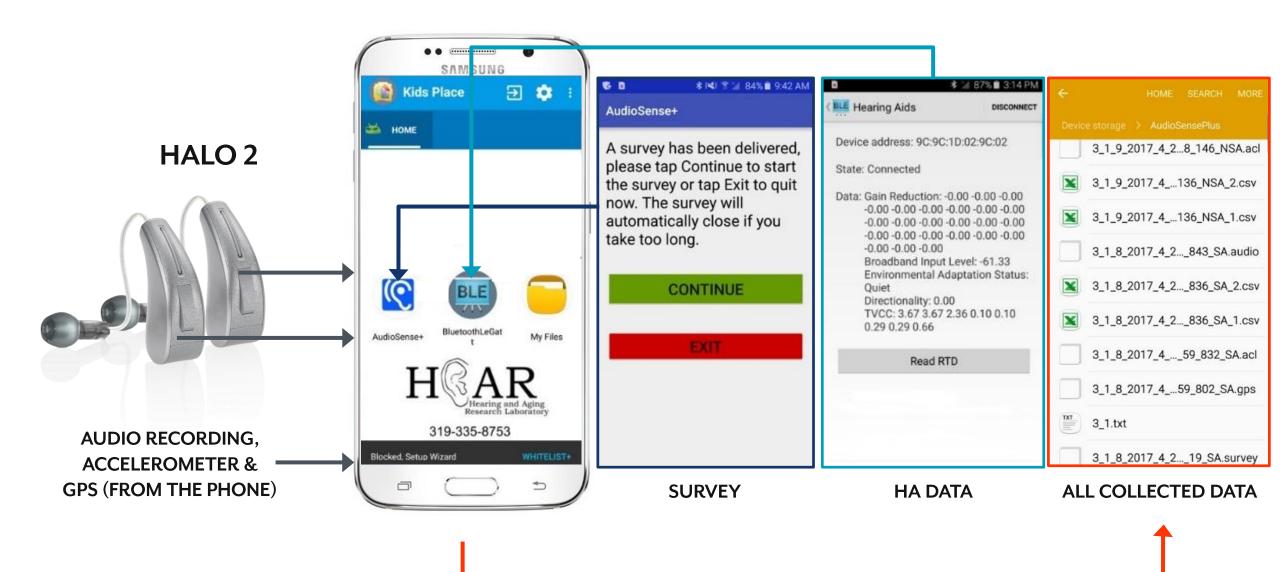




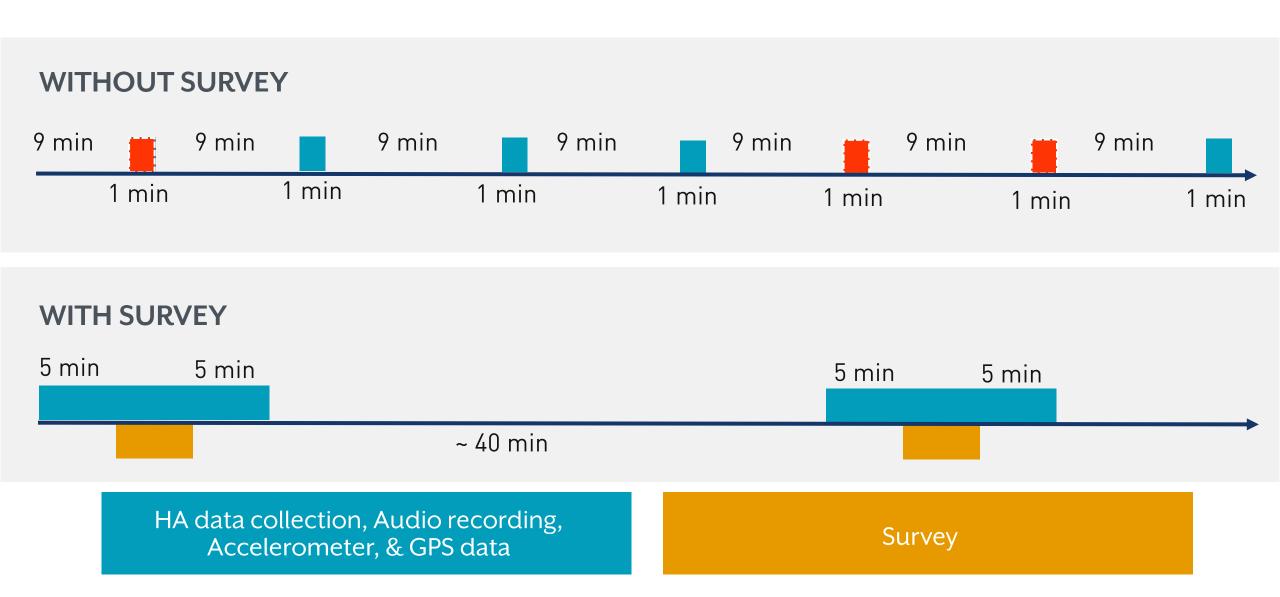
### Ecological Momentary Assessment (EMA)

A methodology involving repeated collections of real-time or very recent (i.e. momentary) data describing subjects' experience and context in their natural (i.e. ecological) environments.

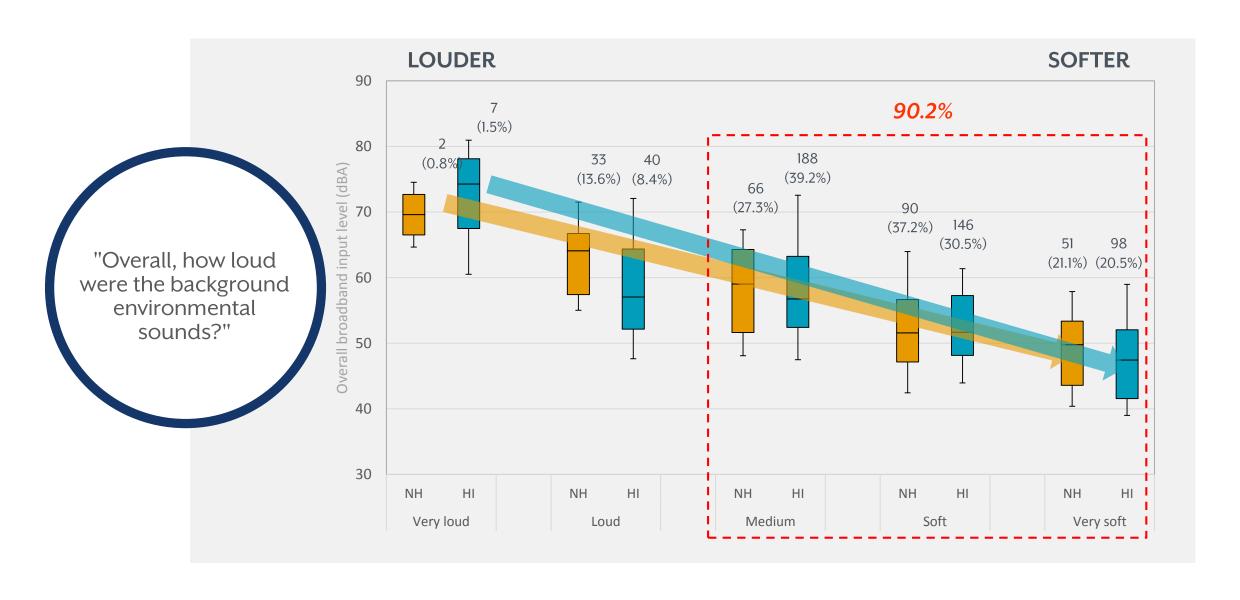
(Shiffman et al. 2008)



### **EMA DATA COLLECTION WAVES**



### LOUDNESS & HA OVERALL INPUT LEVEL



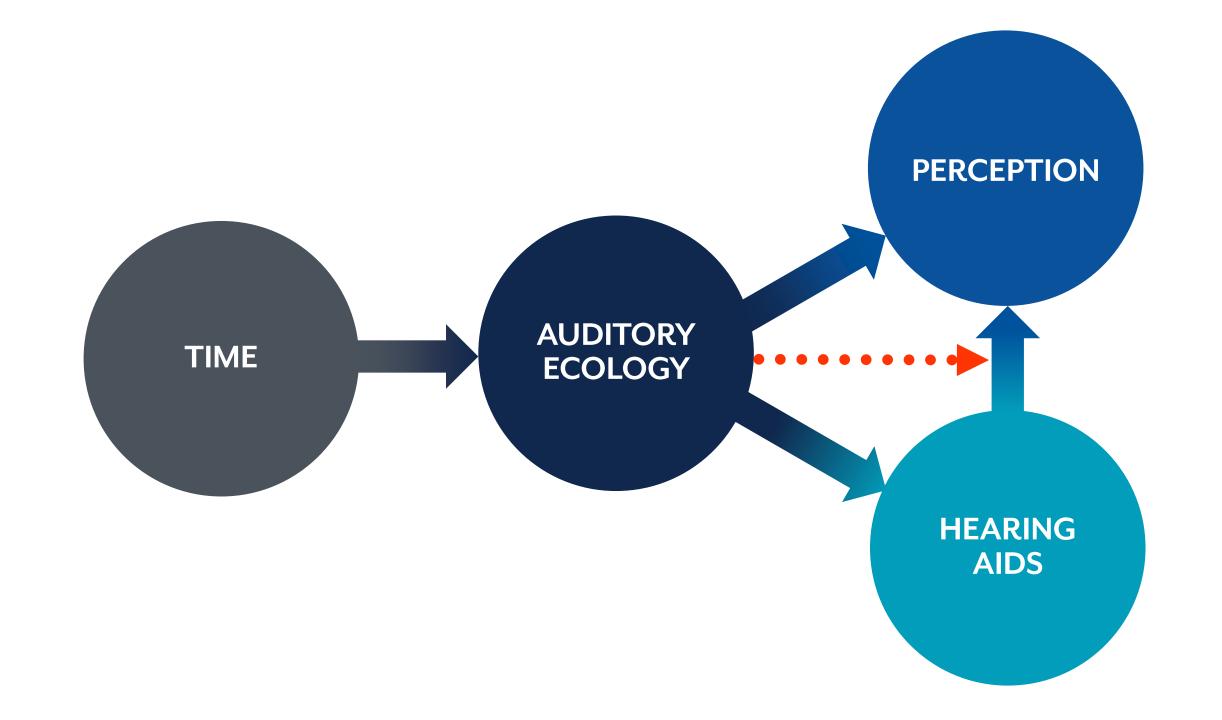
### FROM THE DATA

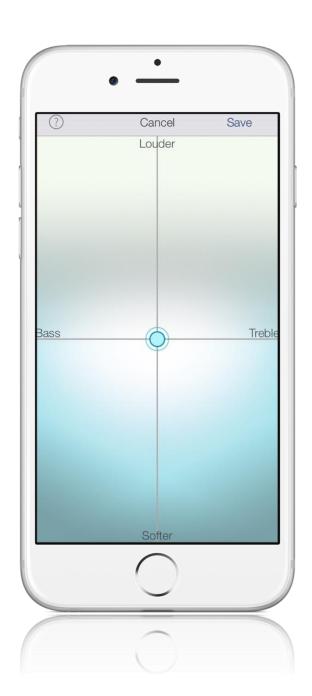
#### **Variations**

> Large and expected variations in the collected data were observed. Subjective report in auditory environments and listening experiences correlate to the objective measurements by hearing aids for both subject groups; these patterns were similar for both groups.

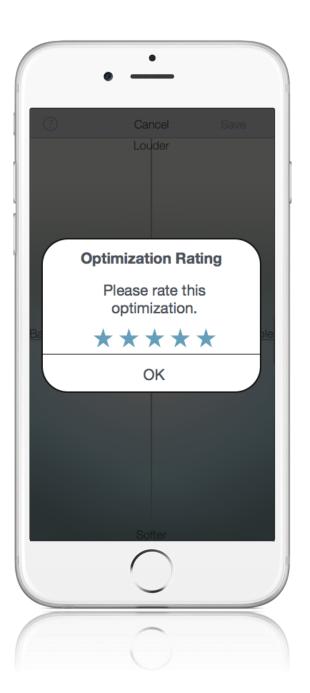
#### **Strength in Numbers**

> Current analyses were based on data from a small number of participants. More data will clarify patterns and strengthen analytics.





## TRULINK



Conveniently connecting patients and providers

Real-time data

and interventions

Giving consumers more control over their health



# Thank You!

