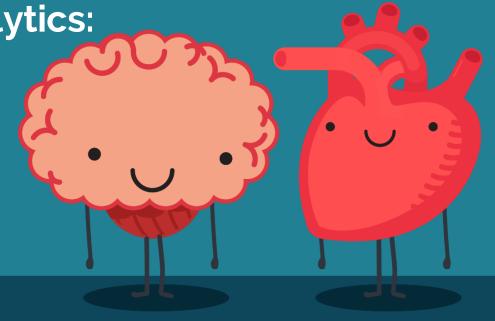


Applied AI in Voice Analytics:

Can smart innovations save us from stress?





Decision making continues to change

Understand how people make decisions today - online & offline













Decision Journey Mapping



Net Revenue Management

Brand Advanced Communications

Analytics

Product Innovation





Boston Consulting Group







McKinsey&Company



NETFLIX

PHILIPS

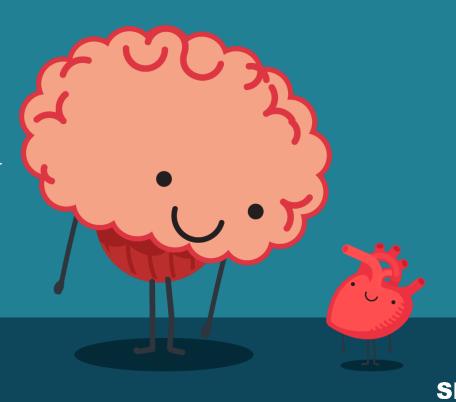


Uber



Overcoming NPD insights challenges

- Consumers' emotions can be key to predict market potential
- Quantification of emotions vital for informed decision making
- Bias to overstate interest



How to quantify emotions

Traditional Approaches



Qual

- + Uncover emotions
- Results can't easily be scaled

Quant

- + Robust results of stated emotions
- Lack the depth of emotions
- Overstated interest in innovations



How to quantify emotions

Traditional Approaches



Qual

- + Uncover emotions
- Results can't easily be scaled

Quant

- + Robust results of stated emotions
- Lack the depth of emotions
- Overstated interest in innovations

NEW Hybrid Approach



Qual + Quant + AI

- + Analyze '**HOW'** people communicate their needs, attitudes and interest
- + Combines best of Qual + Quant techniques
- + Better uncover implicit emotions for more effective innovation strategies

Introducing a new insights approach

- AI tool to detect emotions from voice
- Based on subconscious reactions
- Applications in
 - Health science, smart assistants, call centers
 - Market research?



Johnson Johnson

"We are constantly investigating ways of gathering deep human understanding using both explicit and implicit tools."



Sofia Jorman

Consumer Science Manager, Global R&D operations, Johnson & Johnson Consumer Division SelfCare

Putting the approach to the test Step 1: Identify an unmet need

Stress as a modern epidemic

- 80% of UK consumers report medium to high stress levels
- 54% place more importance on mental health



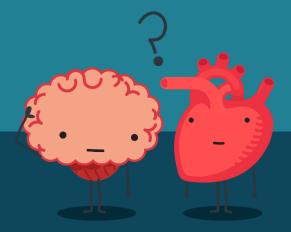


Space for innovation in stress management

High need to receive **more help** in managing stress

80% of UK consumers open to a technological solution

- Needs to work on demand and not disturb daily activities
- Stress monitoring & regulation device / app preferred





Putting the approach to the test Step 2: A SKIM product design

SmartHealthBand

Healthy lifestyle device

- Health parameter tracking
- Stress Management Advice
- Electronic Stress Relief



Putting the approach to the test Step 3: A case study

Tool assessment

- > Quantify initial emotional reaction?
- > Emotion segmentation?
- > Overcome bias to overstate interest?
- > New insights?

Pilot hybrid study

- > n=201 respondents (UK)
- > Audio recordings
- > Content analysis: WHAT was said
- > Implicit emotion analysis: HOW was it said













87% express interest in the *SmartHealthBand*

- > People describe the impact stress has on their life
- > Concept is seen as a solution that can genuinely help them







The Implicit Emotion Analysis

1. Types of emotions





- -> resentment
- -> grief
- -> suffering





Solution!

- -> euphoria
- -> compassion
- -> relief

Segmentation Insights



Male



Female



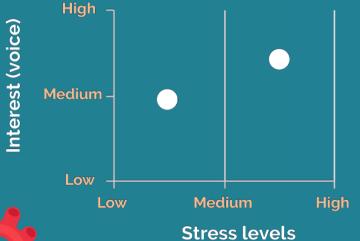
> Deep, unique emotional understanding – at scale to validate human need with greater confidence

> Difference in emotional gender drivers to inform communication strategies



The Implicit Emotion Analysis

2. Scaled Interest levels





- > Interest level correlates with stress level
- > Interest based on voice: 75% (87% stated!)

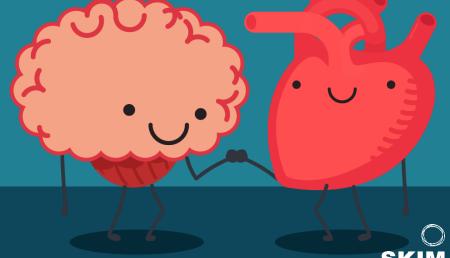


> More realistic of product interest to inform future innovation platform



Johnson-Johnson

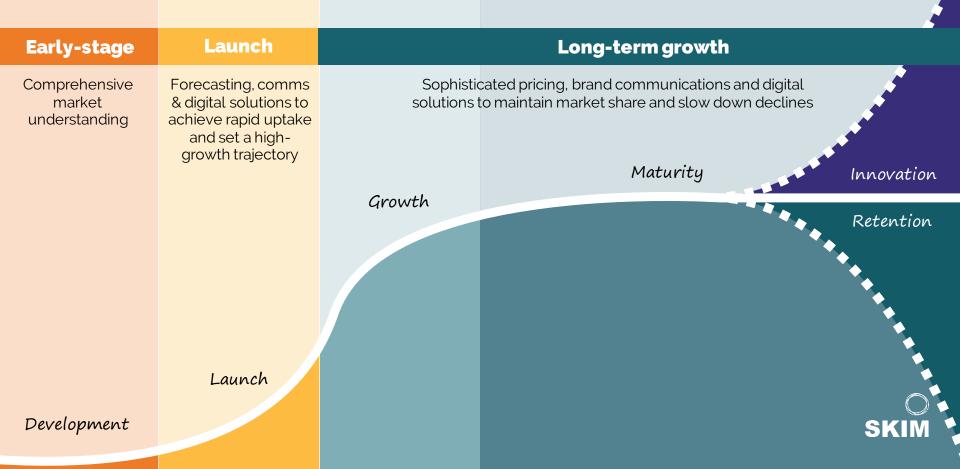
"Using the voice analysis tool for this research piece helped us not only to learn more about stress, it also allowed to evaluate an innovative methodology."



Sofia Jorman

Consumer Science Manager, Global R&D operations, Johnson & Johnson Consumer Division SelfCare

Better decision making throughout the product lifecycle



Smart digital solutions

UNSP®KEN®

DigiShop



Price Explorer

Mobile Conjoint













Interested in more AI, voice and digital solutions?

Visit us at booth 403 to discuss AND join our raffle to win an Amazon Echo voice assistant! Judith Suttrup j.suttrup@skimgroup.com