

# www.warc.com/admap March 2013

Neurosdience in Practice

The Definitive Guide for Marketers

- Shopper Marketing's Rol
- Brazil's Global Brands
- 10 Fast Food Trends

- Rebranding Without The Onion
- Measuring Sales Performance
- The Lowdown on Vine
- Mythbuster
- Trendwatch: Localizasian
- Local Community Sponsorship

#### The Neuroscience Revolution

Increasing power of COMPUTING & TECHNOLOGY

Accelerating breakthroughs in **NEUROSCIENCE** 

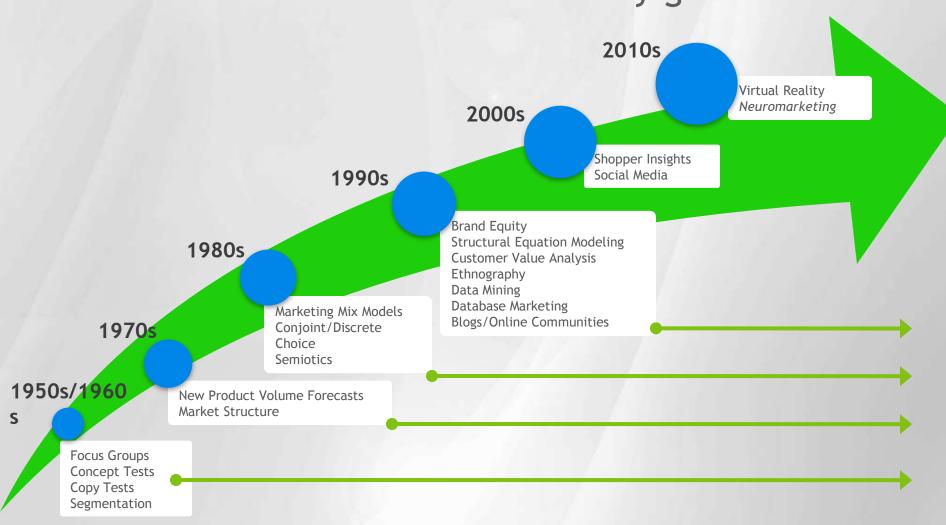
THE
NEUROMARKETING
REVOLUTION

#### **DEMAND**

for deeper insights from marketing research



# Evolution of Market Research ...but how far has it actually got us?



### But how far have has it got us?

#### Time for a 50 year review?

# Thinking about marketing research, to what degree do you feel the industry has equipped you to

1	Explain Consumer behaviour	Not at all	Not well enough	Not sure	Well enough	Absolutely
2	Predict Consumer behaviour	Not at all	Not well enough	Not sure	Well enough	Absolutely

Tick the box



# Video Clip of the Sub Conscious v Conscious



## Subconscious processing



### Kahneman's Contention

#### **Implicit**

#### System 1

Unconscious Emotion

> Limbic System

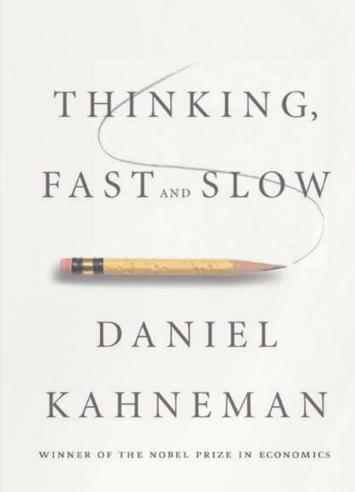
Associative

Very Fast

**Effortless** 

Involuntary

Here & Now



#### **Explicit**

#### System 2

Conscious Reason

Pre-Frontal Cortex

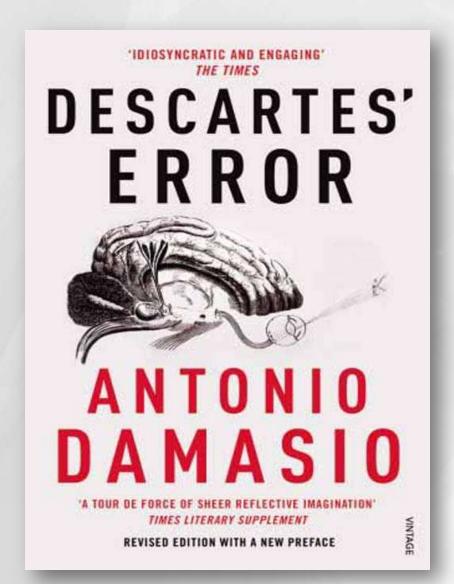
Rule Following

Slow

**Effortful** 

Controlled

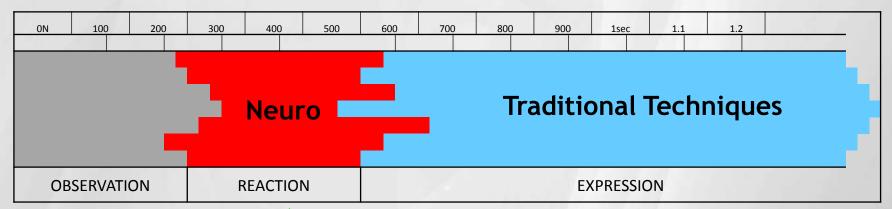
**Future Plans** 





Patients with damage to emotional parts of the brain cannot make decisions despite having no change in IQ

### (Very Simplified) Cognitive Timeline





# IMPLICIT SYSTEM 1

Often referenced as:
Non-Conscious
Non-articulated
Pre-Cognitive

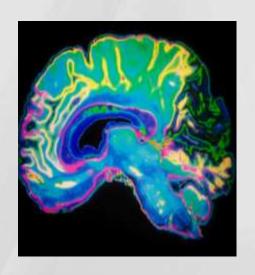


# **EXPLICIT SYSTEM 2**

Often referenced as:
 Conscious
 Articulated
 Post-Cognitive
 Expressed

### 5 Potential Benefits of Neuro Testing

**Evaluation-Insights-Optimization** 



- 1. Evaluates how consumers think / feel (not say)
- 2. Provides Quantified data, at deeper-than-Qual levels
- 3. Can detect *moment by moment* interaction with all forms of stimulus
- 4. Identifies *cause and effect triggers* of response patterns
- 5. Yields fresh, deeper, highly actionable insights

Complementary Tool

#### + Another 5 Potential Benefits

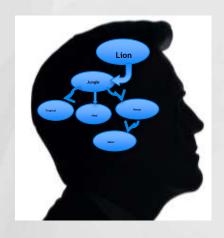
**Evaluation-Insights-Optimization** 



- 1. Applies very latest principles and hypotheses of Cognitive NeuroScience and NeuroPsychology
- 2. Delivers **rich diagnostics** for strategic and creative optimization
- 3. Reaches the parts other techniques struggle to reach eg emotions and feelings, creative, intangible, experiential and sensory work
- 4. Delivers a quantum leap in understanding consumer thinking and perception
- 5. Helps drive significant improvements in marketing ROI

Complementary Tool

### Increasing array of tools and techniques





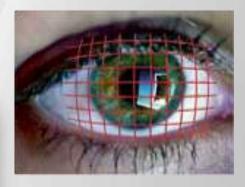












# 3 Core Approaches

**NeuroMetrics** 







**BioMetrics** 







**PsychoMetrics** 











# NeuroMetrics: Key Facts

#### **Harder Core Neuroscience**

Measure activity directly from the brain

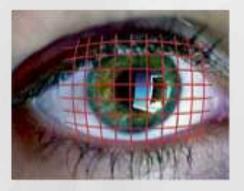
Sophisticated, Specialist, Hi tech

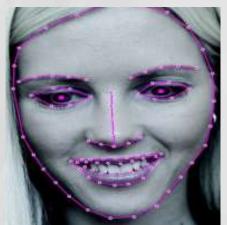
Deeper, richer response patterns

Strict protocols, unusual respondent experiences

Less scalable, slower turnarounds

Higher study costs







# BioMetrics: Key Facts

#### Measure physiological response

Measure moment by moment response

Lagged indicators

Often with neurometrics (especially ET)

Relatively simple to administer, Webcam & Inhome

Automated reporting, Scalable, Fast

### PsychoMetrics (Neuro-Implicit): Key Facts





#### IRT Testing measures associative response

IAT Derived | Reaction Speed | Priming

Specialist algorithms and study design

Relatively simple to administer, Web-based

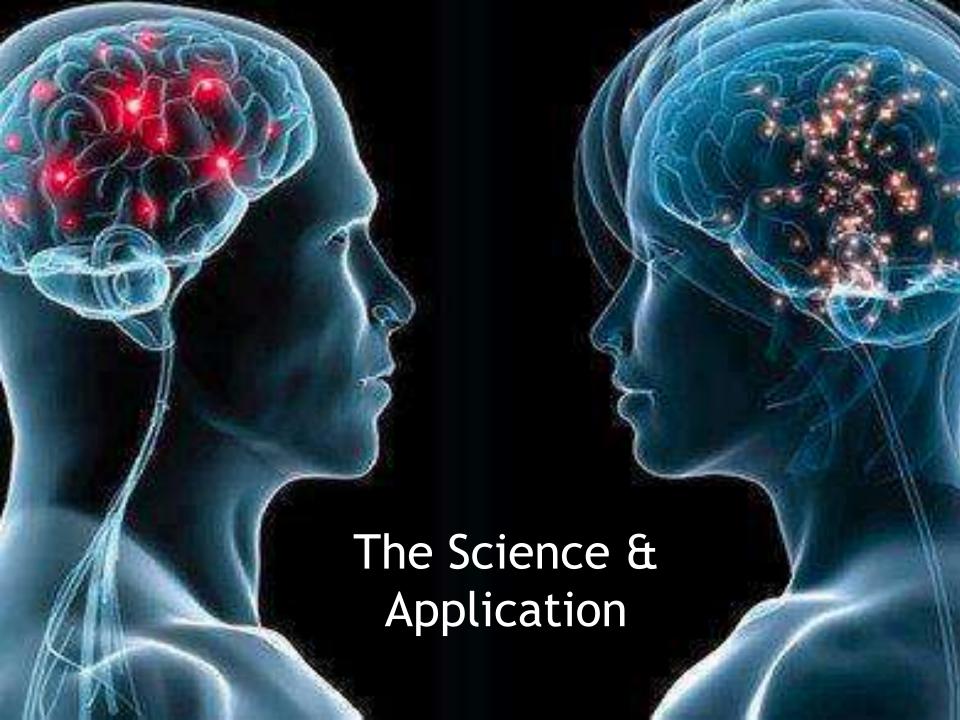
Fast, Adaptable, Scalable

Dial Testing measures moment by moment response.

Under certain conditions it is used as an implicit tool

#### Neuroscience toolkit

NeuroMetrics	BioMetrics	PsychoMetrics	
Neural Activity	Physiological (Bodily)	Psychological (implicit)	
Harder core neuroscience	Accessible physiology	Accessible neuro- psychology	
Deep, rich, multiple and specific diagnostics	Measures vary in degree of specificity. Some lagging indicators	Associative measures.	
Highly specialist* tool	Degree of required specialism varies with technique	Moderately specialist	
Wide ranging studies	Wide ranging studies	Wide ranging studies	
Less Scalable	Eye Tracking / Facial Decoding Highly Scalable	Highly Scalable	
Higher Cost	Least Expensive	Moderate Cost	



## Wide range of applications



- BRAND
- POSITIONING
- DRIVERS



- PRODUCT
   DESIGN
- SENSORY



- PACKAGING DESIGN
- SENSORY



- ADVSG
- COMMS
- MEDIA PLANS
- EXPERIENTIAL
- TOUCH POINTS



- IN-STORE
- ONLINE
- ACTIVATION

## **Advanced Implementation**



Full-scale neurological testing centers

Operated on behalf of individual clients

On-site staff of neuroscientists, neurophysiologists, technical experts, and consultants

#### Characteristics of advanced, neuro-literate clients (1)

Journey of discovery

**Partnerships** 

Blended frameworks

Testing hypotheses / Validating working practices

Clients think differently

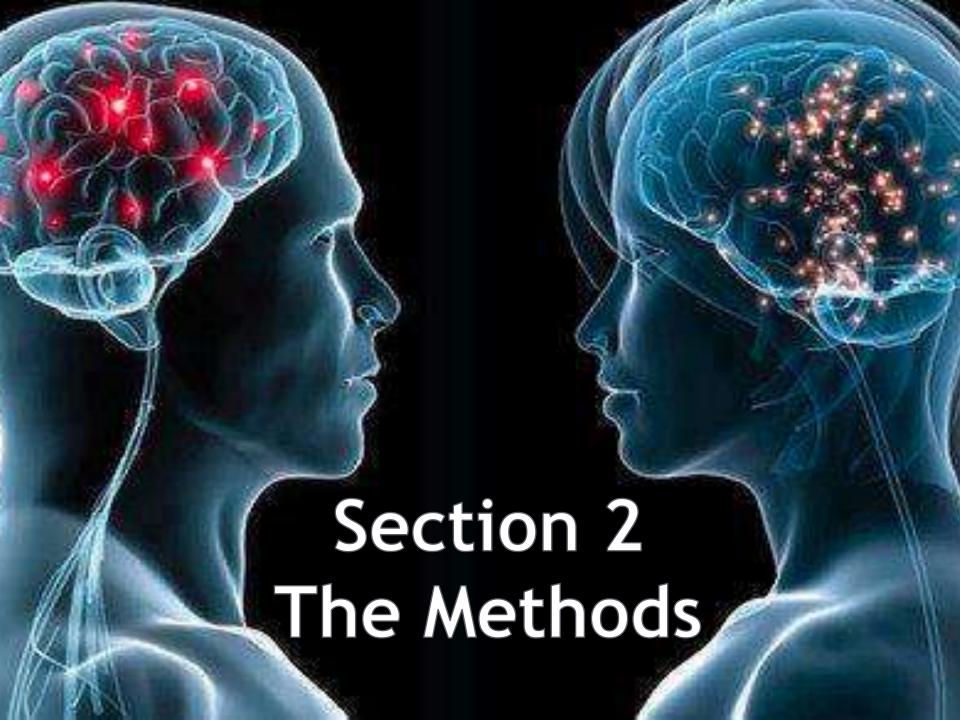
Behave differently



#### Characteristics of advanced, neuro-literate clients (2)

- Accumulate actionable neurological insights
- Fully leverage them across portfolios, categories, and cultures
- New Golden Rules and Best Practices
- 'Believe' and are energized by the increasing opportunities





# **Differing Perspectives**



- Academics v Academics
- Practioners v Academics
- Sceptics v Advocates
- Differing Client Perspectives

## Simmering Debates

What is true State of the Art?

Why internal Academic Divergence?

Practioner Competency?

Validation v IP?

#### Video clip: Coke endorses NeuroMarketing



#### Research Business DAILY Report



**Bob Lederer** 



Stan Sthanunathan

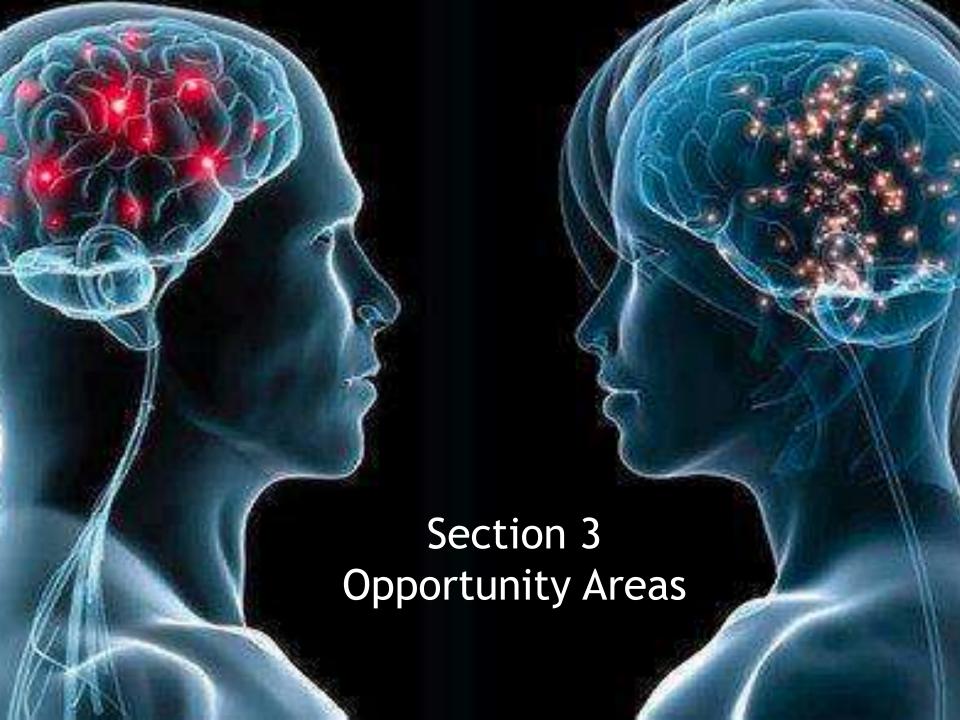






# Video Clip





# **Areas of Opportunity** Experiential Sensory InNoVaTiOn & CrEaTiViTy

### Why so difficult to research?



Emotion-centred topics
Unfamiliar to consumers
Fewer consumer reference points
Limited consumer language / lexicon



Biggest gulf between predicted and actual behaviour
Deepest dissatisfaction from marketers

# Research Challenges



# Innovation + Creativity

Creative / Design industry tension with traditional research

Constraint on creativity and ideas

But can new science-led research methods can help?

#### Maybe? Maybe Not?

OMG. Please.....No more research! Whatever it is!

Fantastic! At last something that can measure emotional responses. Bring it on.

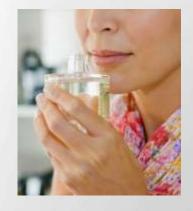
Enslaver or Liberator of Creativity?























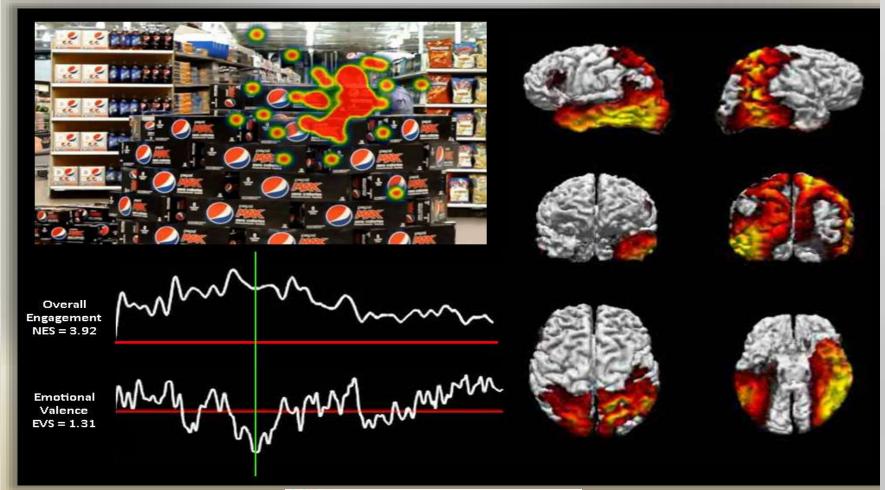






### **Creative Diagnostics**

**EEG** Scene by Scene Metrics







# VW Mini Darth SuperBowl Ad Creative Diagnostics







#### VW: Mini Darth



UNCONSCIOUS BRANDING

HOW NEUROSCIENCE CAN EMPOWER (AND INSPIRE) MARKETING

**DOUGLAS VAN PRAET** 

Deutsch LA's Executive Vice President and Group Planning Director for Volkswagen, Douglas Van Praet:

"If we had relied on traditional testing for VW's "The Force" ad we may have not run it. Sands Neuro-Engagement Score proved we were sitting on gold."



### Scene by scene trace

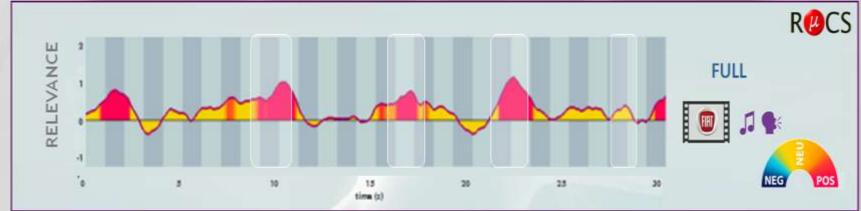










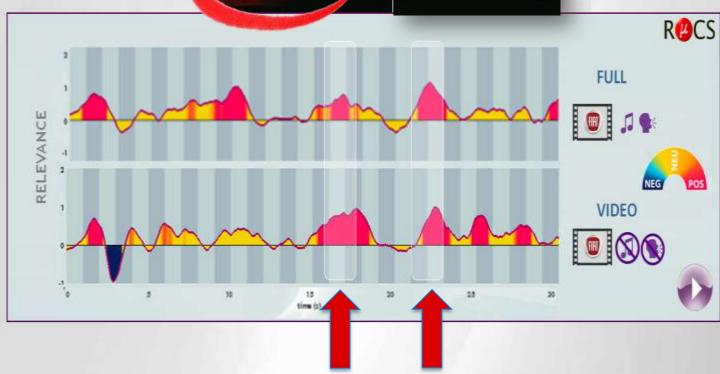




#### With and without soundtrack











#### Still Selection for Outdoor + Print



Which Scene has most potential for Outdoor or Print?



Scene 1: involves extra layers of sensory activation (touch)

Scene 2: also engaging, but less differentiated



# Outdoor & Print Scene Recommendation







The Sense Power of Touch





#### The Emotional Potency of Touch











How other brands have used it eg Peugeot 2012

#### Mirror-Neuron System Activation









(MNS) is activated when we see someone performing an act that's **emotionally** relevant to us.

Techniques monitor the extent to which an ad stimulates the observer's brain to reach out and handle /consume the product immediately.

### Optimal Scene Selection

#### by Media Channel and Format









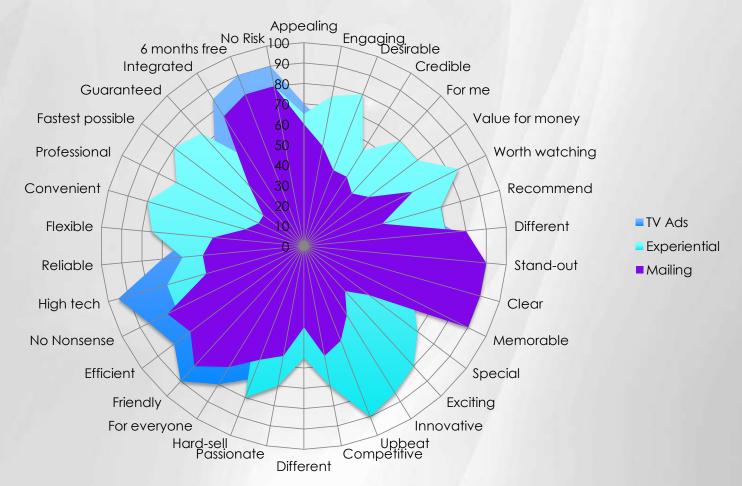
**48 SHEET POSTER** 

**MAGAZINE PRINT AD** 

**WED BANNER AD** 

Algorithms automatically extract compressed versions of the ad based on neurological optimality.

# Touch Point Mapping What contribution does each TP deliver to overall goals?

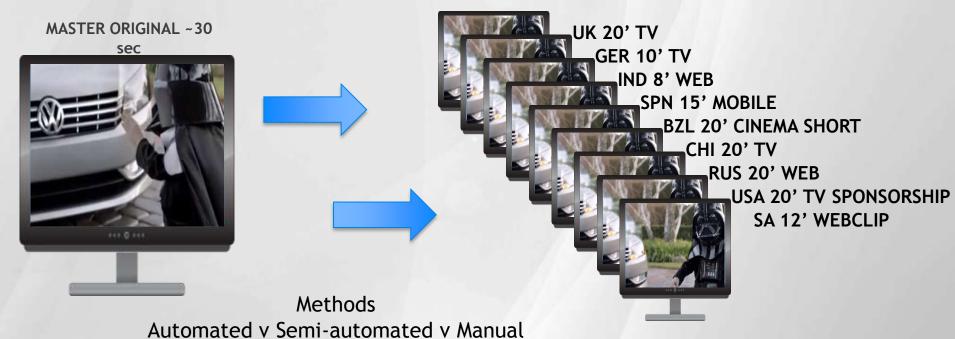


Provides framework template against which to evaluate specific ads / claims and other comms/ touchpoints



#### Automatic Neuro-Repurposing of Ads





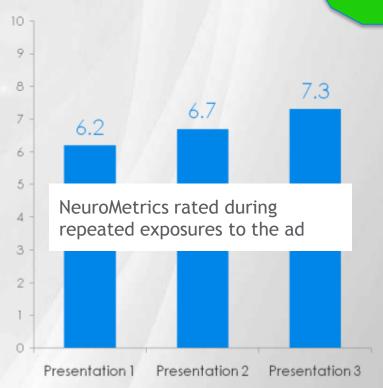
Benefits: Speed, Cost reduction, Creative optimization, Effectiveness

### Ad Wear-Out Profiling





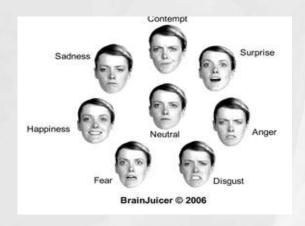
Reach v Frequency?



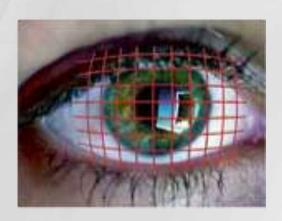
Helps optimize Media Plan and Media Buy

# Alternative Moment-by-Moment methods

















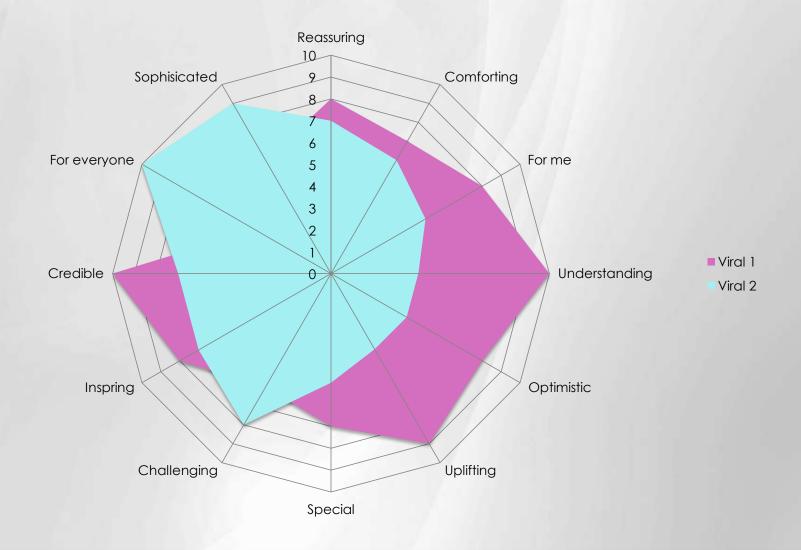




# Virals: Drawing out intended emotions via Implicit techniques

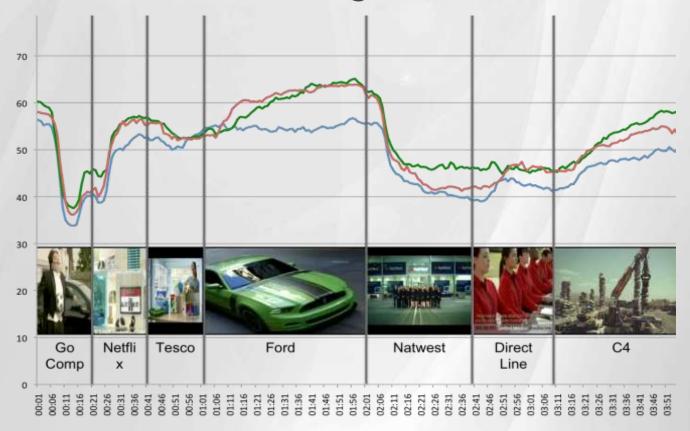


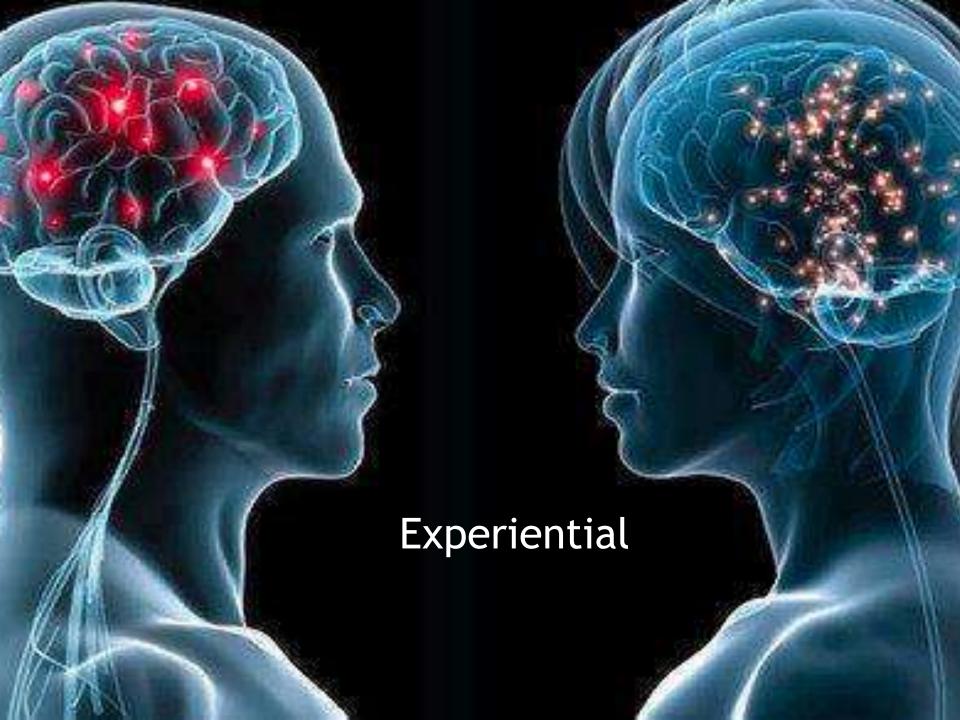
# Desired Emotional Response Mapping eg Ads v Virals



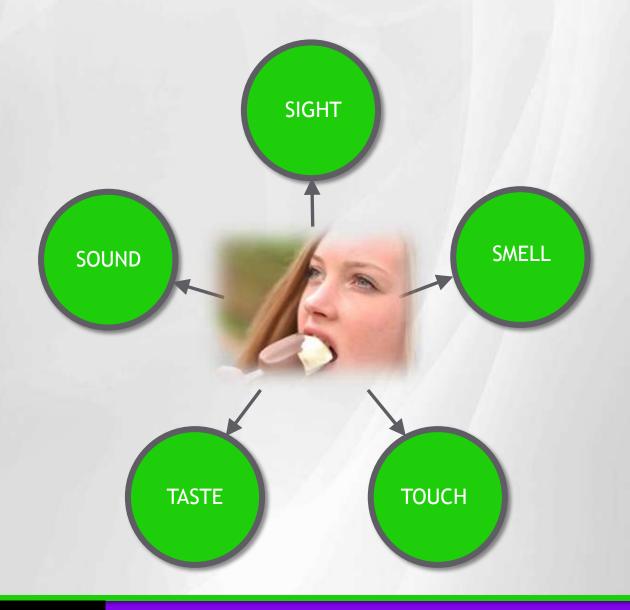
# Ability to stand-out

Dial testing in ad break





# Sensory Experience Framework



# Parietal (Taste/Touch/Smell) Brain Stimulation



EEG can record the brain areas responsible for taste, touch, and smell, second-by-second as the experience unfolds

Superior communication results in the direct stimulation of the parietal area of the brain, where the product is enjoyed.

Particularly important for brands in food and beverage categories or others with sensory or experiential attributes

### Emotional Iconic Triggers (EIT)











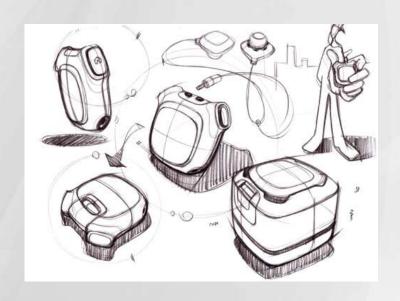
Which generate the highest levels of emotional engagement.

How then deployed?

# Example Emotional Arousal Trace eg Cream Liquor

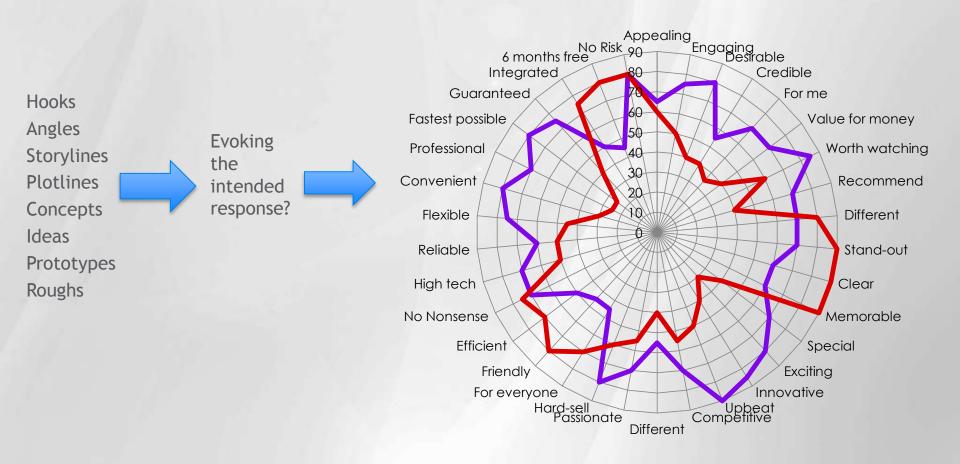


# Activating Iconic Triggers Upstream R+D + Downstream Activation





### Ideas Testing at a deep subconscious level





# The power of audio

- Under-utilized
- Precious, powerful
- Extraordinary ability to instantly unleash deep emotions
- Powerful emotional memories triggered by sound
- Physiological impacts

### Why under-utilized?

- 1. Visually-dominated Creative and Design industry
- 2. Entrenched skill sets

3. Limited testing / optimization

## Unlocking the opportunity

Audio Brand Identity | Architecture

**Product Design** 

Ad soundtracks

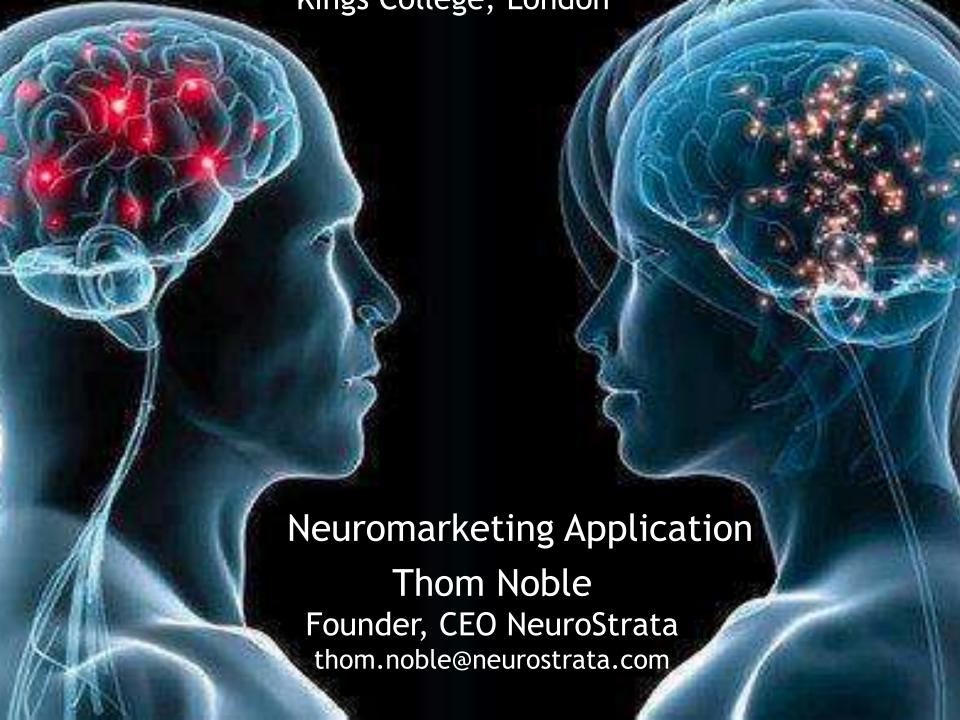
TV Programming

Activating Emotional Iconic triggers

**Ambiance creation** 

### **Key Take-Aways**

- New techniques are potentially transformational in improving effectiveness
- Especially in emotionally-centric study areas: Creativity, Sensory and Experiential development
- There's no right or wrong methodology
- Executed well, they all have something to offer
- Understanding the pros and cons of each approach is critical
- Robust validations are not yet public currency
- New methods are not fully standardized
- NB! vendor competency in new methods is a significant variable
- Take specialist advice and DON'T be blinded by science



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