

## ***Wearable e-noses for health & wellbeing:*** Designing for a real user need



**Quantified Self Show & Tell #21**  
29<sup>th</sup> October 2013

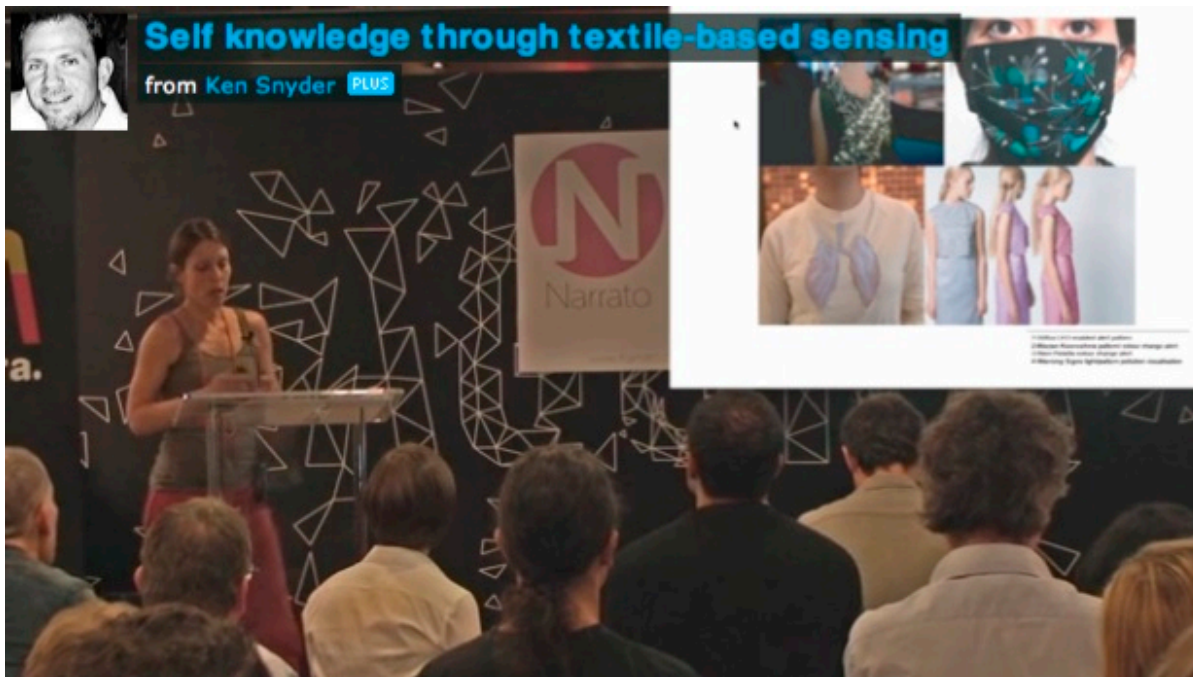
Anne Prahll

## Self-knowledge through textile-based sensing?



Quantified Self London Show & Tell #17  
18th June 2013

Anne Prah



<https://vimeo.com/channels/londonqs/videos>

## Wearability



- Lack of choice/ *customisation* opportunities
- Device location *on body*
- Device *position* on garment/ accessory
- Remembering to wear device

## Wearability



- Wearable device *carriers*
- Device *visibility*
- Weather *conditions*



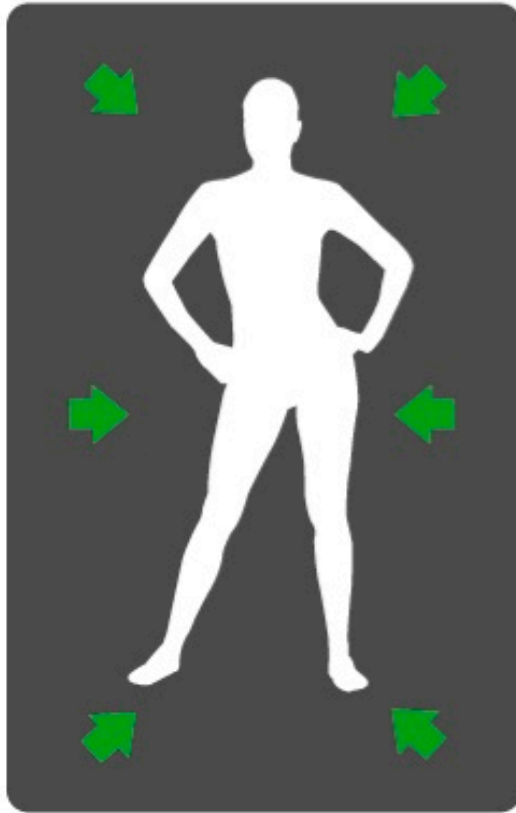
## Issues: Global healthcare burden & non-communicable diseases



**Opportunities:** *Active Prevention with ‘digital health tools’*



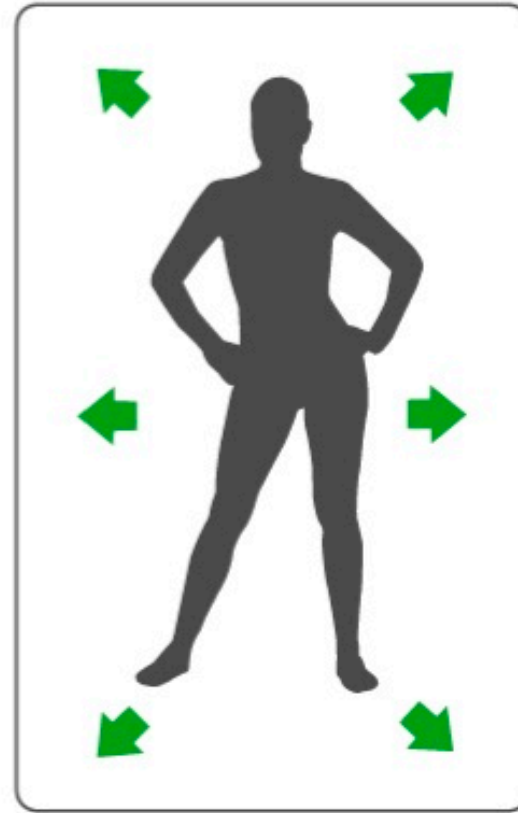
## PROTECTION



**ENVIRONMENT**

*external stimuli*

## DETECTION, MONITORING & EARLY DIAGNOSIS

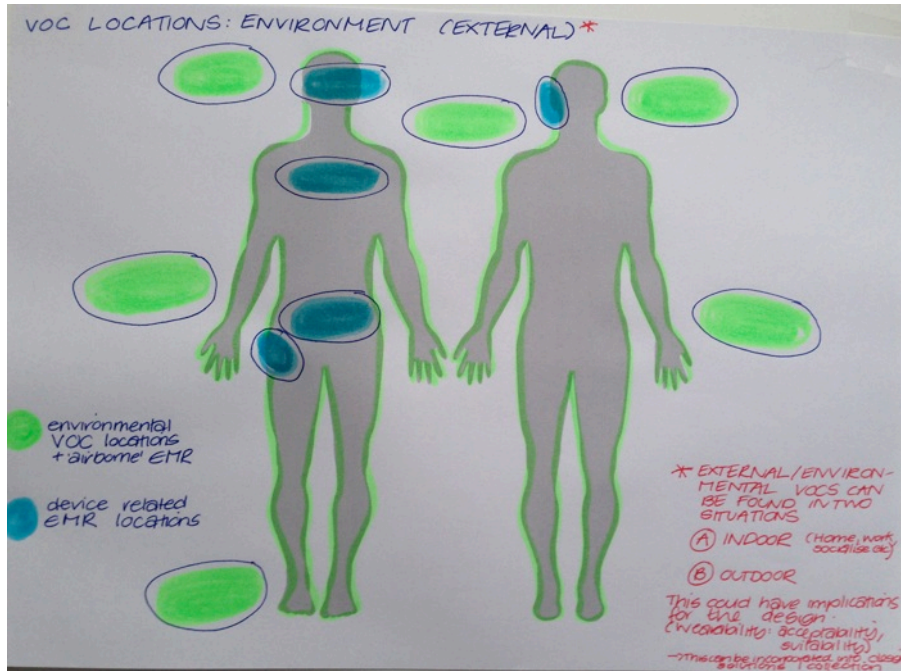


**SELF**

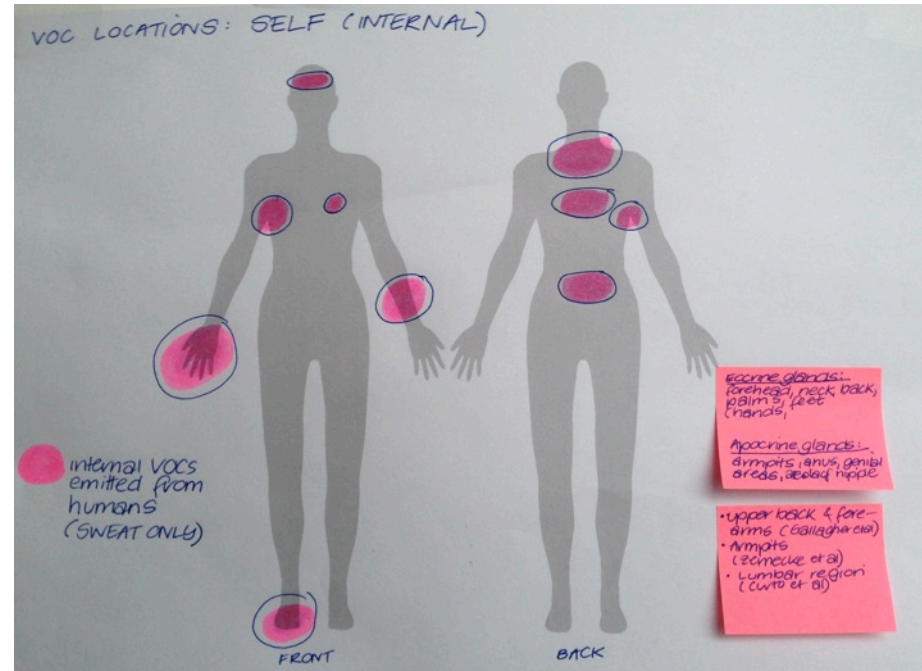
*internal stimuli*



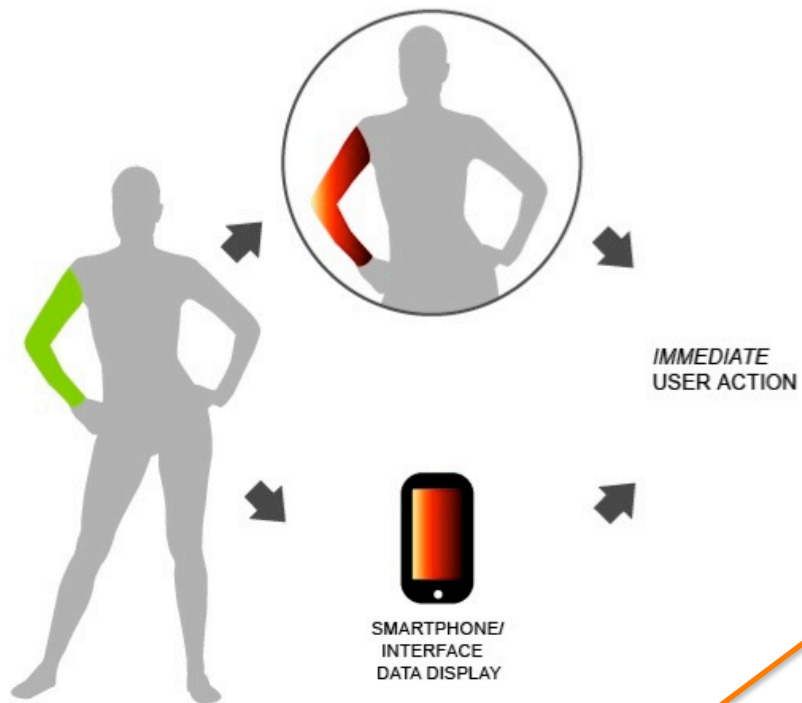
## EXTERNAL STIMULI: VOCs and EMR



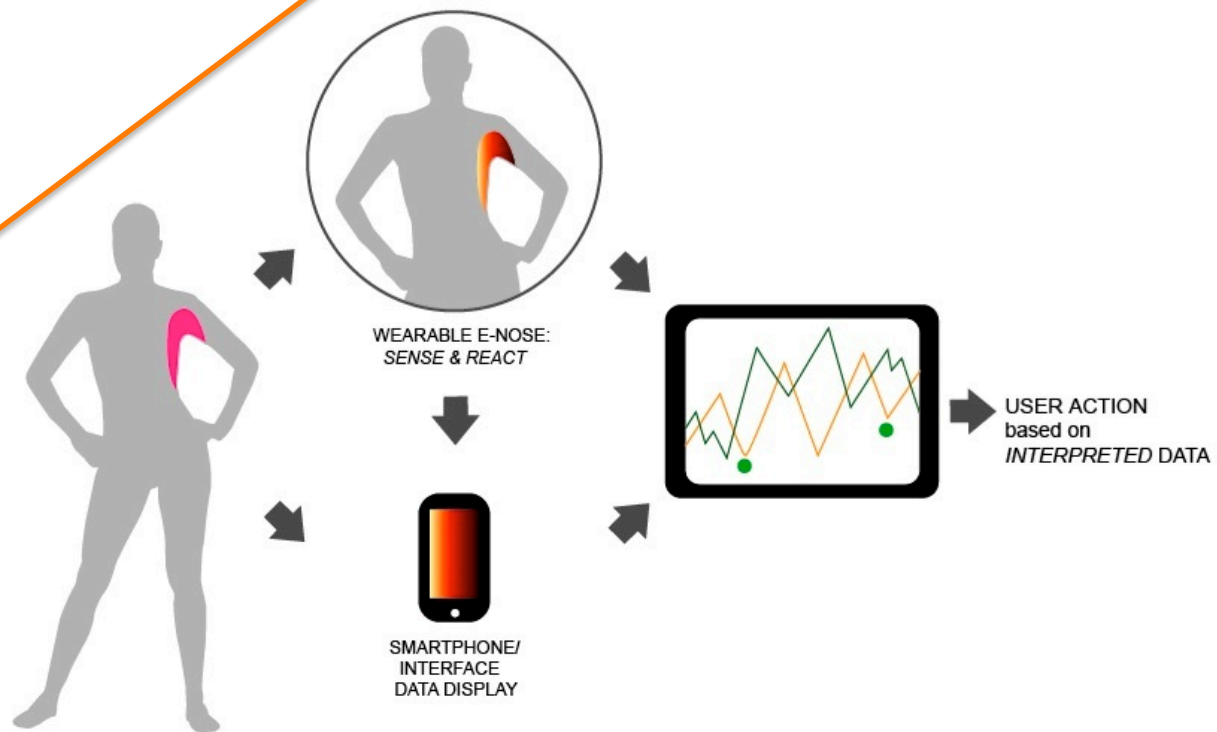
## INTERNAL STIMULI: VOCs



## Wearable e-nose: *EXTERNAL*



## Wearable e-nose: *INTERNAL*







Contact details:  
[a.prahl1@arts.ac.uk](mailto:a.prahl1@arts.ac.uk)