

AWAREABLE

An illuminated smart wearable, enabling awareness

The brief

This project started out as a quest to find a meaningful application for the electroluminescent material: a phenomenon where a plane of phosphor is lit up when an alternating current is run through it.

The material

The material has several unique properties which make it perfect for application on smart wearables:

1. It emits light
2. It is paper thin.
3. It is flexible.
4. It allows for an almost unlimited form freedom.
5. It can be printed on a lot of different materials, including fabric.

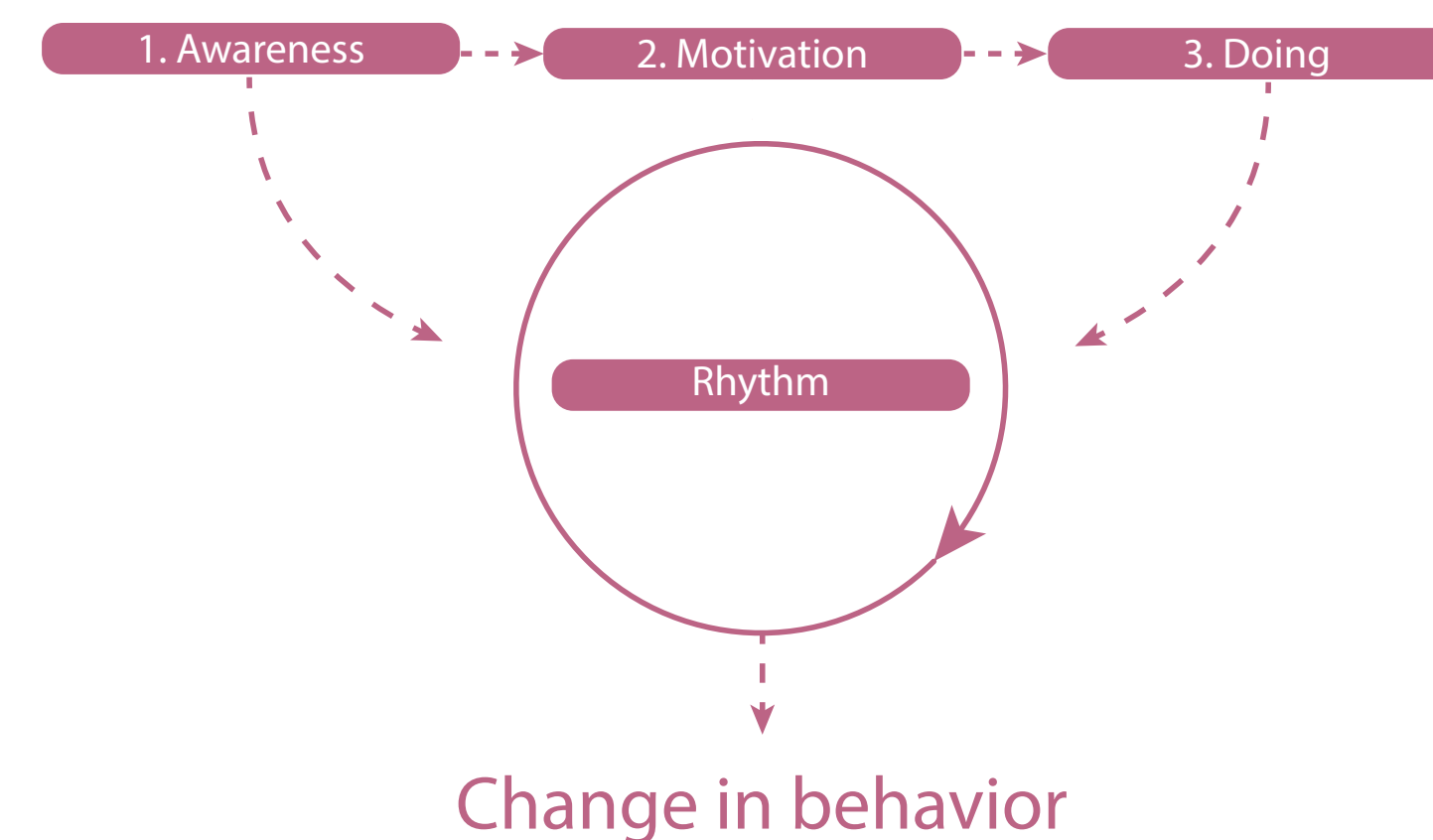
These properties can not be found in other forms of light, which gives this material competitive advantages in the field of smart clothing. The picture below shows a sample of the electroluminescent material, printed on Lycra fabric.



Josien Verhoeckx
Electroluminescence; a user-oriented material driven design
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Design for Interaction

Committee

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The application

One aspect of life often forgotten is physical activity. In busy periods, it is hard for people to maintain a rhythm. Yet it is this rhythm that can help with maintaining a healthy physical lifestyle. What if our clothing would help us remain active? Not by demanding even more of us, but just by keeping us up to date with ourselves, helping us gain awareness on our movements and connecting us again with our bodies.

Well, meet Awareable.

This smart system makes the user aware of their daily physical activity. The progress of a daily set goal is reflected on their wearable; the further the progress, the more electroluminescent sections will light up and the more appealing the garment becomes. This constant reflection enhances awareness which eventually leads to the wanted behaviour change of being more active.

