

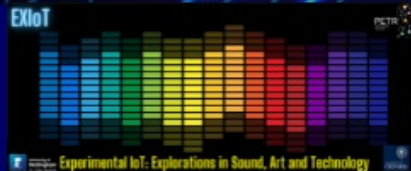
RESPONSIBILITY RE-IMAGINED



University of
Nottingham
UK | CHINA | MALAYSIA



Trustworthy
Autonomous
Systems Hub



UNIVERSITY OF
OXFORD



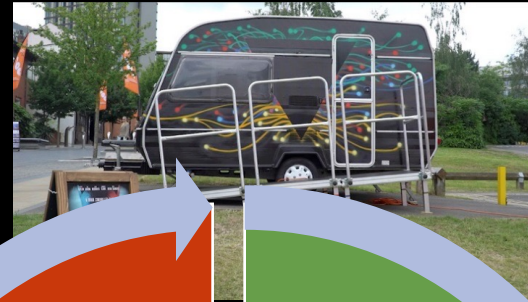
Chaired by Alan Chamberlain & Dave De Roure

ALBINO
MOSQUITO

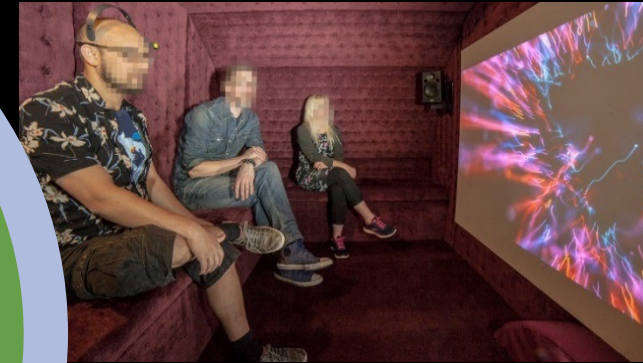


Performance-Led Approach [1]

Production



Exhibition and touring



Data collection
Audiences

Creative Practitioners

Practice

Studies

Theory



Interdisciplinary Researchers

Performance-Led Research in the Wild. Benford, 2013

a single hour of television produced in the U.K.—fiction or nonfiction—produces [13 metric tons of carbon dioxide](#)- BAFTA

A single film set can produce [347 tons of waste](#) per production. That's more than [three times](#) what the average American generates in their lifetime.- plasticpollutioncoalition.org

BETTY KAPLAN ALI GADEMA LULA MEBRAHTU JENNIFER CLAIRE WITH ANTON SAUNDERS

A BRAIN CONTROLLED FILM

AN ALBINOMOSQUITO FILM

THE MOMENT

WRITTEN AND DIRECTED BY
RICHARD RAMCHURN

THE MIXED REALITY LAB PRESENTS AN ALBINOMOSQUITO PRODUCTION IN ASSOCIATION WITH HORIZON "THE MOMENT"

BETTY KAPLAN ALI GADEMA JENNIFER CLAIRE LULA MEBRAHTU ANTON SAUNDERS ALEX THOMPSON SIMON PARKER MADISON FIJALKOWSKI DANI TONKS

SOUND DESIGNER SCRUBBER FOX MUSIC BY HALLVARÐUR ASGEIRSSON COSTUME DESIGNER LORNA BLACK PRODUCTION DESIGNER RHIANNON CLIFFORD PRODUCED BY RACHEL RAMCHURN

DIRECTOR OF PHOTOGRAPHY MAT JOHNS VISUAL EFFECTS BY LUKE DEWHURST INTERACTION ADVISOR SARAH MARTINDALE BRAIN COMPUTER INTERFACE ADVISOR MAX L. WILSON EXECUTIVE PRODUCER STEVE BENFORD

COMING SOON SUMMER 2018

WWW.BRAINCONTROLLEDMOVIE.CO.UK

Synopsis

In "The MOMENT," a near-future world where everyone is connected through the Neural Lace, some "Outliers" are persecuted and hunted by militias, but when a young woman marked as an Outlier and a disillusioned militia member team up to confront the system behind their persecution, they discover a powerful consciousness.

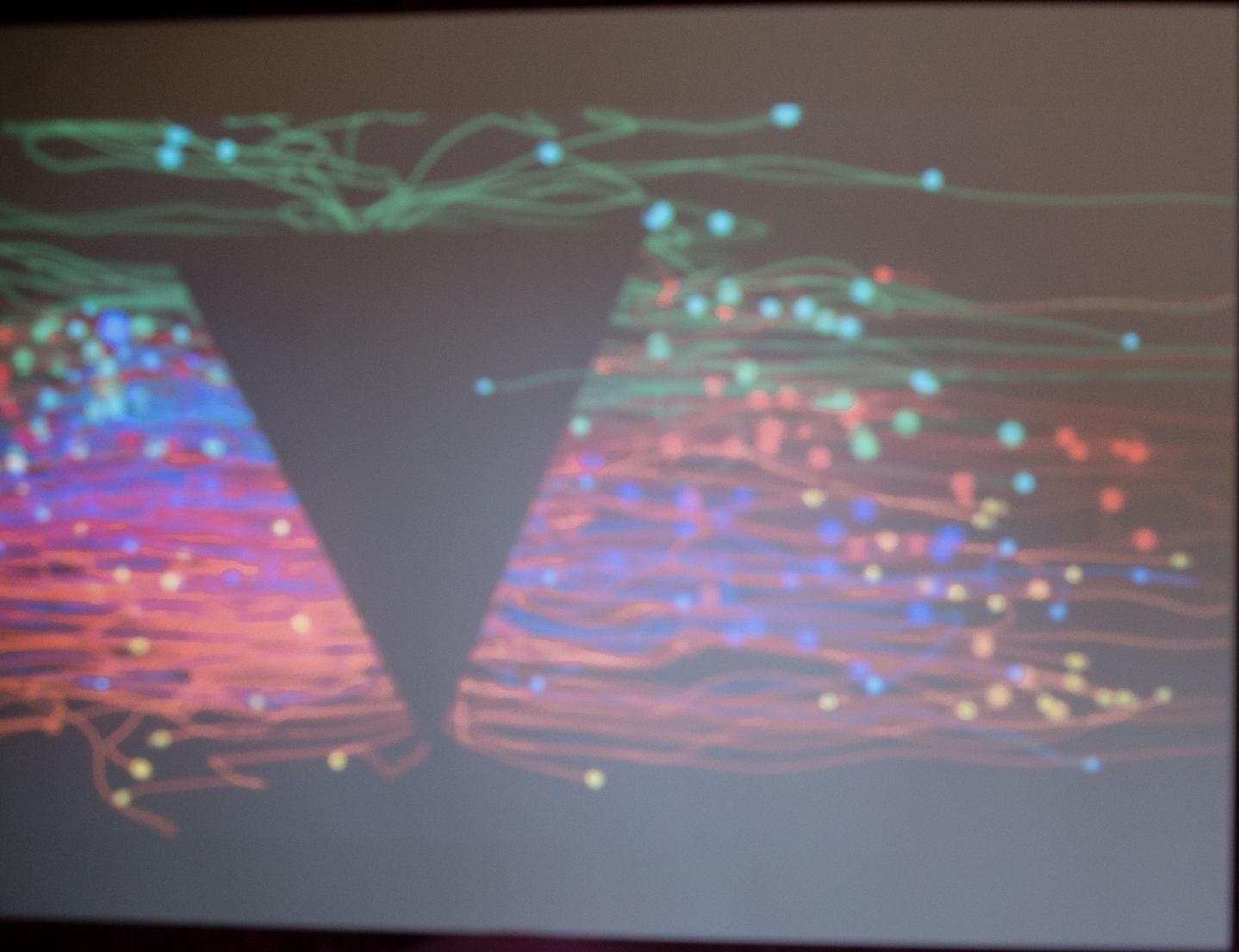
Sustainable Production

Caravan was bought 2nd hand.

Used as a location set in the film.

Converted into a cinema and used to tour the film





A woman with long, dark braids is shown in profile, looking towards the right. She is wearing a light-colored top. The background is a dimly lit room with blue and purple lighting, featuring horizontal blinds or a window with a view of a building. Overlaid on the image is the text "BEFORE WE DISAPPEAR" in a bold, red, sans-serif font. The text is split into two lines: "BEFORE WE" on the top line and "DISAPPEAR" on the bottom line. The text is centered horizontally and partially overlaps the woman's face and the background.

**BEFORE WE
DISAPPEAR**

Synopsis

In a post-apocalyptic UK, climate activists use autonomous weapons to assassinate high-level individuals, leading to a power vacuum and a move towards a circular economy, while two people behind the purges deal with their personal fallout in "Before We Disappear."



Sustainable film production



GREW PLANTS FOR THE FILM
AND ATE THEM.



NOTHING WAS DUMPED.



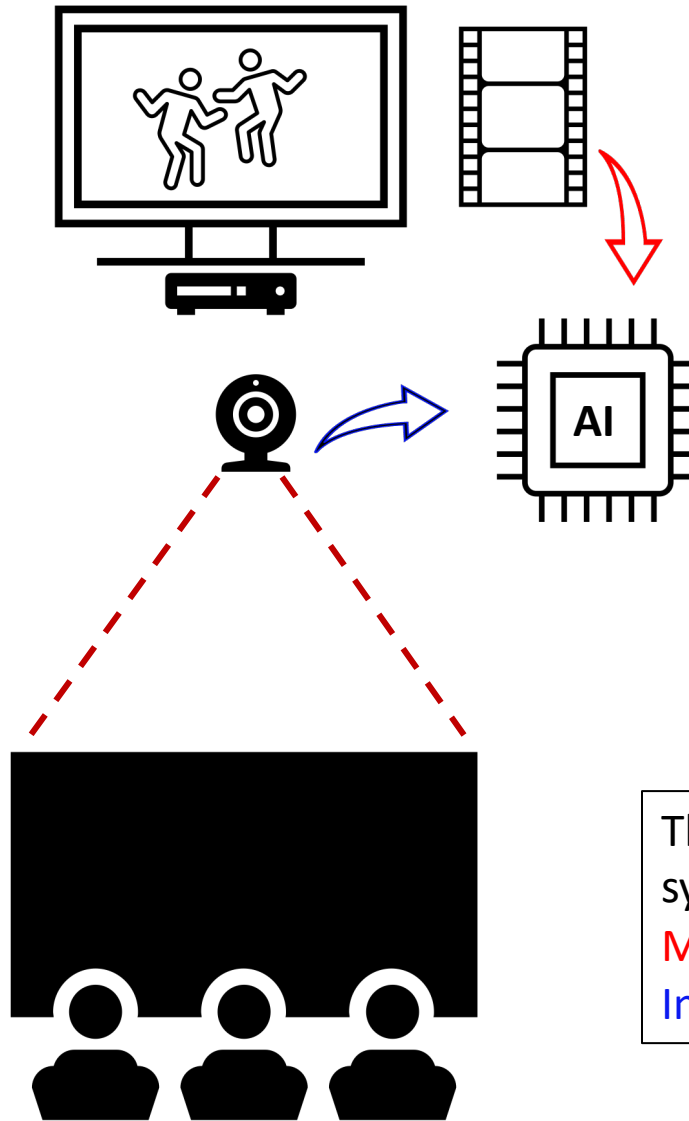
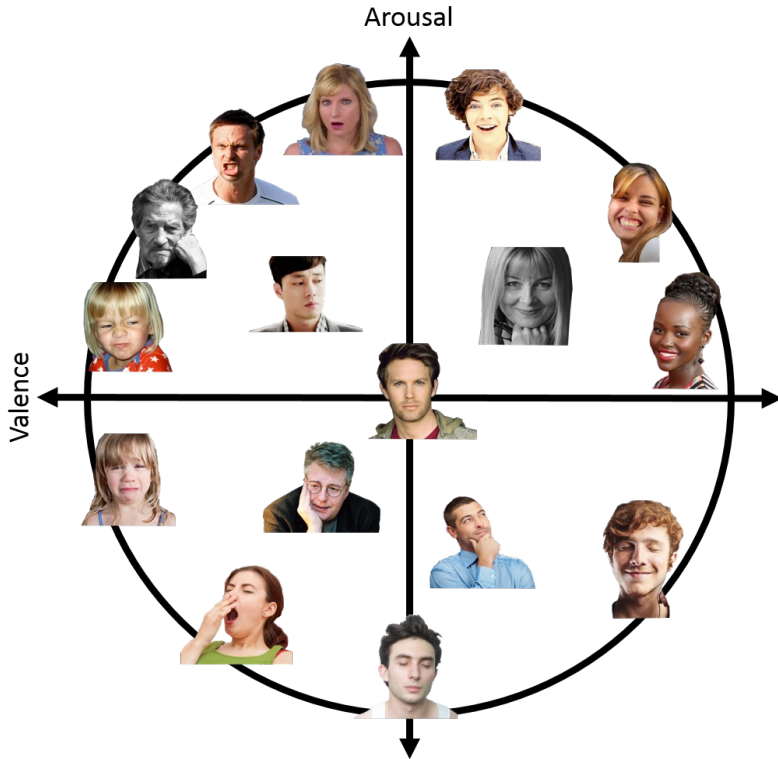
SET SOURCED FROM RECYCLED
SET STORE AND RETURNED.



“Most sustainable production I have ever worked on.”- Kerry Bradley Set designer for over 20 years

Emotional Synchrony Assessment for Apparent Engagement Estimation

Russell's Circumplex Model of Emotions



Marked-up Valence and Arousal Trajectories



Inferred Valence and Arousal Trajectories

The higher the synchrony between **Marked-up** and **Inferred** Emotions

The higher the audience engagement

Adaptive Narrative

- Response to footage of climate breakdown creates tailored film
 - Machine learning model is run locally
 - No data is kept about individuals
-



Virtual Climate Reality

Home > Virtual Climate Reality

“What you do makes a difference, and you have to decide what kind of difference you want to make.” Dr. Jane Goodall

Taking you 30 years into an imagined future, experience the challenges we may face.

If we don't face the present, we will fear the future.

Synopsis

As society collapses in the midst of a climate catastrophe, a wealthy entrepreneur named Alistair Cross offers refuge to refugees in exchange for loyalty and sustenance, but his true intentions are far more sinister.



Using fear as a tool for change

- Responses to criticisms of fear-based climate appeals
 - Fear mongering: fear is justified
 - Black and white thinking: offer various paths towards solutions
 - Resignation and fatalism: include efficacy enhancing information
- Hope can cause compliancy, wishful thinking
 - Techno optimism
 - Political and corporate decision makers will use their power to advert disaster
- What is far away is not feared- Aristotle
 - Show how climate breakdown will affect us (UK).
 - Brings attention to the threat of climate change.

A co-creation with AI, climate researchers, members of the public, The University of Nottingham and interactive media artists AlbinoMosquito. We are using cutting edge techniques and motion capture to create an interactive VR experience.



Using AI as a tool to engage with audiences





Original sketch



Ai re-render

GAN AI as a renderer

Concepts by Kriksix



Ai re-renders

Thankyou!

@mindmovie

Richard.Ramchurn@Nottingham.ac.uk

EPSRC



Supported by
**ARTS COUNCIL
ENGLAND**



**University of
Nottingham**
UK | CHINA | MALAYSIA

Albinomosquito.com