## Sensing the Forest # 5 In the search for epistemological cross-pollination between forest research, HCI and SMC

Dr Anna Xambó Sedó | CHIME Seminar | October 25, 2023



## Outline

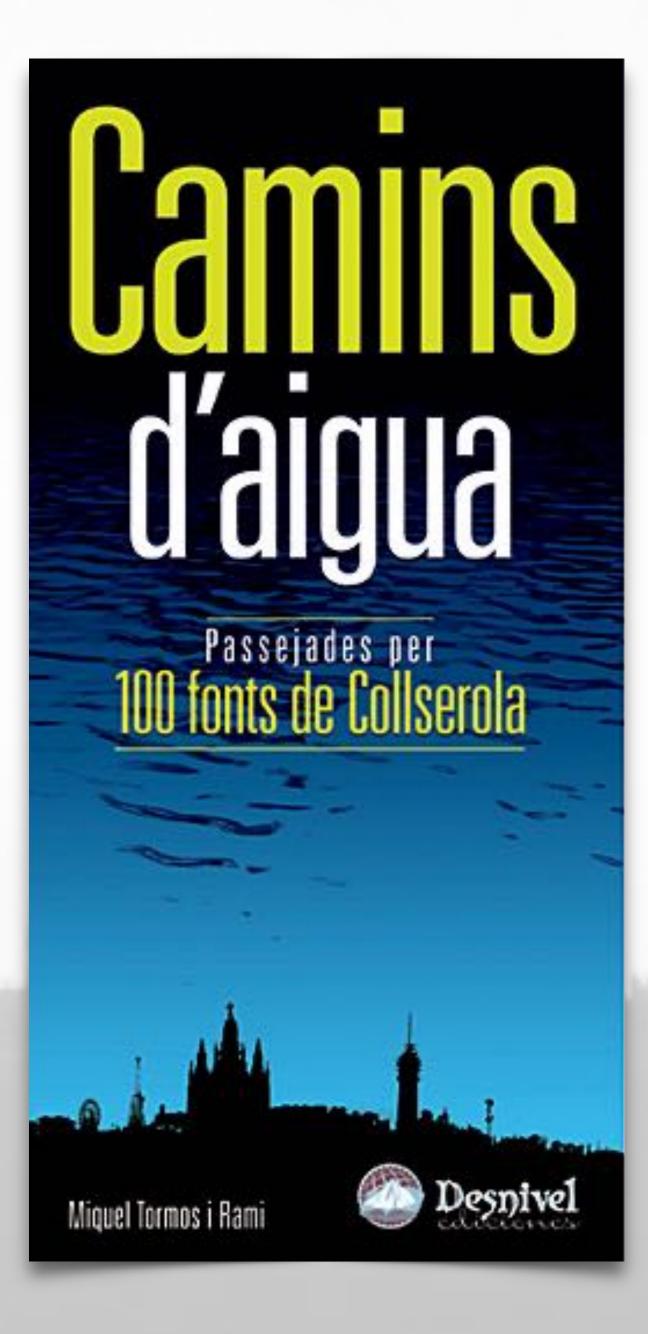
- Contextualisation
- The importance of a multi/interdisciplinary team
- Ongoing and future actions

## Contextualisation



## Camins de l'aigua / Water paths

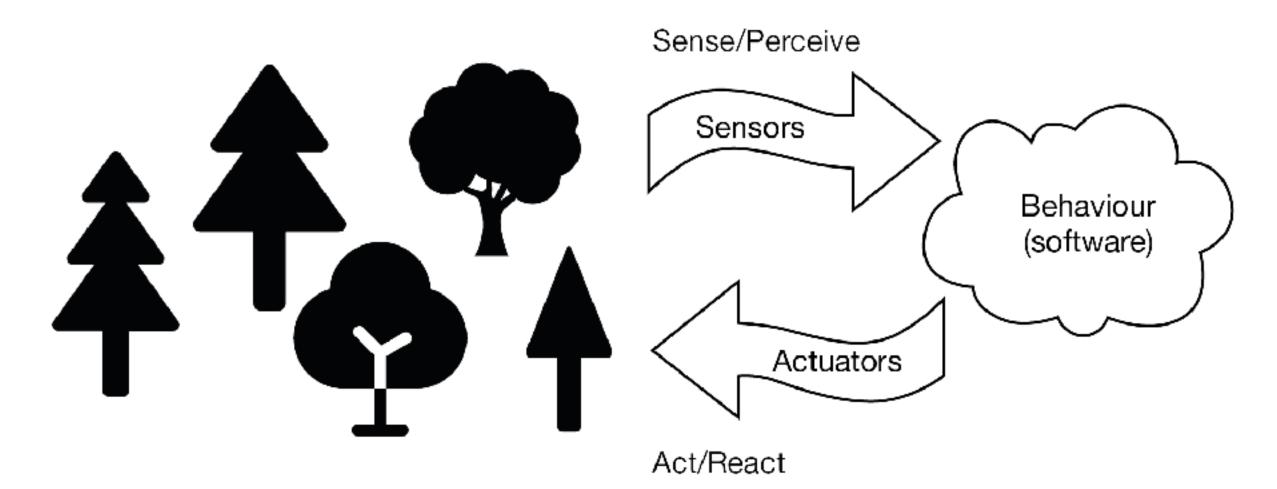
Passejades per 100 fonts de Collserola / Walks through 100 Collserola fountains

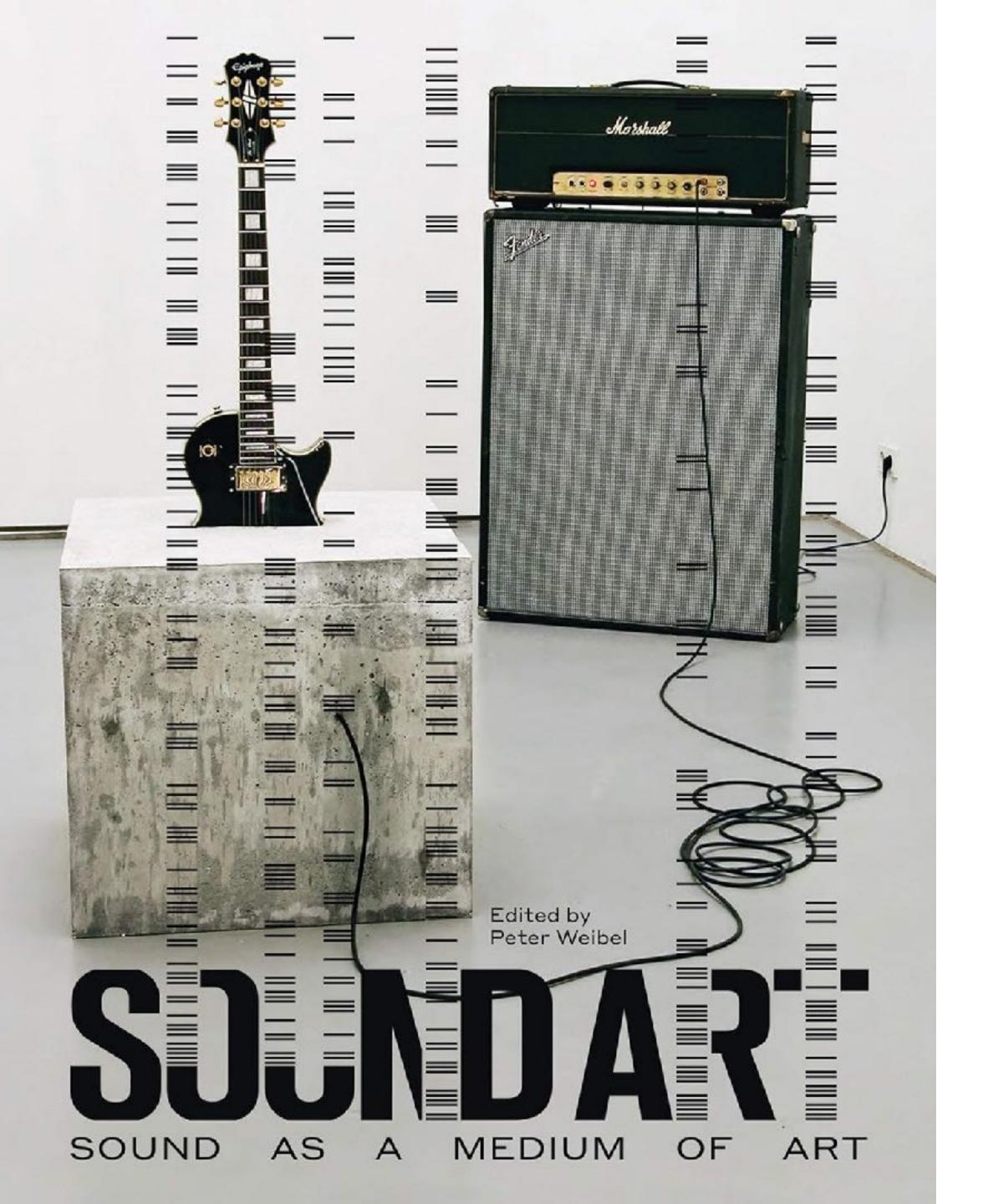


The Future Research Leaders programme 2021-2022











### **Peter Weibel**

### Sound Art | ZKM https://zkm.de/en/exhibition/2012/03/ sound-art



## 2006

## 2012



### Sebastião Salgado & Lélia Wanick Salgado

### Instituto Terra institutoterra.org



## César Manrique Jameos del Agua

## Nature and artistic creation in harmony

César Manrique

## AHRC Sensing the Forest Designing inter/multi-disciplinary techno-artistic interventions



Sensing the Forest Let the Forest Speak

Internet of Things Acoustic Ecology **Creative Al** 



## **AHRC Sensing the Forest Research question**

The overarching research question is, how can the use of artistic and about climate change?

In particular, what can we learn from using artistic and community science research methods employing the Internet of Things (IoT), Acoustic Ecology and Creative Artificial Intelligence (AI) in relation to monitoring forest behaviour and raising awareness about climate change?



## community science research methods help to inform and educate people

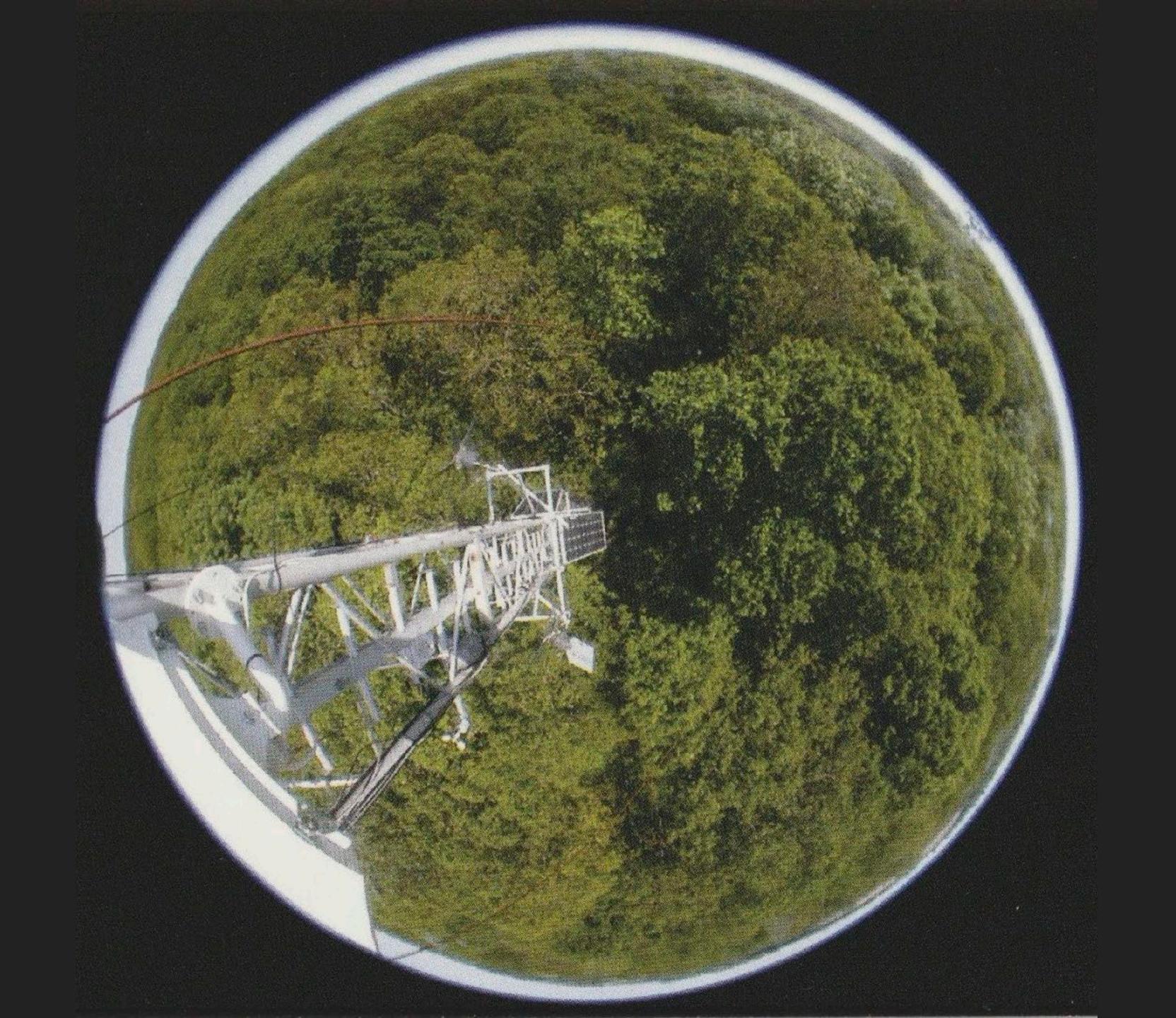
## The team in a nutshell...







Dr Matthew Wilkinson (Cl) Senior Climate Scientist, Forest Research





### Dr Georgios Xenakis (CI) Senior Climate Scientist, Forest Research







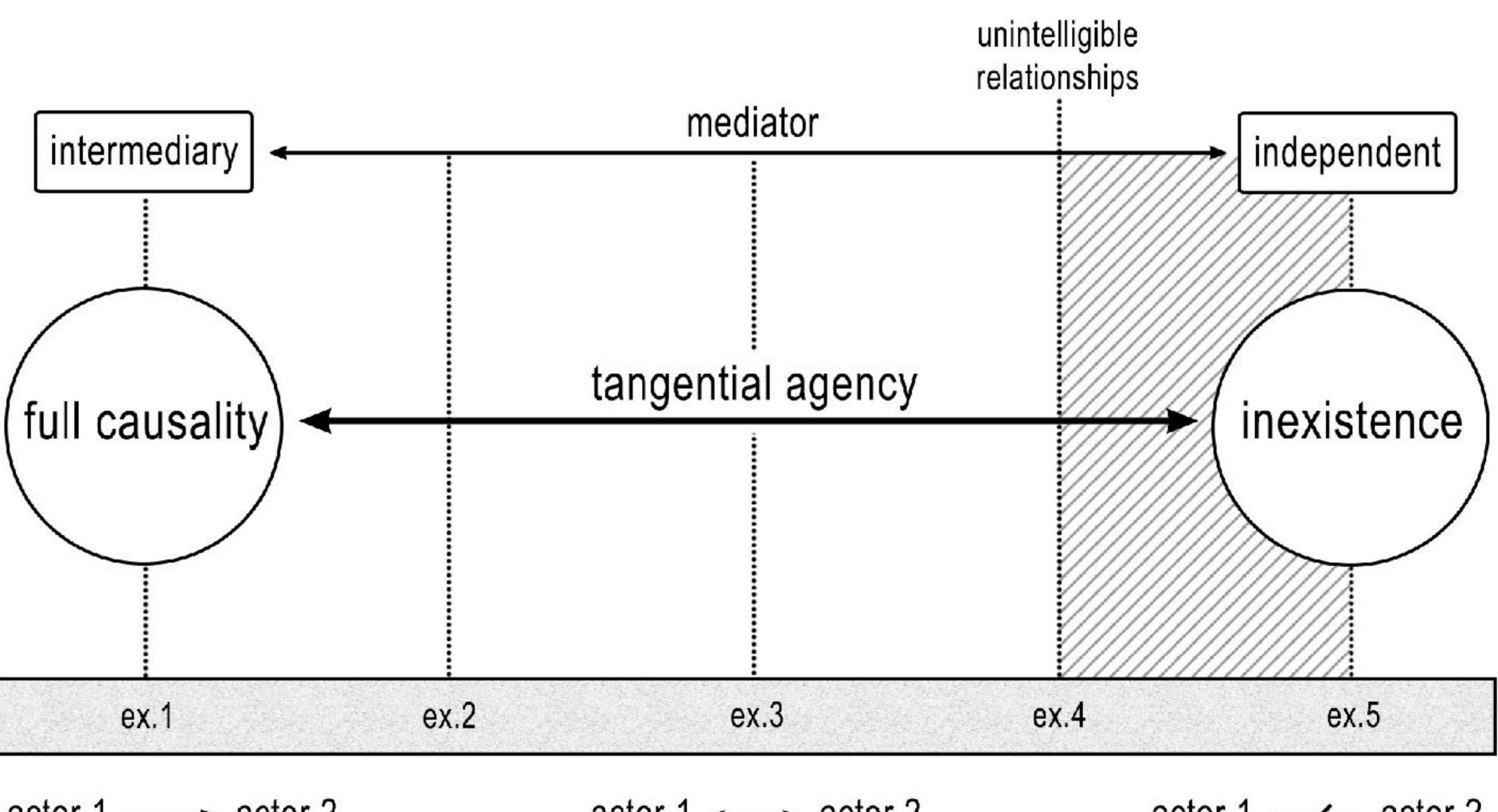


**Dr Peter Batchelor (CI)** Senior Lecturer in Music, Technology and Innovation, De Montfort University





## Dr Luigi Marino **Research Fellow** in Sound and Music Computing





actor 1 — actor 2



**Hazel Stone** National Curator of Contemporary Art, Forestry England

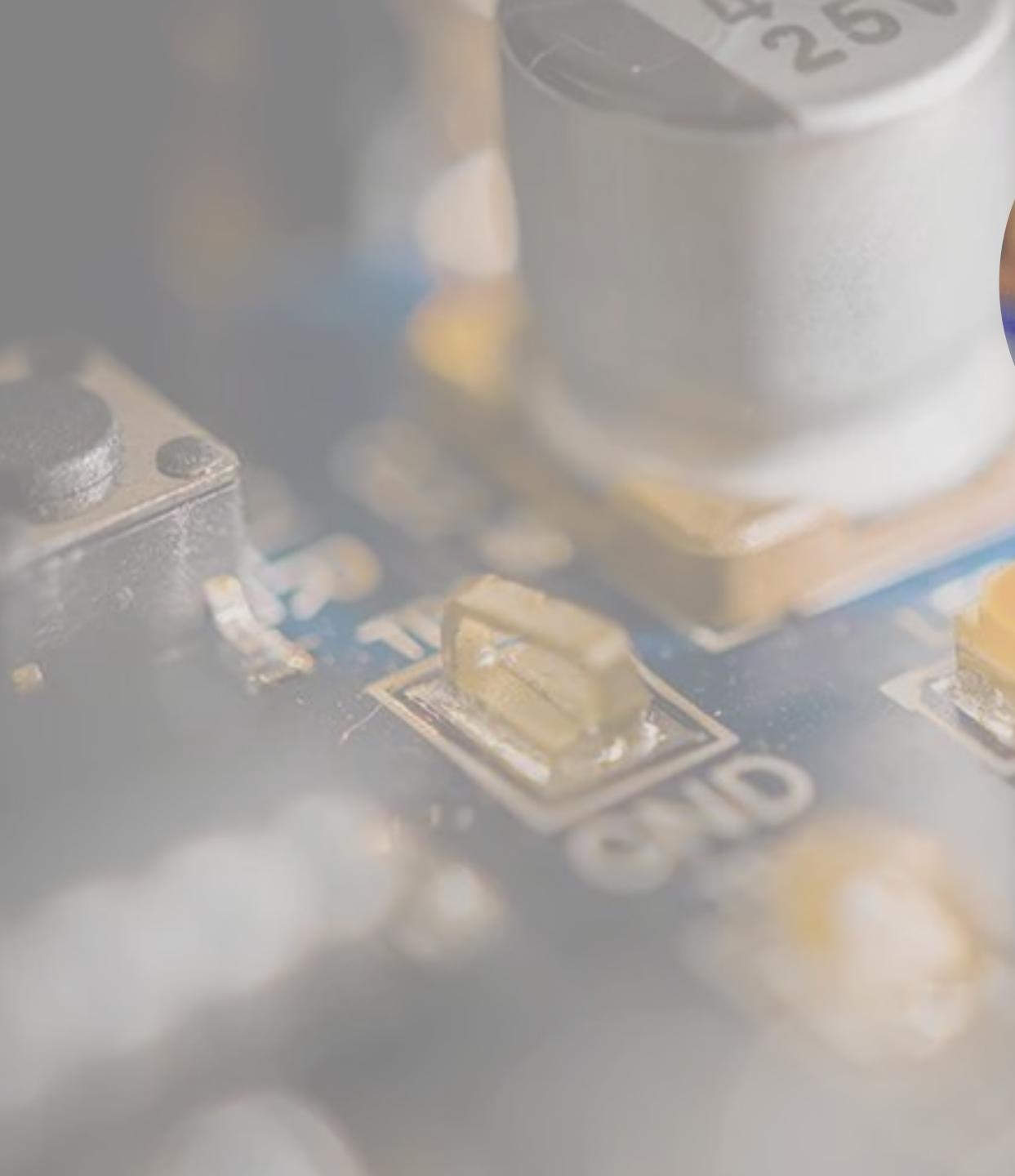
**Nick Wardlaw** Recreation Manager, Forestry England

## Forestry England

**Danielle Grimsey** Site Manager, Alice Holt, **Forestry England** 

**Max Gravestock** Site Manager, Alice Holt, **Forestry England** 





Dr Krishna Nama Manjunatha (CI) Senior Lecturer in Micro and Nano Electronics, De Montfort University

Ashok Karavadra Senior Technician, De Montfort University





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## **Advisory Board**





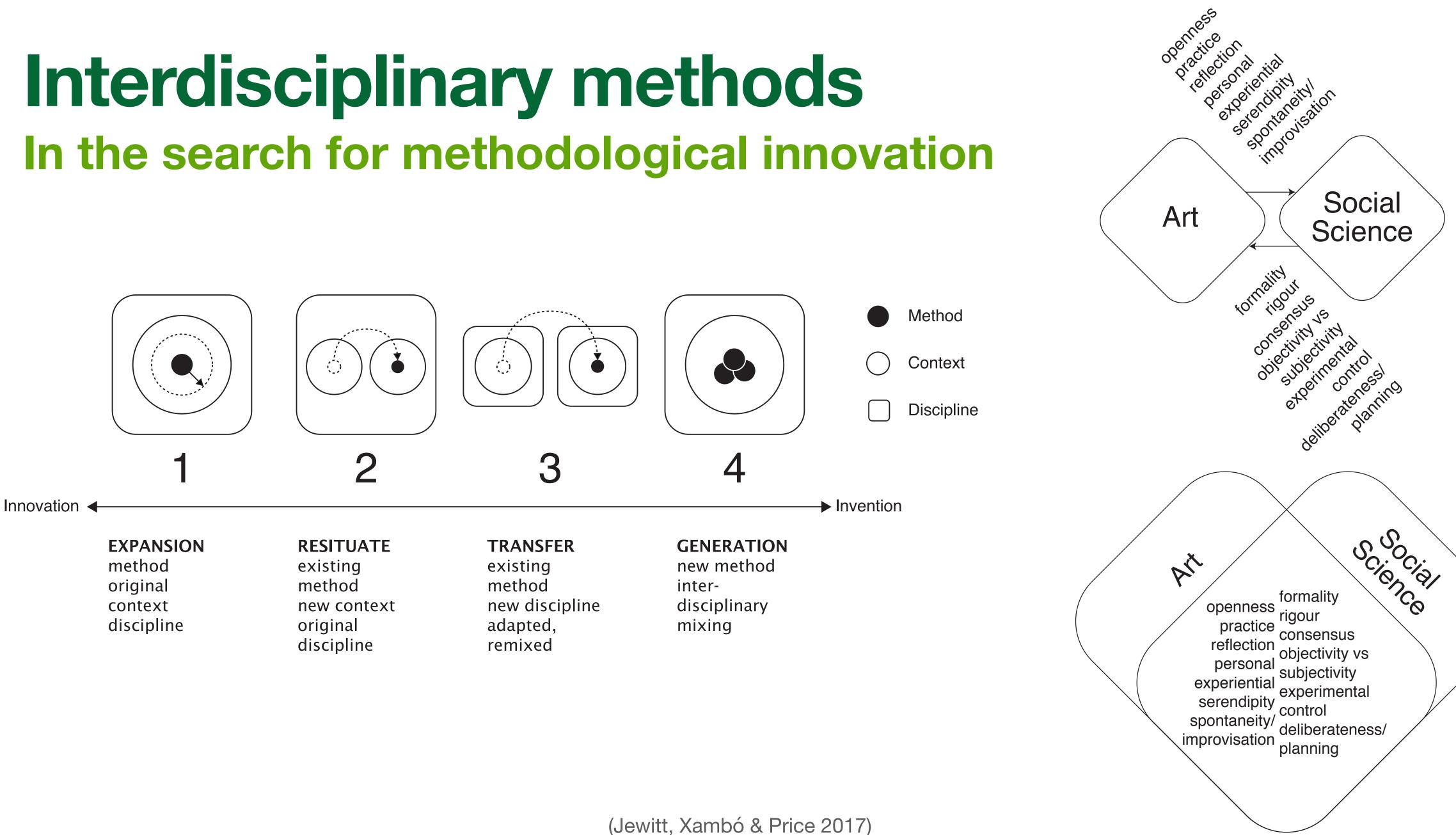
**Prof Mark Plumbley** Professor of Signal Processing, **EPSRC** Fellow in "Al for Sound", University of Surrey

**Louise Fedotov-**Clements Director of Photoworks, National Curator at Forestry England



**Prof Leigh Landy** Professor of Contemporary Music, Director of MTI<sup>2</sup>, **De Montfort University** 







## AHRC Sensing the Forest The actions





## Sensing the Forest

Let the Forest Speak using the Internet of Things, Acoustic Ecology and **Creative AI** AHRC-funded project (2023-25) : AH/X011585/1



sensingtheforest.github.io





### sensingtheforest **\*\*ONLINE SEMINAR TALKS\*\***

The AHRC-funded research project "Sensing the Forest - Let the Forest Speak using the Internet of Things, Acoustic Ecology and Creative AI" presents a series of 3 fortnightly online seminar talks with 6 experts related to artistic, social and scientific interventions in the forest or other natural landscapes with a special focus on acoustic phenomena. All welcome.

Wednesday, October 18th, 3pm (UK tir

Wednesday, November 1st, 3pm (UK t

Wednesday, November 15th, 3pm (UK







me)	Semiconductor semiconductorfilms.com	Peter Sinclair locusonus.org
time)	Saloni Shah salonishah.co	Jones/Bulley jones-bulley.com
( time)	Liz O'Brien forestresearch.gov.uk	Alice Eldridge ecila.org

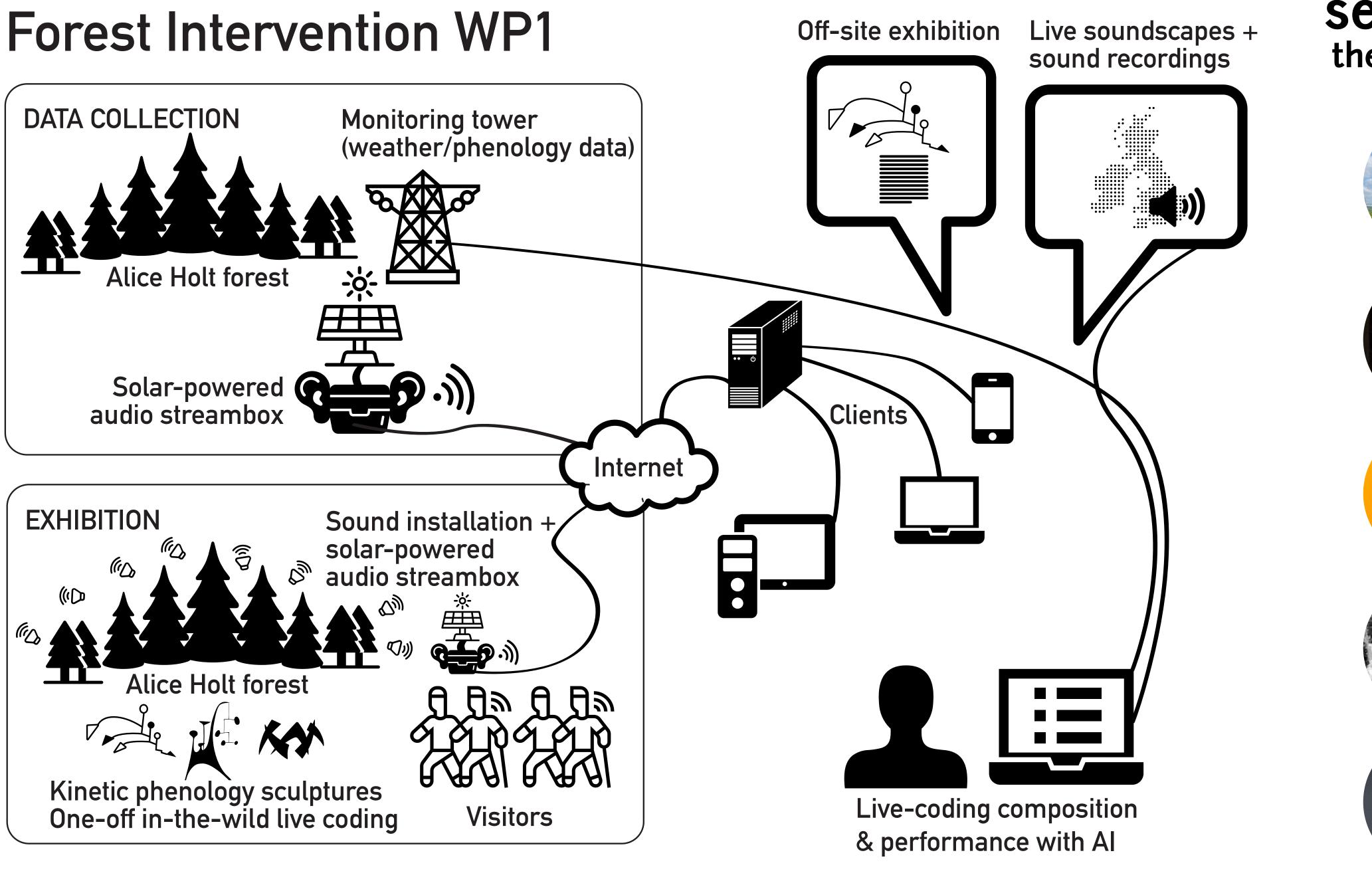
More info at: sensingtheforest.github.io



MTI<sup>2</sup> Forest Research Constry England











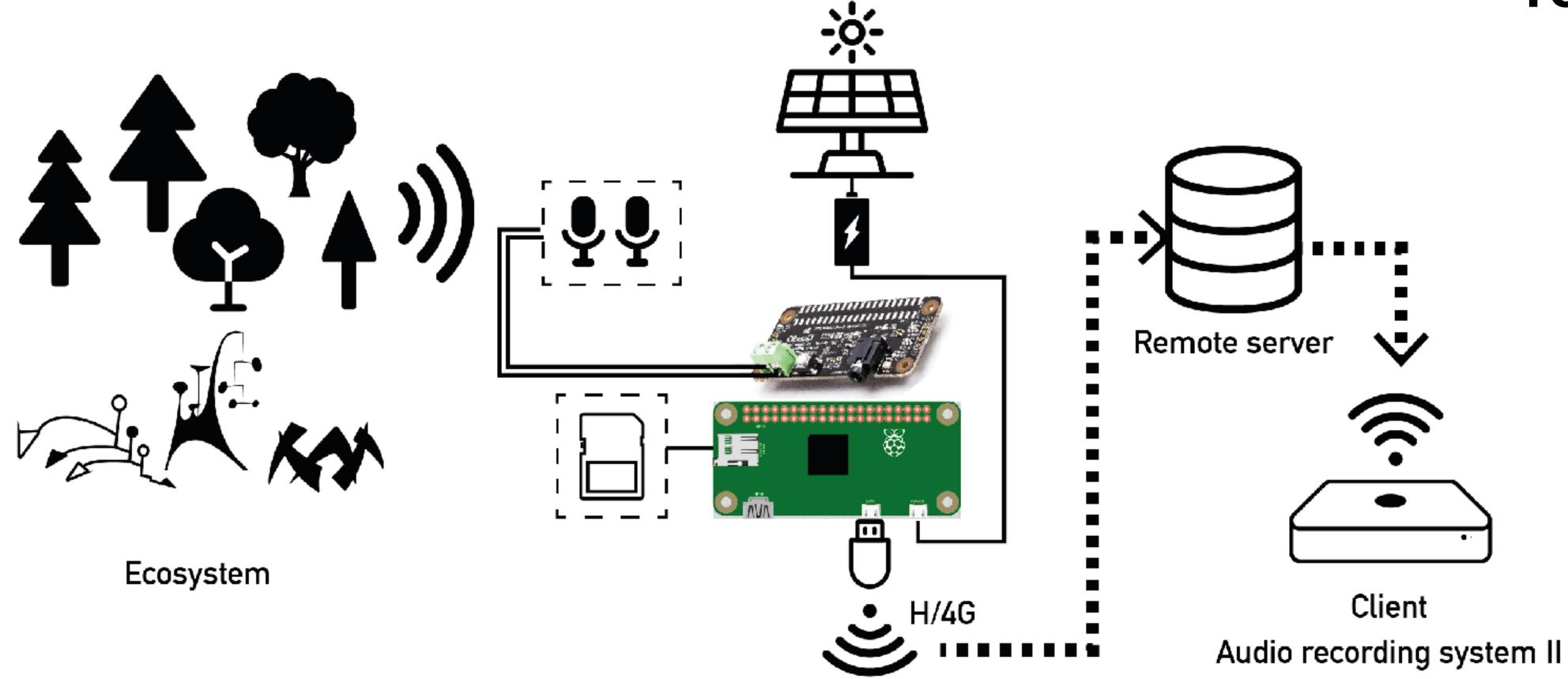












Autonomous monitoring unit Audio recording system I & audio streamer



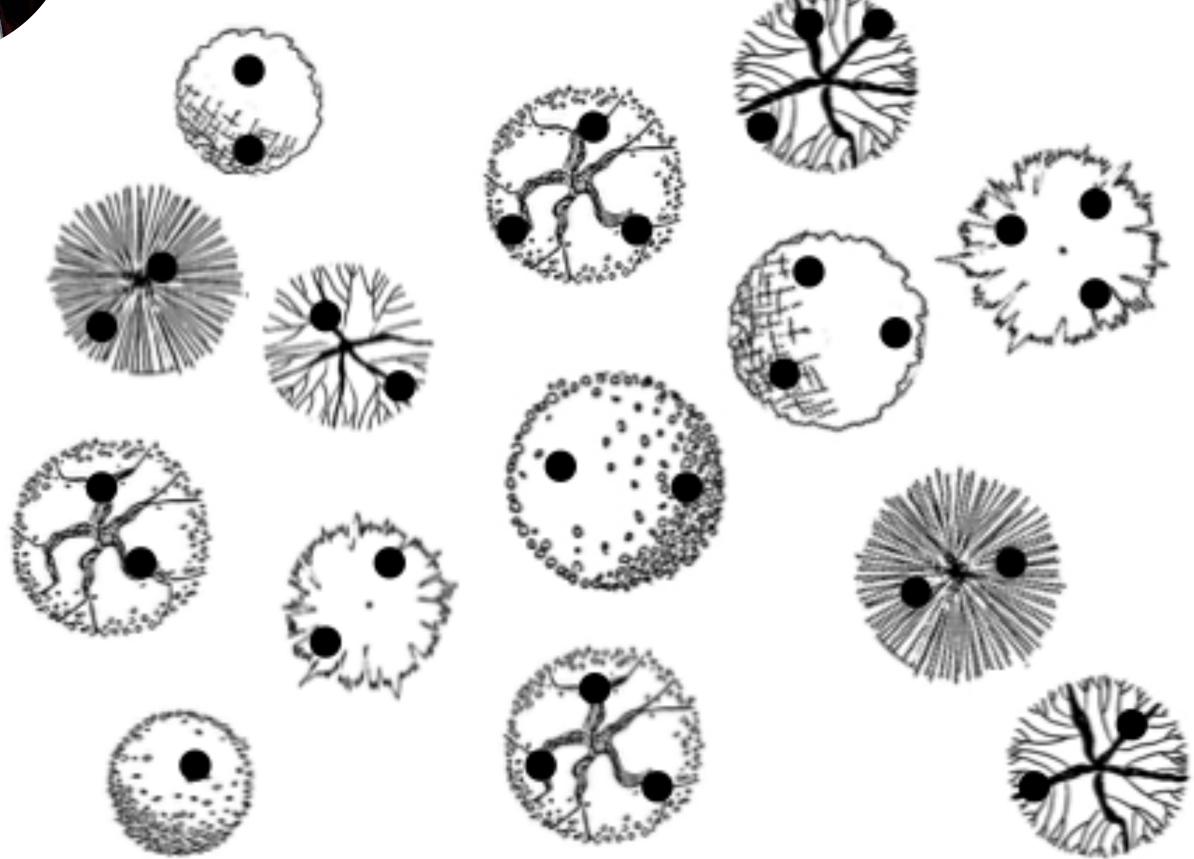




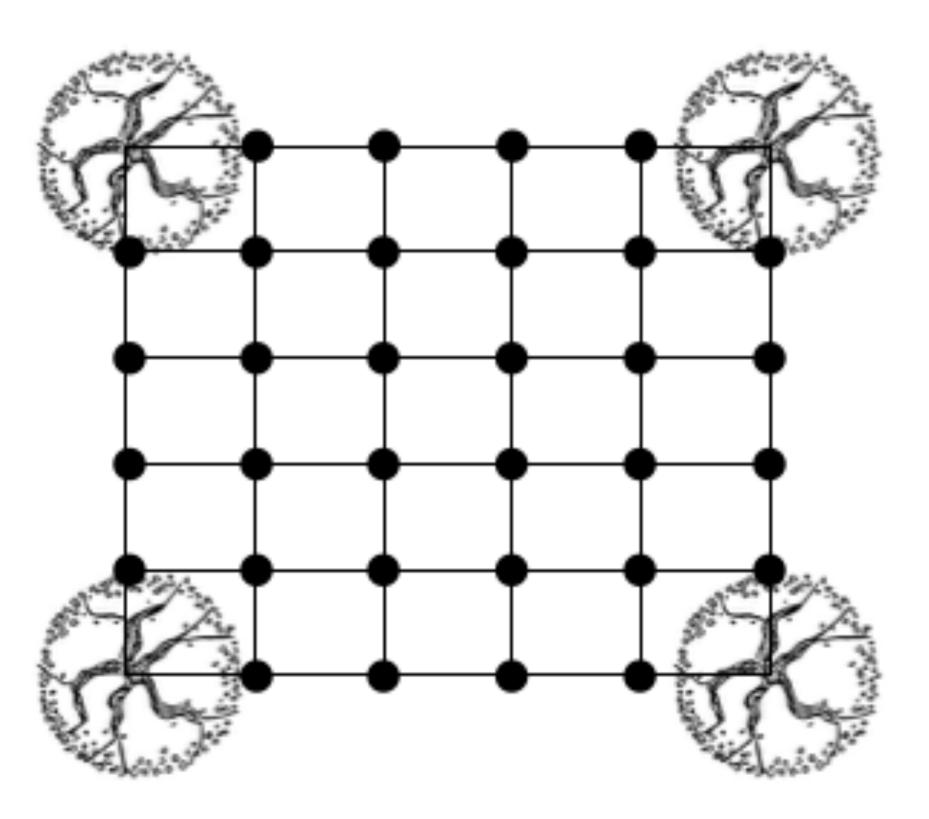
## sensing theforest

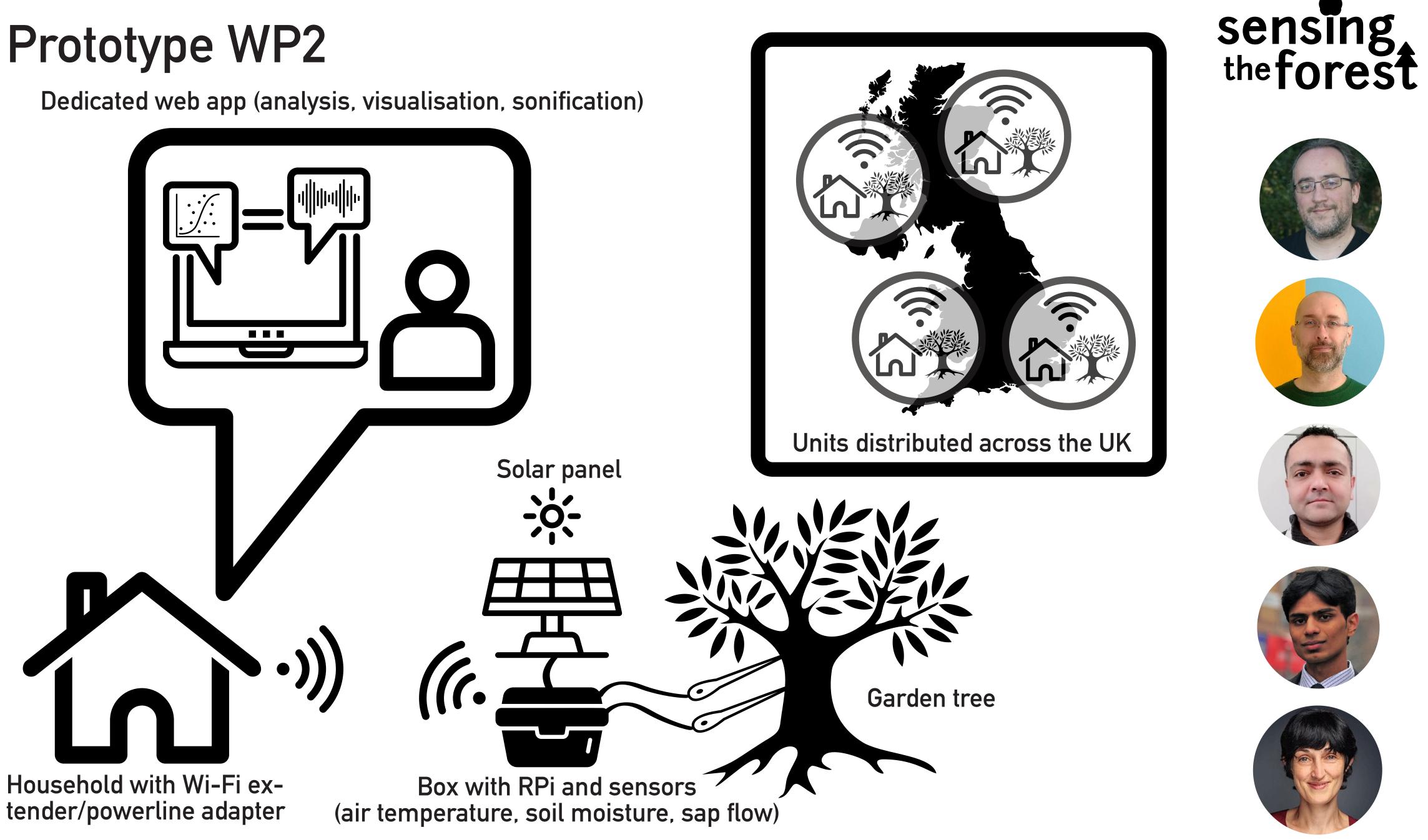
















## Summary

- Discussed the meaning of artistic intervention when working with nature.
- Discussed the potential of combining and reimagining research methods when working in inter-multidisciplinary teams.
- Showcased the present and future actions of the AHRC Sensing the Forest project.

## Thank you



Arts and **Humanities Research Council** 





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