

HUNGRY ECOCITIES

A S+T+ARTS RESIDENCIES PROJECT

HUMANIZING TECHNOLOGY EXPERIMENTS



DIRECTION OF EXPERIMENTATION



TECH TAGS



TEAM

BUOT: Brno University of Technology
CRA: Carlo Ratti Associati
KUL: KU Leuven Institutes
MNDL: Mendel University in Brno
SOS: Studio Other Spaces

+ ACOUSTIC AGRICULTURE

"Acoustic Agriculture" explores urban noise pollution's impact on plant growth. The AI system deciphers urban noise complexities, generating sound waves that promote healthier plant growth amidst the bustling urban environment.

City+Farming Synergies

#advanced sensing #VAE #GAN
#sound pollution #plant-acoustics
#smart sonic developments
#AI-composed soundscapes
#evolutionary algorithms

Helena Nikonole + CRA + Gluon
+ MNDL & BUOT

+ CULINARY JOURNEYS

"Culinary Journeys" aims to transform food logistics data into diverse visual documentaries and movies using creative AI methodologies. This project promises to deliver captivating visual narratives around food consumption.

Mega Scale & Local Conditions

#algorithmic driven supply chains
#"text-2-everything" models
#prompt engineering #ethical AI frameworks
#algorithmic biases

Jeroen van der Most + EatThis & SOS + KUL + In4Art

+ ECOSHROOM

Through an interactive living installation, "Ecoshroom" delves into in-soil symbiotics with mycorrhizal fungi. This project explores the fascinating world of fungal decision-making and its potential impact on future crop resilience and growth.

City+farming Synergies

#IoT sensing #prescriptive AI
#data visualisation #robotic system
#human-machine interaction

Ivan Henriques + CRA + MNDL & BUOT + Gluon

+ FOOD OYSMORPHIA

Utilizing generative AI and computer vision technologies, this project will use reality filters to narrate food realities and uncover untold stories, shedding light on system failures and food-related issues.

Mega Scale

#virtual reality #custom-made datasets
#AR platform #real-time visual data
#algorithmic biases #filter-bubbles

Bernat Cuní + EatThis + KUL & BUOT + In4Art

+ FUTURE PROTEIN

With a focus on mussels as a sustainable protein source, this project aims to create a Mussel ID system for food transparency. Additionally, a series of products made from mussel shells will be developed.

Local Conditions & City+Farming Synergies & Mega Scale

#IoT sensing #parametric design
#augmented reality #3d printing
#data visualisation

IM-A Studio + CRA + EatThis + SOS + BUOT + Gluon

+ LOW CARBON CLIMATE COOKBOOK

Combining AI technology and authentic Asian cuisine, this project will develop an AI-driven, web-based low carbon recipe maker and cookbook. It also explores the notion of authenticity in the context of food and AI.

Local Conditions

#explainable AI #sociality of AI
#prescriptive AI #WebApp #open source

Ling Tan + SOS + KUL + In4Art

+ MVP X FFF

"Minimum Viable Protein x Food Forest Flavours" pioneers a dual-circulation food system connecting alternative proteins and agro-forestry produce. The project aims to harmonize rhythms and flavor compounds, offering sustainable farming solutions.

Mega Scale

#precision fermentation
#AI recommendation system
#data set creation

The Center for Genomic Gastronomy + EatThis + KUL + In4Art

+ SYMBIOSIS.AI

This project envisions a post-agrarian data-driven infrastructure that utilizes AI and blockchain to sense, monitor, visualize, and enhance ecological performance. Focused on understanding plant stress in times of climate change, it aims to foster resilience in natural systems.

City+farming Synergies

#smart contracts #DAO #sensors
#IoT #UV analytics #generative AI

Frederik De Wilde + CRA + MNDL + In4Art

+ SYMPOSIO

"SYMPOSIO" seeks to redefine tableware design for sustainable and enjoyable dining experiences through researching eating cultures worldwide, collecting data on food consumption behaviors, and generating new designs for tableware.

Local Conditions

#AI-optimized designs #prompt engineering
#generative AI #AR #3D printing
#food consumption data

Yiannis Kranidiotis + SOS + KUL & BUOT + In4Art

+ THE COUNCIL OF FOODS

This project aims to give food a voice by imbuing it with personality and agency through an experimental assembly of food AI. The exploration of AI in food ethics is at the heart of this fascinating endeavor.

Local Conditions

#non-human agency #prompt engineering
#sociality of AI #large language models
#text-to-speech #speech-to-text
#explainable AI #open access

Nonhuman Nonsense + SOS + KUL + In4Art