

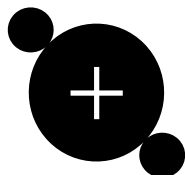
**STARTS RESIDENCIES DAYS**

**March 27 & 28, 2019**

**2-8 PM, CENTRE POMPIDOU, PETITE SALLE**

FREE ENTRANCE

Art/Science collaboration in Europe:  
Art as a driver for technological innovation



**S + T + ARTS**

**RESIDENCIES**





## STARTS Residencies Days

### STARTS

STARTS (Science, Technology, and the ARTS) Initiative, launched by the European Commission – DG CONNECT – promotes the inclusion of artists in innovation projects. It aims to remove the boundaries between art and engineering to stimulate creativity and innovation.

### STARTS Residencies

STARTS Residencies is one of the STARTS Pillars. This programme is to support and fund between 2017 and 2020, 45 artistic residencies that bring original artistic contributions to technology-based research projects. During each STARTS Residency, a tech project collaborates with an artist, leading to the creation of an original artwork, and to the development of the innovative aspects of the tech research. A grant (up to 30,000€) is awarded to the artist of each STARTS Residency as a contribution to her/his involvement in the residencies programme. Additional support to the residency can also be brought by a producer.

### STARTS Residencies Days

The STARTS Residencies Days are organized by the STARTS Residencies European Program coordinated by IRCAM. The results of this program of collaboration of artists with technological projects throughout Europe will be presented through contributions by 30 artists and researchers involved, roundtables and participatory events. The laureates of the third call are to be announced and the new modes of contribution of artists to innovation processes will be discussed with the heads of institutions and communities involved.

### Mutations / Creations and the Vertigo Forum

The STARTS Residencies Days are organized as part of the VERTIGO Forum, a series of symposia and societal debates on art-science relationships at Centre Pompidou from March 27<sup>th</sup> to 30<sup>th</sup> on the theme “La Fabrique du Vivant” together with the exhibitions “La Fabrique du Vivant” and “Erika Verzutti” which constitute the 2019 edition of Mutations / Creations, a joint yearly event by Centre Pompidou and IRCAM.

# Programme

Wednesday, March 27

2 PM

## Introduction

**HUGUES VINET**  
(IRCAM, STARTS RESIDENCIES  
PROJECT COORDINATOR)

2:15 PM

## New Physics

Presentation of residencies:

Atom Chasm  
Sci-Fi Miners  
Spelaion  
Print Your City  
Orbital River Station

3:15 PM

## “Close the loop” Panel Discussion: assessment of the first residency round

This panel gathers contributions by artists and researchers involved in the first stage of STARTS Residencies and who completed their collaborations in order to establish a first feedback on the program and on the collaboration modes it has enabled.

By the Code of Soil: (de)Compositions  
**KASIA MOLGA** (ARTIST)  
AND **FEIMATTA CONTEH** (SERVICE  
INNOVATION LEAD, GROW OBSERVATORY)

### Magic Lining

**KRISTI KUUSK** (ARTIST)  
AND **ANA TAJADURA JIMENEZ**  
(RESEARCHER, UNIVERSIDAD CARLOS III  
DE MADRID)

Blueprints for an emergent personality  
**KATE ASPINALL** (ARTIST) AND **GEMMA BOLEDA**  
(RESEARCHER, UNIVERSITAT POMPEU FABRA)



4:15 PM

## Mixed Reality

Presentation of residencies:

Froth of the daydream  
Immersive Minimalism  
My fears murmured to you  
Sleep in the city

5 PM

## Presentation of the STARTS lighthouse pilots and their residency opportunities

Re-FREAM  
**ISABEL BERZ** (RESEARCH AND EDUCATION  
CENTER AT IED ESPAÑA)  
AND **GISA SCHOSSWOHL**  
(CREATIVE REGION LINZ & UPPER AUSTRIA)

### MindSpaces

**SOTIRIS DIPLARIS** (CENTRE FOR RESEARCH  
AND TECHNOLOGY HELLAS)

5:30 PM

## Future STARTS Here Pitch Session on art+tech+science projects

Thursday, March 28

2 PM

## Participatory Performance Pollution Explorers by Ling Tan

In this public performance designed by artist Ling Tan in the neighborhood of Centre Pompidou, 20 adult participants will be proposed to wear connected clothes developed in the project and express through gesture their subjective feeling of the air pollution, contributing to a collective artistic situation.

3 PM

## Panel discussion on participatory design

Artists, designers and curators specialists of participatory design are gathered in order to present their related projects and experience feedbacks.

**LARISA BLAZIC**  
(ARTIST, DATA UNION FORK)

**CLARE PATEY**  
(DIRECTOR, EMPATHY MUSEUM)

**PANOS SAKKAS** AND **FOTEINI SETAKI**  
(ARTISTS, PRINT YOUR CITY)

**LING TAN**  
(ARTIST, POLLUTION EXPLORERS)

**MODERATOR RAMA GHEERAWO**  
(DIRECTOR, THE HELEN HAMLYN  
CENTRE FOR DESIGN)



Watch live on Youtube!  
All round tables are broadcast  
live on Ircam's Channel.

4:30 PM

## Augmented experiences

Presentation of residencies:

Embryonic  
Transhuman Expression  
Chatroom of things  
Wind Avatar  
Data Union Fork - Tools for Data Strike

5:30 PM

## Announcement of the laureates of the third call for STARTS Residencies

6:30PM TO 8PM

## Panel: Art and technology: Disruptive Frames

This high-level concluding round table bringing together industry leaders, designers and scientists takes stock of latest experiments involving artists in disruptive innovation processes.

**INTRODUCTION SERGE LASVIGNES**  
(PRESIDENT OF THE CENTRE POMPIDOU)

**RALPH DUM** (EUROPEAN COMMISSION,  
STARTS PROGRAMME)

**PIERRE J. MAGISTRETTI** (PROFESSOR OF  
NEUROPHYSIOLOGY, PRESIDENT, INTERNATIONAL  
BRAIN RESEARCH ORGANIZATION)

**SILVIO NAPOLI** (CHAIRMAN OF THE BOARD,  
SCHINDLER HOLDING LTD)

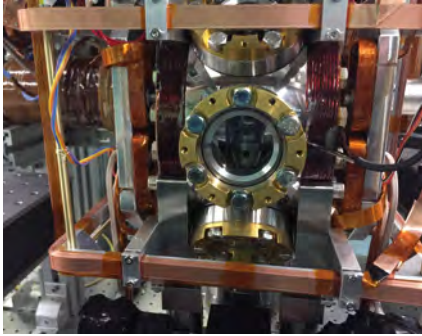
**LIZA PRZIODA** (PROJECT INNOVATION  
MANAGEMENT GLOBAL, BOSCH)

**ANNELIEK SIJBRANDIJ** (FOUNDER AND  
PRESIDENT OF THE VERBIER ART SUMMIT)

**MODERATOR NICOLAS HENCHOZ**  
(DIRECTOR, EPFL-ECAL)

## 2017–2019 Residencies

18 Residencies resulting from the first and second calls for tech projects and artists



### ART ATOM X EVELINA DOMINITCH & DMITRY GELFAND ATOM CHASM

In collaboration with the 5<sup>th</sup> Physical Institute of Stuttgart University, the artists propose to develop Atom Chasm, a laser-cooled atom observatory probing the slippery frontier between quantum and quotidian reality. The first artwork to ever be presented on the atomic scale, Atom Chasm will be an immersive ion trap installation, enabling audiences to intimately confront such paradoxical phenomena as quantum jumps and the symmetry breaking of the early universe.

**RESIDENCY** FROM OCT, 2018 TO MAR, 2020 – THE NETHERLANDS



### CRITCAT X JOÃO MARTINHO MOURA SCI-FI MINERS

The platinum group metals are noble and precious elements, important in modern manufacturing and in ICT industry in particular. As their availability is critical, CritCat aims at developing new catalyst nanoparticles from Earth-abundant materials for hydrogen-based clean energy applications. The artist intends to work with the data generated with the study of the main parameters of the nanoparticle catalysts. He intends to turn those concepts accessible to the general public, through interactions, immersive experiences and gameplay.

**RESIDENCY** FROM SEPT, 2018 TO APR, 2019 – PORTUGAL



### DEAN X COLLECTIF TOAST SPELAION

Speleon offers the public to explore and interact with an ever-changing surface. This surface, made out of a new and intelligent material, hangs from the ceiling. The public is invited to enter the space underneath the surface and interact with the material by moving. Together, people influence the surface and create shapes that simulate geological formations found in caves. Each individual interaction adds up to create a collective piece.

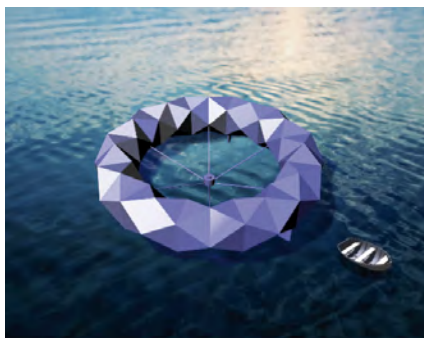
**RESIDENCY** FROM SEPT, 2018 TO MAR, 2020 – FRANCE



### PTWIST X THE NEW RAW PRINT YOUR CITY

In the project Print Your City, urban dwellers transform their plastic waste into raw material for public space, creating a circular stream within the city. This is achieved by recycling household plastic waste with robotic-3d-printing and producing components that upgrade the built environment through citizen involvement and the principles of circular economy.

**RESIDENCY** FROM AUG, 2018 TO JULY, 2019 – SWITZERLAND

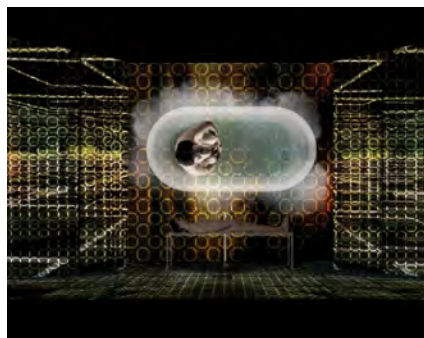


**NANO2WATER X HEHE**  
**O.R.S**

O.R.S. (Orbital River Station) is a large-scale floating sculpture. Its form and colour resemble an oversized life ring used to rescue people in water. O.R.S. is an “observatorium”, a vehicle for collecting and analysing environmental information.

Observations about the water are made directly in the river itself. O.R.S. collects data about velocity of the river current, monitors water quality and identifies pollutants with analog and digital devices.

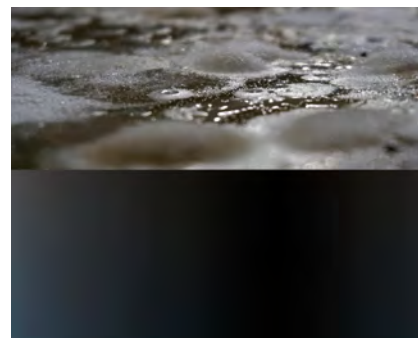
**RESIDENCY** FROM NOV, 2018 TO SEPT,  
2019 – PORTUGAL



**LE CUBE**  
**X JULIE DESMET WEAVER**  
**FROTH OF THE DAYDREAM**

The challenge of the project is to prototype an immersive and interactive content for collective virtual reality based on the artist’s scenarios of *Froth of the Daydream* by Boris Vian: imagining and realizing together an experience using 360° projection and both individual and crowd interactive technologies (Motion Capture, leap motion, gesture recognition, audiometer, augmented reality) to serve the artistic project and create a sensitive and emotional experience for the public.

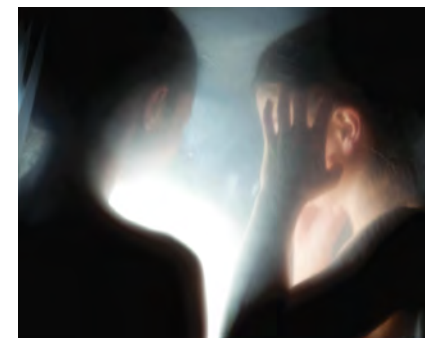
**RESIDENCY** FROM JULY, 2018 TO JULY,  
2019 – FRANCE



**IMMERSIFY**  
**X THERESA SCHUBERT**  
**IMMERSIVE MINIMALISM**

“Immersive Minimalism” investigates the mechanisms of immersion and its basic principles through a series of custom-developed studies established on theories of perception that aim at (re-) defining methods of immersion. Based on these findings the artist wants to create an immersive environment called “vibrant matter” of micro-macro landscapes with real UHD video footage in combination with digital generative graphics depicting non-human life.

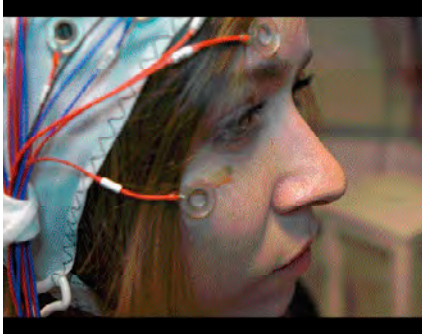
**RESIDENCY** FROM NOV, 2018 TO JUN,  
2019 – POLAND



**VIRTUAL CLOSE UP**  
**X LAURENT BAZIN 3D**  
**MY FEARS MURMURED TO YOU**

While working with Virtual Close Up by Gengiskhan, Laurent Bazin would like to demonstrate that it is possible to shoot simple yet overwhelming things in immersive filmmaking, if and only if we have the technological means to capture them. If these details can be caught with a 360° camera, then one will be able to tell very delicate stories, filled with unsaid things and without resorting to dry emphasis.

**RESIDENCY** FROM OCT, 2018 TO JAN,  
2020 – FRANCE



**DANCE X HASEEB AHMED**  
**WIND AVATAR**

Working with the Brain and Emotion Lab, the project “Wind Avatar” creates an artistic experience of the body with the wind. Body movements express emotion in subtle and highly coded ways. The practices of dance stabilize the expression of emotion into patterns of movement. The Wind Avatar creates a direct relationship between these patterns of expressive body movement in dance and turbulence patterns in the wind and allow a person to literally inhabit the wind and its freedom.

**RESIDENCY** FROM SEPT, 2017 TO FEB, 2019 – BELGIUM



**3D PRIME**  
**X VALERIA ABENDROTH**  
**EMBRYONIC**

With the objective of improving the learning process and training of medical students and professionals, 3D PRIME has started a project to produce realistic and accurate 3D models of a particular patient. Embryonic will be a three-dimensional, interactive room installation that represents a developmental laboratory, including biomorphic sculptures that seem to be alive and growing. These sculptures are being developed in cooperation with the development team of 3D PRIME and the artist.

**RESIDENCY** FROM JAN, 2019 TO JUL, 2019 – GERMANY



**WE DRAW X LIAT GRAYVER**  
**TRANSHUMAN EXPRESSION**

Transhuman Expression investigates the relation between the physical actions and the visual representation. It aims to create a new artistic tool to teach kids concepts of arithmetic and geometry. This is achieved by exploring behavioural and decision-making patterns by extracting them from the underlining logic of our physical behaviour, revealing mathematical and geometrical components.

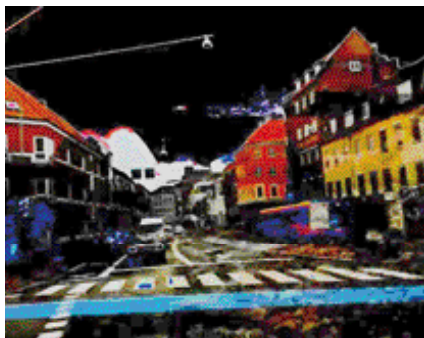
**RESIDENCY** FROM SEPT, 2018 TO DEC, 2018 – ITALY



**CREATE-IOT X SO KANNO**  
**CHATROOM OF THINGS**

Computing processes are becoming invisible and possible to embed in most of everyday object without visual awareness. “The ideal showroom of IoT” is a two-part composition. The room is made with state-of-the-art technology. And the system tries to capture information from participants as much as possible while exposing them the related messages from connected objects. With this installation, participants experience both of observed and observing sides.

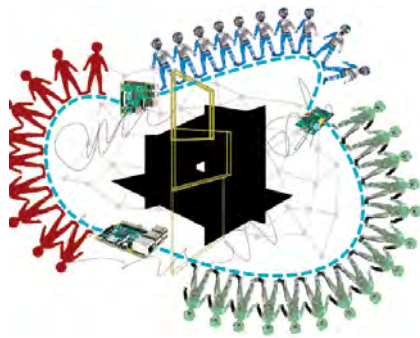
**RESIDENCY** FROM JAN, 2018 TO FEB, 2019 – NORWAY



**AARHUS CITY LAB  
X WALID BREIDI  
& VIRGILE NOVARINA**  
**SLEEP IN THE CITY**

The aim of the project is to sensitize people to the profound importance of sleep through performance, interactive art and network. The idea is to connect city sleep with networks and open data in order to create interactive poetic videos projected all around the city in real time during the participants' sleep time.

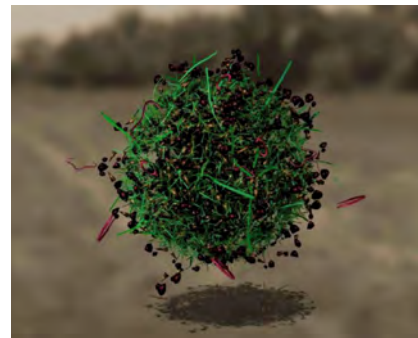
**RESIDENCY** FROM OCT, 2018 TO JUL, 2019 – DENMARK



**DECODE X LARISA BLAZIC**  
**DATA UNION FORK:  
TOOLS FOR DATA STRIKE**

There is enough evidence of a need for mass organised collective action regarding data: to defend and manage personal and population-wide data. This organisation should come "from below". Data Union fork - tools for data strike is an idea building on DECODE OS, blockchain-based, operating system and nodes for decentralised ownership and control of data. It is a proposal to conceptualise, articulate and co-create an assertive "smart contract" model enabling additional protective layer for citizens' digital rights whilst promoting solidarity and mutual aid.

**RESIDENCY** FROM SEPT, 2018 TO JAN, 2020 – THE NETHERLANDS



**GROW X KASIA MOLGA**  
**BY THE CODE OF SOIL:  
(DE)COMPOSITIONS**

A large-scale durational installation piece created by Kasia Molga in collaboration with sound artist Robin Rimbaud - Scanner dealing with soil condition and biodiversity. By the Code of Soil: (de)Compositions (working title) - a playground for earthworms - healthy soil full of micro-organisms, microbes, bacteria and earthworms will resurrect dead soil. This will be transmitted to the visitor through audio and visual means, creating a multi-sensory experience which gives voice to sound of life.

**RESIDENCY** FROM NOV, 2017 TO MARCH, 2019 – SCOTLAND



**AMORE X THEO**  
**BLUEPRINTS FOR AN  
EMERGENT PERSONALITY**

Theo approaches the AMORE computational system as an infant consciousness developing its cognitive abilities. Theo translates the responses of the system into data points and emotive sketches suggested by these slippages. The artist then presents this data to child psychology and development specialists in order to build a picture of the personality behind them and finally construct images of a mature and embodied self.

**RESIDENCY** FROM MARCH, 2017 TO DEC, 2018 – SPAIN

## 18 Residencies resulting from the first and second calls for tech projects and artists



### **HACKAIR X LING TAN** **POLLUTION EXPLORERS**

Pollution Explorers is a participatory project co-created with the hackAIR community to help citizens make sense of the complex issues around air pollution. Made up of a series of kit-of-parts experimental wearable devices that incorporate hackAIR sensors and body gesture technology, it enables users to contribute data to the hackAIR community through measuring situated air quality and at the same time, record their subjective perception of the quality of air in their environment.

**RESIDENCY** FROM OCT, 2017 TO DEC, 2018 – THE UNITED KINGDOM



### **MAGIC SHOES** **X KRISTI KUUSK** **MAGIC LINING**

Magic Lining builds on the insights from MAGICSHOES project and proposes a garment that allows the wearers to feel as if their body was made of a different material. In the intersection of neuroscience research on mental body-representation, human-computer interaction and real-life smart textile applications, the project asks questions about the meaning of clothing.

**RESIDENCY** FROM NOV, 2017 TO AUG, 2018 – SPAIN

### **MEMBERS OF STARTS RESIDENCIES CONSORTIUM**

ARTSHARE (PT)  
ECOLE POLYTECHNIQUE FEDERALE DE LAUSANNE (CH)  
FRAUNHOFER GROUP INFORMATION AND COMMUNICATION TECHNOLOGIES (DE)  
FRENCH TECH CULTURE (FR)  
INOVA+ (PT)  
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LIBELIUM (ES)



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With the support of the European Commission's DG Connect in the framework of STARTS initiative, Science Technology and the ARTS.



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