3D scanning of Linnaeus Garden

Project: LiDAR scanning as part of digital art project
Location: Linnaeus Garden, Uppsala
Payment: 2000SEK per scan

Background
Paul Cullen Archive (www.paulcullenarchive.org) was established in 2017 to continue an archival process started by the artist in 2016. While primarily focused on material left by Cullen in his Auckland, New Zealand studio, we are utilising an explorative process to generate alternative archival modes of presentation including methods for categorising and structuring content, 3D models and speculative publications.

Formed in response to the climate emergency, the World Weather Network (https://tetuhi.art/world-weather-network/world-weather-network/) is a constellation of weather stations set up by arts agencies around the world and an invitation to look, listen, learn and act. From 21 June 2022 to 21 June 2023, artists, writers and communities will share observations, stories, reflections and images about their local weather, creating an archipelago of voices and viewpoints. Engaging climate scientists and environmentalists, the World Weather Network brings together diverse world views and different ways of understanding the weather across multiple localities and languages

As part of the International World Weather Network the Archive postulates a series of weather station propositions (https://tetuhi.art/world-weather-network/weather-stations-propositions/). This interactive digital project will respond to and speculate on a new phase of an unrealised proposal made by artist Paul Cullen in 2011 to install his r/p/m series around the planet at sites of scientific observation. r/p/m draws on the artist's interest in observatories, atmospheric monitoring and climatology stations.

We are currently creating a series of 3D models of artworks by Cullen. The models will be able to be virtually situated in digital representations of locations initially proposed by the artist for these works: Musick Memorial Radio Station on Naupata Reserve, New Zealand; Linnaeus Garden in Uppsala, Sweden; Eise Eisinga Planetarium, Franeker in the Netherlands; the Royal Observatory in Greenwich, England; and the Alhambra in Granada, Spain.

To realise this project we are looking for someone to scan a portion of the Linnaeus Garden in Uppsala using LiDAR. This 3D representation of Linnaeus will be accessible online and allow an interaction exploration of the proposed project, into which we will 'install' the 3D artworks.

What will you do?
- Utilising LiDAR you will scan and photograph a section of the Linnaeus Garden and The Orangery in Uppsala.
- One scan to be completed in Summer and a second in Winter
- The scan will then be exported along with images and returned via cloud storage.

What will you need?
- iPhone 12/13 Pro or recent iPad Pro – these models all have LiDAR
- Poly.cam app (https://poly.cam – app available on App Store)
- Interest in learning about or knowledge of 3D scanning
- Tutorials for LiDAR and Poly.cam available online e.g. https://learn.poly.cam/capturing-large-spaces
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Specifics
- The outlined areas in the below image and maps are to be scanned using LiDAR

- The scan will include the front of the Orangery, and a small section inside the doors in the middle section of the Orangery.
- Upper areas of the building façade that cannot be reached with LiDAR are to also be photographed to allow subsequent extension of the model by ourselves.
- Photographs to be taken of the pond from all sides, this will allow us to correct an issues that LiDAR encounters capturing of a reflective surface in post-processing.
- Scans can be broken up into segments as we can combine them later in post.

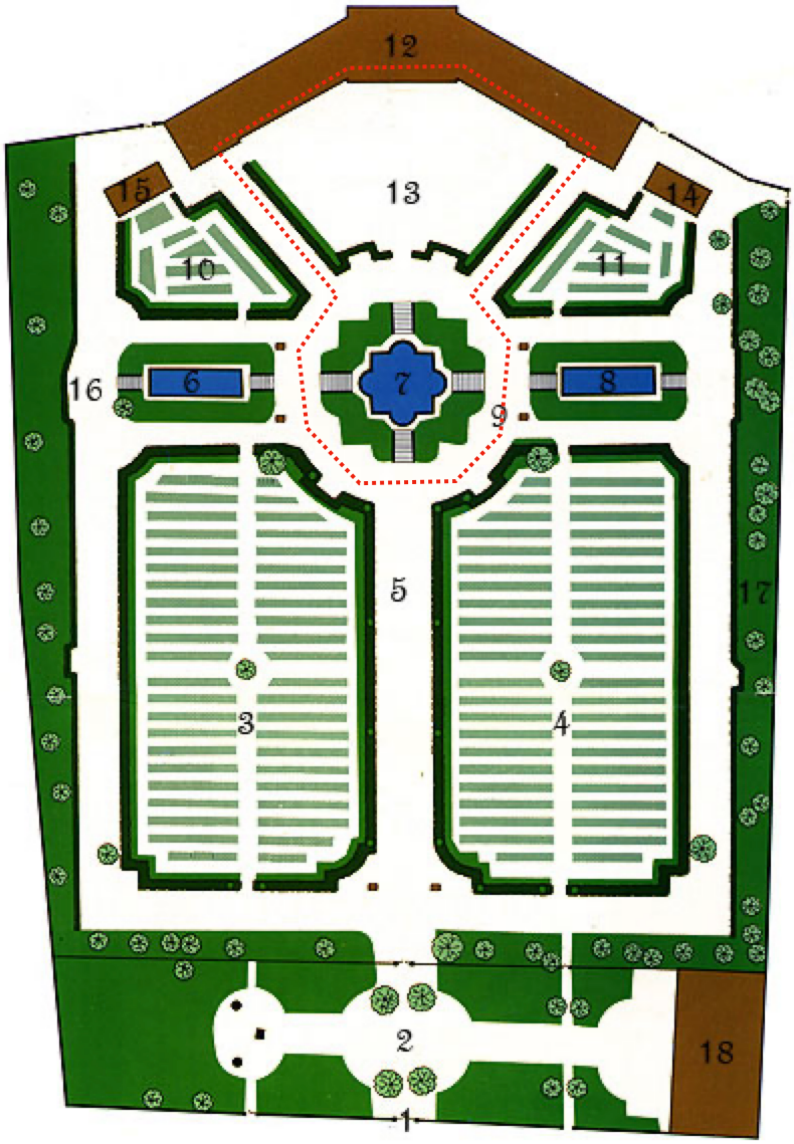
Payment

- You will receive 2000 SEK (inclusive of VAT) for each scan (i.e. 1x summer and 1x summer) via bank transfer.

Contact details to discuss further:

Dr. Ry Tweedie-Cullen - ry.tweedie-cullen@auckland.ac.nz

Details of areas to scan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