



LOHJA Järvikaupunki

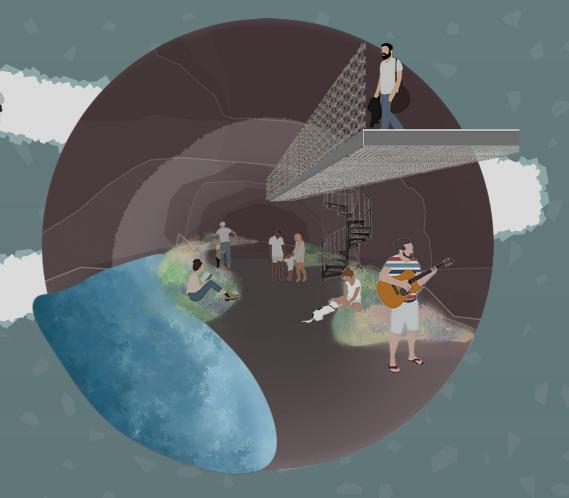
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of Michael Jelbart for the XR exp

# CAVE AS EXPERIMENTAL LAB TO 2050 Policy experiment as a portal to a sustainable transition and political transfromation

In 2050 Tytyri caves are open for the public. Tunnels have been opened for permaculture and other alternative underground food production methods. The citizens can join peer-to-peer workshops, as the marketplace promotes sharing of knowledge, skills and goods. The energy needed for all activities is provided by geothermal and micro-grids of solar and wind energy. The harvested dried mushrooms provide vitamin D for the whole Finland.





# POLICY EXPERIMENT

The policy experiment transforms the caves into an experimental lab and partly opens up the tunnels for citizens. Cultivating oyster mushrooms would be the first feasible form of food production as they grow well at 90% humidity and at 8-10 °C.





The policy experiment has 5 phases within two rounds. In the first round, extended reality (XR) is used to create a public space for Lohja's citizens.

Through an easily accessible WebAR facilitator, citizens can draw their own vision for the future of the caves, and comment on others, immersed in rocks, mushrooms and more.

## Phase 3

Experiment and implementation through XR with citizens

## Phase 5

Run a pilot in the corner of an abandoned cave with a real setting

**EXTENDED REALITY AS FACILITATION** TOOL

**PILOT IN** THE CAVE

### Phase 6 Reflects the

result and revises to enforce policy

# Phase 1

Phase 2

**Envision the** 

desirable futures

with stakeholders

and citizens by

given XR tool

Set the stage for the experiment and call out citizens

## Phase 4

Reflects the result and revises to make a feasible scenario

2050