



Country / City ..Switzerland, Mendrisio.....

University / School ..Accademia di Architettura di Mendrisio.....

Academic year ..2018/2019.....

Title of the project ..Memory through sound.....

Authors ..Augusto Ligresti.....



TECHNICAL DOSSIER

Title of the project ..Memory through sound.....
Authors ..Augusto Ligresti.....
Title of the course ..Sardegna : Mining Landscape.....
Academic year ..2018/2019.....
Teaching Staff ..João Nunes & João Gomes da Silva, Angela Palmitessa e Teresa Figueirido Marques.....
Department/Section/Program of belonging ..Bachelor 3.....
.....
University/School ..Accademia di Architettura di Mendrisio.....



Written statement, short description of the project in English, no more than 250 words

...Nebida is a former mining town in the municipality of Iglesias. This village right next to the sea was born and.....
...depended entirely on the mine. Each gallery built benefited from natural ventilation. This well functioning.....
...ventilation system exploited the wind and the natural change of air due to temperature due to the temperature
...difference inside and outside the mine reaching up to 50 m³ of air per second when the wind reaches its full.....
...speed. Thanks to this air exchange, it is possible to theorise the insertion of a musical instrument at the exit of
...the ventilation shafts, allowing this to play naturally. The instrument consists of two main elements: the bell.....
...shaped flare in brass and the vibrating metal disk. The vibrating disk is inserted at the base and supported by.....
...circular ring. The enclosure of the metal disk lets the air through a slot at its edge, creating a strong pressure at...
...the base of the metal envelop. The pressure is released making the disk vibrate, reaching a frequency of 432 Hertz,
...very commonly used for meditation. Above the bell a kind of cap is inserted, which if raised or lowered with a...
...winch it adjusts the volume. Through an underground that spreads the sound in the valley the wells become a place
...of meditation and listening. With my project I want to bring back to life a buried giant, the mine, giving it a voice.

For further information
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11th International Biennial Landscape Barcelona

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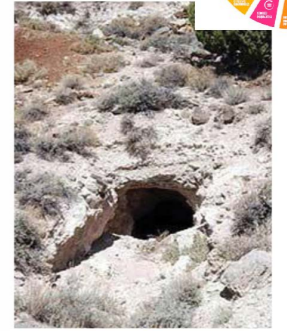


Nebida's mine network:

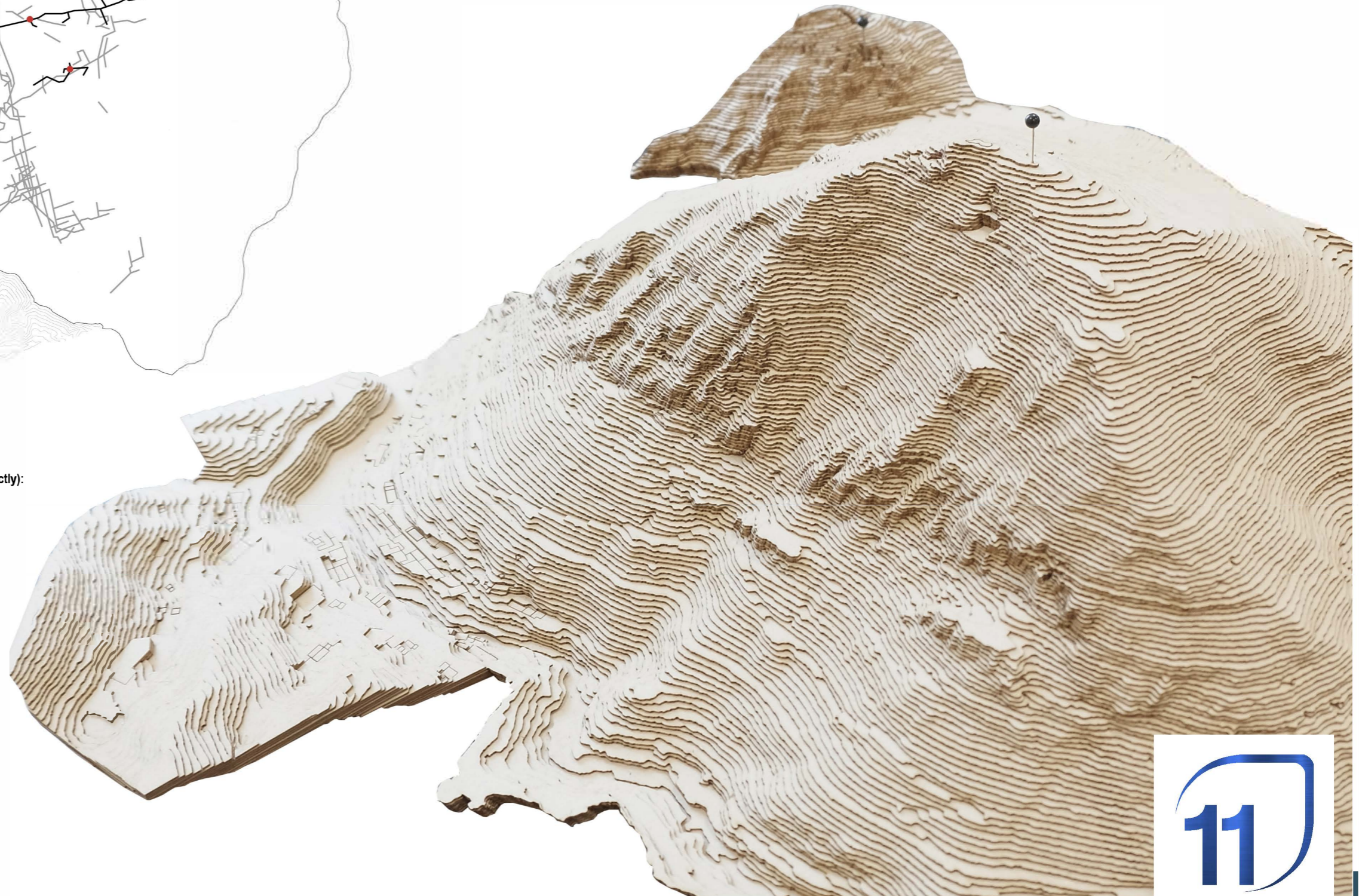


- Ventilated tunnels
- Unventilated tunnels
- Ventilation Wells

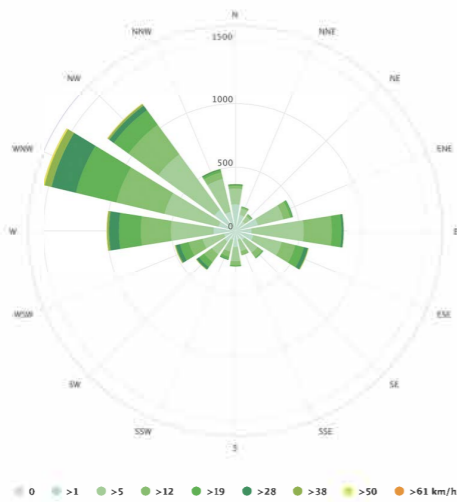
Old mine entrances and collapsed tunnels:



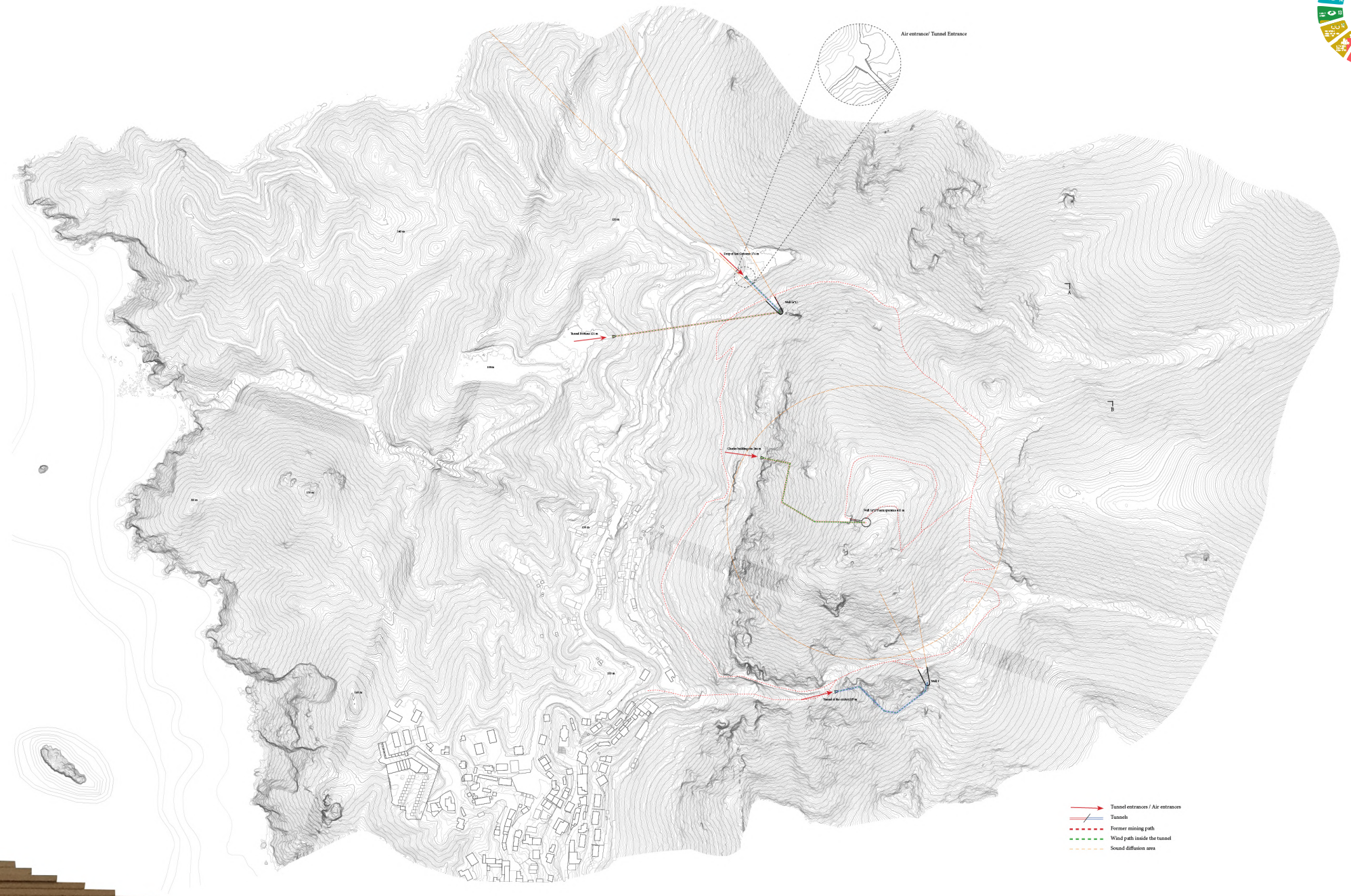
Landscape model of Nebida's area: (pins indicate the vertical wells for the tunnels ventilation)



Wind diagram (the stronger winds coming from the sea enter the tunnels directly):



Planimetry of Nebida's area:



Well model and real working sound simulation:

