

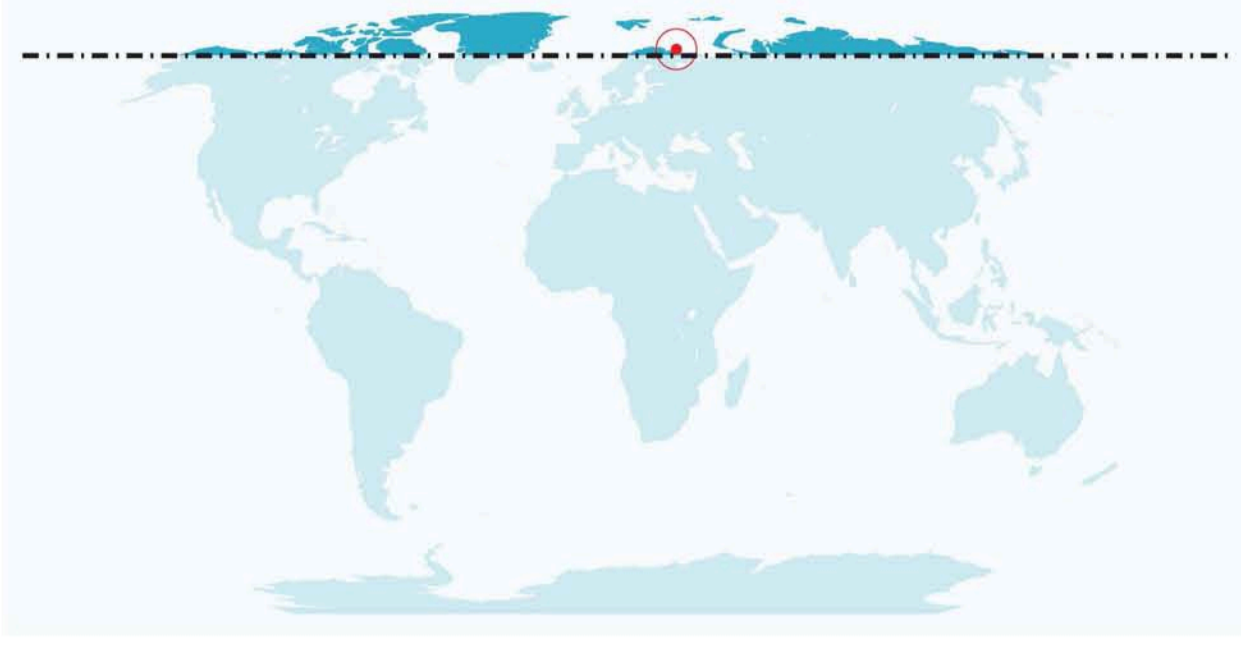
CASE STUDY :

Múrmansk (RUSSIA)

68°58'0"N 33°5'0"E

Murmansk is set to be the Russian terminus of the Arctic Sea Bridge.

Murmansk area features a subarctic climate, with long and cold winters and short but relatively mild summers. In the city, sub-freezing temperatures are routinely experienced from October through May.



URBAN DEVICE :

Color Cloud

EMOTIONAL SYSTEM FOR PUBLIC SPACES

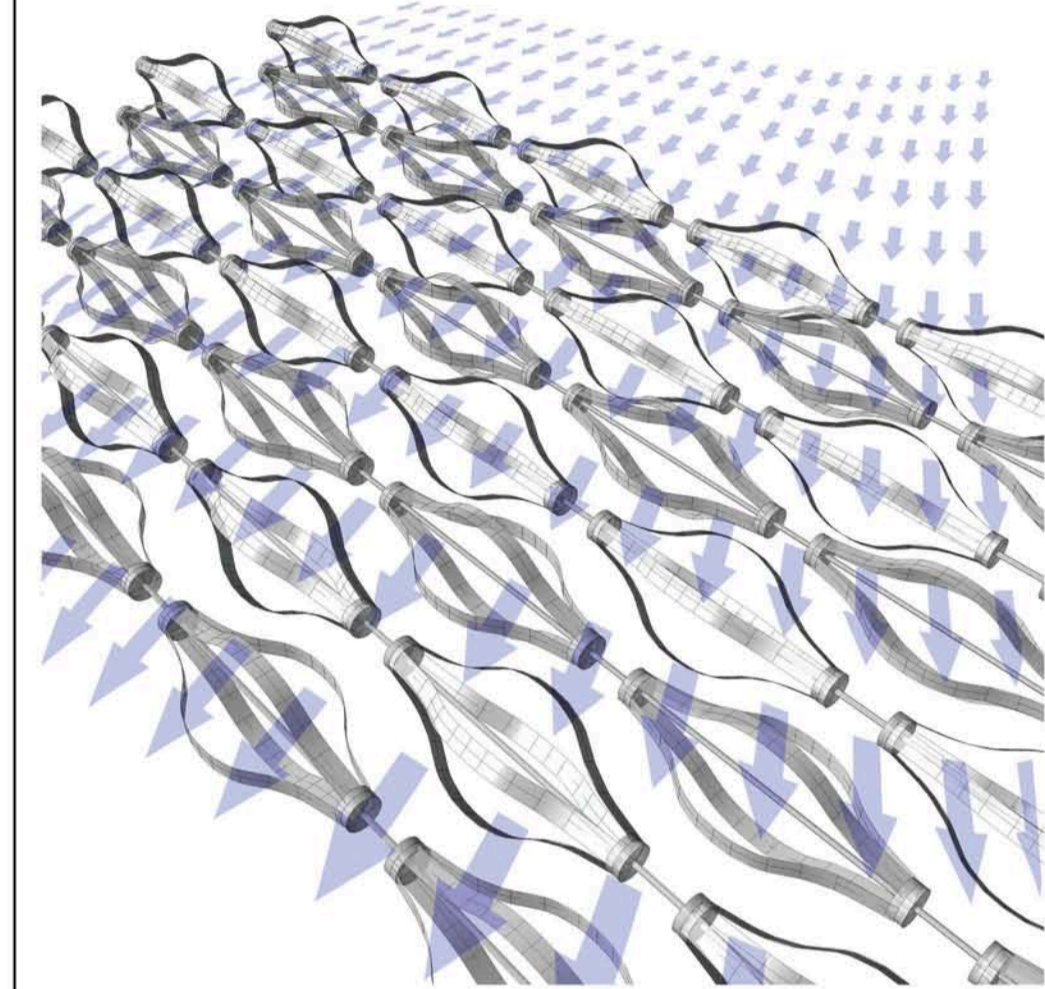


MEMORY :

COLOR CLOUD is an installation that reacts to relative humidity conditions forming new spaces of psychological relationship. The installation is part of a phenomenon that occurs in the atmosphere called Raleigh, it simulates the effect that occurs when projecting two wavelengths different distant each other on a colloidal system.

The modular structure in tensesity allows its adaptation to any space. The thermochromatic coverage formed by a mesh of propellers, changes color according to the temperature. The movement of the propellers generates electrical energy that is transmitted through the cables of the tensesity to bars that are the ones with the lighting of the installation.

A device that creates an urban atmosphere for social interaction by providing the benefits of light therapy.

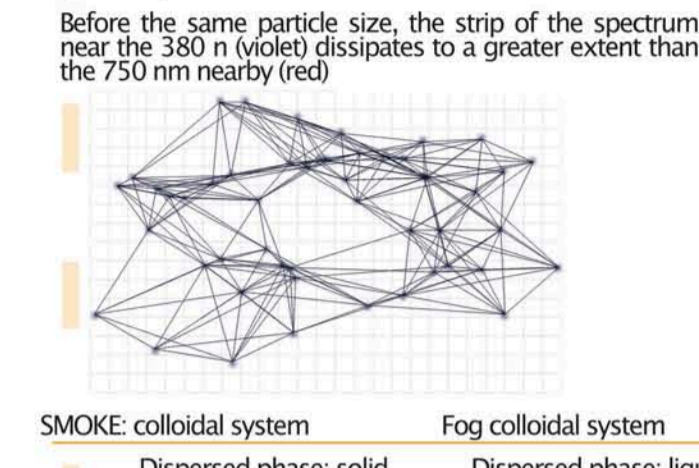
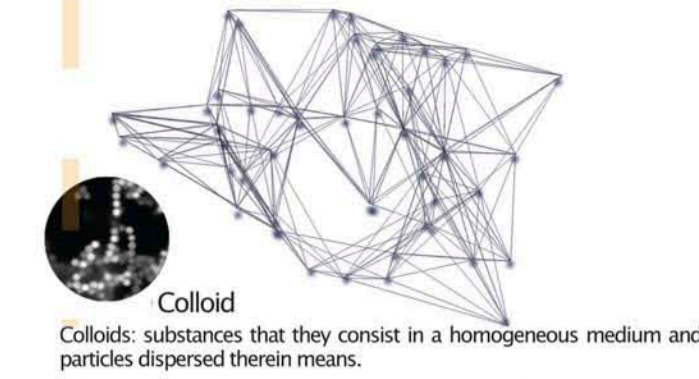


Energy Propellers System provides electricity from the arctic winds during night and day.

TECHNOLOGICAL SYSTEM :

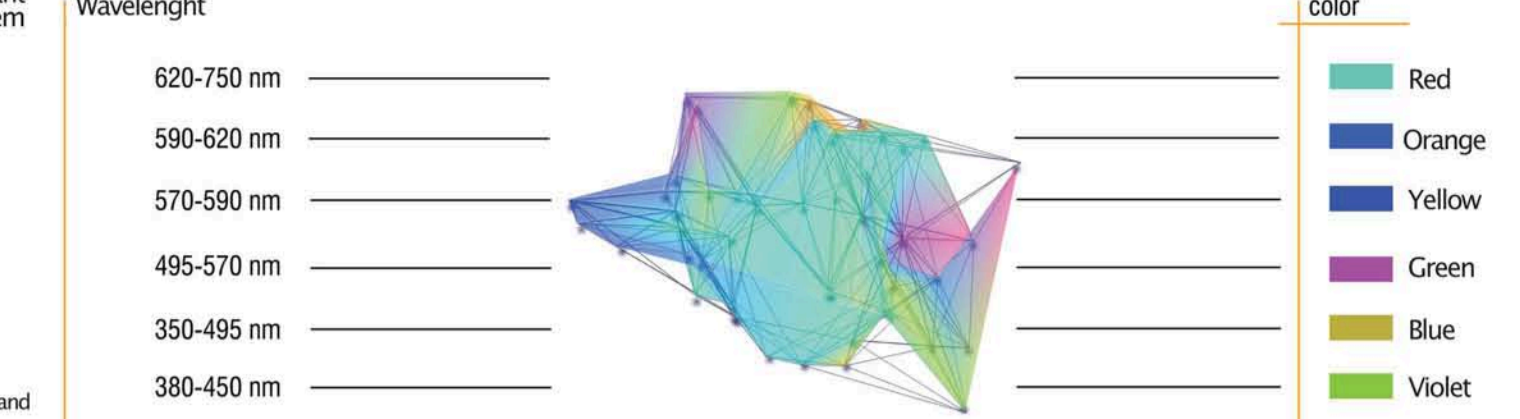
1_COLOR CLOUD EXPERIENCE

The COLOR CLOUD installation simulates the effect that occurs when projecting two wavelengths different distant between themselves (red and blue), on a colloidal system (fog).

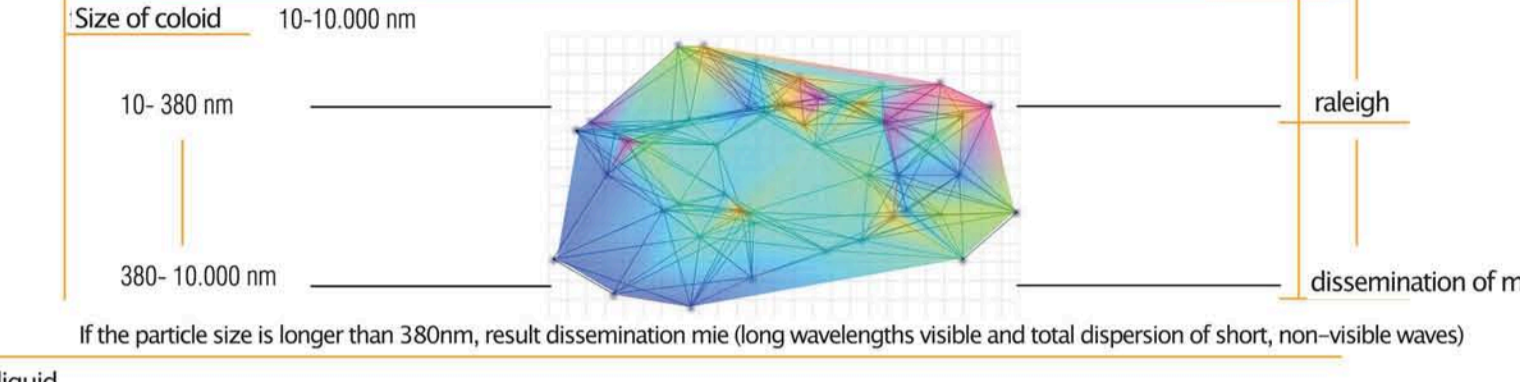


2_COLOR CLOUD WAVES

We associate the size of colloid with incident wavelength



When the particle size is less than or equal to 380 nm, occur the phenomenon Raleigh (visible short wavelengths and invisible long wavelengths)

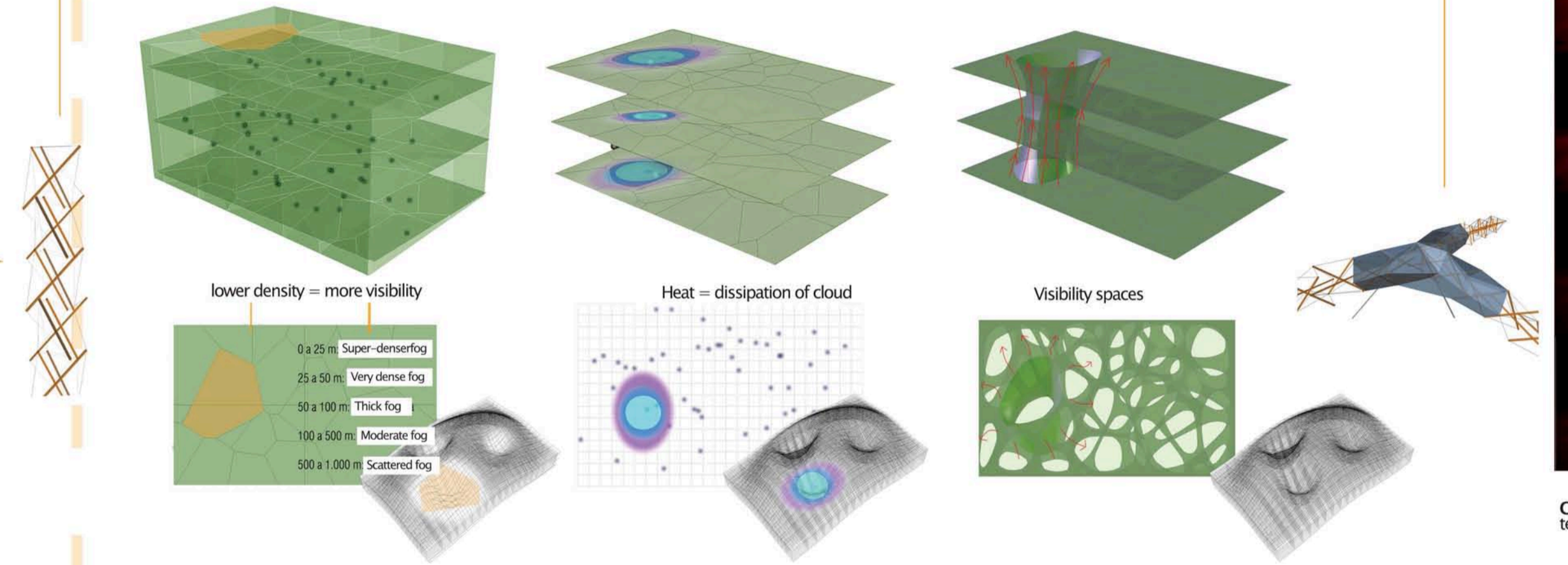


3_COLORIFIC CLOUD

LIGHT PROPELLERS The application of heat dissipates the clouds

The application of heat dissipates the clouds causing visibility spaces

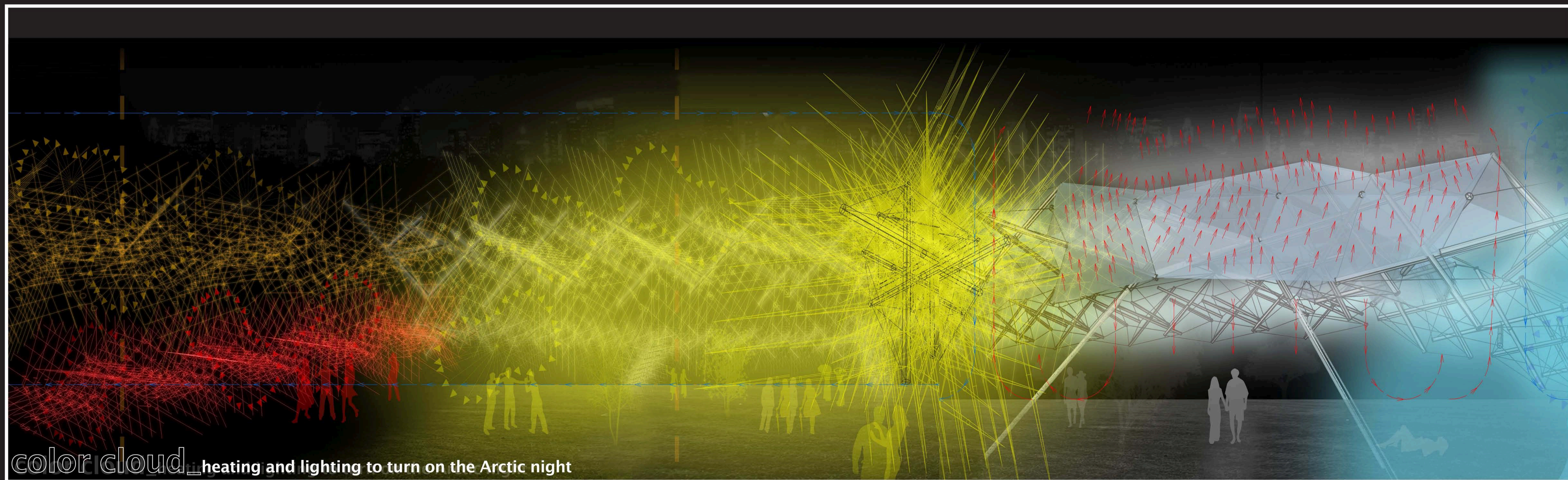
SINK THERMOCHROMIC



REAL PERFORMANCE :



Color Cloud (prototype 1.0) being tested overnight at a temperature of -9°C



color cloud heating and lighting to turn on the Arctic night