
THE NEST INSTALLATION:

How it fits in the Living Building:-

The Living building with its already functioning circulatory, digestive and metabolic system will now have a nervous system that senses and communicates.

The sound and light system in the building will interact with human movement and perception to create its own language of communication. The nervous system will sense colour and movement and will communicate with sound, light and digital projection to develop a language for dialogue between each component.

The nest installation is a kinetic installation that responds to the quantum of activity in the building. The movable rectangular frame in the nest structure on the terrace is the kinetic element of the nest installation that is linked to fabric / surfaces that fold and stretch as the frame moves. When viewed from the street, the movement of the frame metaphorically reflects the breath of the living building. The living building breathes faster when more activities are happening within.

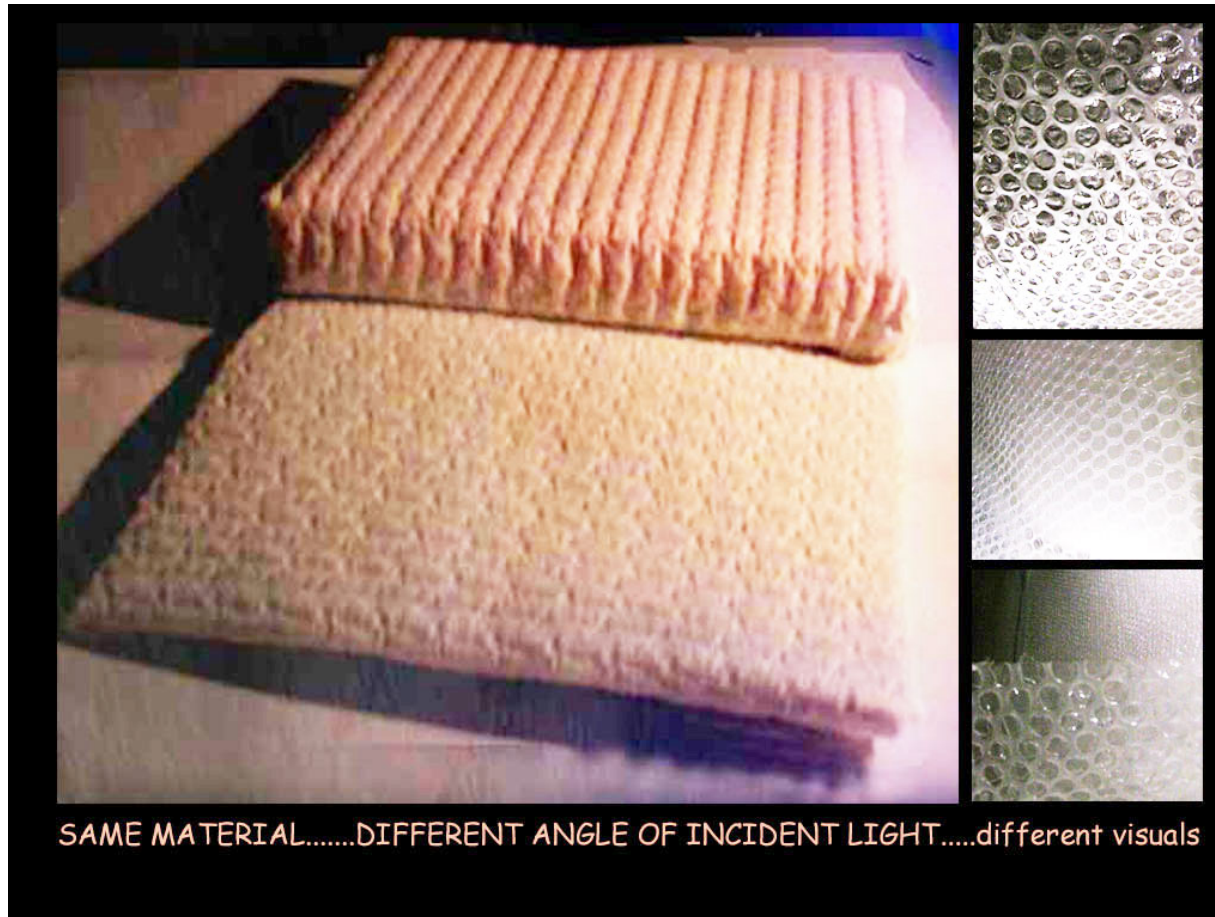
The movement of the installation could be triggered by the number of people entering and leaving the building. A part of the nervous system will track the number of people entering the building (who themselves become a part of the system). The movement of the installation will be more with the increase in the number of people entering or leaving the building in a given time frame. Alternatively the movement of the installation could be triggered at the end of each communication thread in the building. For example; if the human movement has triggered sound effect which has triggered a lighting preset in the building; at the end of the lighting preset, the nest installation will receive a message to move/turn on the motor that is linked to the movable frame.

Physical aspects of the installation:-

The installation will make use of the movable metal frame in the nest on the terrace of the building. Textured surfaces/planes will be tensioned from the movable metal frame to the metal structural elements of the nest. Lighting will illuminate the textured surfaces that would fold / bend/ turn over as and when the metal frame is triggered to move.

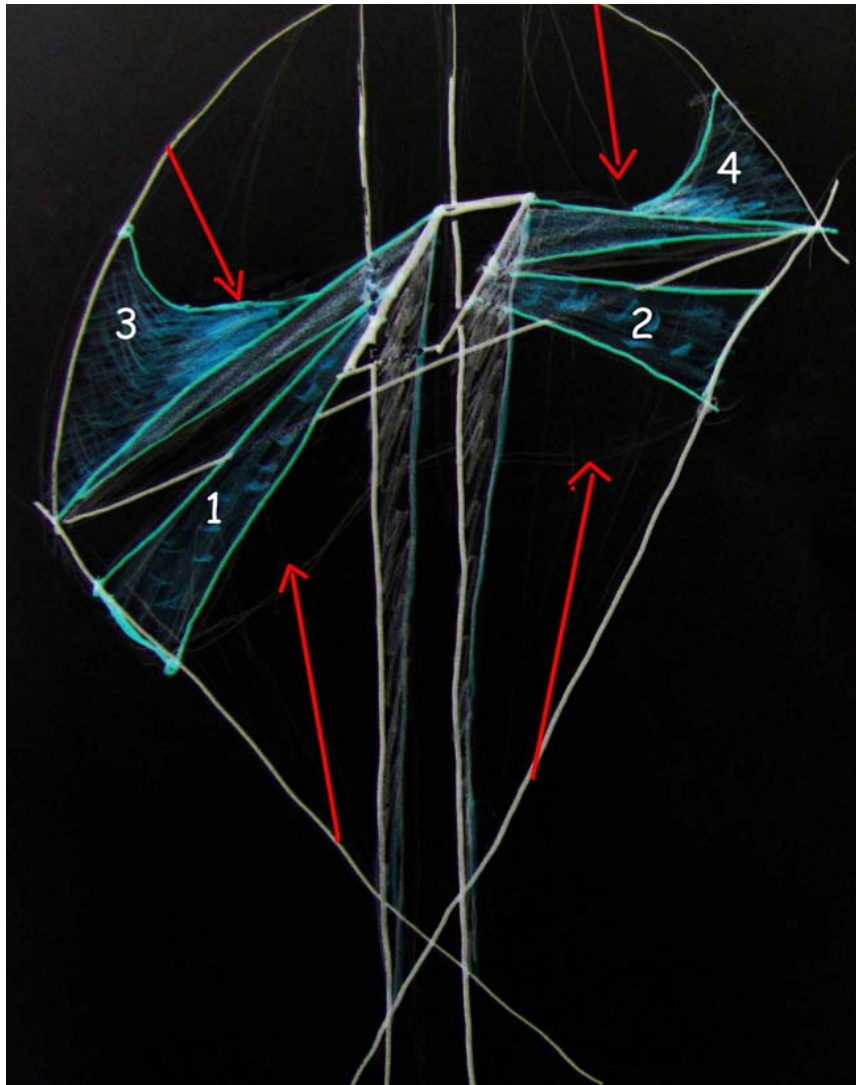
Textures surfaces look different when lit at different angles. The movement of the metal frame and the folding/ bending/turning over of the surfaces allow for light to fall on the surfaces at different angles. The changing angle of light on the textured surfaces

will create a soft but yet evident changes in the visuals.

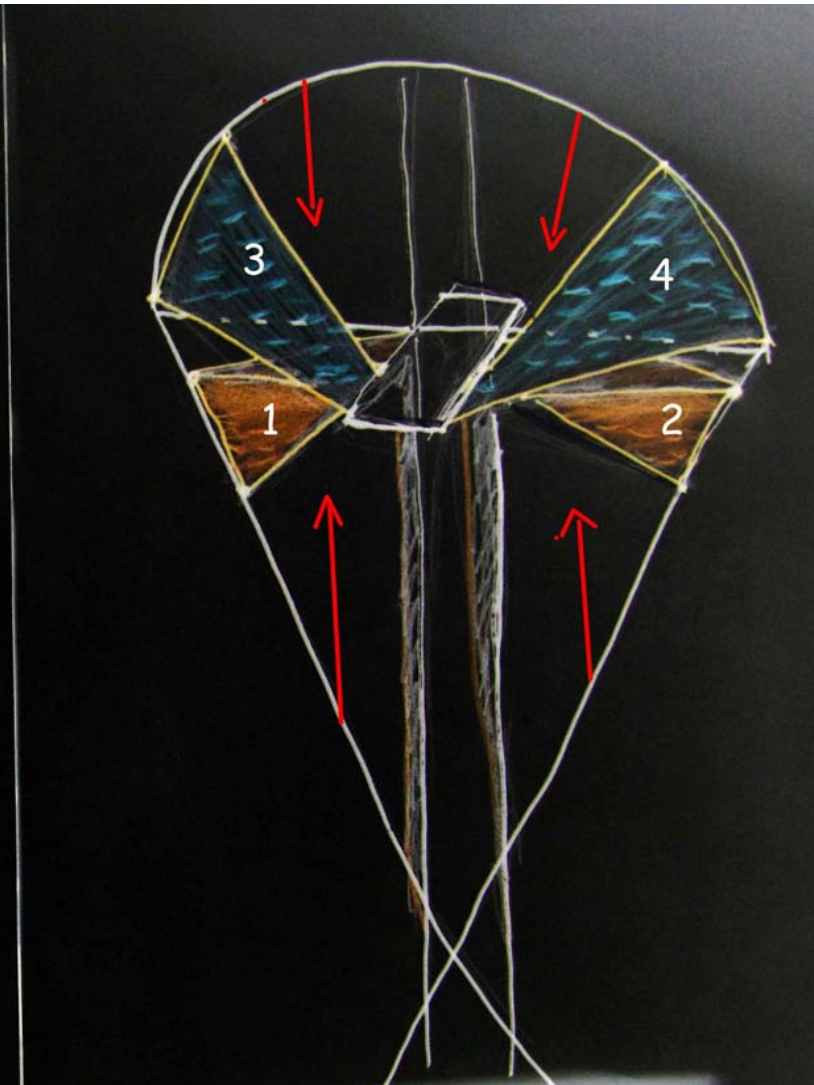


Alongside is an example of how texture and change in the angle of incident light can make the same surface look quite different.

Enclosed overleaf in a scribble of the possible surfaces and lighting positions in the nest installation. (The sketch is not to scale and distorted, but it gives a rough idea of the surfaces / planes being used).



Position A with frame up - fabric/plane 1 and 2 fully stretched and fabric/plane 3 and 4 folded



Position B with frame down - fabric/plane 1 and 2 folded and fabric/plane 3 and 4 fully stretched

Components for the installation:-

The components consist of:-

- (1) Textured fabric / flexible material: I have at this stage taken samples of the green net-mesh and the soilless base mats that are used for the plants; which I will test for their behaviour with light. However; I reckon we will need a more textured material that I yet need to source out.
- (2) Plastic ropes: to tie the fabric onto the metal elements
- (3) Appropriate motor to control the movable metal frame.
- (4) Four of the 50 LED modules that are being fabricated for the Sound and Light project
- (5) Laptop on the terrace to trigger the motor that moves the metal frame
- (6) Drill bit to move the metal frame forward.

Skills and Resources:-

Kiran, Tobias and Sharath have been pitching in thoughts and ideas. Kiran will be able to re-position the frame to allow for ample movement of frame. (The drill bit yet needs to be sourced out to do the same). Kiran will help with setting up the motor and installing the lights. We may need little input/advice on the appropriate type of motor for the movable frame; and programming input for linking the motor to the triggers in the building.

Cost and Funding:-

Request for a small portion of the Sound and Light project fund to be allocated for the nest installation.