

CNSI HEART

QIAN LIU

MAT 200A PROPOSAL

Concept

Modes

Data

Interaction

Traffic Number

Human

Material

Pixelskin

Screen

A HEART is responsible for pumping blood throughout the blood vessels by repeated, rhythmic contractions.

CNSI HEART is responsible for pumping information from labs and research groups in UCLA and UCSB.

For the visitors who drive by Elings Halls, coming or leaving UCSB, the building will seem alive.

Concept

Modes

Data

Interaction

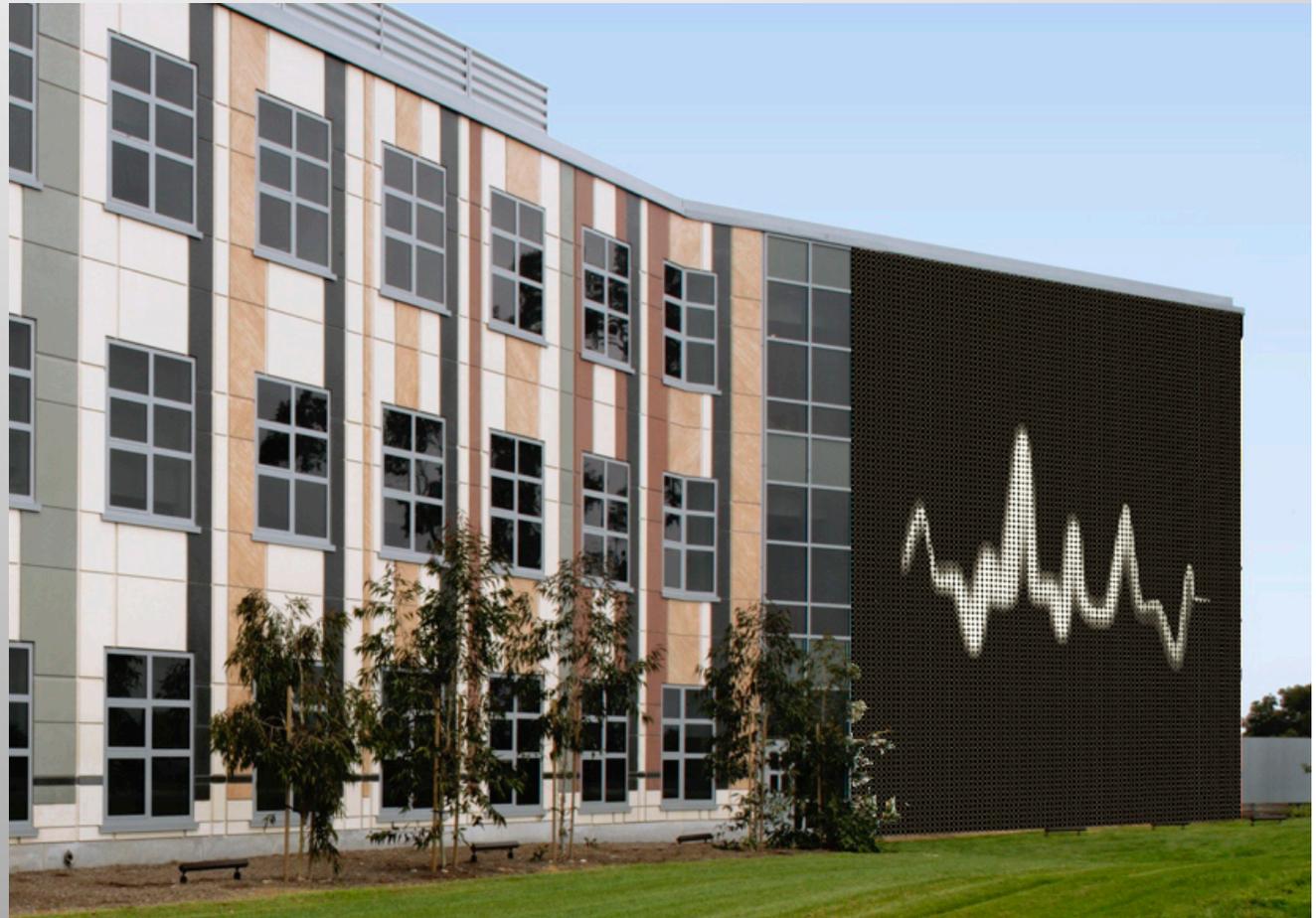
Traffic Number

Human

Material

Pixelskin

Screen



Concept

Modes

Data

Interaction

Traffic Number

Human

Material

Pixelskin

Screen

STREET LEVEL

Visitors who pass by quickly will experience the wall as an Electrocardiogram (**ECG**), the **CNSI HEART** beating every few seconds.

CLOSE-BY Observers

Visitors who stand near the wall will activate image cells to become **TRANSPARENT** to reveal what is behind.

Concept

Modes

Data

Interaction

Traffic Number

HORIZONTAL LINE

Material

Pixelskin

Screen

AMPLITUDE OF THE ECG STAND FOR
THE **POWER** FACILITIES COST AT THE
REAL TIME IN THE TWO **CNSI** BUILDING

UCSB

UCLA



Concept

The CNSI heartbeat changes with the **NUMBER** of cars passing by.

Modes

Data

The **SPEED** of heartbeat will change depending on the traffic volume.

Interaction

Traffic Number

If there are more cars passing by at the same time, the heart will beat faster and change **COLOR** into a warm tone. If there are less cars, the heartbeat will slow down and change color into cool tone.

Human

Material

Pixelskin

Screen

Concept

Modes

Data

Interaction

Traffic Number

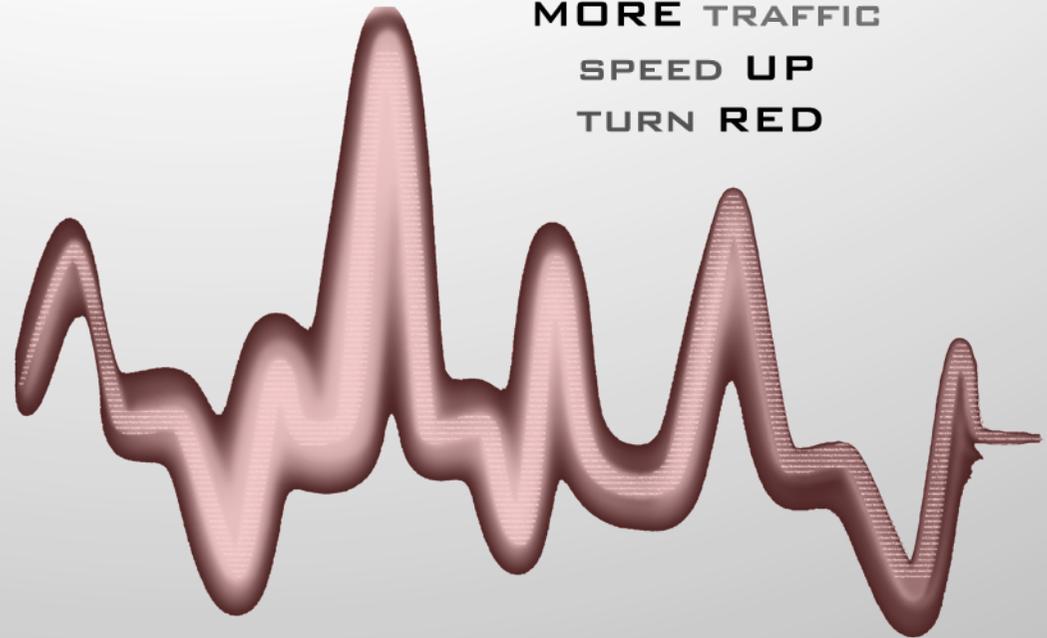
Human

Material

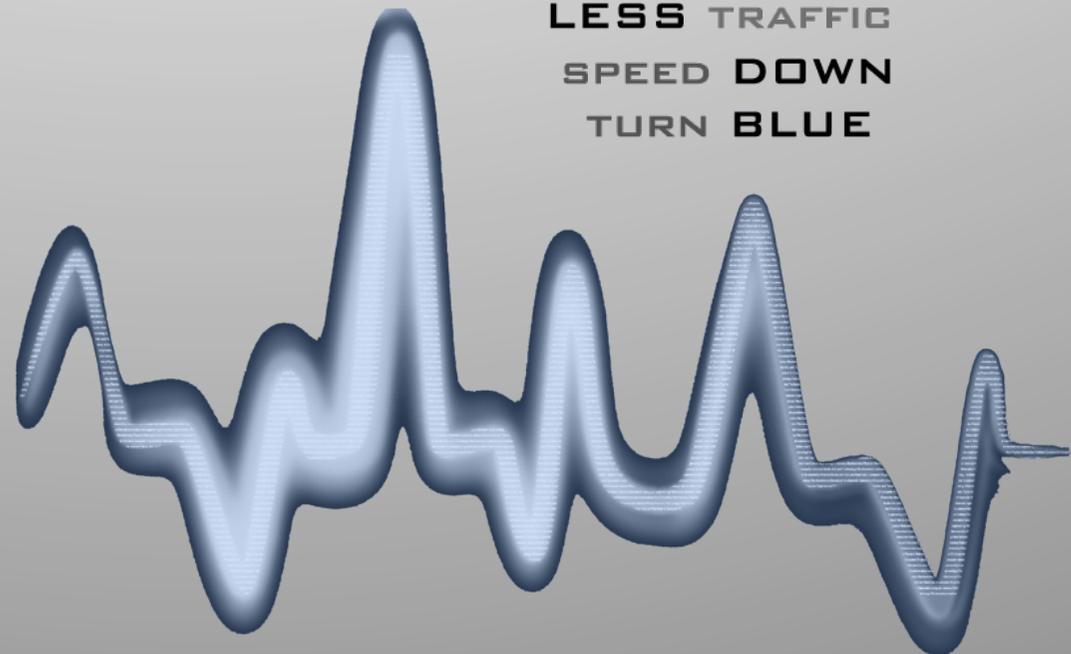
Pixelskin

Screen

**MORE TRAFFIC
SPEED UP
TURN RED**



**LESS TRAFFIC
SPEED DOWN
TURN BLUE**



Concept

Modes

Data

Interaction

Traffic Number

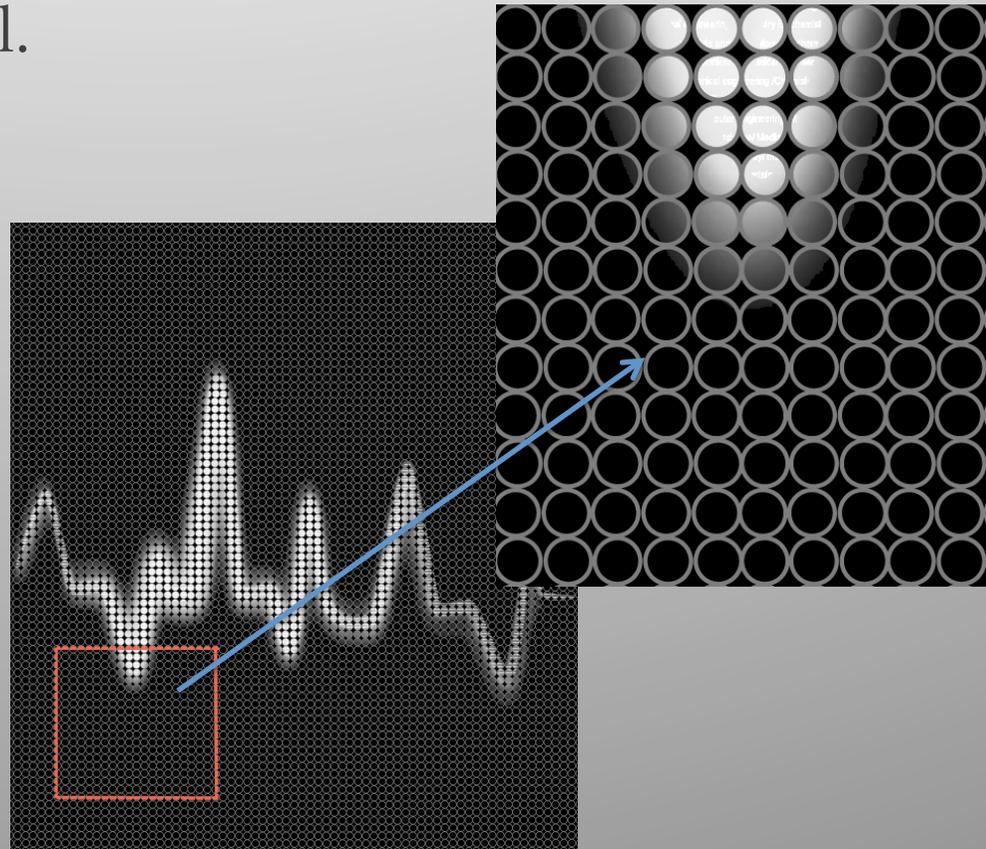
Human

Material

Pixelskin

Screen

When observers stand in front of the wall, the material of the wall will turn to **TRANSPARENCY**, showing the information of a LED screen behind the wall.



Concept

Modes

Data

Interaction

Traffic Number

Human

Material

Pixelskin

Screen

A heterogeneous smart surface, based on a multi-layered electrographic surface architecture, uses **ELECTROCHROMIC** glass and ultra-bright electroluminescent tubes controlled by a distributed network of on-board microcomputers and sensors.



Concept

Modes

Data

Interaction

Traffic Number

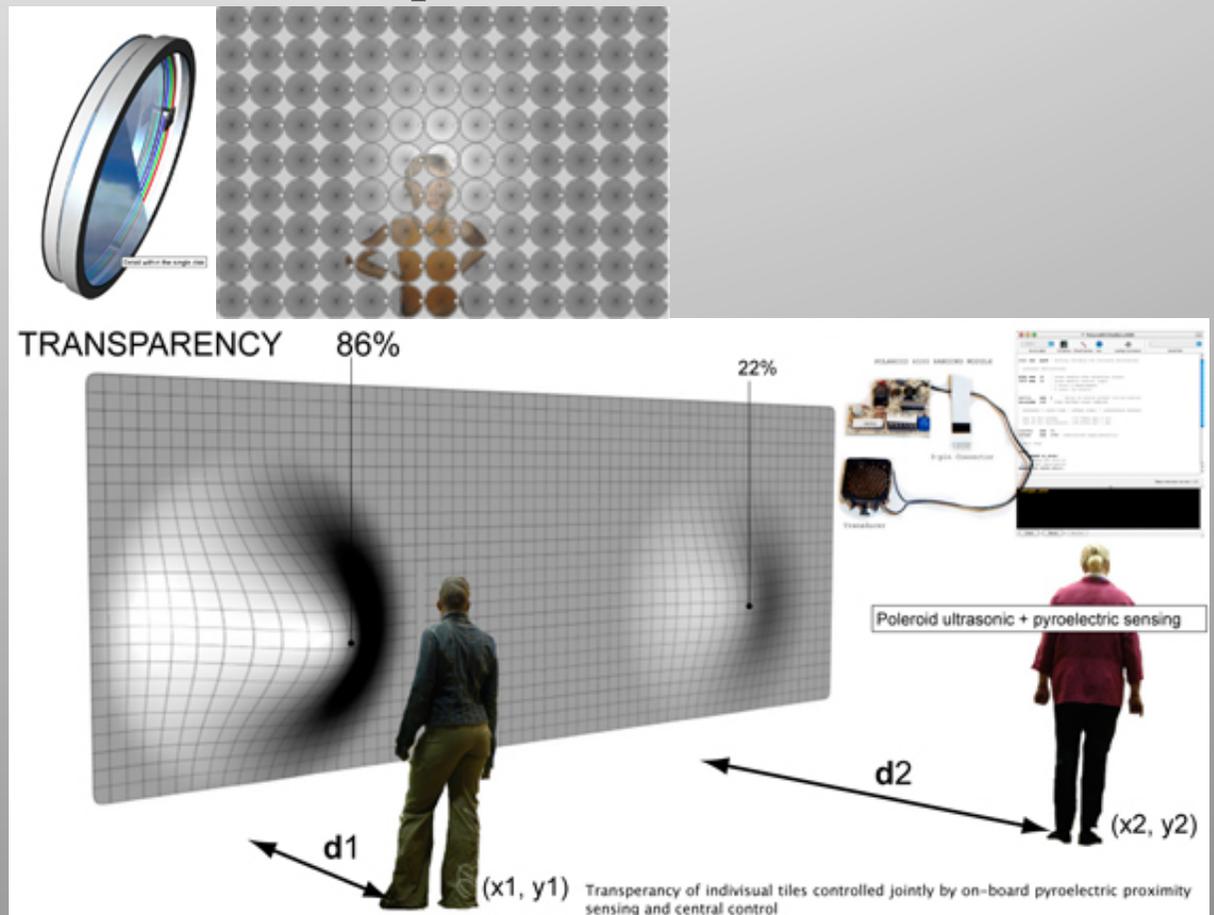
Human

Material

Pixelskin

Screen

As a person approaches the wall surface, **PYROELECTRIC** sensors on individual disk turn the default translucent state of the disks transparent.



Concept

Modes

Data

Interaction

Traffic Number

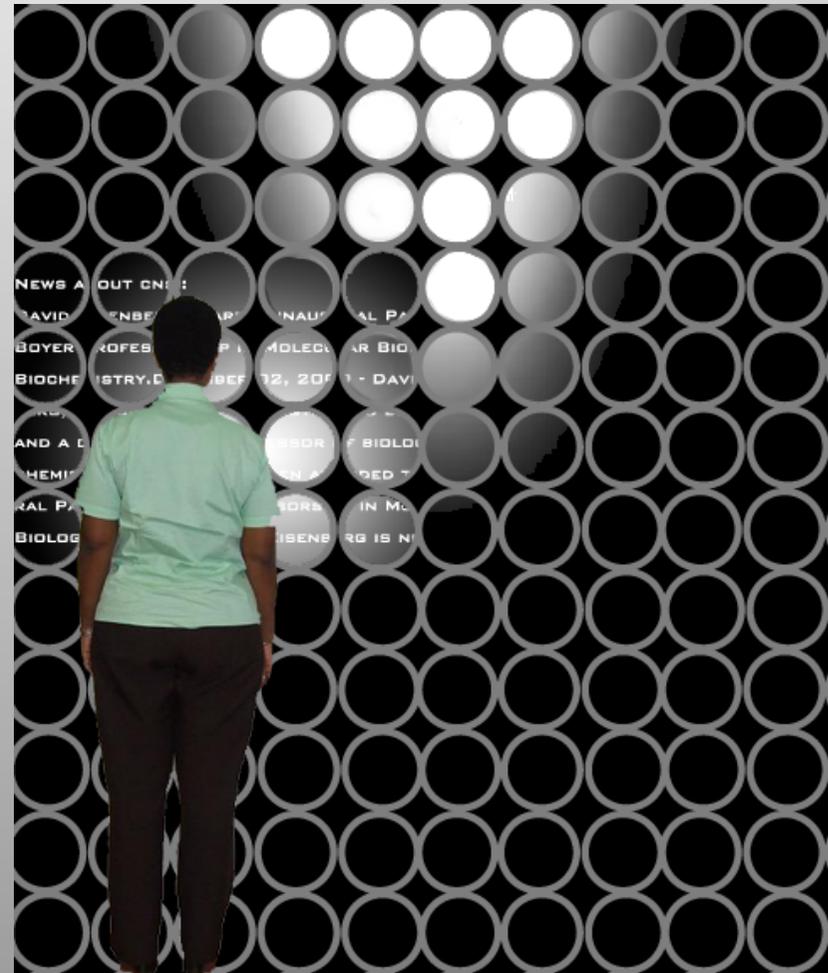
Human

Material

Pixelskin

Screen

The screen behind the wall is an **INFORMATION BOARD** which shows the daily news about CNSI and UCSB campus.



Concept

Modes

Data

Interaction

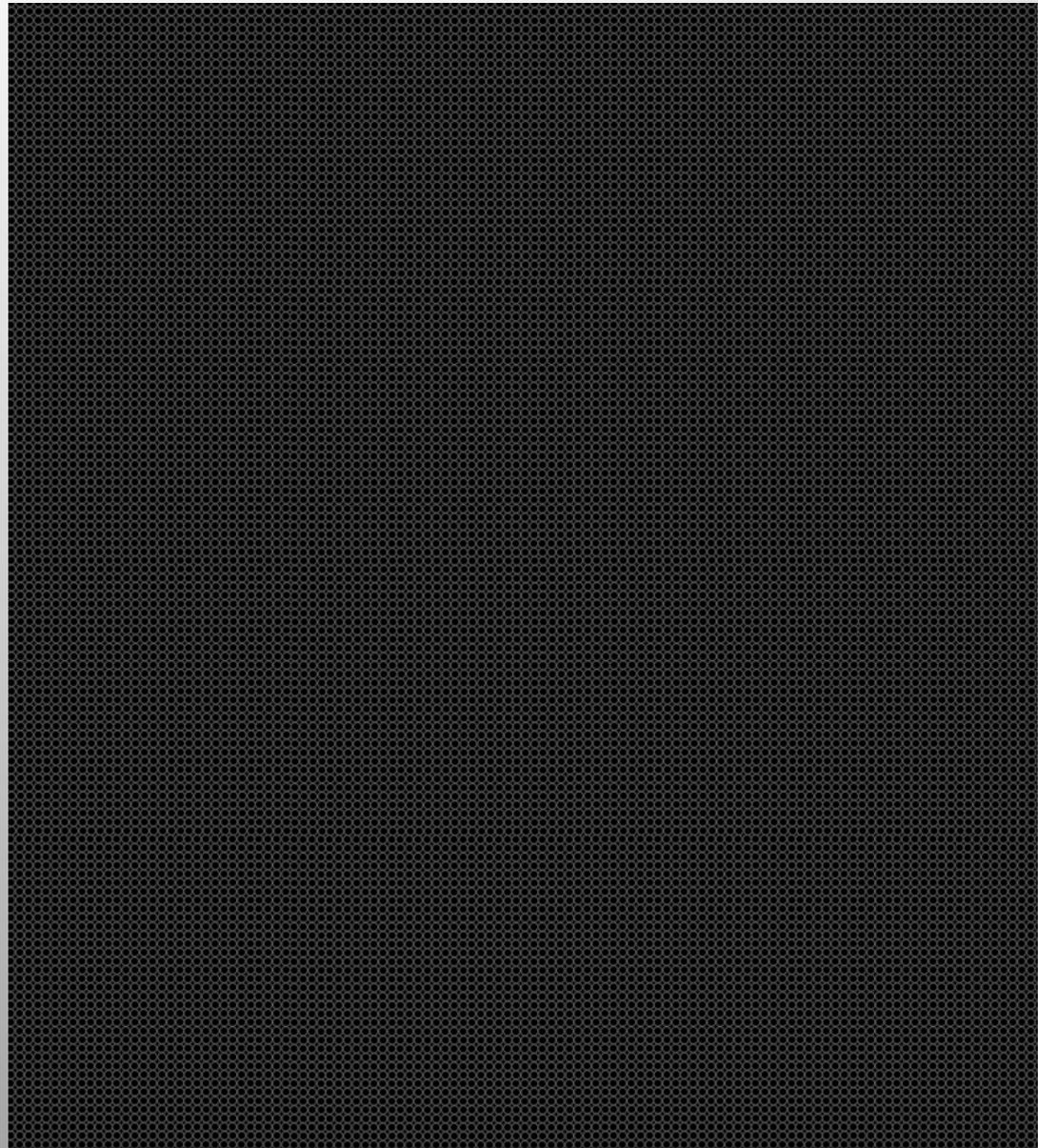
Traffic Number

Human

Material

Pixelskin

Screen



Concept

Modes

Data

Interaction

Traffic Number

Human

Material

Pixelskin

Screen

References:

Heart: <http://en.wikipedia.org/wiki/Heart>

ECG: <http://en.wikipedia.org/wiki/ECG>

Materials: PixelSkin01

http://www.orangevoid.org.uk/index.php?option=com_content&task=view&id=25&Itemid=36