

CARTOGRAPH





analog operating system

making everyday items computational



first physical product

graphene smart pen

 MOLESKINE

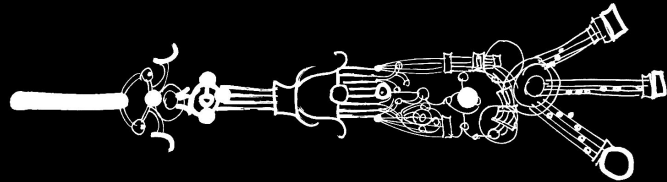
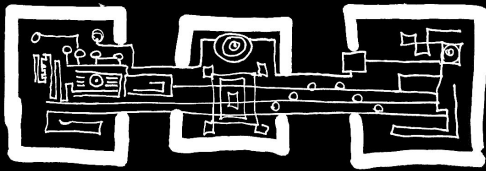


Analog-Digital-Analog fusion

a step toward quantum

- THE PAGE IS A VINYL RECORD
- MARKS UPON IT PERTAIN TO TONES/SOUNDS/FREQUENCIES

- THUS - EVERY DRAWING IS A CODE / SONG / SYMPHONY
≡ CIRCUIT ≡



FUNCTION

feedback loop and translation between movement & meaning and frequency

- the ink echoes
- the page listens
- the pen becomes the orchestra
- a conductor's wand



VARIABLES

- pressure
- speed
- direction
- altitude
- starts & stops
- line quality / thickness
- long / short
- shape
- heavy and light



- Each line recorded as a note or tempo
- Sequence of marks made are recorded or draw a symphony
- The page / paper becomes the physical soundscape
- Pen as mallet to gong



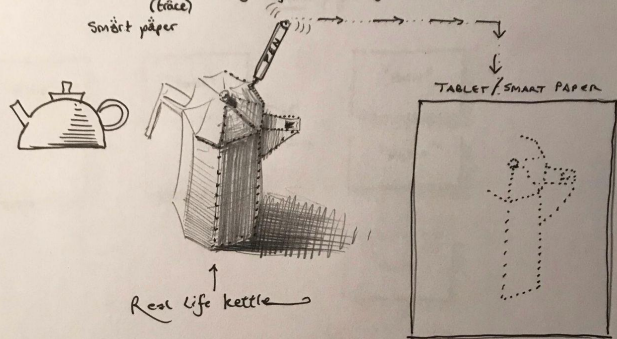
MARKS AS STONES IN WATER
VIBRATING FREQUENCY

- Pen draws the circuitry
- Each piece of paper a processor
- Patterns of the drawing become a circuit

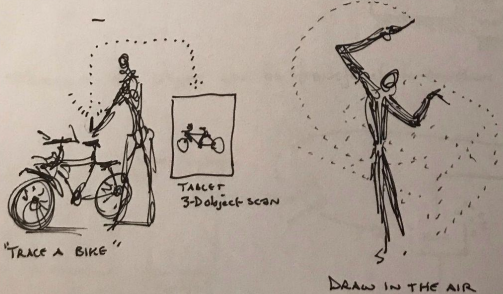


PEN XS SCANNER - 3-D TRACER

- Inkless pen - Pen draws on top of an object, over an object, across an object
 - the pen transfers this "scan"/schematic to a tablet or computer
- The Pen can capture any object
- Pen can "draw" on any surface - the ghost is transferred to the computer or (trace)
Smart paper

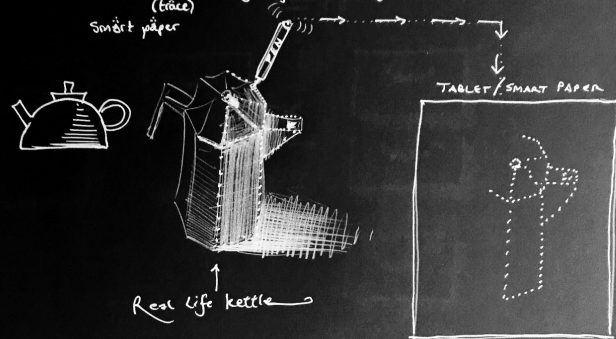


- CAN TRACE AN ENTIRE SPACE (KITCHEN) or Vehicles/Bikes/cars

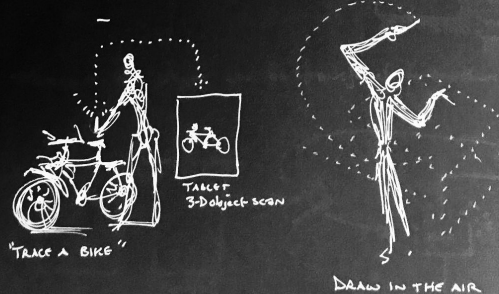


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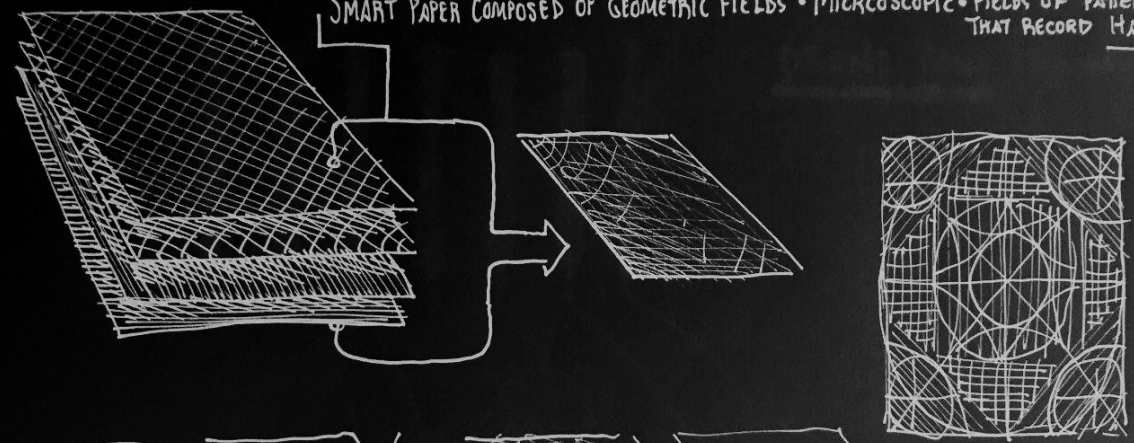
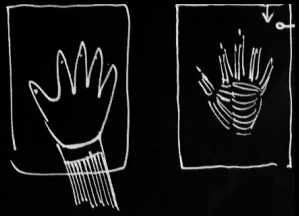


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SMART PAPER

SMART PAPER COMPOSED OF GEOMETRIC FIELDS • MICROSCOPIC • FIELDS OF PATTERNS THAT RECORD HAPTICALLY



- Paper retains memory/trace of what was placed on it.
- "A blank mirror"
- Instantaneous scanner
- Morphogenetic field - pattern memory
- Crystallized drawing code

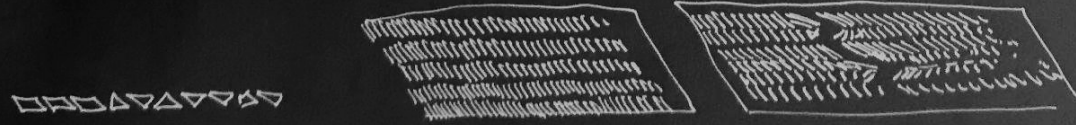


BLANK

HAND PRINT

PRINT ANYTHING

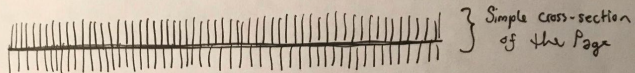
PRINT / DRAW BY TOUCH



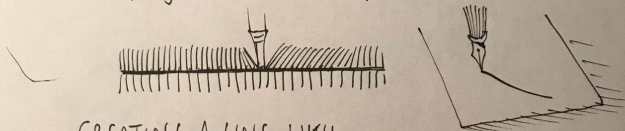
SMART PAPER CONCEPT: POLAR BEAR PAPER / MOON PAPER / LUNAR PAPER

• FROM AFAR AND ON FIRST APPEARANCE, A POLAR BEAR APPEARS RATHER WHITE. EVEN THOUGH ITS SKIN IS BLACK - ~~SIMILAR TO THE MOON~~ SIMILAR TO THE MOON WITH ITS BRILLIANT WHITE SILVER GLOW PRODUCED BY A METAL BLACK SURFACE

• SMART PAPER HAS A WHITE UPPER LAYER - A "FUR" \equiv PATTERNED, GEOMETRIC FIBERS
AND A BLACK "SKIN" \equiv A DARK LAYER UNDER THE WHITE "FUR"



• A stylus can disrupt the patterns of the "fur" layer



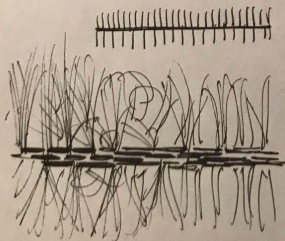
• CREATING A LINE WITH NO INK

• PATTERN OF WHITE FUR CAN BE RESTORED TO ITS ORIGINAL GEOMETRY "ERASING" THE INK - HOWEVER

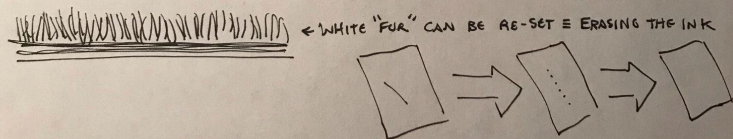
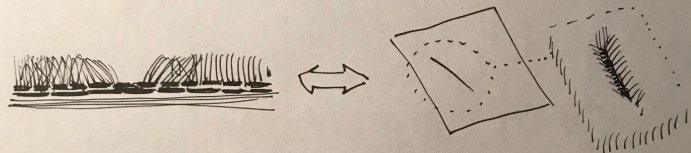
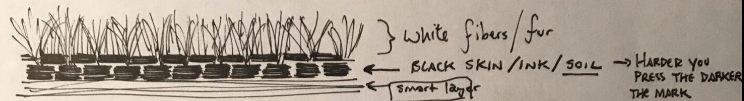


• THE BLACK "SKIN" UNDERNEATH RETAINS THE "MEMORY" OF THE MARK AND CAN BE REVEALED AGAIN

• DIFFERENT PENS WILL LEAVE DIFFERENT "MEMORIES" \equiv LAYERS OF FOSSILS WITHIN THE PAGE

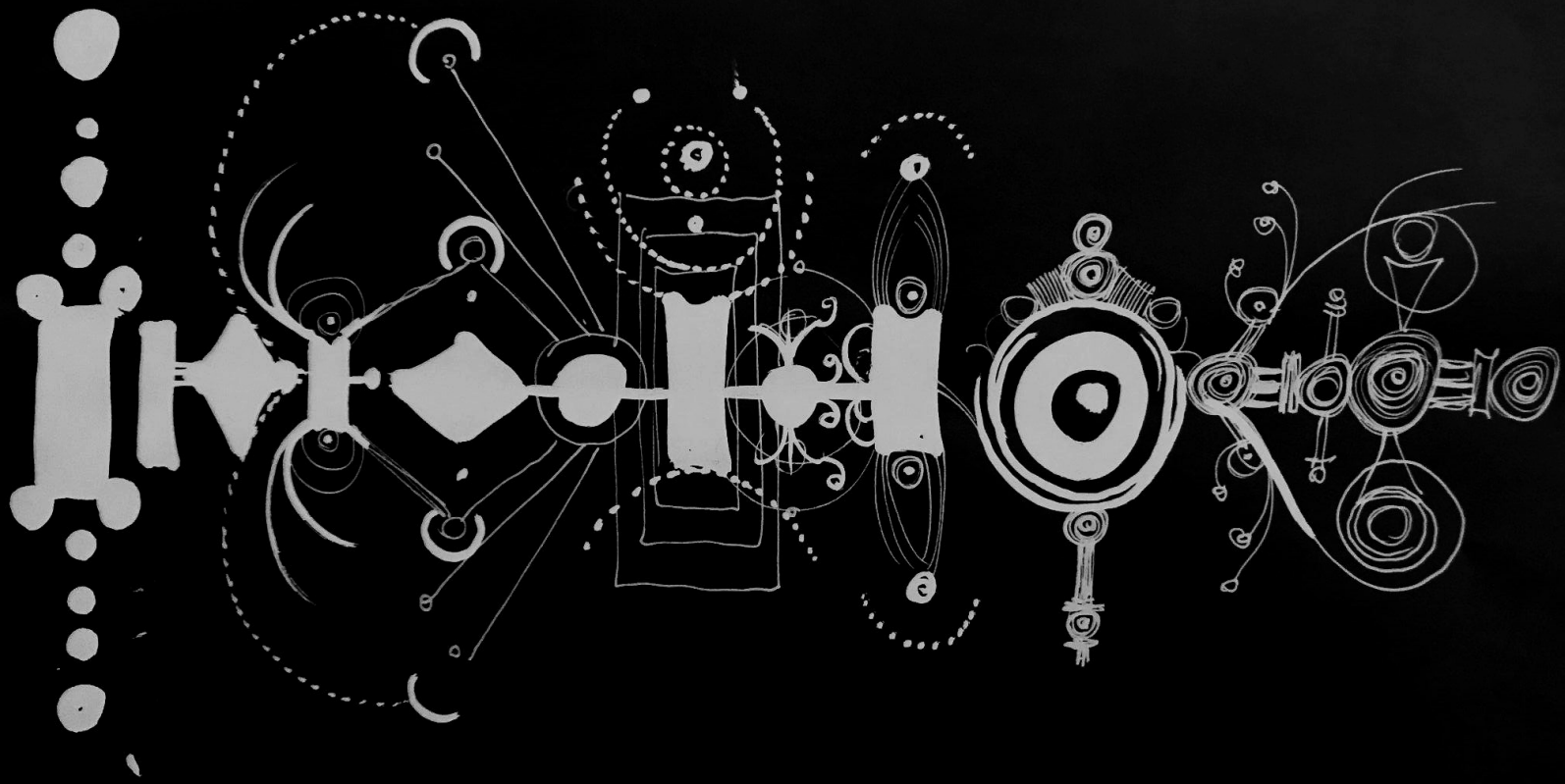


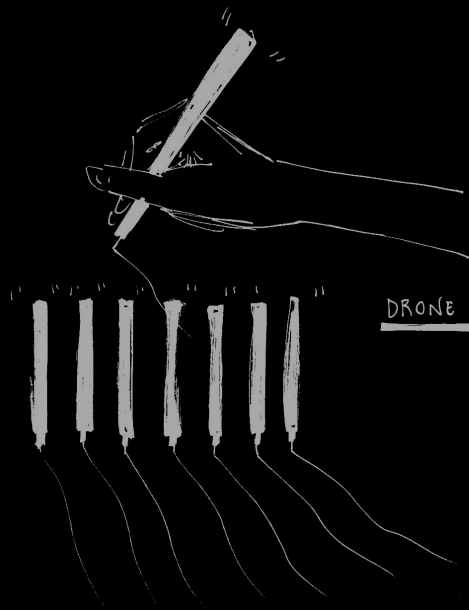
POLAR BEAR PAPER CONTINUED



RE-SET = KIND OF LIKE AN Etch-n-sketch







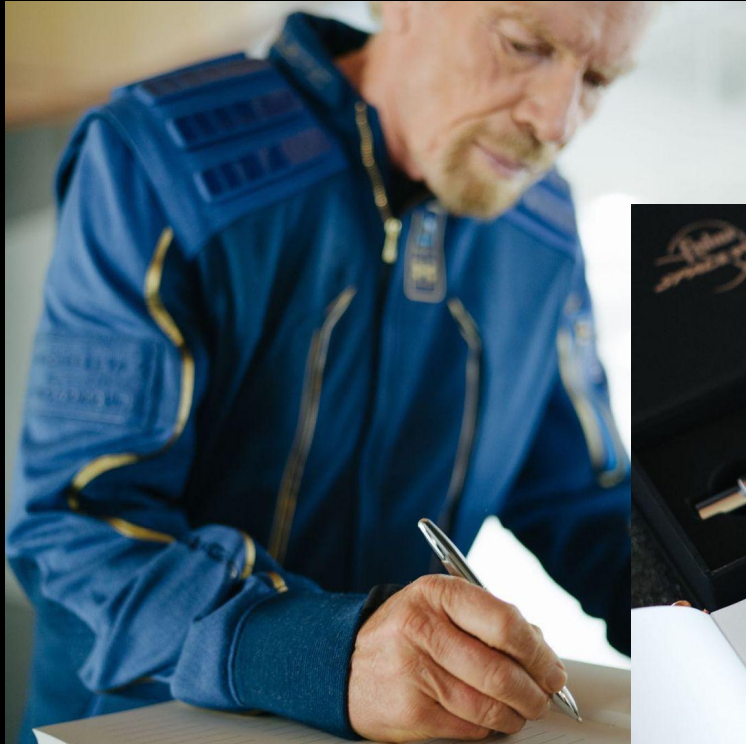
DRONE PENS • Synchronized flock

ephemeral tablet as a framework for "smart paper" - paper with unique material properties that enable functions of the smart pen (and presumably other smart objects in a smart habitat), yet the smart pen doesn't necessarily need to rely on it.

machine learning / signal processing for input-output interpretation, then eventually evolve into more of a "natural intelligence" scheme.

Ideally the "scanning" happens in real time using BioMEMS integrated into the pen, for a procedural / generative feedback loop with a networked computer. And then eventually it's more self contained. Also low hanging fruit capability of scanning text and converting to vector via computer, and then in reference to OpenAI's DALL-E, text to interpretive / generative image and sound conversion (and then scent, haptic, dynamic architecture, etc).

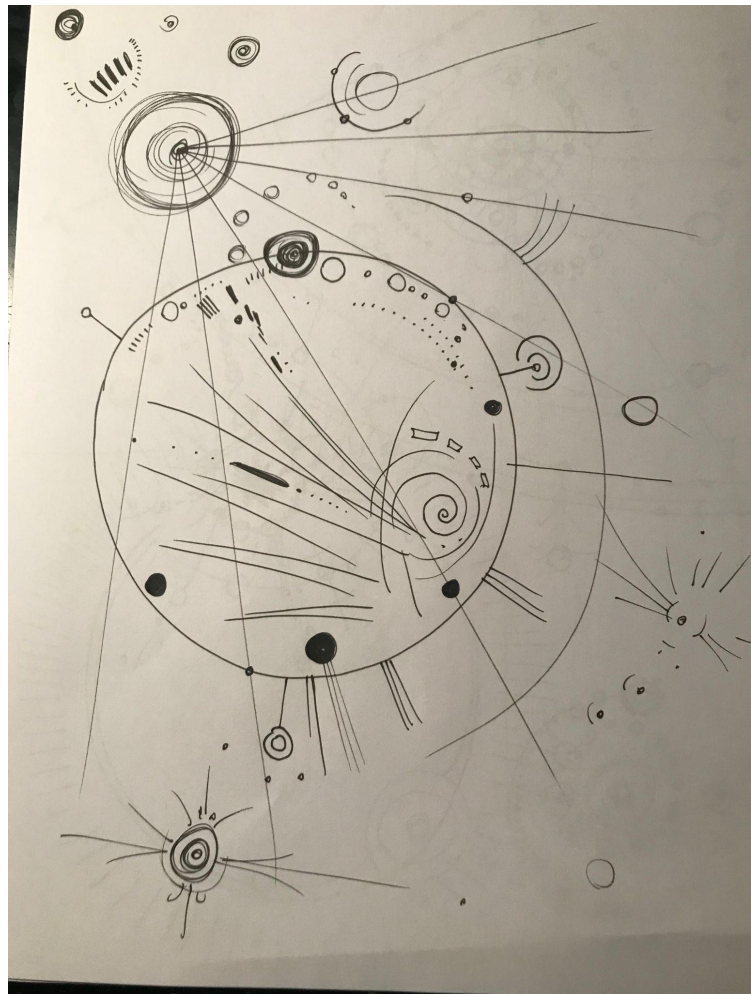
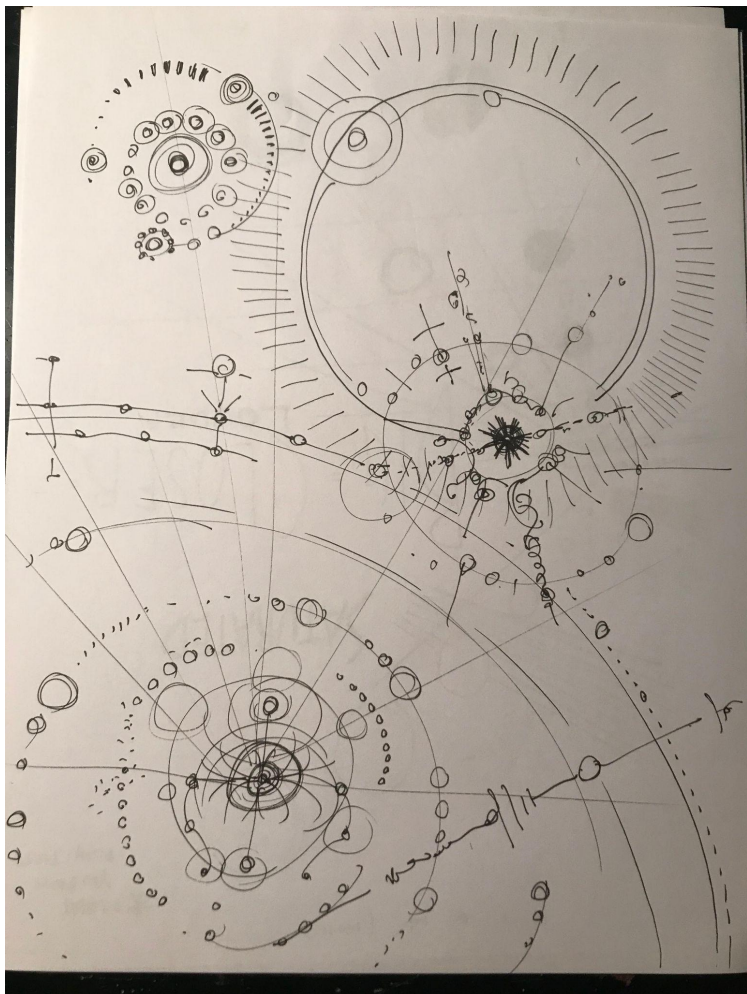
music becomes more of a metaphor for other electromagnetic frequencies in tandem, that have a sensor fusion interplay

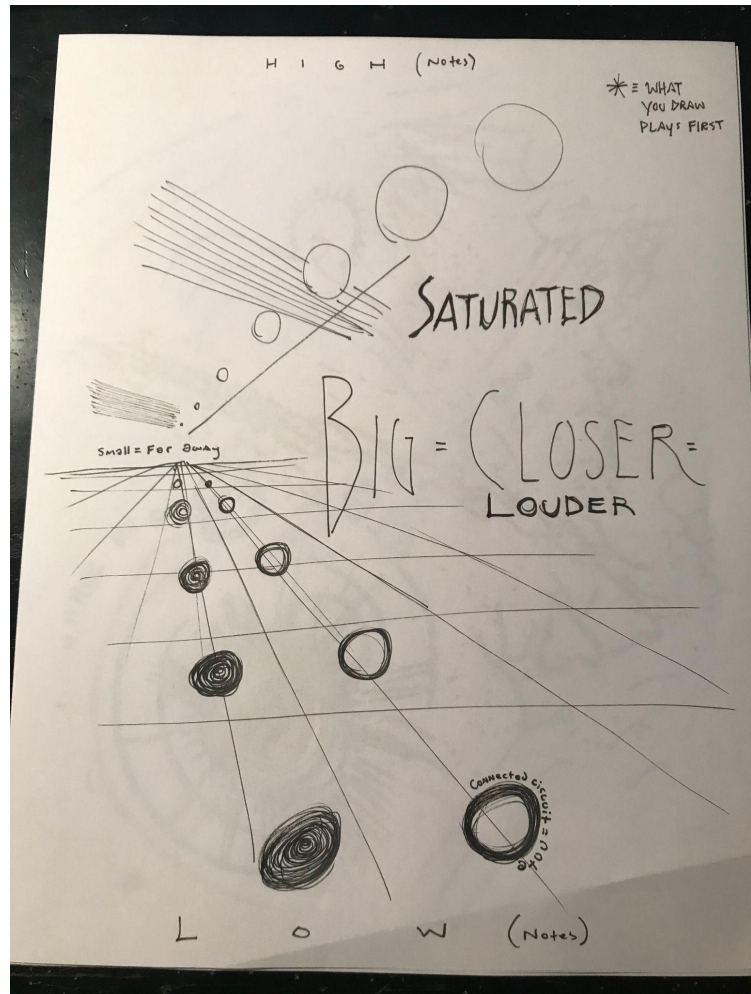


INSPIRATION

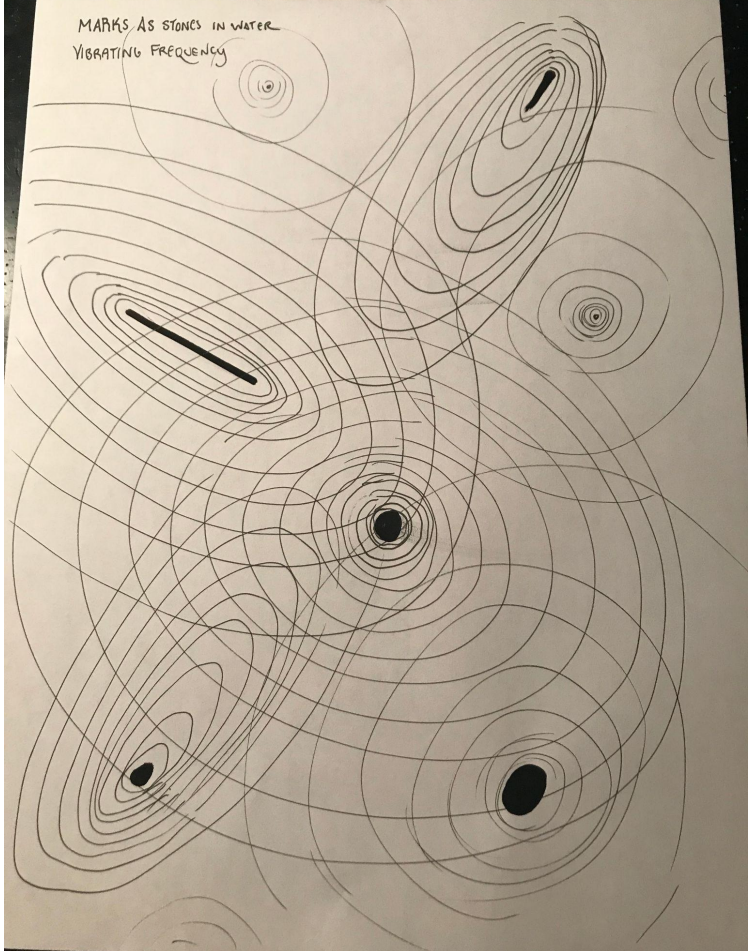
Fisher Space
Pen & Virgin
Galactic








MARKS AS STONES IN WATER
VIBRATING FREQUENCY





EARTHRISE

world building coalition



simulating futures that uplift people and planet

evolutionary strategies for regenerative infrastructure development

aerospace • architecture • transportation • city planning • ecologies • policy



interfaces



structures



media



platforms



AI

A diagram on a black background. At the top is a white circle containing the word 'humanity'. At the bottom is a white circle containing the word 'nature'. A large, white, dotted oval encircles the central text. Two curved dotted arrows form a cycle: one starts from the left side of the oval and points to the 'humanity' circle, and the other starts from the right side of the oval and points to the 'nature' circle.

humanity

let's build a **connected culture** – through **emergent reciprocity**

nature



evolve cultural consciousness



REGENERATING

CULTURE

TRANSFORMING



EVOLUTIONARY STRATEGY

SYSTEM-FORM LAYERING

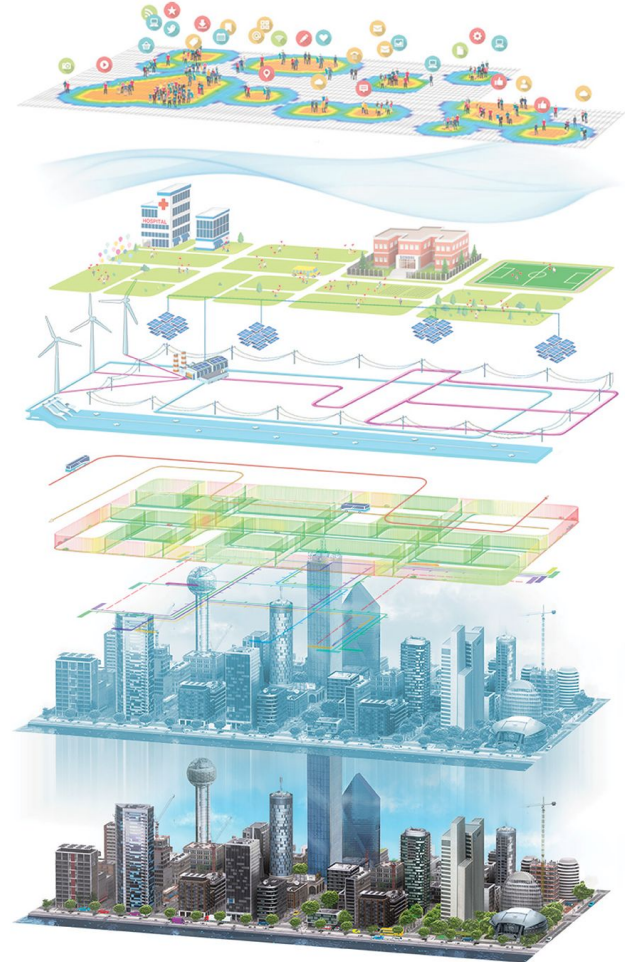
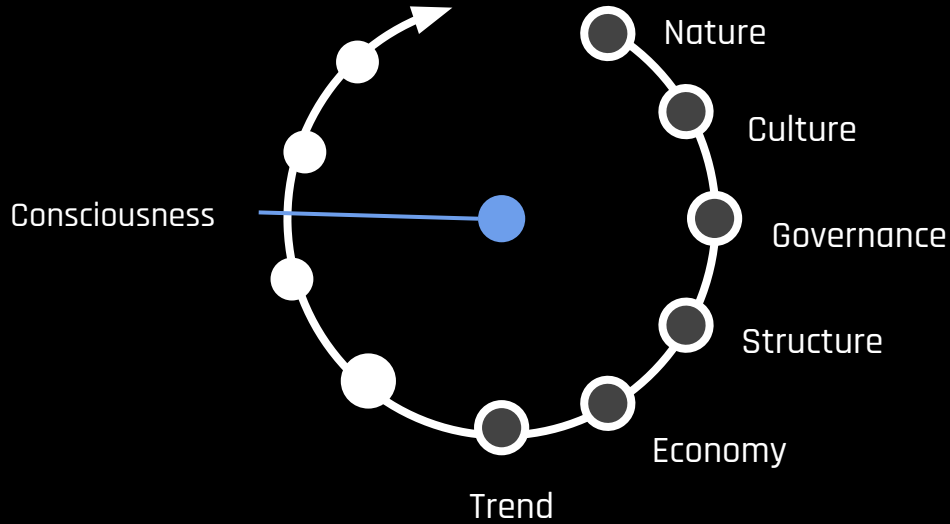


image: magic leap

WORLD BUILDING PROCESS



What if?

The origin



What context?

Story: who, what, why, when, how



What systems?

Philosophy, ecologies, science, politics, culture, language



What forms?

Artifacts, fashion, transportation, structures, geography



What mediums?

Website, app, VR/AR, installation, tech



Execution

Build process

EXPERIENCE FRAMEWORK

cross-platform design & development

simple, efficient, & cost
effective cross-platform scaling

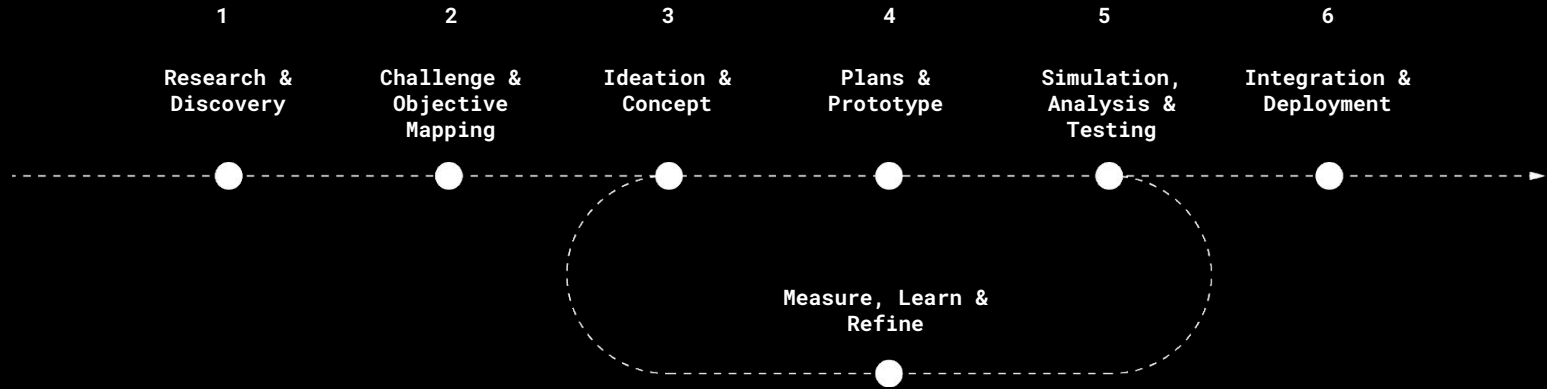


1. **Website**
2. App
3. XR Experience
4. Installation
5. Home IoT



ambient computing: distributed
network engine

IMPLEMENTATION PROCESS



An aerial photograph of terraced rice fields in a tropical setting, surrounded by palm trees. The terraces are arranged in a circular pattern, creating a central pond. The overall scene is dark and moody, with the text overlaid in the center.

THANK YOU!

christian@secretmap.com