

Hertzian space:

The space occupied by electromagnetic radiation,
a space that mostly exists outside normal human
biological senses.

At this point, the world is dependent on
the electromagnetic spectrum.

Wifi, Radio, TV, Phones

the majority of today's communication is flowing
through Hertzian space.

We take the spectrum completely for granted.
We only realize it exists when it is absent,
and then we despise it as we frustratingly
attempt to reconnect and reload our content,
cursing our router or our cell phone.

How can this invisible, intangible space become materialized? How can interaction expand beyond flipping a switch between wifi on and wifi off?

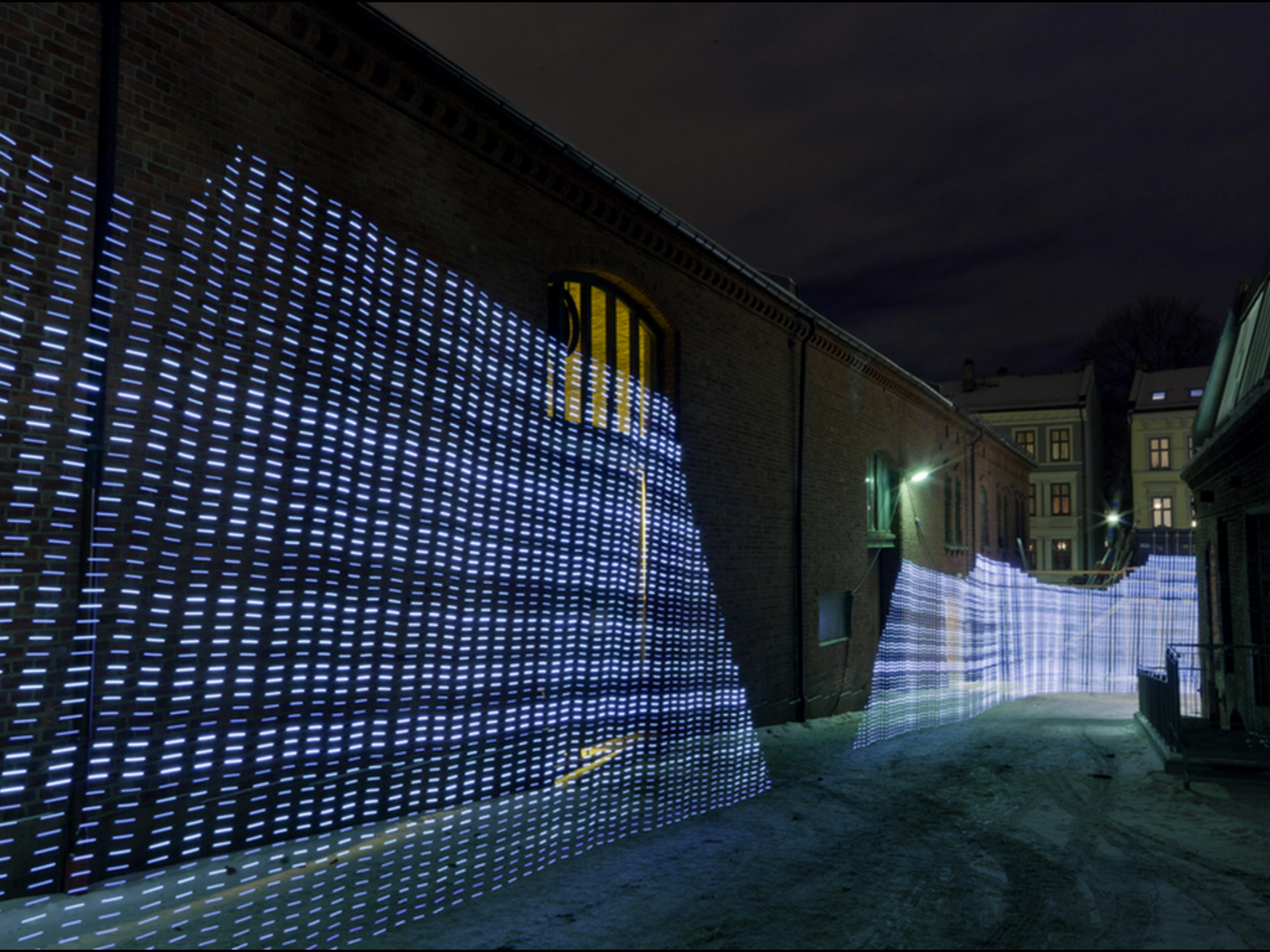
How can this space be made more accessible?
What other uses can this space provide?

As Jamer Hunt puts it: The objects of design freeze time. Design seizes space and creates space.

Some examples projects concerning Hertzian space:







those projects merely acknowledge Hertzian space through visual feedback, but beyond that they don't do anything else.

Need something more relative and usable to today. Something that provides more of a 1 to 1 relationship between human and radio waves.

Perhaps a pseudo auxiliary sense?

But still keeping in mind James Hunt's model of Design.

Radio waves are everywhere.

Current events: Ferguson, police brutality, and protest.

Police broadcast using specific frequencies
and those frequencies are public knowledge.

Those frequencies exist within Hertzian space!

Concept

A wearable device - modular in design - that “listens” to surrounding police radio frequencies and provides tangible feedback to the wearer.

Goal

To create greater balance between police and citizen
through responsive proximity clothing

Research

Manhattan and Brooklyn police broadcast between
470 - 477 FM

Equation for monopole Antenna length that will resonate:
 $300/f = L$ (meters)

Radio waves carry energy! Depending on proximity,
radio waves can power an LED.

Execution

possibly collaborate with previous suit mate James Halls Collins who is the maker behind K2O brand.

One particular design resembles a flak jacket; interesting conversation between enforcement and citizen clothing. Its design could easily support radio augmentation.

Materials

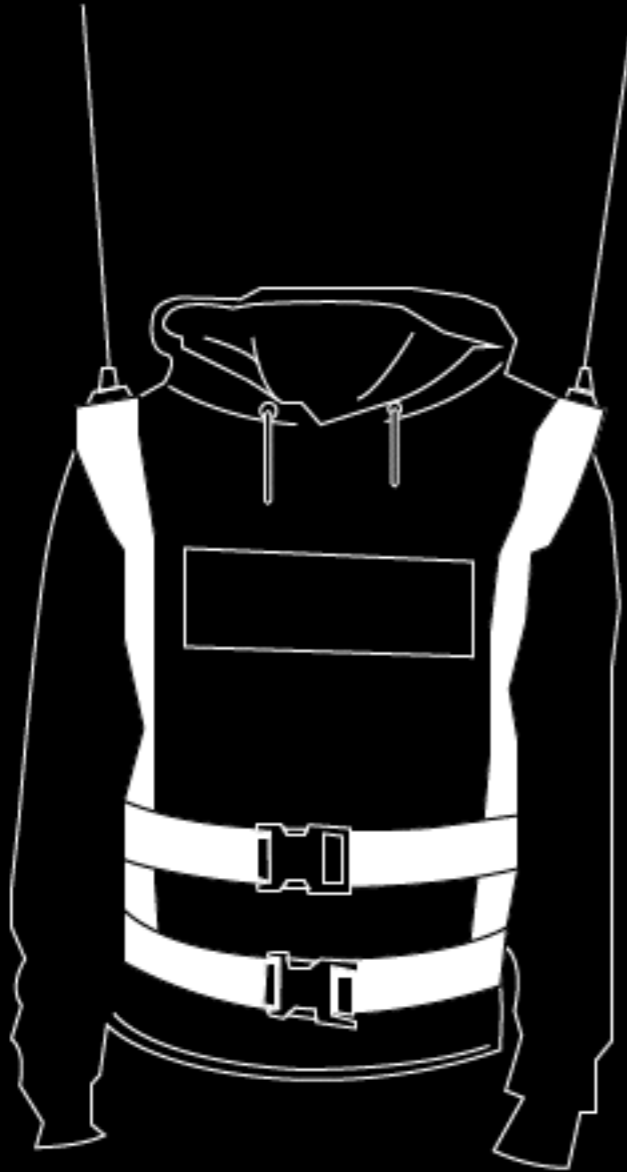
K20 Badman Hoodie

Wire, Diodes, solder

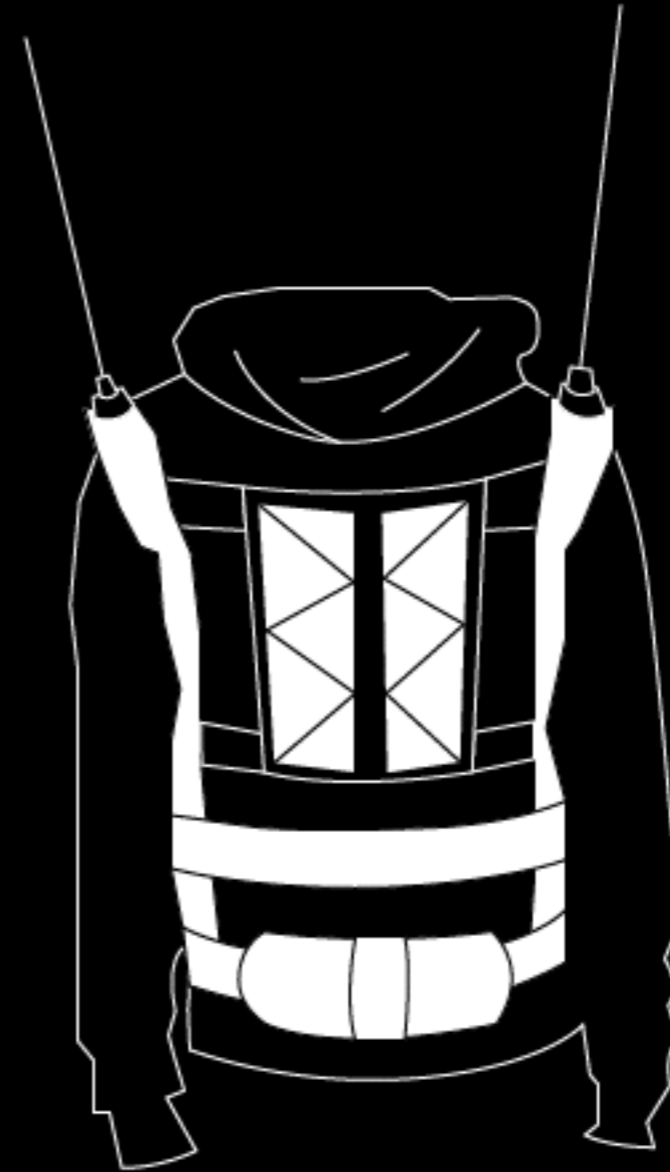
radio tuner, antenna (DIY or bought?)

LEDs, Servos, Fiberoptic, Conductive thread,
bone conductive material or low frequency vibrators
Powered by flexible solar cell? Batteries?

Based on K20 "Badman" Hoodie



Front



Back