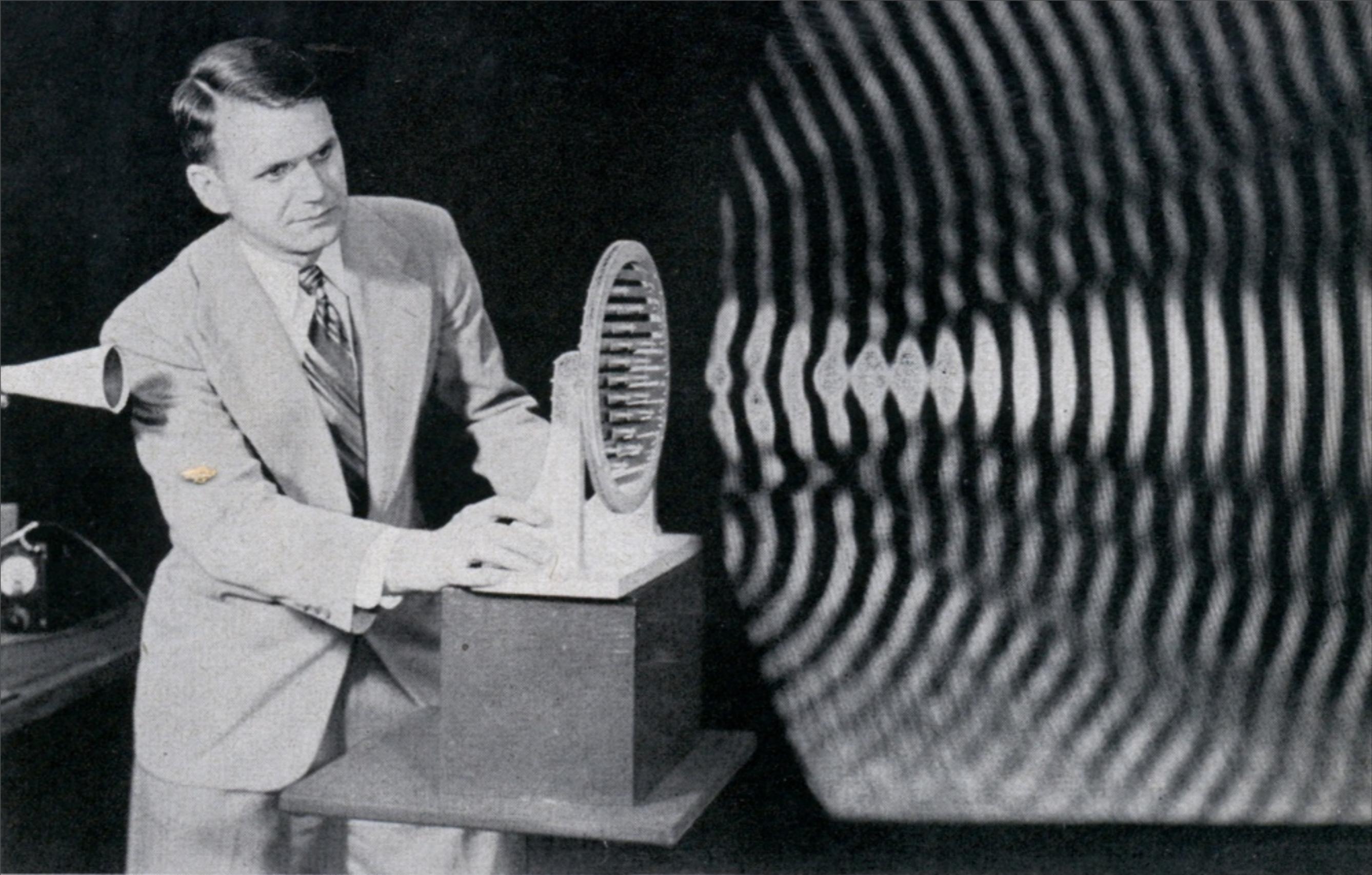


Sound and The City: Sound and Urban Intervention

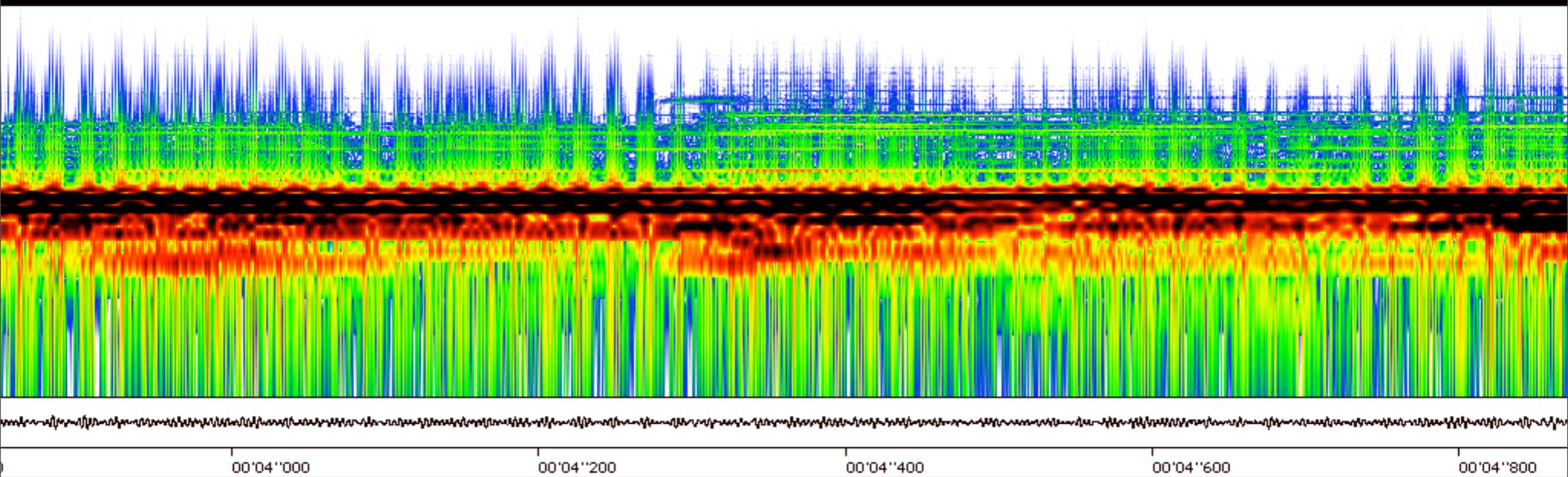
@ITP: Spring 2010

Presentation 2



Neon Lamp Traces Sound Wave's Picture

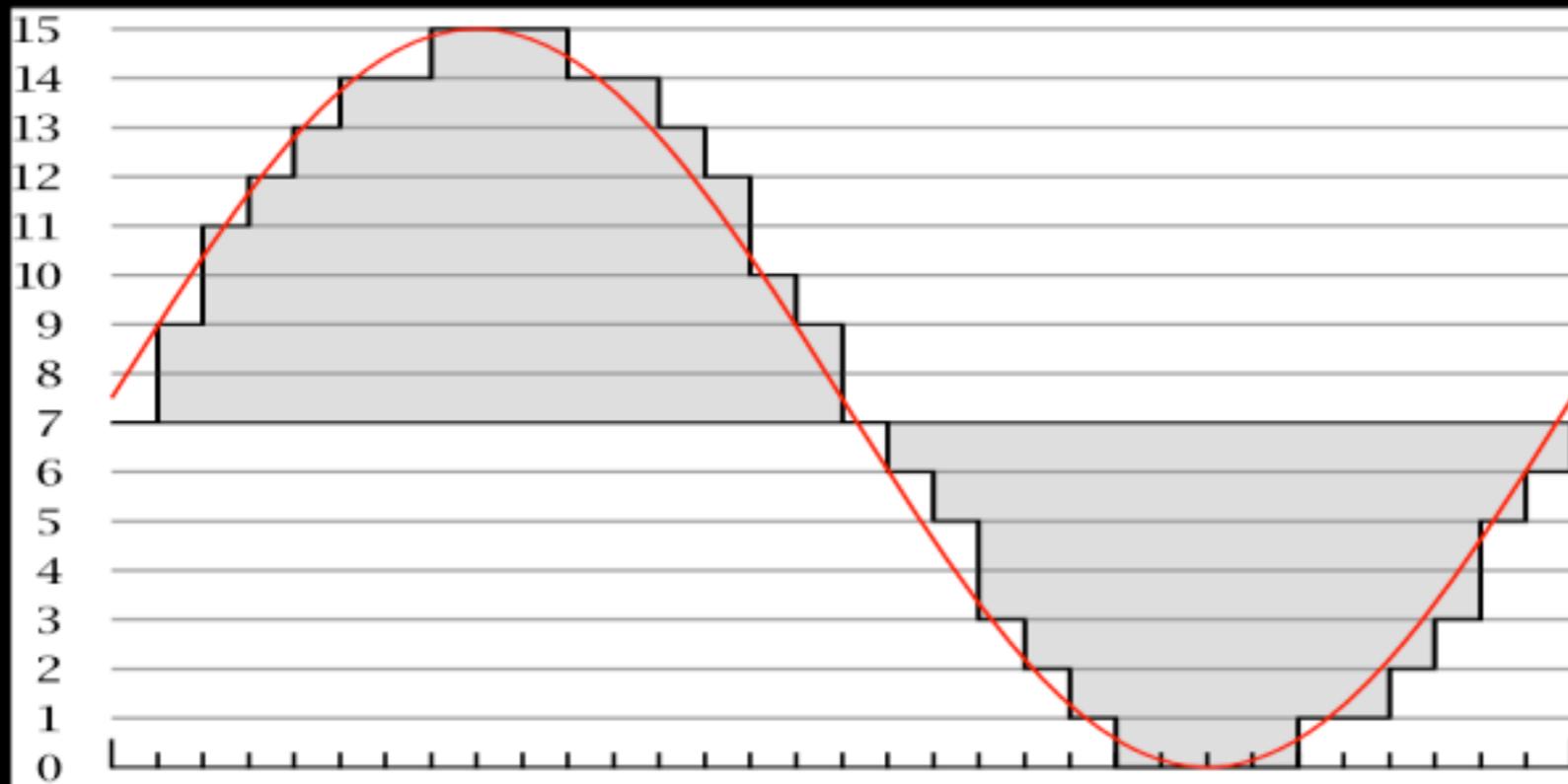
THAT'S a sound wave you see in the pic-



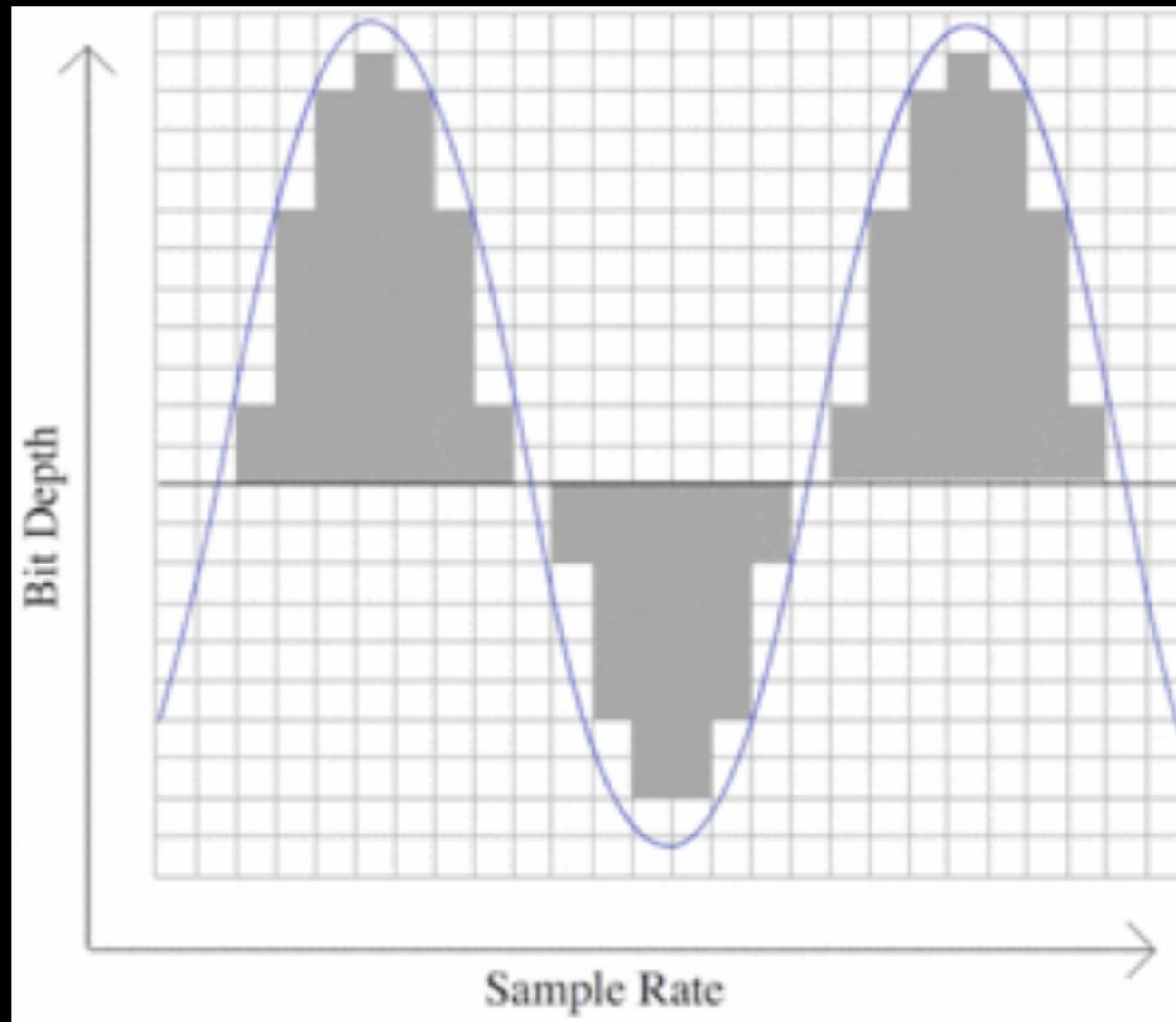
A/D

Bit depth:

To make audio playable on a Compact Disc, the computer must make 44,100 measurements (called **samples**) per second, and record each one as a **16-bit number**. One **bit** is a piece of information which is either 0 or 1, and if there are 16 bits together to make one sample then there are 2^{16} (or $2 \times 2 = 65,536$) possible values that each sample could have.



Thus, we can say that CD-quality audio has a **sampling rate** of 44,100 Hz and a **bit-depth** or **word length** of 16 bits. In contrast, professional music recordings are usually made at 24-bit first to preserve the highest amount of detail before being mixed down to 16-bit for CD, and older computer games were famous for having a distinctively rough 8-bit sound. By increasing the sampling rate, we are able to record higher sonic frequencies, and by increasing the bit-depth or word length we are able to use a greater **dynamic range** (the difference between the quietest and the loudest sounds it is possible to record and play).



WAVES



<http://id.mind.net/~zona/mstm/physics/waves/waves.html>

Space + Sound Waves



Roman poet Ovid as part of his monumental work *Metamorphoses*. It combines two ancient legends: Echo, the mountain-nymph, and Narcissus, a hunter who falls in love with his own reflection. This was the first time that the two legends had been told together.

This poem is in Book III of the *Metamorphoses*, and tells the story of a "talkative nymph" who "yet a chatterbox, had no other use of speech than she has now, that she could repeat only the last words out of many." She falls in love with Narcissus, whom she catches sight of when he is "chasing frightened deer into his nets." Eventually, after "burning with a closer flame," Echo's presence is revealed to Narcissus, who, after a comic yet tragic scene, rejects her love. Echo wastes away, until she "remains a voice" and "is heard by all." This is the explanation of the aural effect which was named after her.

Then, Narcissus "tired from both his enthusiasm for hunting and from the heat" rests by a spring, and whilst drinking, "a new thirst grows inside him" and he is "captivated by the image of the beauty he has seen" and falls deeply in love with "all the things for which he himself is admired." He then wastes away with love for himself, echoing the manner in which Echo did earlier on. A while later his body is gone, and in its place is a narcissus flower that came upon his actions.

Acoustics + Fidelity

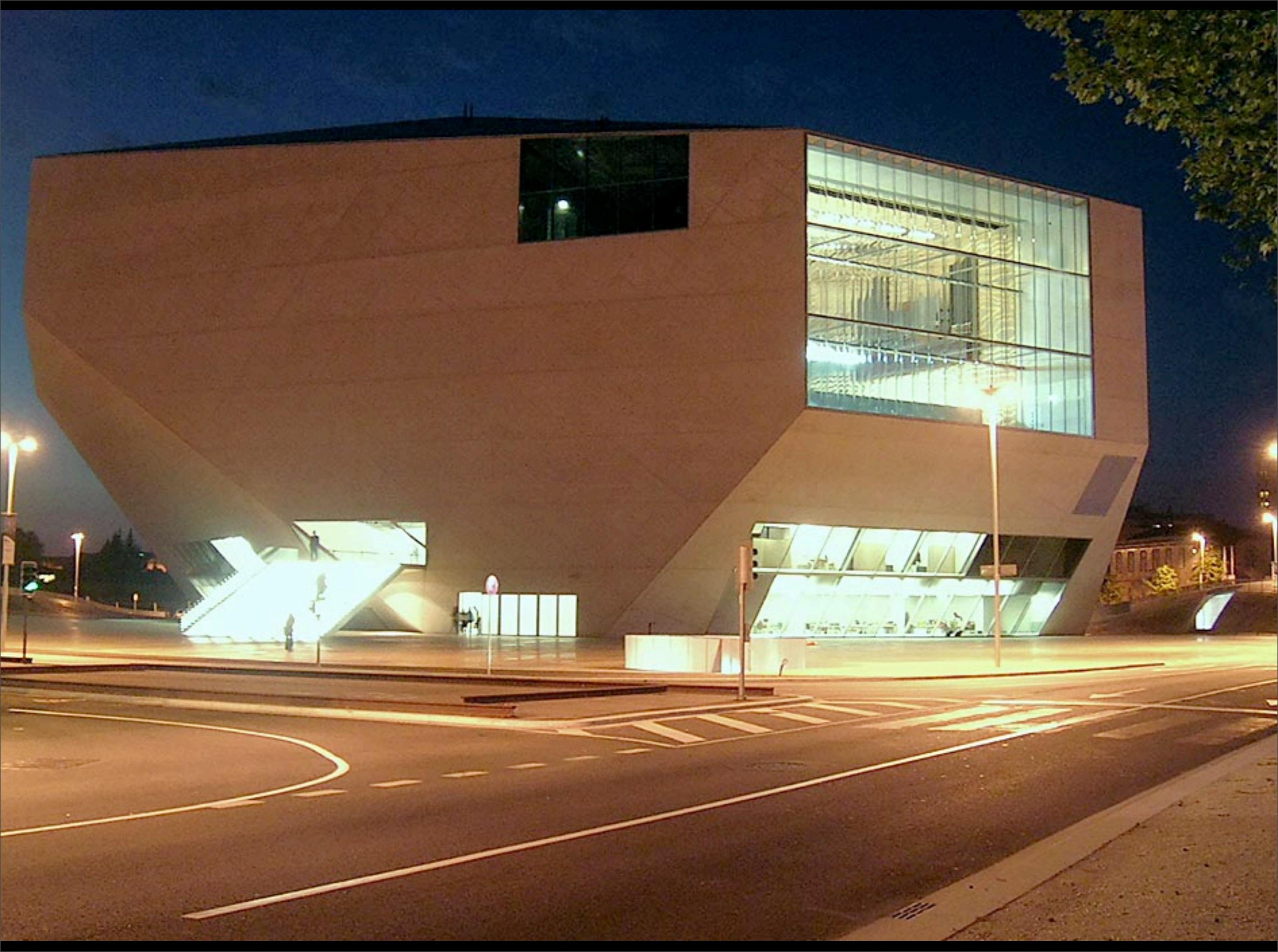


The definition of space by acoustic means is much more ancient than the establishment of property lines and fences; and as private property becomes increasingly threatened in the modern world, it may be that principles regulating the complex network of overlapping and interpenetrating acoustic spaces as observed by birds and animals will again have greater significance for the human community
-R. Murray Schafer *The Soundscape* p. 33











Program

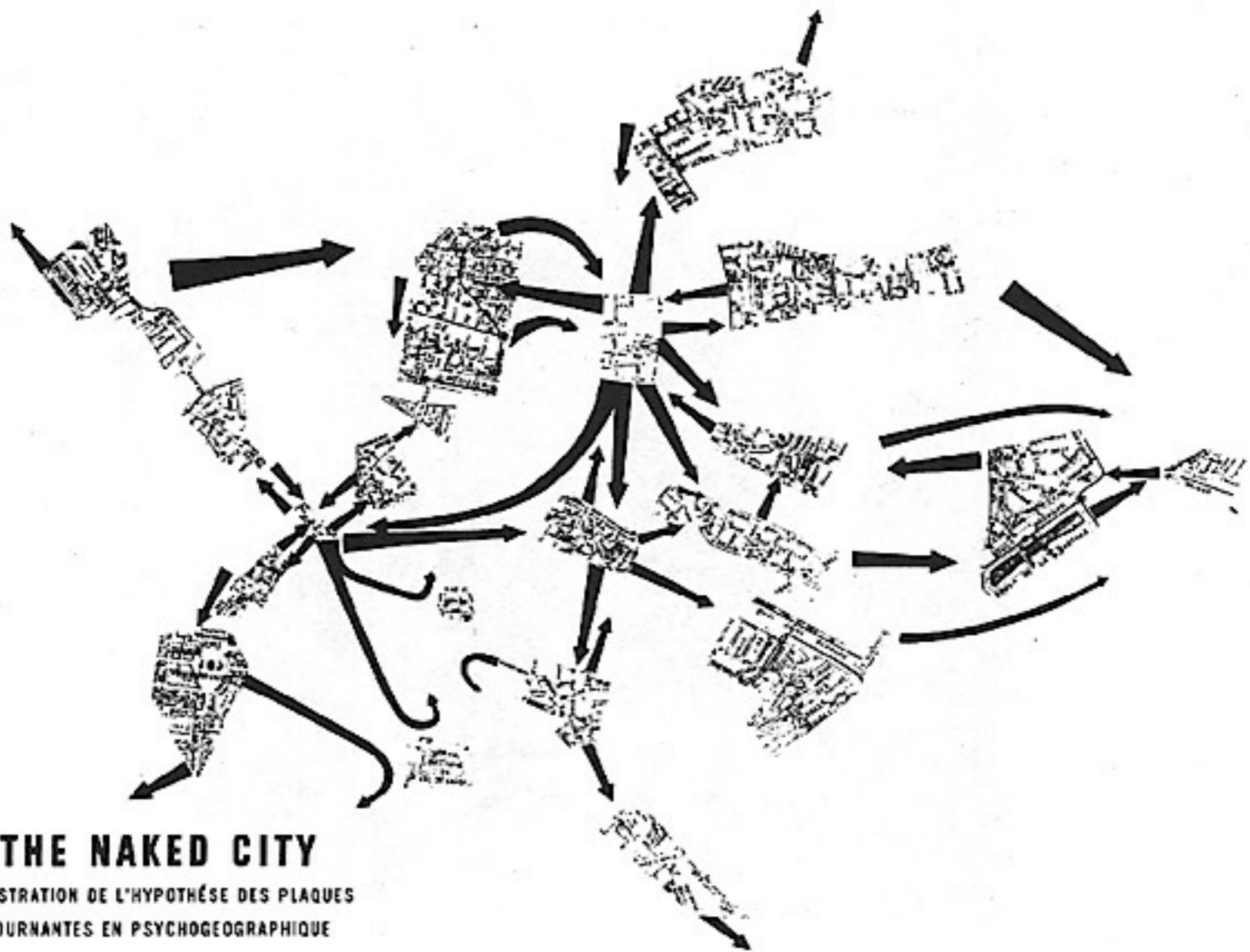
Setting forth the conditions and objectives for a building project including its general purpose and detailed requirements, such as a complete listing of the rooms required, their sizes, special facilities, etc

- An ordered list of events to take place or procedures to be followed; a schedule
- A system of services, opportunities, or projects, usually designed to meet a social need



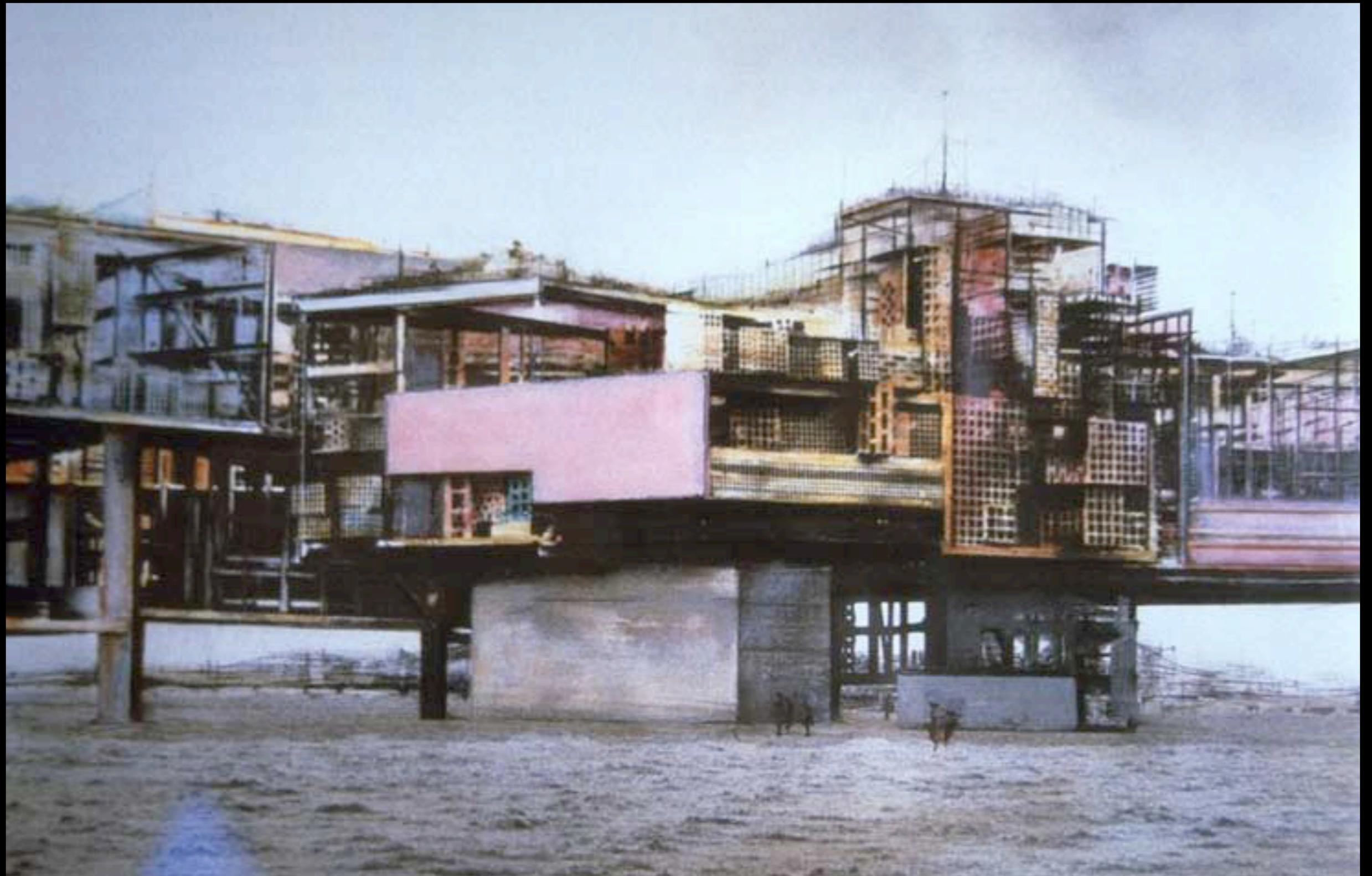


Site + Sound + Mobile: Soundwalk



THE NAKED CITY

ILLUSTRATION DE L'HYPOTHÈSE DES PLAQUES
TOURNANTES EN PSYCHOGEOGRAPHIQUE



Janet Cardiff Her Long Black Hair





SOUNDWALK is pleased to announce the release of its latest iPhone app: **Bronx Hip Hop** with hip-hop pioneer **Jazzy Jay**. Walk to the beat, listen to the rhythm, feel the heat of music vibrating through the soles of your feet. What better guide, what better man, to introduce you to the roots of the rap movement?

INSTALL YOUR BRONX HIP HOP IPHONE APPLICATION

OTHER SOUNDWALKS AVAILABLE : TRY OUR PARIS IPHONE APPS



<http://www.soundwalk.com/>

Create

Program: create a soundwalk for a site in
New York City.

create a way to share it for free