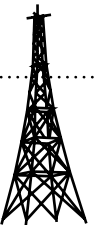


the  
Landscape  
of Radio

“can we design systems that let us know when we are in a particular kind of field, what we might do in those fields and what information we give up to them?”





observations of  
the everyday

rituals

habits

auto pilot actions

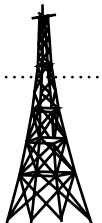
familiar

**Cliches**

**Awareness/ safety**

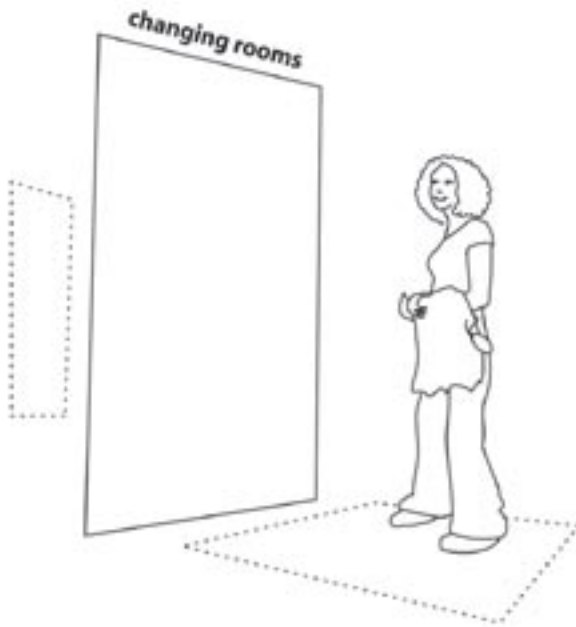
**Social**

**Small Pleasures**

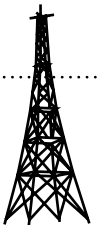
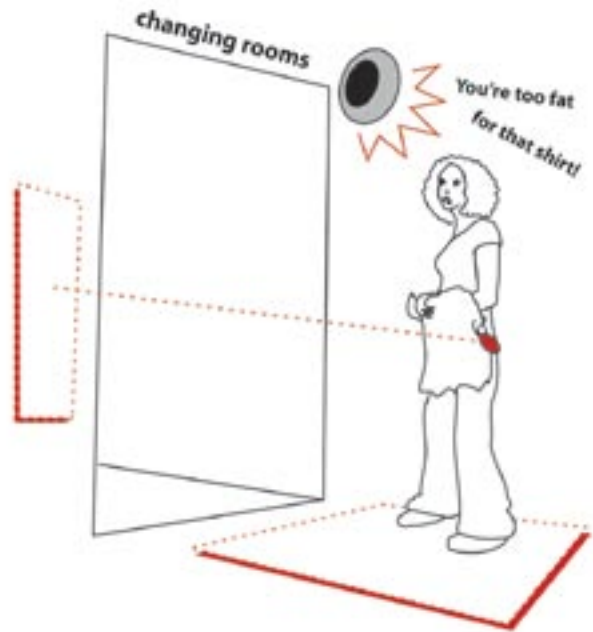


# Designing Interactive Experiences

1



2



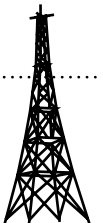
## Initial Concepts

**summing up my initial thoughts, three categories;**

1 measure and display concepts

2 negative associations concepts

3 experience, explore, curiosity, getting to know concepts



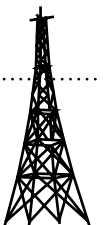
## 1 - measure & display



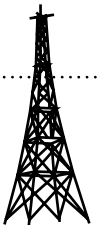
*...hmm, isn't it? Yes, it is! ..*



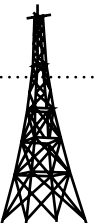
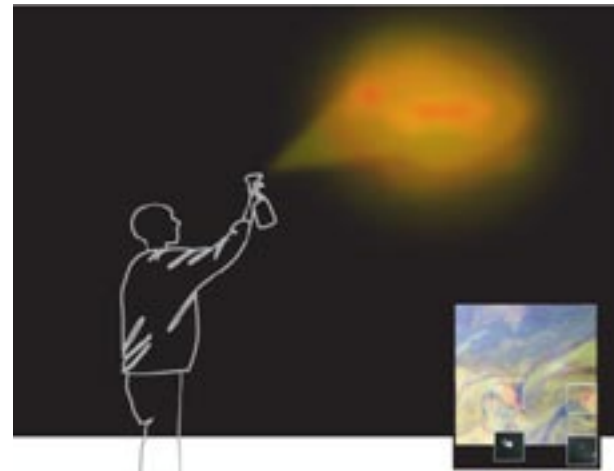
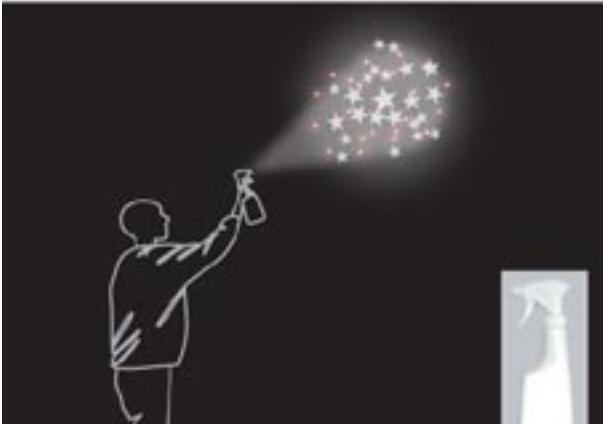
*..yes dear, it means an alarm have gon  
e off and they're evaquating the building..*



# 1 - measure & display



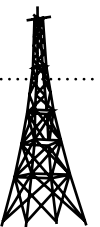
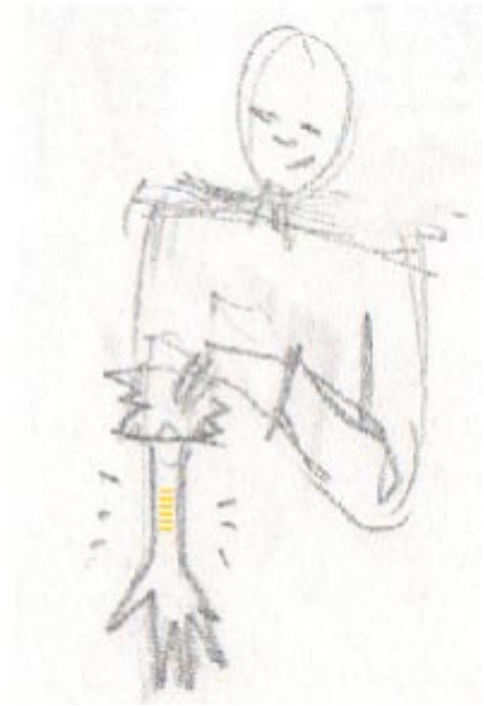
# 1 - measure & display



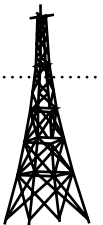
# 1 - measure & display



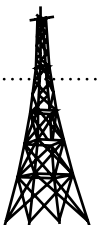
# 1 - measure & display



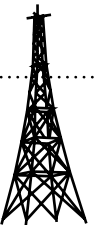
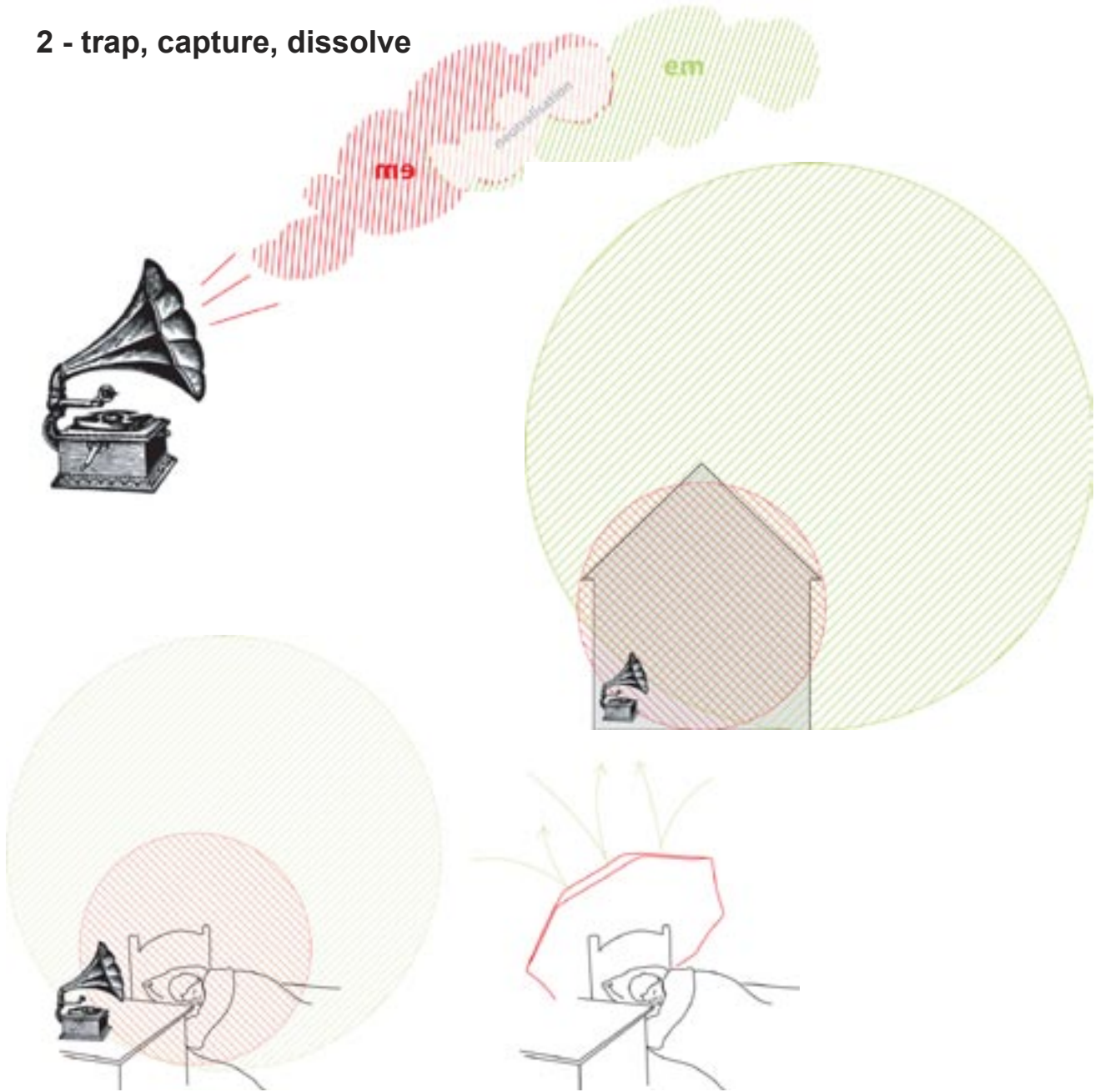
## 2 - trap, capture, dissolve



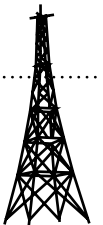
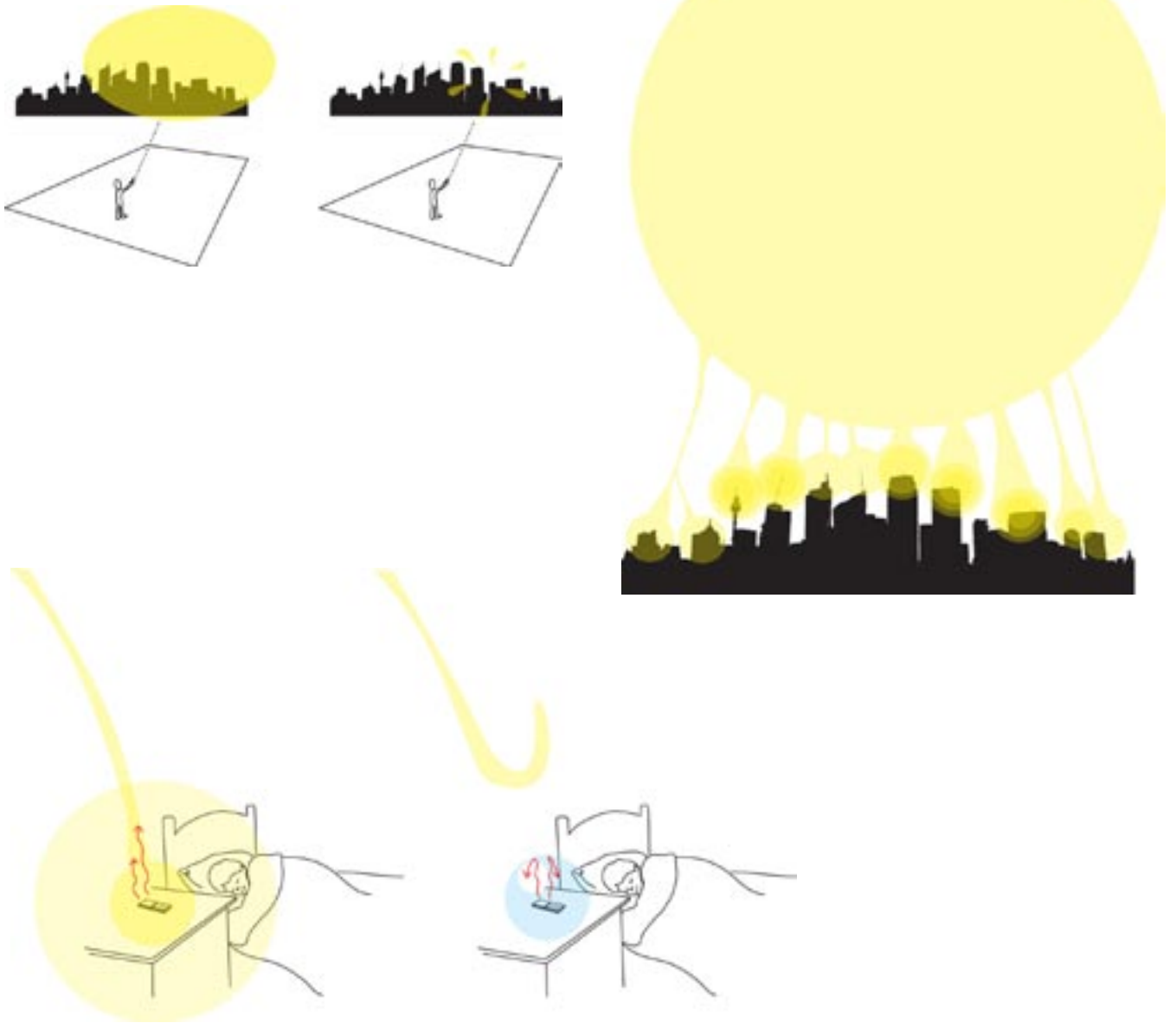
## 2 - trap, capture, dissolve



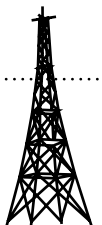
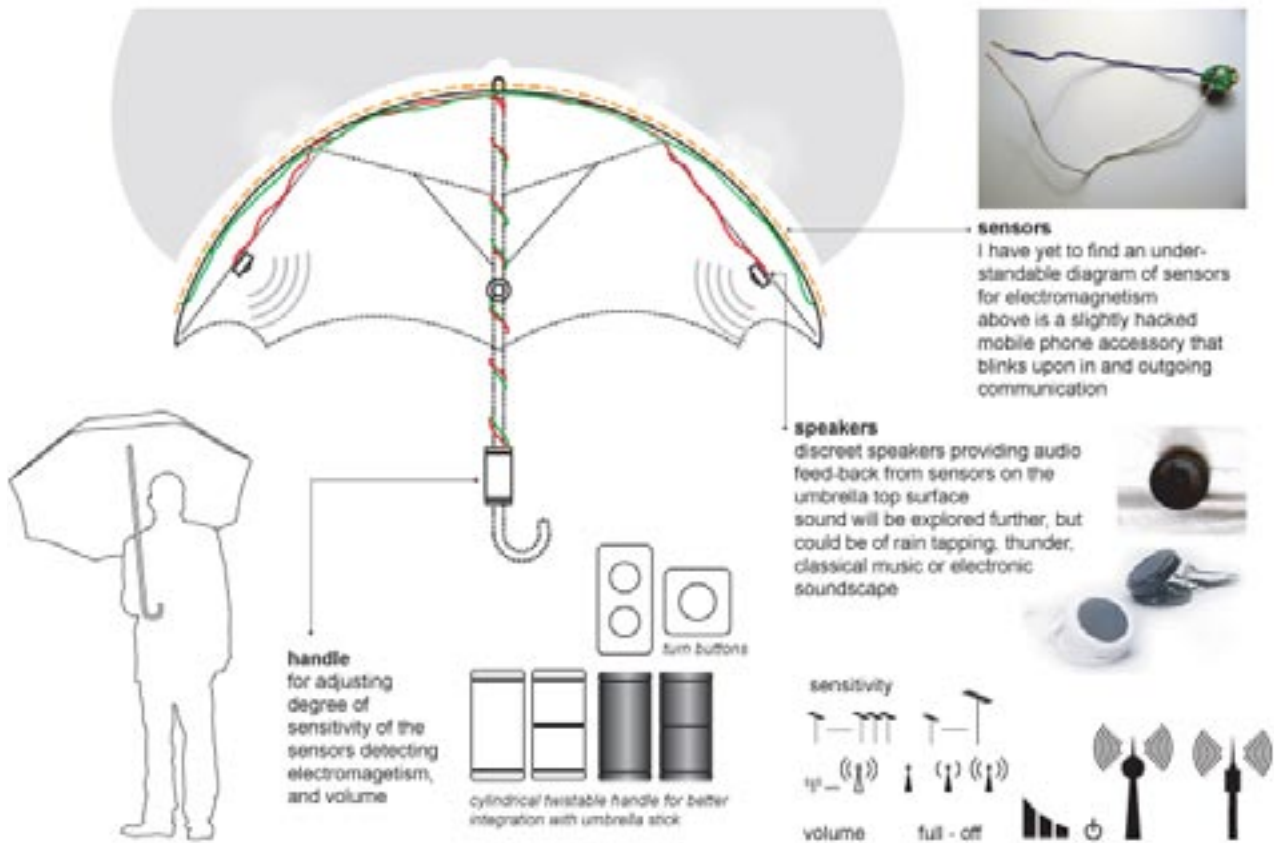
## 2 - trap, capture, dissolve



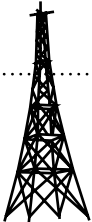
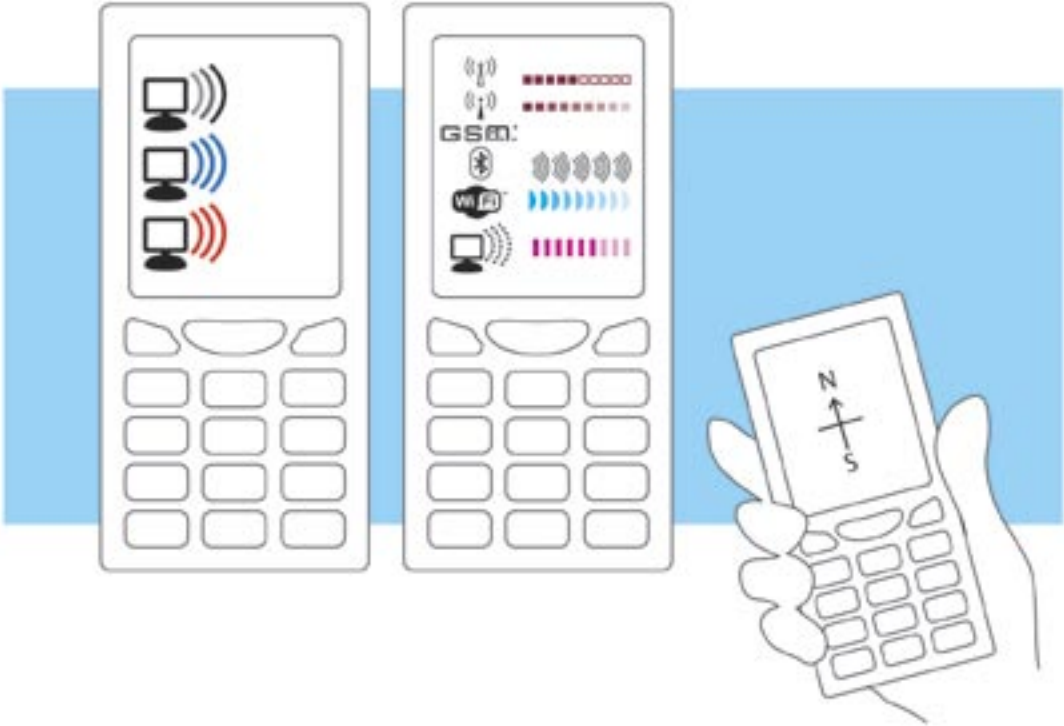
## 2 - trap, capture, dissolve



2 - trap, capture, dissolve  
 3 - explore and experience



### 3 - explore and experience

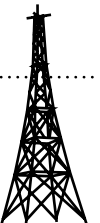


## Concept Development

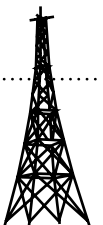
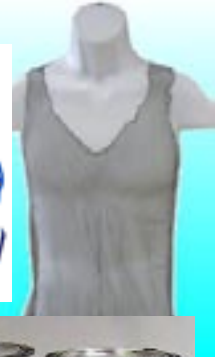
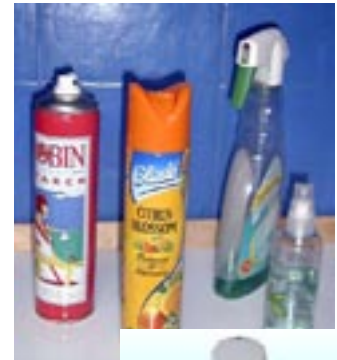
**spray - household electromagnetic detergent**

**umbrella - for electromagnetic walks in the park**

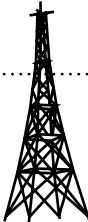
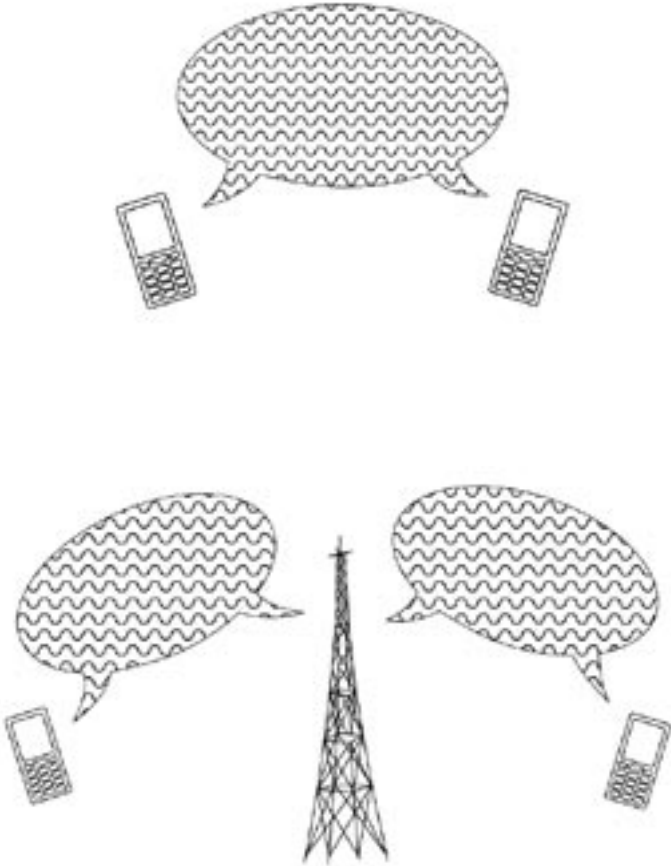
**mobile - navigation through radio landscapes**



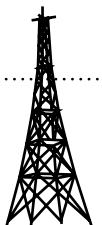
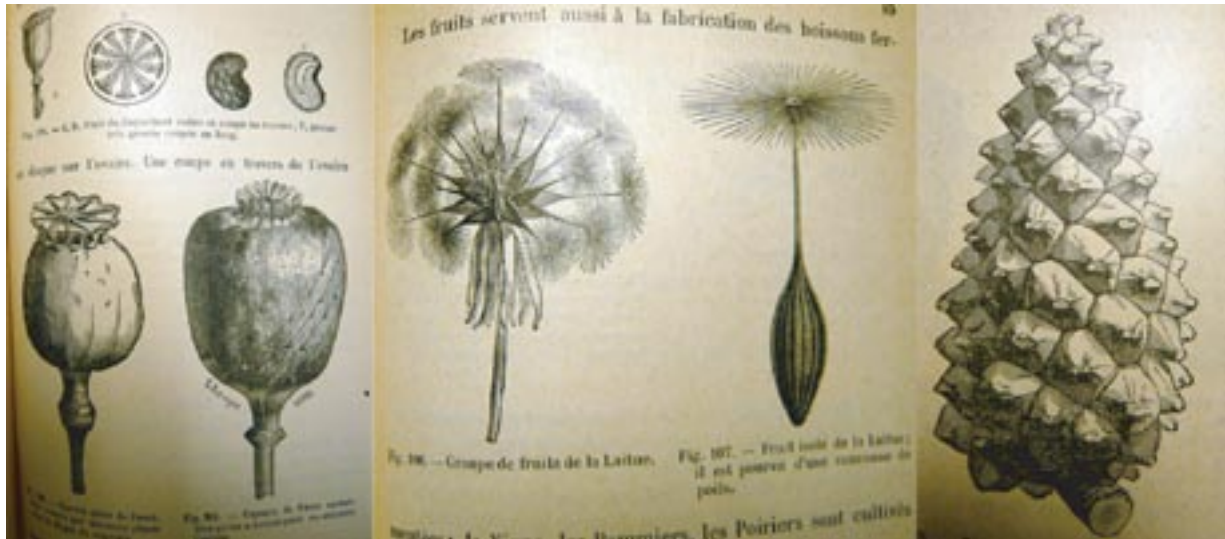
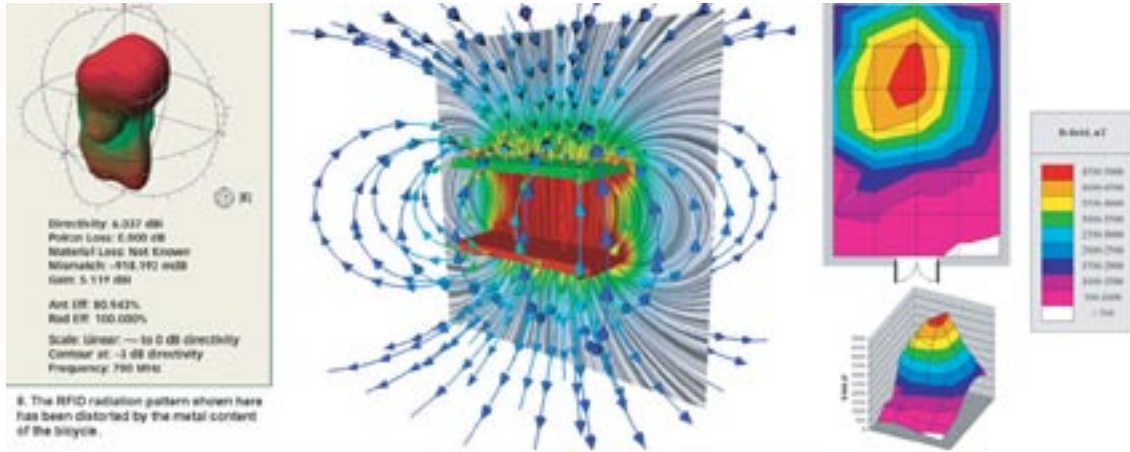
# Concept Development - slight change of direction

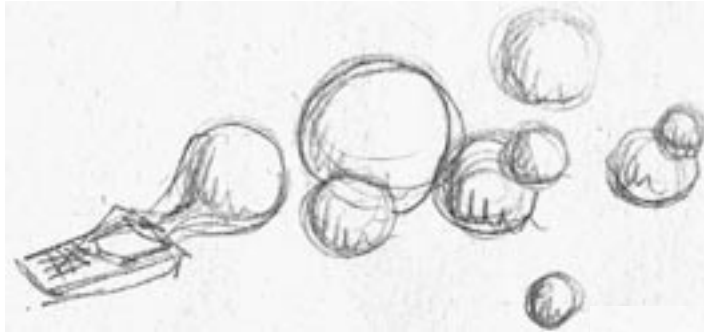


**Concept Development - getting to know the bubbles**

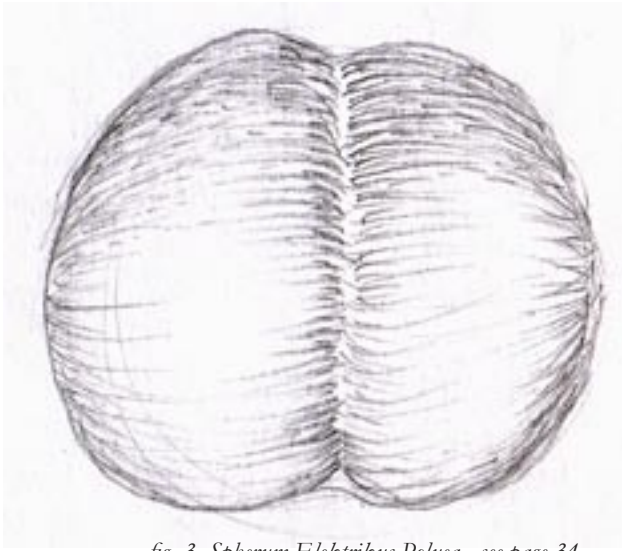


# Concept Development - getting to know the bubbles





*fig. 1 . Spherum Elektrikus Multanum , see page 35v*



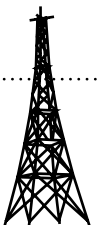
*fig. 3. Spherum Elektrikus Poluea , see page 34*



*fig. 2. Raptus fumea , see vpage 49*



*fig. 4. Neurotus fulumne , see page 38*



## *Bluetooth*

*Description: Short-range, ad hoc networks (piconets) that are established dynamically and automatically as Bluetooth enabled devices enter and leave radio proximity.*

*Fast transmission speed, low power consumption, files exchanged can't require high bandwidth.*

*Habitat: To be found around people, mainly in big cities. Thrives anywhere where two or more microchip transceivers are present and active. Ceases to exist when transceiver is switched off, but unless this is the case, it will grasp the opportunity to wander off on its own if not attended to.*

*Used by: exchange information between mobile phones, laptops, PCs, printers, digital cameras, and video game consoles*

*Communication: short range communication based on low-cost transceiver microchips in each device. Line of sight not required, can even be in other rooms, as long as the received transmission is powerful enough.*

*Range: Class 1                   ~100 meters*

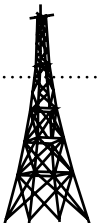
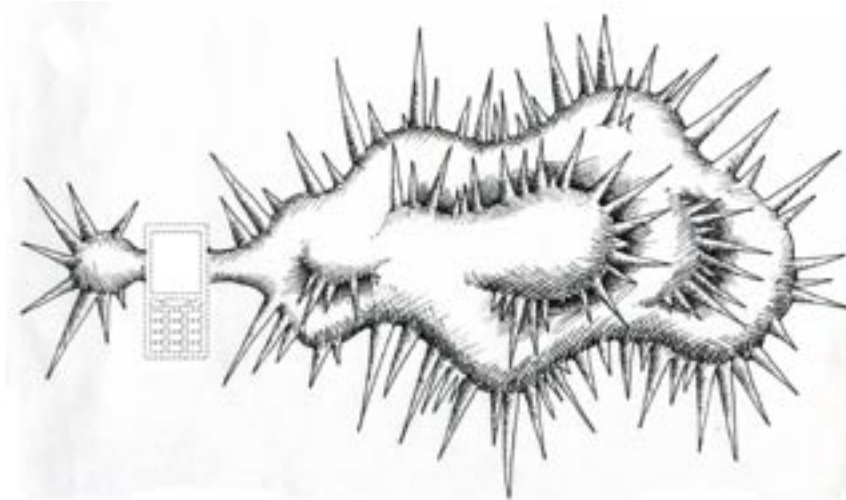
*Class 2                         ~10 meters*

*Class 3                         ~1 meter*

*Invented: 1994 by Sven Mattisson and Jaap Haartsen, Ericsson Mobile, Sweden.*

*Capacity: up to 2.1 Mbit/s and on constant increased*

*Additional notes: Known to occasionally show aggressive tendencies – see Bluesnarfing*



## *DMB - Digital Multimedia Broadcasting*

*Description: A digital radio transmission system for sending multimedia (radio, TV, and datacasting) to mobile devices (such as mobile phones).*

*Habitat: High up and covering large area of land or sea, mainly Asia; South Korea*

*Used by: DMB has several applicable devices such as mobile phone, portable TV, PDA and telematics devices for automobiles.*

*Communication: can operate via satellite (S-DMB) or terrestrial (T-DMB) transmission, in the latter case with the aid of radio towers, arrives at phone through phone line?!*

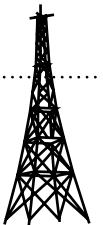
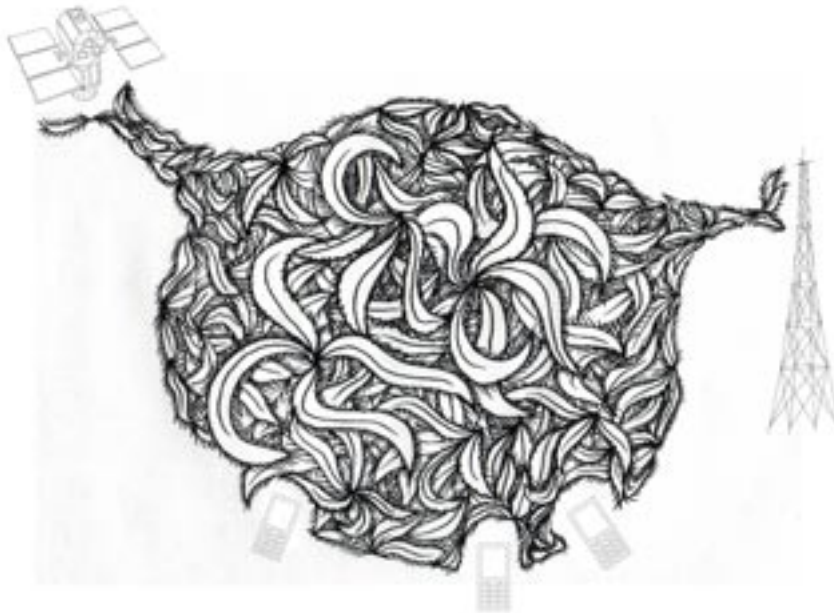
*Range:*

*Invented: The world's first official DMB broadcast started in South Korea in 2005, although trials were available much earlier.*

*Capacity: huge amounts, massive bulks of information adjusted to small screens*

*Additional notes: Steady, heavy weigh in both senses of the word, well respected, nearly solid in consistency, saturated with information (to the extent saturation is possible in an infinite space)*

*It will leave you alone as long as you do not call for it. Omnipresent, invisible, organic mass of weed/ leaves surrounding you. Once you "enter it", you risk getting lost in the jungle of information."*



## *GSM - Global System for Mobile communication*

*Description: second generation (2G) mobile phone system. Release '97 version of the standard, by means of GPRS, Higher speed data transmission has also been introduced with EDGE in the Release '99 version of the standard.*

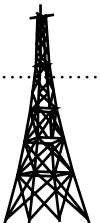
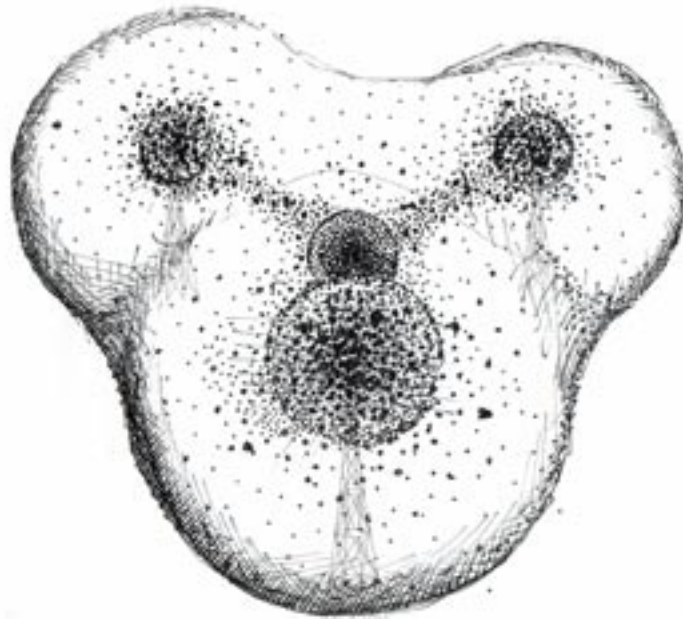
*Habitat: widely spread, has fairly recently taken to more remote areas such as mountain areas*

*Used by: Currently the most popular standard for mobile phones in the world.*

*Communication: GSM is a cellular network, which means that mobile phones connect to it by searching for cells in the immediate vicinity. There are four different cell sizes in a GSM network - macro, micro, pico and umbrella cells.*

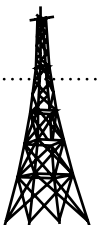
*Range: The coverage area of each cell varies according to the implementation environment. Macro cells can be regarded as cells where the base station antenna is installed on a mast or a building above average roof top level. Micro cells are cells whose antenna height is under average roof top level; they are typically used in urban areas. Picocells are small cells whose diameter is a few dozen meters; they are mainly used indoors. Umbrella cells are used to cover shadowed regions of smaller cells and fill in gaps in coverage between those cells. depending on antenna height, antenna gain and propagation conditions from a couple of hundred meters to several tens of kilometers.*

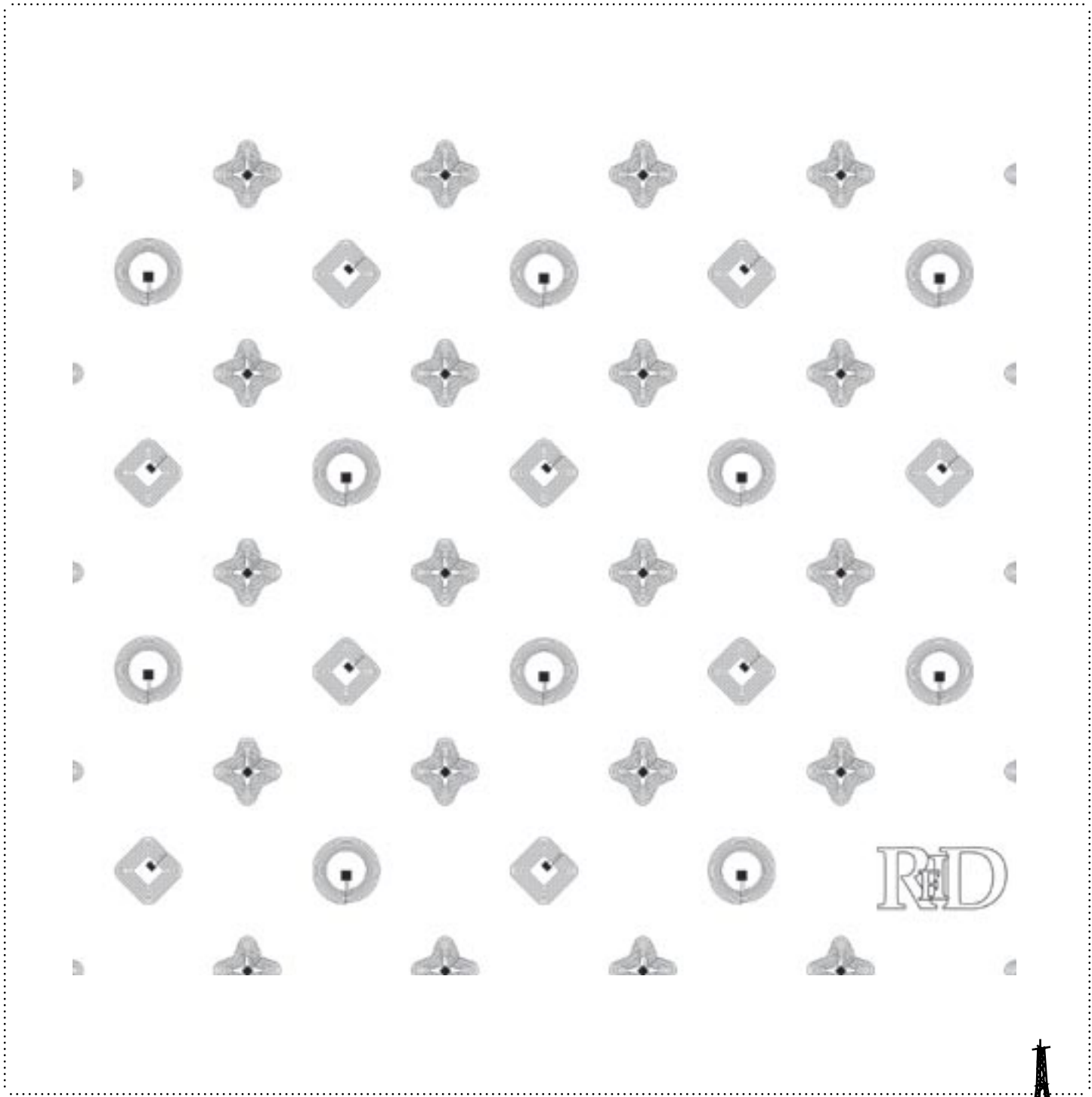
*Invented: European Conference of Postal and Telecommunications Administrations (CEPT) created the Groupe Spécial Mobile (GSM) in 1982. The first GSM network was launched in 1991 by Radiolinja in Finland.*



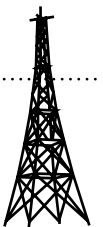
the Flora of Bubbles

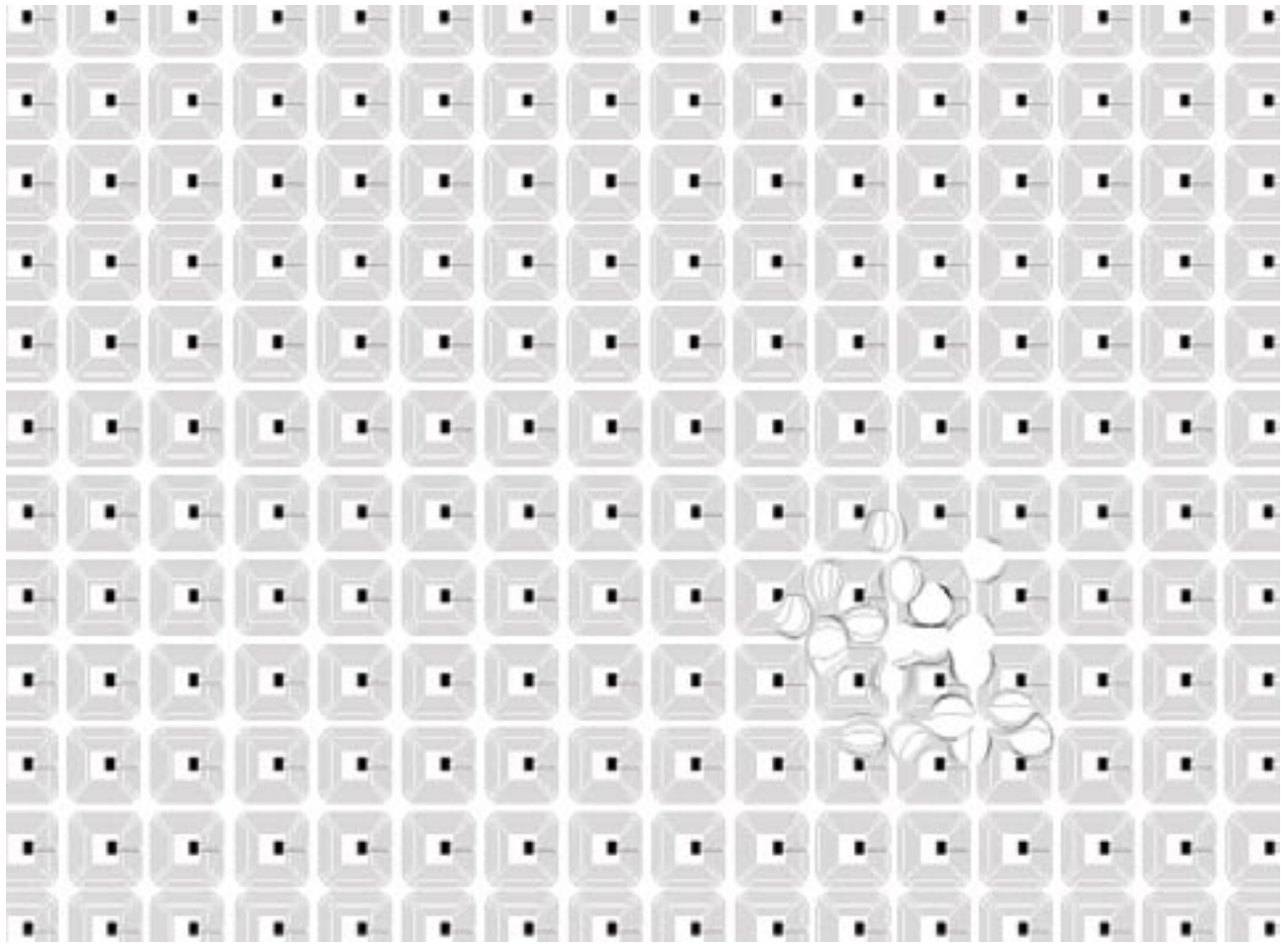
- to be published by the beginning of June 2007



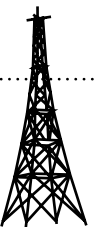


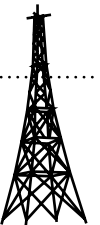
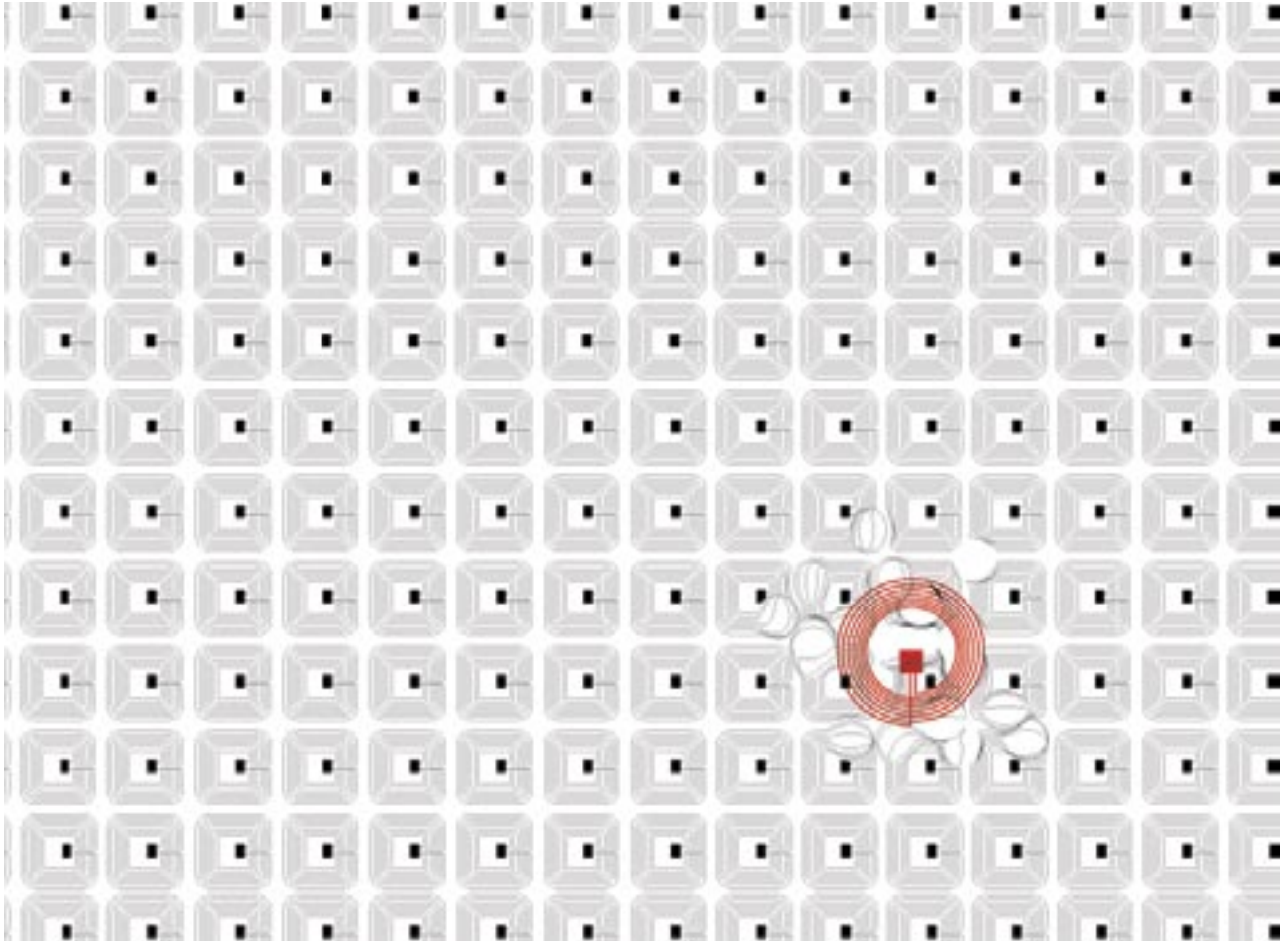
Tangible Interactions - the Landscape of Radio - Ingeborg Marie Dehs Thomas

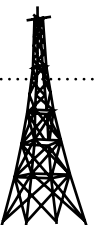


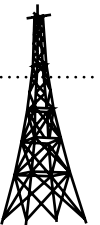


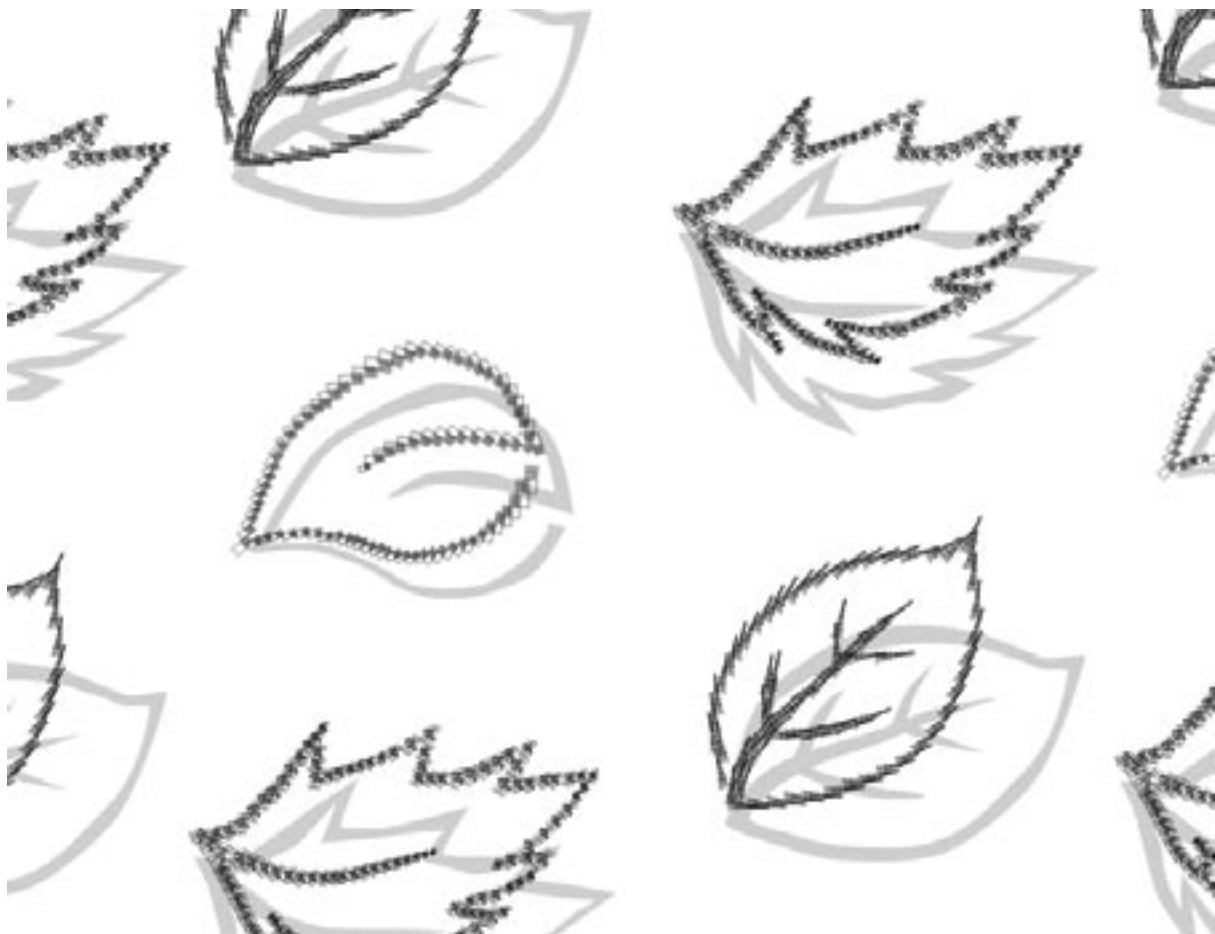
Tangible Interactions - the Landscape of Radio - Ingeborg Marie Dehs Thomas

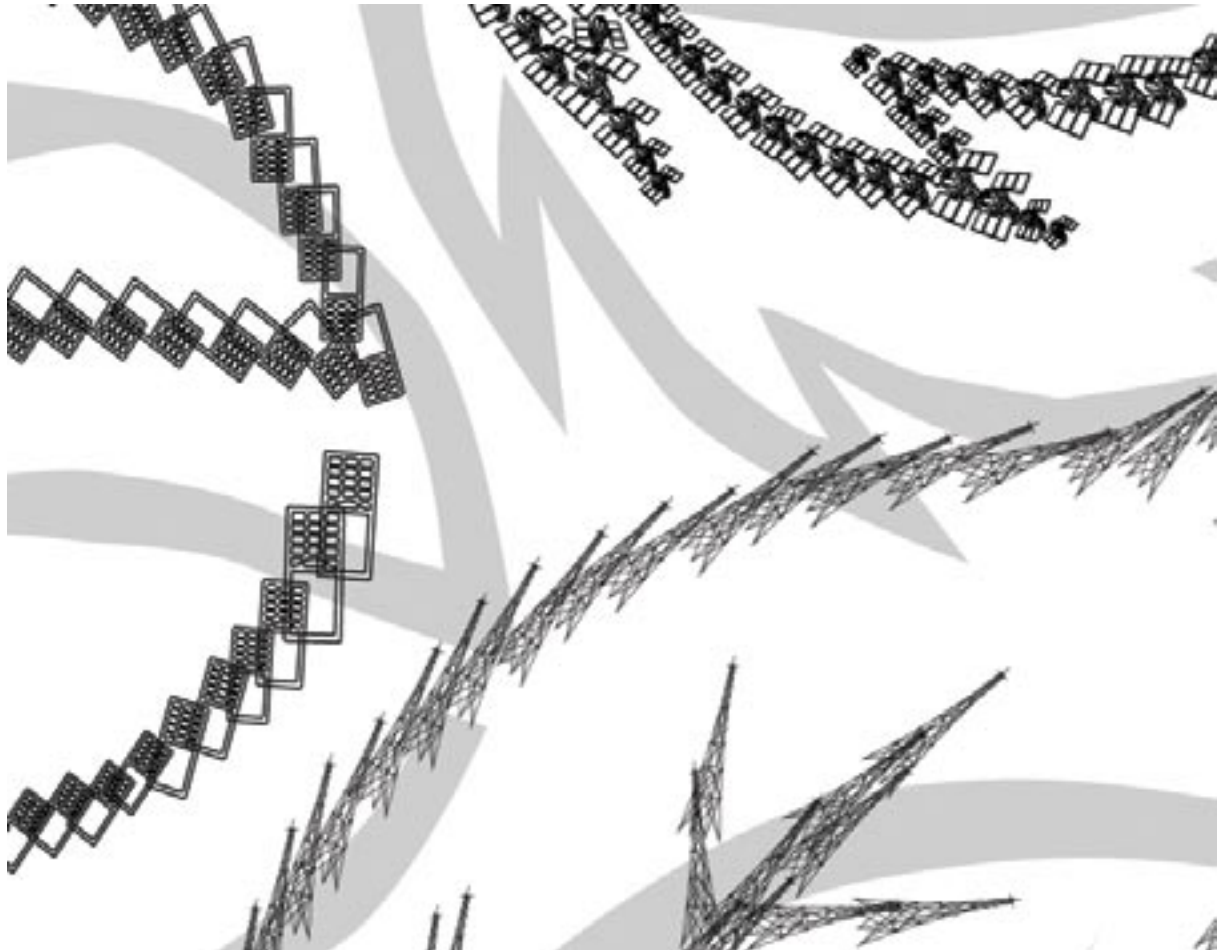




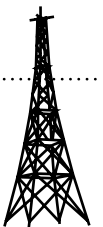


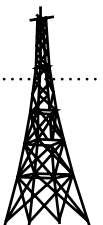
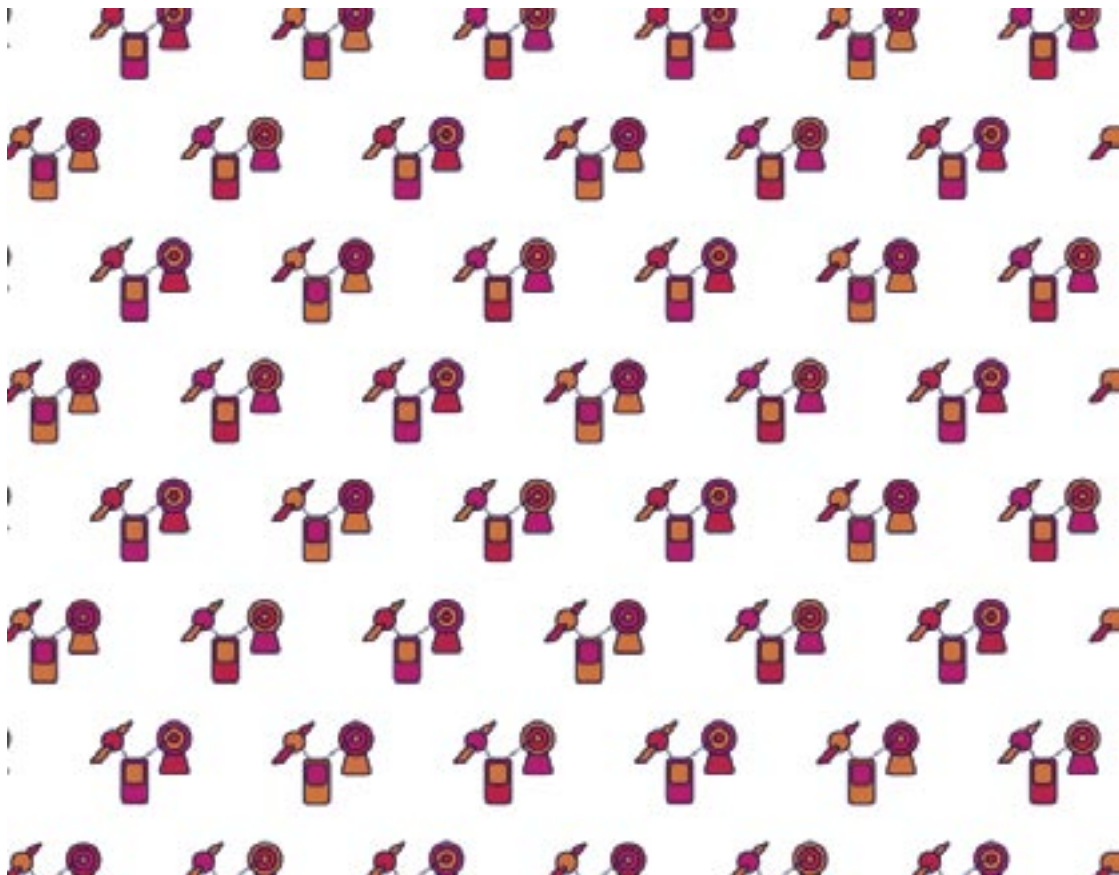


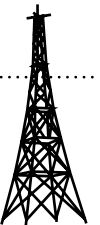


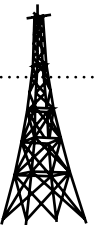
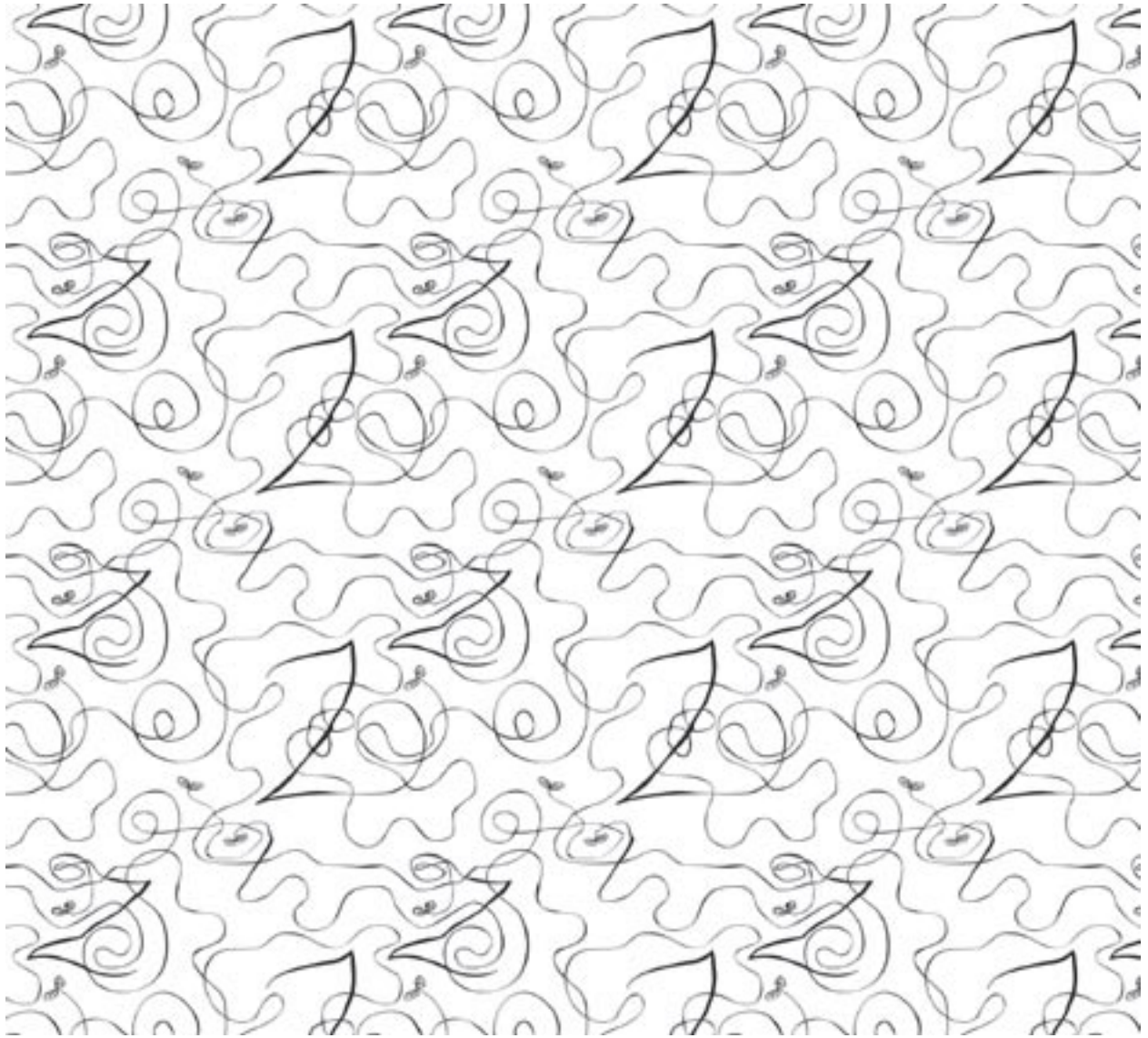


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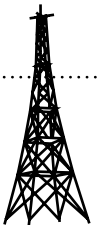








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