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KINETIC LIBRARY

BY AIORAI SYSTEMS:

MICHAŁ HYJEK & MATEUSZ MICHAŁEK

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CONTENTS

0. CHOSEN PROBLEM

1. NAME OF THE PROJECT

2. PROJECT SHORT DISCRIPTION

3. PROJECT DETAILS

4. WHAT AFTER PROJECT

5. INSPIRATIONS AND CONTEXT

6. TEAM BIO AND REFERENCES

0. CHOSEN PROBLEM: COMMUNICATION IN PUBLIC SPACE

1. NAME OF THE PROJECT: KINETIC LIBRARY

2. PROJECT SHORT DESCRIPTION

To start changing urban space We must provide users open access to information about it and go a step further, to provide digital data physically.

Kinetic Library is a BMW X5 car, which after changing the appearance of the body by applying graphic designs, implementation of wireless NFC tags in lacquered body and placing network infrastructure becomes an interactive mobile library which will provide free data to users in the field of architecture, art and culture on smartphones, tablets and mobile devices.

Kinetic Library is a car equipped with a 2.4 Ghz band transmitter and independent power supply. Finally we get a private wireless data network with a range of 100m, moving on four wheels and powered mobility. Also, changing the position causes a change in the data that users for free, regardless of the internet can download.

This is a project living in urban areas, which collects information about the space in which it moves, "bringing" people with the knowledge of what surrounds them, and offering interesting materials that are typically found in the basement of the museum, or you can not reach them beyond the library. Interactive digital moving graffiti.

Data in the Kinetic Library can also be reached by touching symbols on the car body by NFC smartphones, because wireless NFC chips placed under the lacquer allow radio communication with the transmitter located inside the car.

The Kinetic Library project will use collections located in the National Museum in Krakow, Botanical Garden of the Jagiellonian University in Krakow, Cricoteka Tadeusz Kantor and Jagiellonian Library (and more). Kinetic Library both standing in a traffic jam, hitting the route, in the parking lot or parked in designated areas is an independent source of information for casual users.

Kinetic Library can be used as a educational and promotional tool, for art and music festivals or other events connected with the cultural life of the city.

3. PROJECT DETAILS

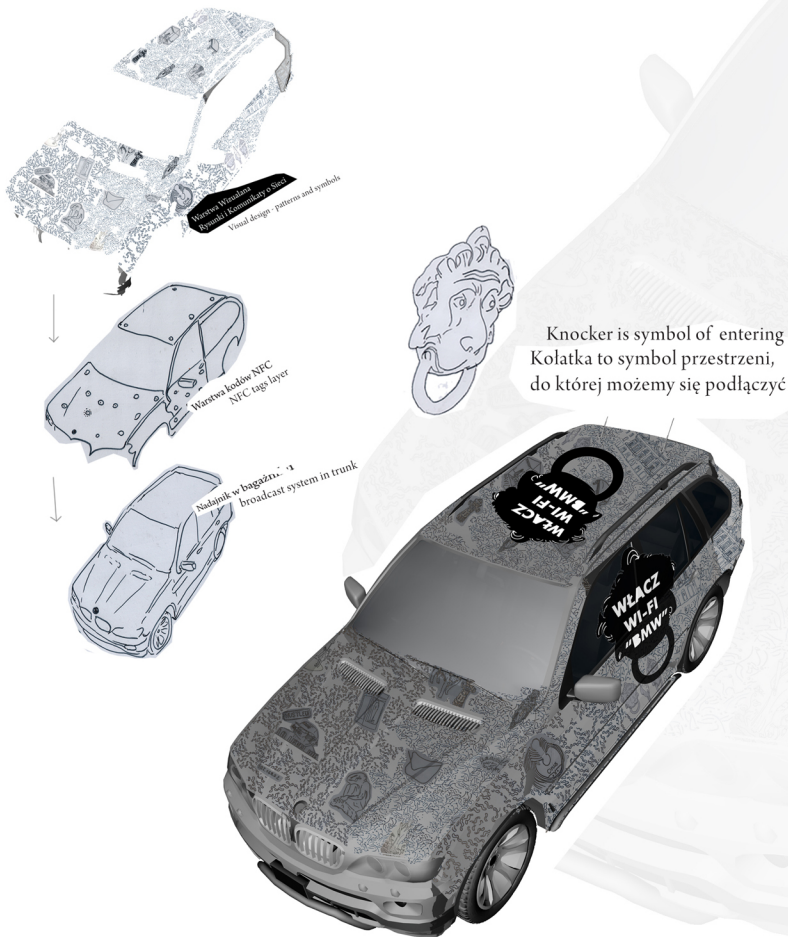
"Building" project is divided into 2 parts:

A – INTERNAL ADAPTATION

(Installation of broadcasting equipment, adaptation of the power system, the construction of cover for the computer hardware, customization of software (Linux distribution), modification of the electrical system of the car, preparing materials, which Kinetic Library distributes)

B- EXTERIOR DESIGN

(Implementation of NFC wireless tags in bodywork, applying graphics to car body



drawings: Michał Hyjek



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A – INTERNAL ADAPTATION:

Kinetic Library uses the universality and growing number of users of smartphones and gaps in functionality, security, interactions and access of the Internet. Functions of private broadcasting system in the 2.4GHz band, which is located inside the car:

Function one:

Sharing digital content (text, images, gif, video, sound). using the default browser on smartphone or other mobile device.

Function two:

Monkey Biocast - is a unique, interactive way to transmit sound. A person who listen a sound record live on smartphone, has also ability to store it on your mobile device with the sounds of the street / places where person was standing during listening. A unique biological copy of the digital recording.

Function three:

Changing the data available to users depending on position of Kinetic Library in the city. on the Nicolaus Copernicus street in Krakow, botanical album is available (we are next to the botanical garden) and a book about eighteenth Italian architecture (a style prevails in this section of Krakow) or info about streetart artist who focused on that area. The user gets the information that he would like to ask.

Function four:

Measurement of the amount of people using the library and other research opportunities of using information access systems in the urbanized area of operation beyond the Internet. Urban statistics.

We also have additional ideas of using private wireless networks for the exchange of digital data.

Additional relevant information about broadcasting system of Library Kinetic:

1. All data transmit options and computer system are original idea of Michał Hyjek and Mateusz Michałek. Special prepared technological specifications video ---> <https://vimeo.com/62182737>

2. Additional power battery will be installed (energy buffer).

The energy consumption of broadcasting system: 1.7A

Battery life 200 Ah (if no car move):

117 hours

3. Broadcasting system (computer, router, antenna system, and customization of software) are solution of AIORAI SYSTEMS Michał Hyjek and Mateusz Michałek

4. To 02.03.2014 AIORAI SYSTEMS finished 12 implementation of private wireless networks containing client data. These were projects for the cultural (Grolsh ArtBoom Festival, The Sensitive Barbarian, Goethe Institut) and business clients (Office of the Marshal, Cracow University of Economics).



B- EXTERIOR DESIGN

Just like building got a gargoyle, a decoration of the facade, an emblem proving originality and and carry the message should be a place, a Kinetic Library must be determined visually, to show recipient ability of using data.

The overall tone of the visual message generated by the car - Kinetic Library = to connect to the data Kinetic Libraries. How it will look and work:

- Polish streets are covered with wide variety of smart or ugly adverts, stickered cars. A Kinetic Library will have a double-layered visual character. At the forefront of whole message
- possibility of a connection to the network BMW. This message is a color contrast relative to the body and a second layer visually. When you approach the car rich decoration of second visual layer will appear.

- The second layer will consist of single-color drawings consisting symbols of today's thinking about urban planning, architecture and the city. That when you touch graphic by the phone with NFC (short-range communications) information about that part of graphic will display. The information will be displayed in the form of image and sound.

- Graphics on the car body will focus on the perspective of the user - a person who observes, uses and sees urbanism in an environment of cultural phenomena, commercial products, or dynamically changing city. Today's thinking about urban planning and architecture are about function and about mixing virtual and physical space.

- Graphic, which will cover Kinetic Library will refer to the Renaissance elements from Nowa Huta, the Roman architectural details related to the visualization of the word „library”, design of antennas in NFC Chips, wireless symbols and things that the user's perspective of the city is an important element of the architecture. Bmw X5 is massive, associated with urban development. It is part of the street.

Implementation of Part B: Implementation of wireless codes is performed as follows: grinding / sanding, NFC tags primer layer, then coating the whole element (e.g., mask or door). Then we put graphics referred to in paragraph above.



cześć wzoru pokrywającego karoserię
part of car body pattern

[illegible]

4. WHAT AFTER PROJECT

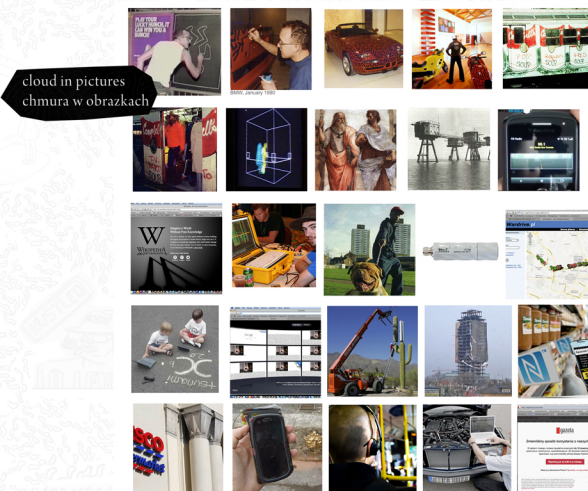
After creating the prototype of Kinetic Library, equipment can be implemented for other vehicles and undertake other promotional content / cultural events. Installation is easy and the production of a prototype, infrastructure possible to re-implement or copying. The idea and it's function implies establishing new fusion of cultural institutions, and places and institutions dealing with architecture.

The project can also be presented at the most prestigious event associated with interactive art that is at Ars Electronica in Linz, Austria. It is possible to transfer it to another city and so do the tour and presentation of art such as for example, art festivals.

5. INSPIRATIONS AND CONTEXT

Cloud of keywords:

Open library concept, Keith Haring, Keith Haring artworks for BMW, David Rokeby canadian Interactive art pioneer, the beginnings of graffiti in the 70s, the first recolling galleries in New York's Metro painted by Fab Five Freddy and LA2 - especially soup Campbell painted in the New York Metro by the FFF, strategies and graffiti artists art in public space, interactive installation, pirate radio stations in London, wardriving, darknet, biological network, the Greek philosophical ideas combined with wireless technology, the study of influence of processing digital data systems on the biological, touching the data, artist Stellarc, paraphrase library function, ACTA and antilobby solutions against Internet providers (kinetic library is free and only administrator and provider of the owner of the library), the speed of transmission of digital data, digital copy and objective of holding it in place and distribution, disfunctional urban internet hotspots. The library - archives, what if there is a digital copy of a book. What next?



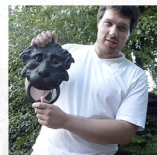
6. TEAM BIO AND REFERENCES

Duet involves artist-scientist and IT engineer = AIORAI SYSTEM

Michał Hyjek - an artist and scientist. Creates interactive installations connecting the physical world with the virtual. Works with corporations (Samsung, Sony) conducts educational workshops (University of Children). Specializes in the construction of private wireless networks, radio communication, smartphones, video and drawings. MA at the Faculty of Industrial Design Intermedia and the Academy of Fine Arts in Krakow, is currently a PhD student at the Academy of Fine Arts in Krakow and co-owner of AIORAI SYSTEMS. Scholar of the Ministry of National Culture and author of the third best artistic BA diploma in Poland in 2012. Loves skateboards, urban culture and diesel engines.



Engineer Mateusz Michalek – Cracow University of Technology student at the Faculty of Physics, Mathematics and Computer Science. Has knowledge and experience in programming embedded systems, electronic design, design and manufacturing of metal parts, welding technology, the technology of plastics and composite materials. Additionally, experienced in the implementation of complex artistic projects and modification of motor vehicles.



We also have:

- Infrastructure for the processing of stainless steel

- Screen Printing

Real experience:

- done works of art in public space in Big events like

(Goethe Guerilla 2012), Contemporary Art Gallery 2013 (Joe Alex), ArtBoom Festival Krakow 2010 and 2012, Toucan Park, 2008.

- Welding,

- Electrical,

Complete list of certificates and list of achievements Michael Hyjek and Matthew Michalek can be in mail attachment.

uwaga!
warning!
bardzo ważna informacja o projekcie!
extremely important information about
watch this video made for contest
<https://vimeo.com/62182737>





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