The HUSH CITY app

mapping & planning the quietness around us

Invisible Places 2017 | April 8 2017

Dr. Arch. Antonella Radicchi, TU BERLIN

Marie Curie Actions

IPODI

Technische Universität Berlin

HOW COULD WE DEFINE QUIETNESS IN CITIES?

SHOULD QUIETNESS CONSIDERED AS A COMMONS?

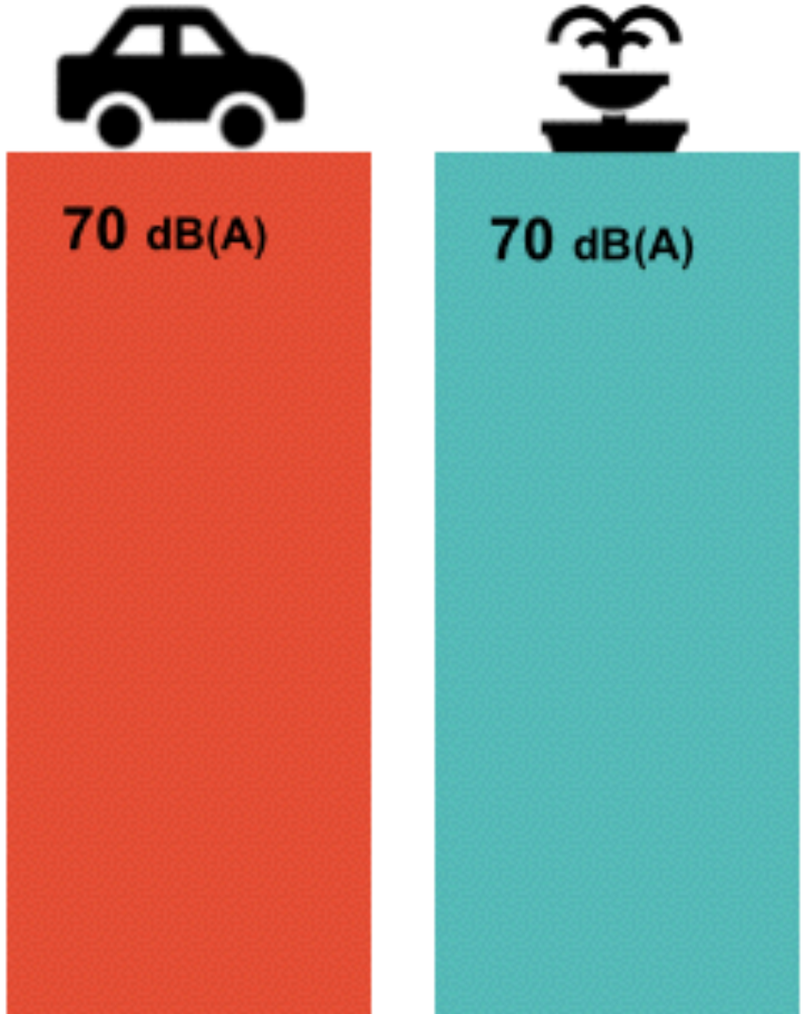
HOW CAN LOCAL COMMUNITIES BE EMPOWERED TO CLAIM FOR QUIETNESS?

Radicchi_2017_Hush CIty (C)

QUIET AREAS IN AGGLOMERATION

END 2002/49/EC ⋯⋯▸ METHOD

DECIBELS /



BEYOND THE NOISE: THE “OPEN SOURCE SOUNDSCAPE” APPROACH

A MIXED METHODOLOGY TO ANALYZE, ASSESS AND PLAN “EVERYDAY QUIET AREAS” IN CITIES

“The soundscape is a huge musical composition, unfolding around us ceaselessly [where] we are simultaneously its audience, its performers and its composers.” (Schafer, 1977)

CITIZEN SCIENCE PARADIGM
THE COMMUNITY IS THE EXPERT

SOUNDSCAPE RESEARCH
SOUNDSCAPE IS THE RESOURCE

OPEN SOURCE TECHNOLOGY
TECHNOLOGY IS THE MEDIUM

PEOPLE

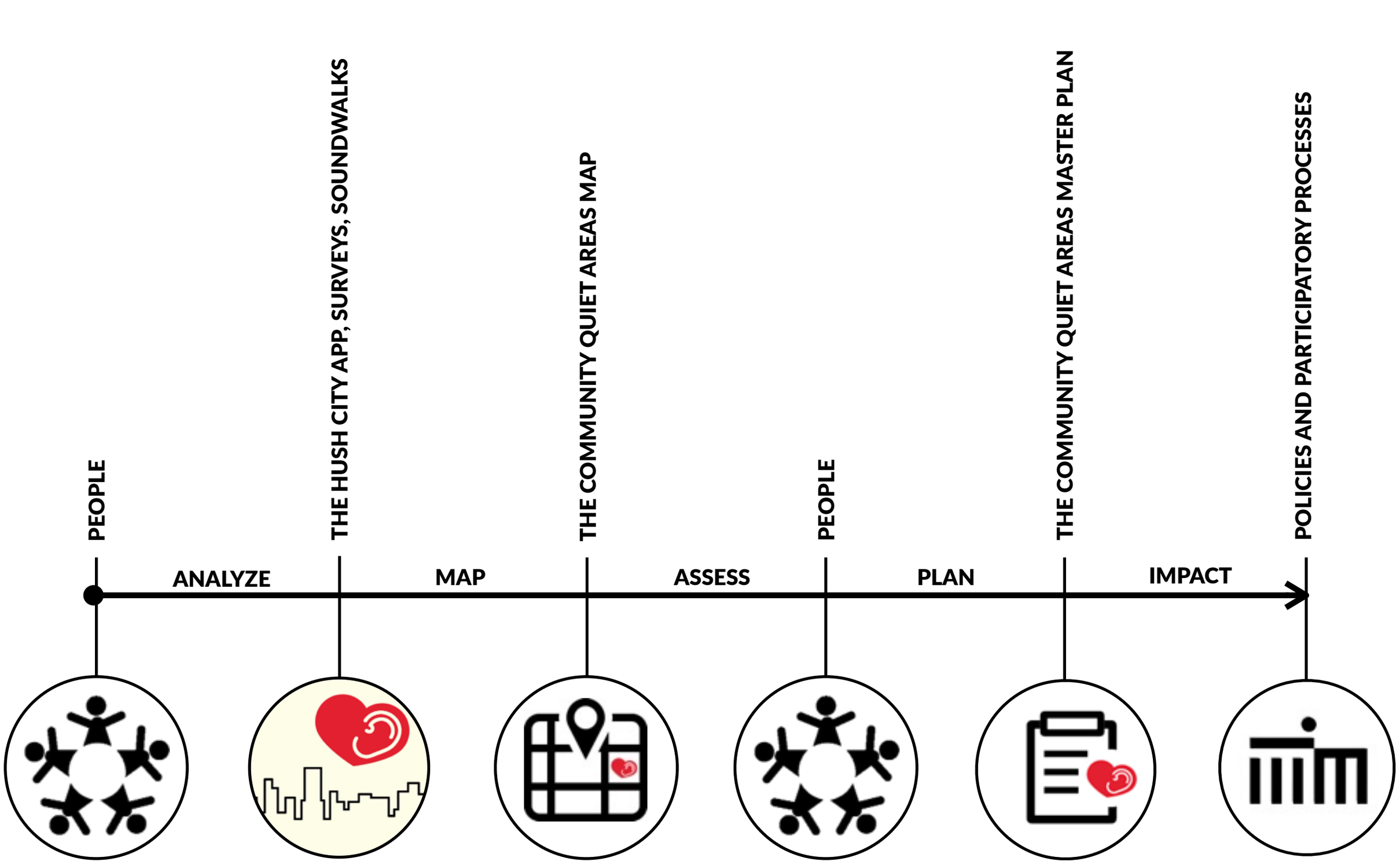
THE HUSH CITY APP, SURVEYS, SOUNDWALKS

THE COMMUNITY QUIET AREAS MAP

PEOPLE

THE COMMUNITY QUIET AREAS MASTER PLAN

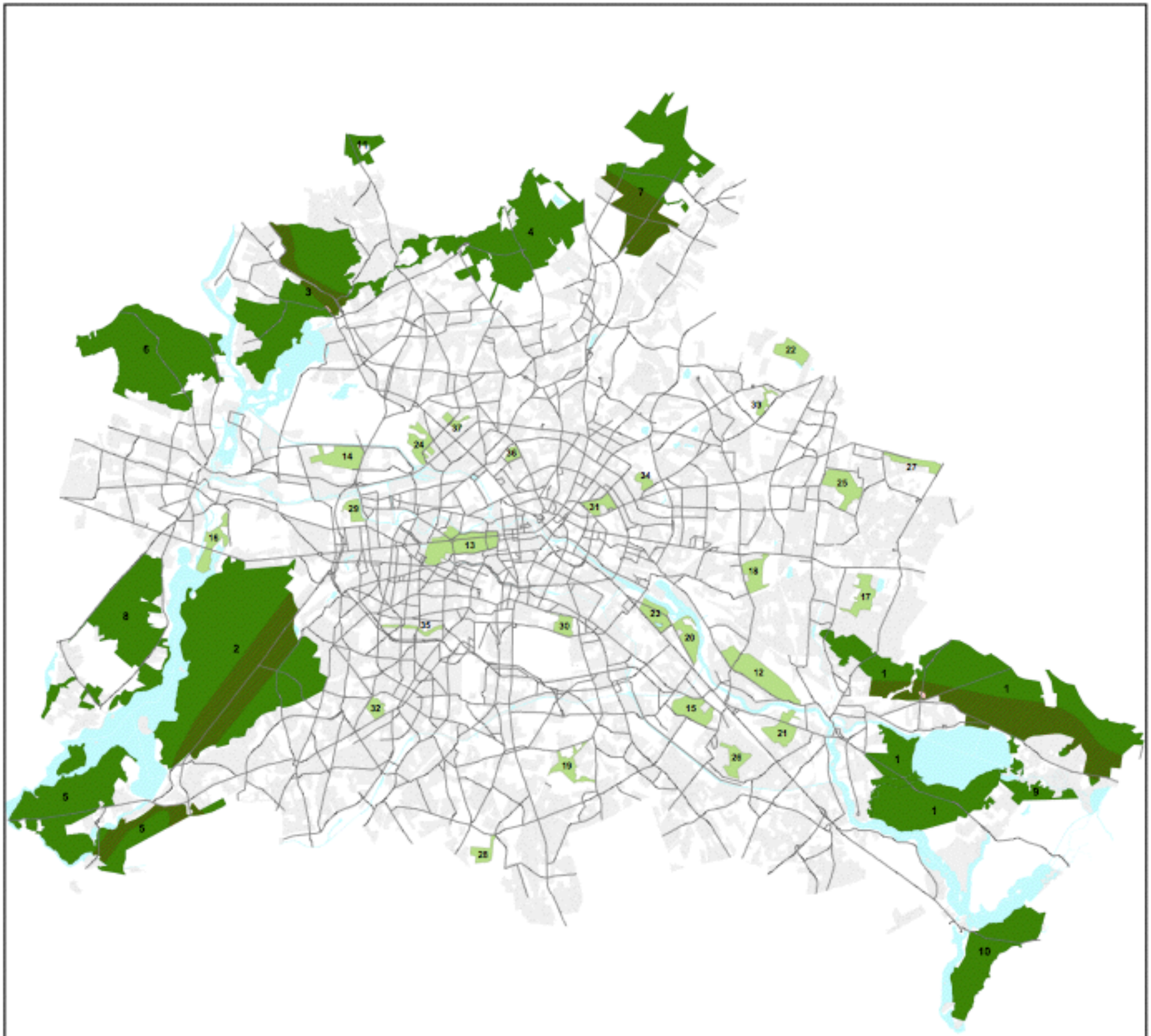
POLICIES AND PARTICIPATORY PROCESSES



WORK PLAN
OUTPUTS
IMPACT

source: Internet

IN BERLIN APPROXIMATELY 200.000 INHABITANTS ARE AFFECTED BY NOISE POLLUTION FROM ROAD TRAFFIC



Senatsverwaltung für Gesundheit, Umwelt und Verbraucherschutz Berlin

Lärmminderungsplanung für Berlin - Aktionsplan

Karte 10

Ruhige Gebiete in Berlin

- Ruhige Gebiete (>100 ha)
- Innerstädtische Erholungsflächen (> 30 ha)
- verlärmter Bereich (L_{DEN} > 55 dB(A))
- **12** Gebietsnummer

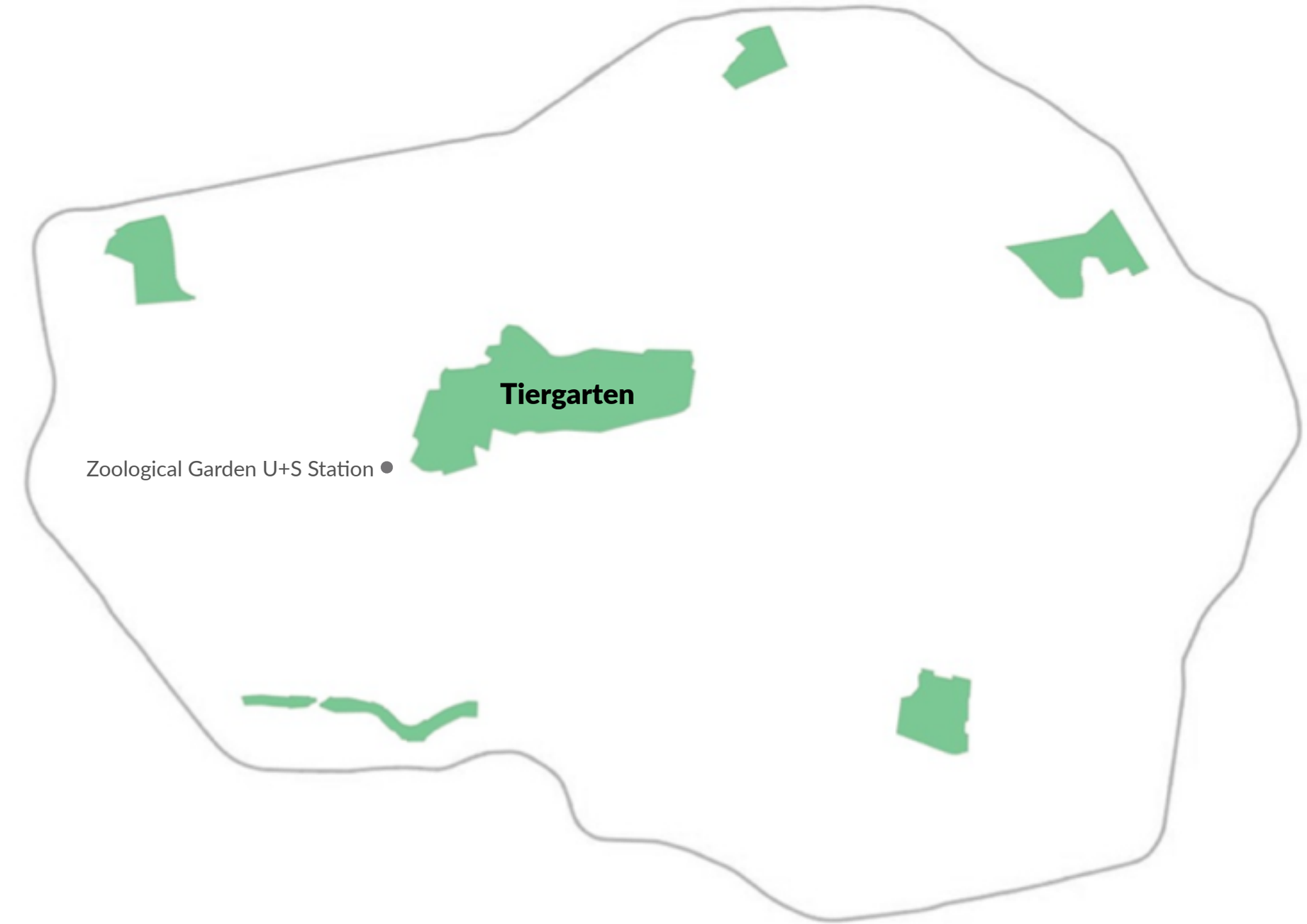
Stand: September 2008
Kartengrundlage: Blockkarte ALK
Maßstab: ohne

NORD

CS Planungs- und Ingenieurgesellschaft mbH
Köpenicker Straße 145
10997 Berlin
Telefon 030 / 61 20 95-0
Telefax 030 / 61 20 95-79
www.cs-plan.de
mit
Dr.-Ing. Eckhart Heinrichs

Planungsgruppe Nord
GESELLSCHAFT FÜR STADT- UND VERKEHRSPLANUNG
Dörnbergstraße 12 ■ D-34119 Kassel

appr. 12 Km



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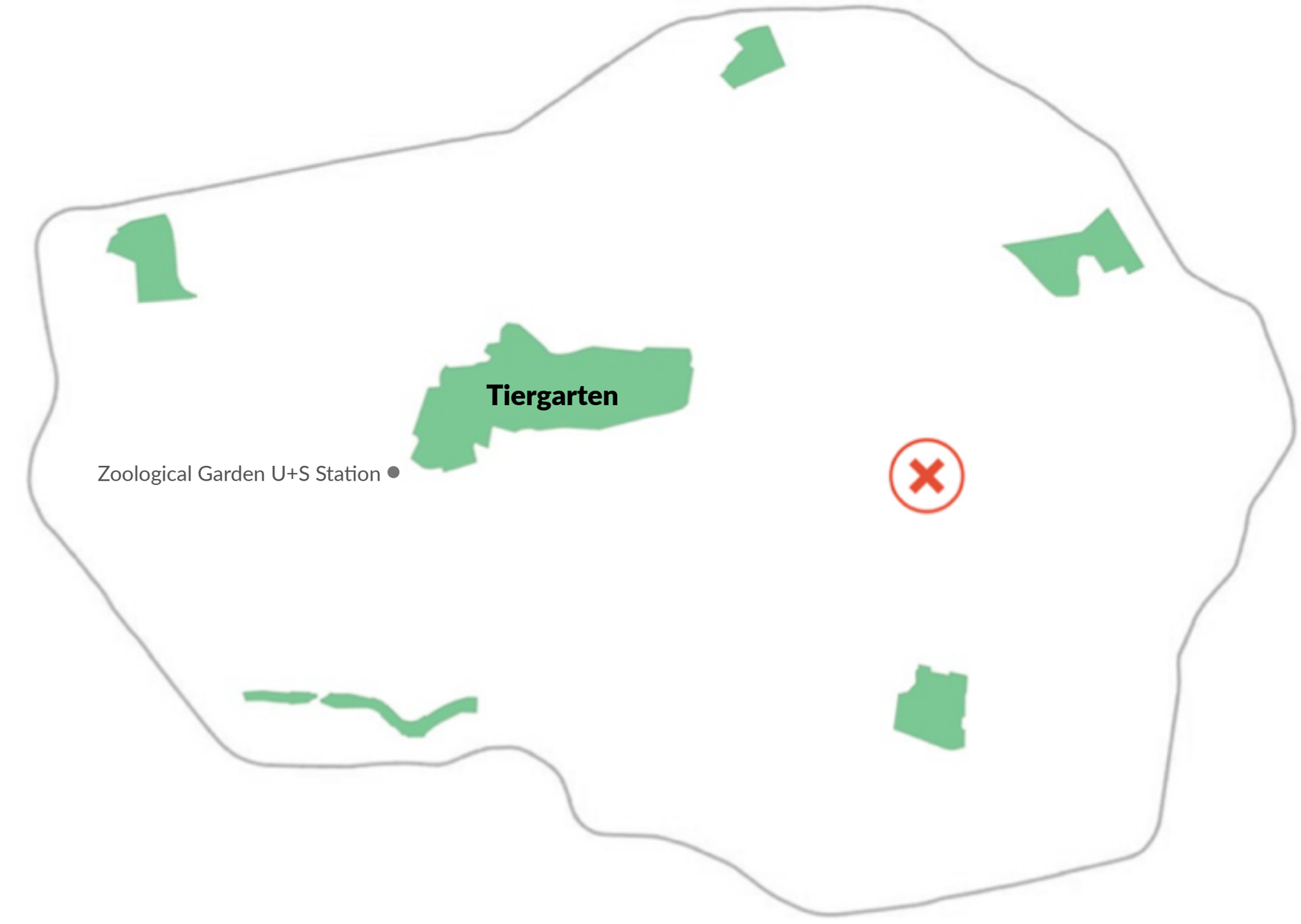

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THE ULTIMATE GOAL OF MAKING QUIETNESS AVAILABLE TO EVERYONE

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A PILOT STUDY

in the

Reuterkiez!

.....

affected by environmental injustice

(Berlin Environmental

Justice Atlas, ed. 2015)

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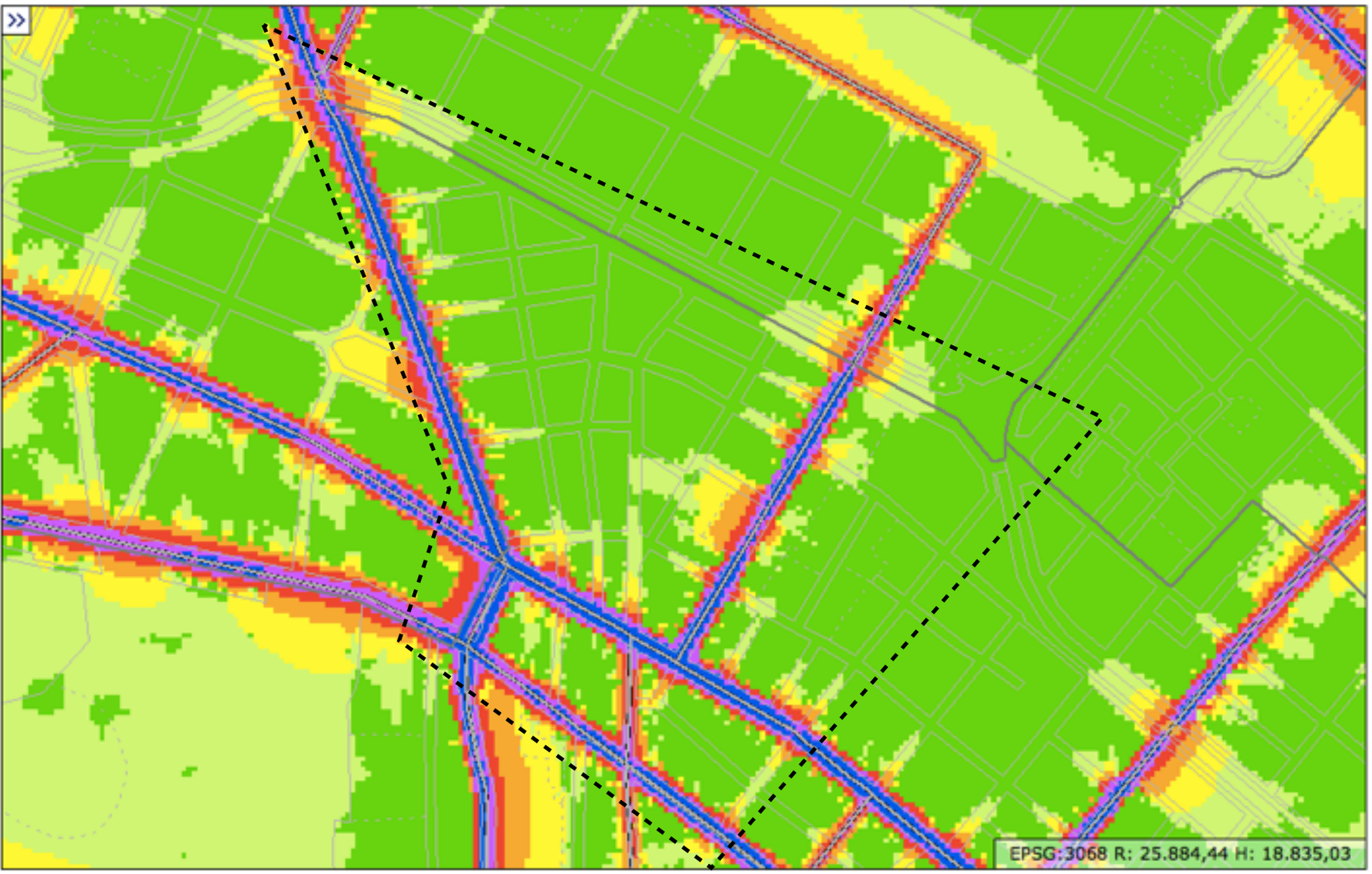
Search | Kartenanzeige

help | tips | Stop

FIS Broker

Strat. Noise Map: Total Noise Index LDEN (day-evening-night) Grid 2012

Navigate in map | Marking for details | Measure | Further information | Printing



Grid Map
L_DEN (Noise Index Day-Evening-Nig
Sum of All Traffic Sources

L_DEN in dB(A)

- <= 50
- > 50 - 55
- > 55 - 60
- > 60 - 65
- > 65 - 70
- > 70 - 75
- > 75

Noise Sources

- Evaluated Main Road Network
- Other Road Network
- Tram and overground Subway
- Railway

Noise Barrier

- Noise Barrier

- - - - - - LIMITS OF THE AREA UNDER INVESTIGATION ON THE TOP OF THE BERLIN NOISE MAP

THE TURKISH MARKET: A SENSORY VOYAGE

PEOPLE MEETING ALONG THE CANAL

SHOPS, CAFES AND RESTAURANTS REFLECTING THE SOCIAL DIVERSITY OF THE KIEZ

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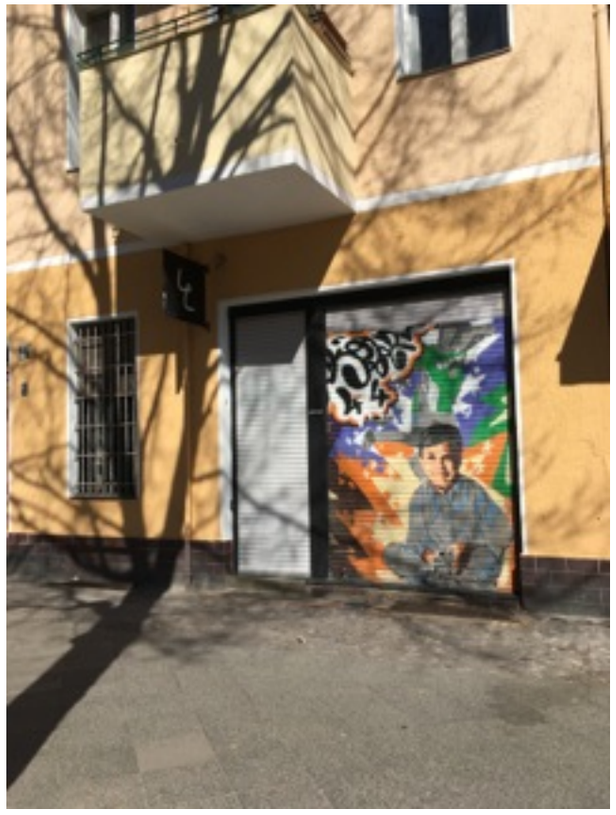
Radicchi_2017_BTNOSS (C)

PLAYGROUNDS!

Radicchi_2017_Hush City (C)

THE LANDWEHR CANAL

REUTERPLATZ



CREATIVITY ON THE AIR

LOCAL GROUPS ENGAGED IN SOCIAL ACTIVITIES

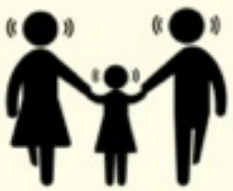
BEYOND THE NOISE: OPEN SOURCE SOUNDSCAPES

MACH MIT!

Wenn du deinen Kiez zu einem ruhigeren Platz machen möchtest

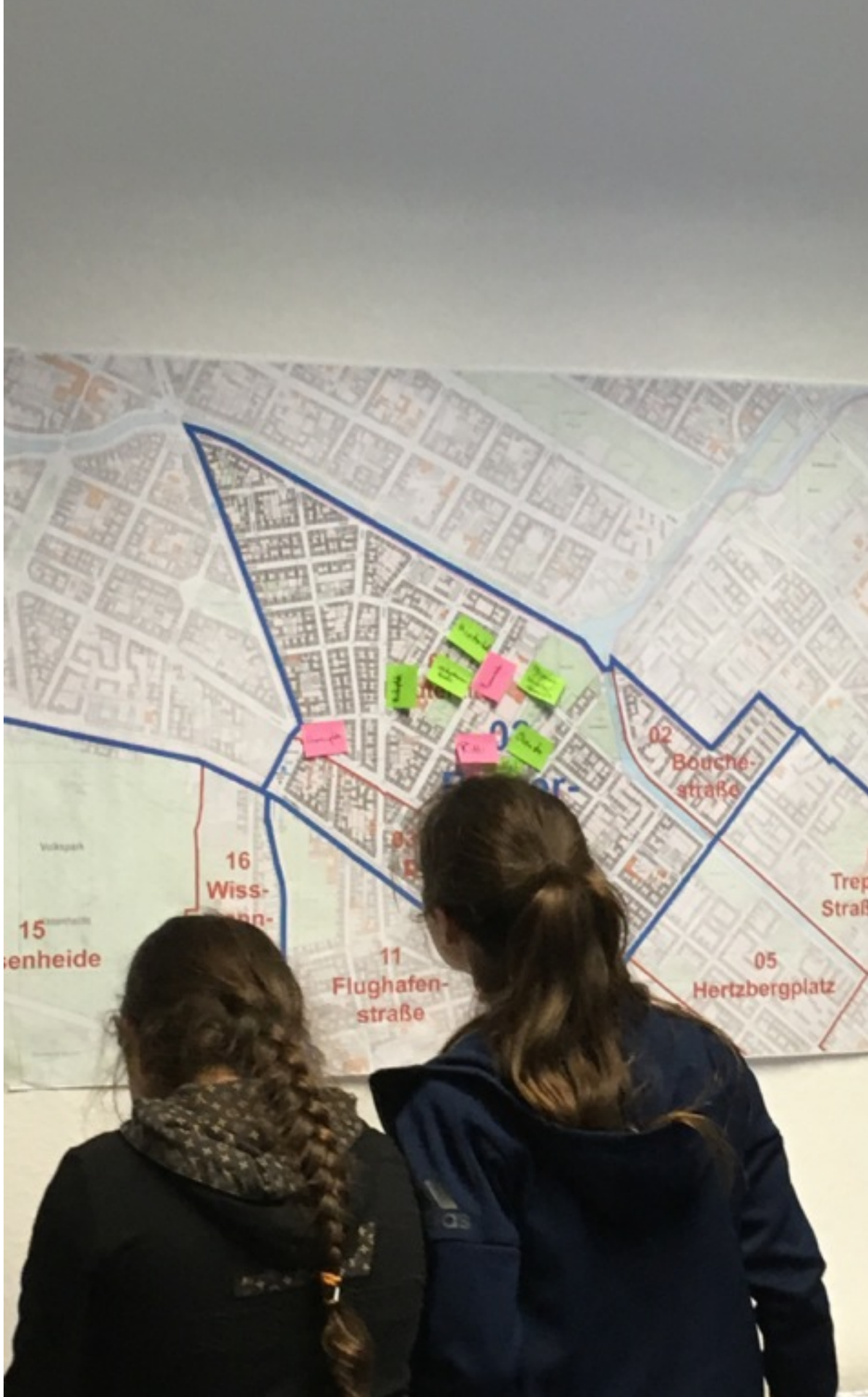
9. MÄRZ 2017 um 19 Uhr

StadtteilBüro Reuterkiez
Campus Rütli - Rütlistrasse 1-3



Kurzzusammenfassung.
Das Projekt "Beyond the Noise: Open Source Soundscapes" beschäftigt sich mit dem Problem der Lärmbelästigung. Dabei experimentiert es mit einer neuen, interdisziplinären Methodik, um kleine, versteckte Ruhezonen in der Nachbarschaft identifizieren, beurteilen und planen zu können, indem sie aktiv die lokalen Bewohner einbezieht. Mit dem Einsatz einer neuen Open-Source-Technologie soll das Ziel, jedem Zugang zu Ruhe und Erholung zu ermöglichen, erreicht werden.

www.opensourcesoundscapes.org @btnoss



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Rabea, Dominik, the ELELE association, Simone from the Kinder Kiosk, Hannah, Jurgen, Juliana, Jacob, Maria, Vittorio, Elena from the local bookstore .... and many others!
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Radicchi_2017_Hush City (C)

The **Hush City app** is developed in the frame of the Beyond the Noise: Open Source Soundscapes project.

CREDITS

Inventor and logo designer: Dr. Arch. Antonella Radicchi

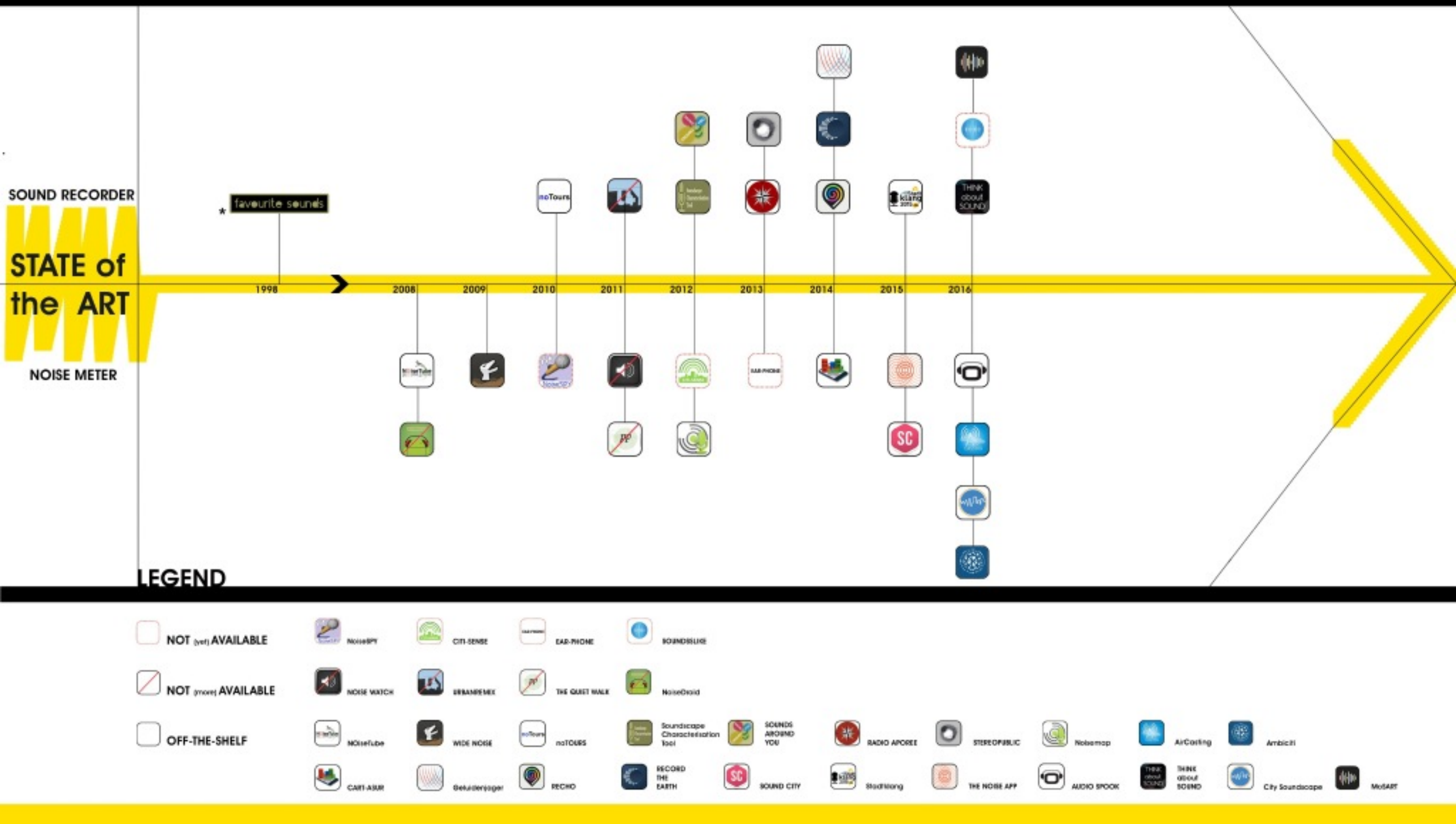
Acoustic Consultants: Professor Michael Jäcker-Cüppers (Technical University of Berlin), Dipl. Ing. Manuel Frost (Berlin Senate, Senate Department for the Environment, Transport and Climate Protection), Dipl. Ing. Mattia Cobianchi (Bowers & Wilkins, UK).

Software Development: QUERTEX GmbH (GER) in cooperation with EdgeWorks Software, Ltd.

ACKNOWLEDGMENTS

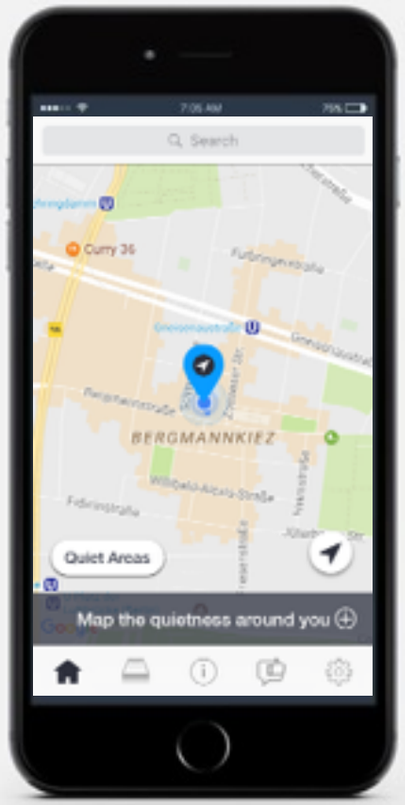
The project: “Beyond the Noise: Open Source Soundscapes” has received funding from the IPODI-Marie Curie Fellowship – People Programme (Marie Curie Actions) of the European Union’s Seventh Framework Program (FP7/2007-2013) under REA grant agreement no. 600209 (TU Berlin/IPODI).

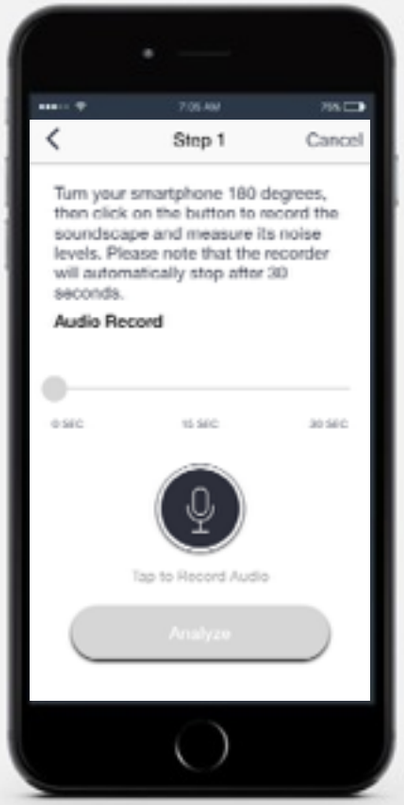
MOBILE APPS 4 CROWDSOURCED NOISE- & SOUND MAPS



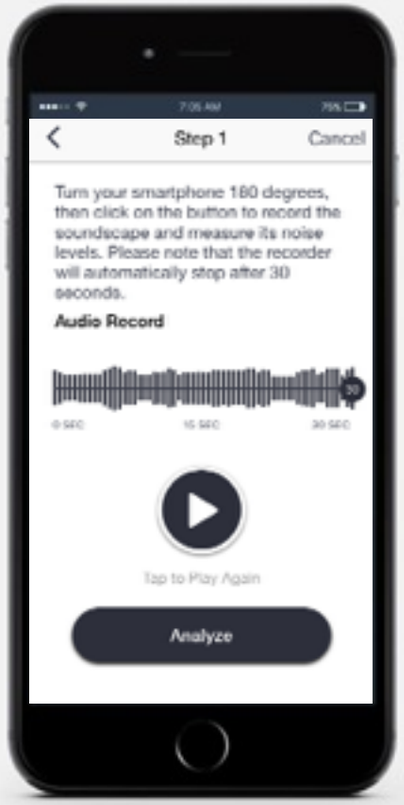
ANTONELLA RADICCHI 2017 (C)

1/ MAP THE QUIETNESS AROUND YOU!

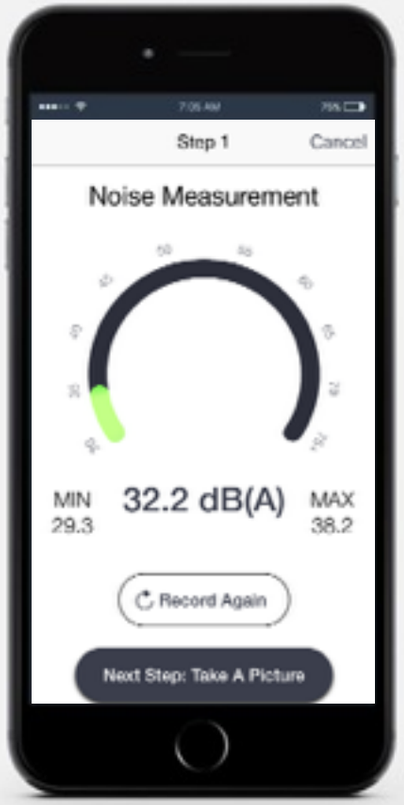




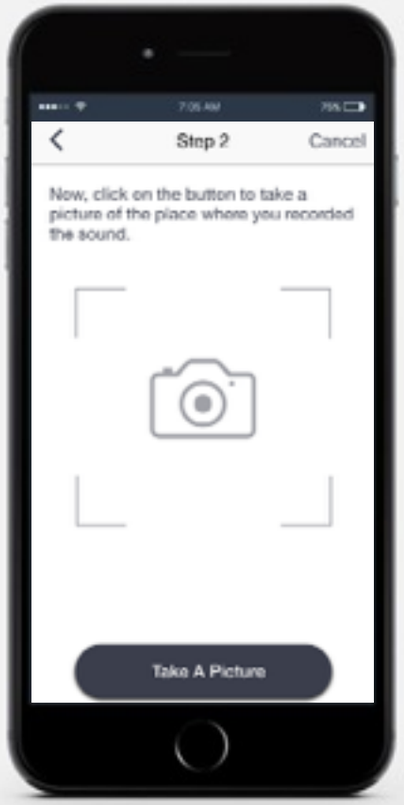
RECORD THE SOUND



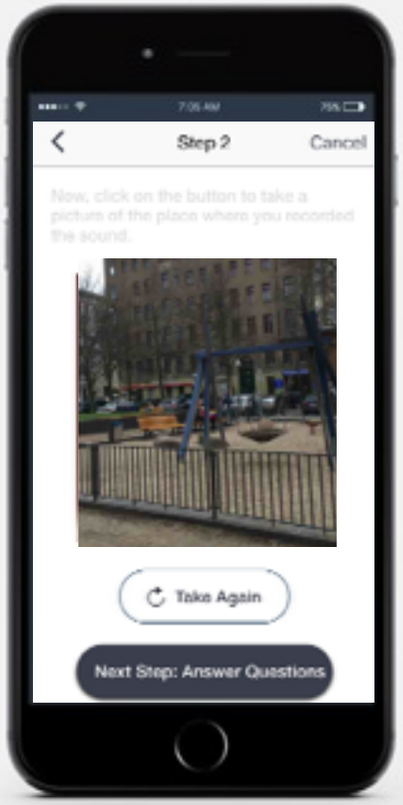
ANALYZE THE SOUND



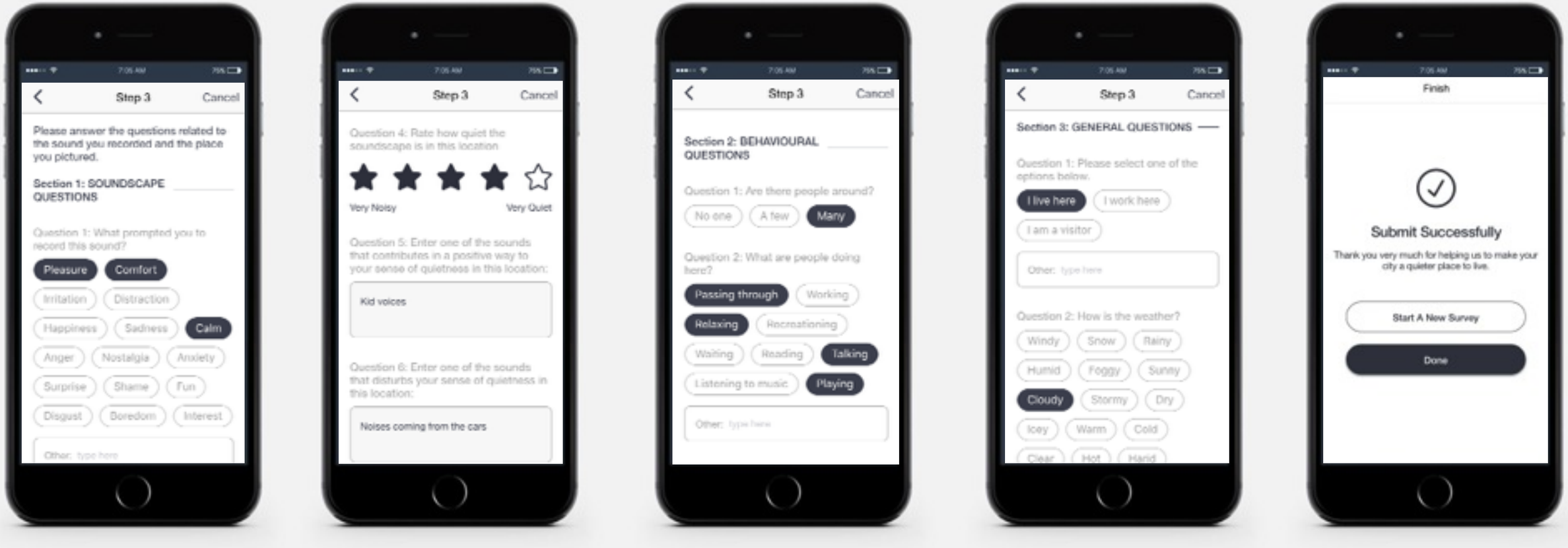
CALCULATE NOISE LEVELS



TAKE A PICTURE

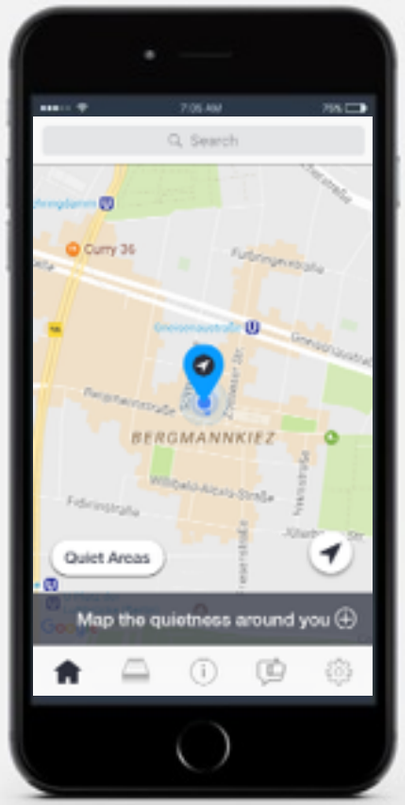


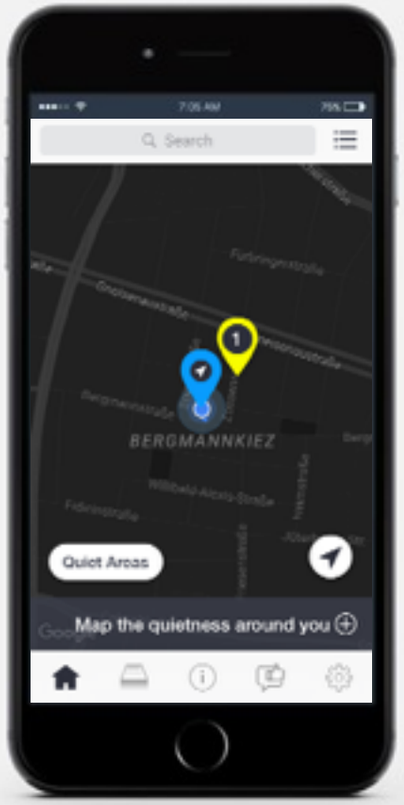
TAKE IT AGAIN or GO ON



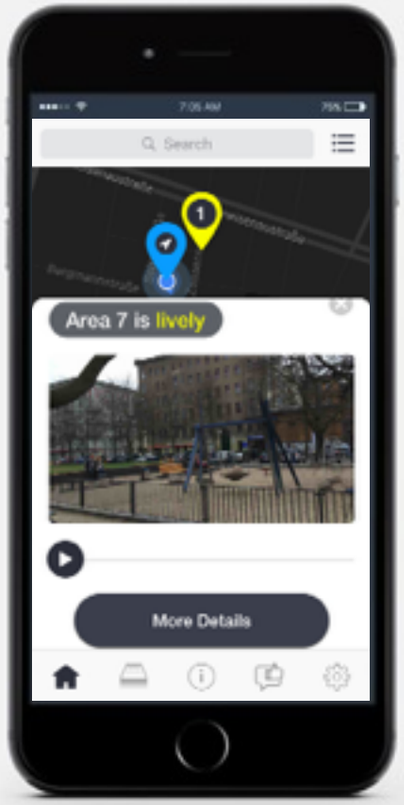
REPLY TO THE QUESTIONNAIRE: SECTION 1, 2, 3 AND ..... SUBMIT YOUR SURVEY!

2/ EXPLORE THE QUIETNESS NEARBY!

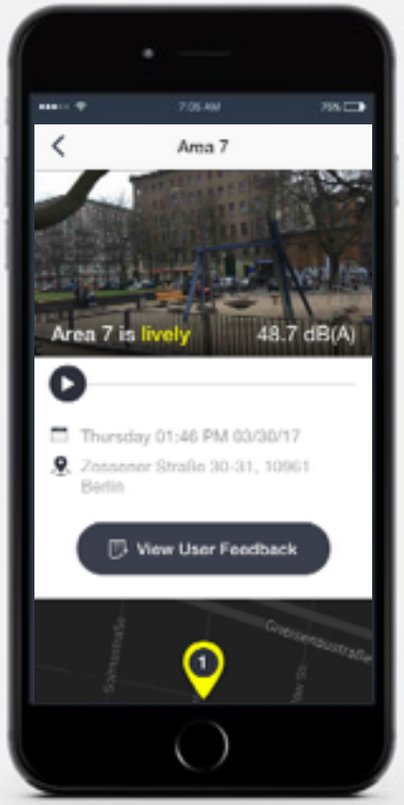




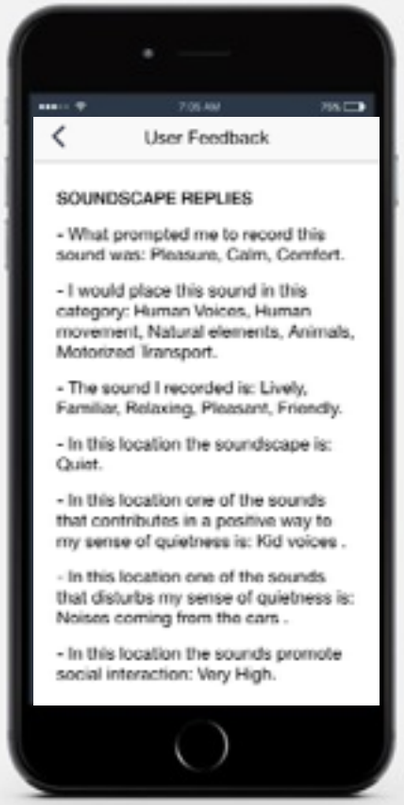
MAP VIEW MODE



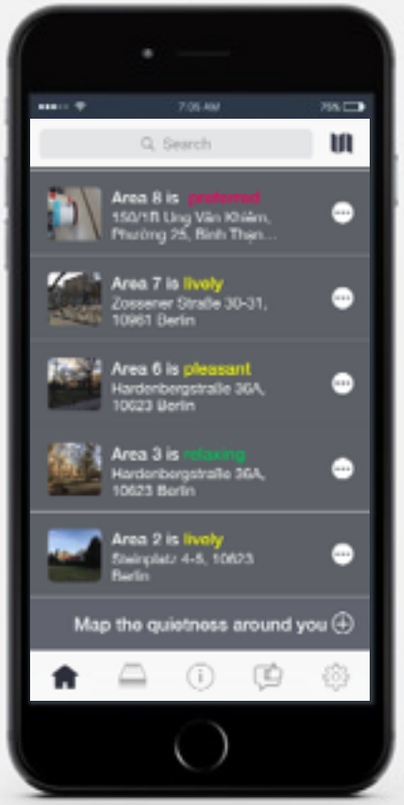
CLICK ON THE MARKER



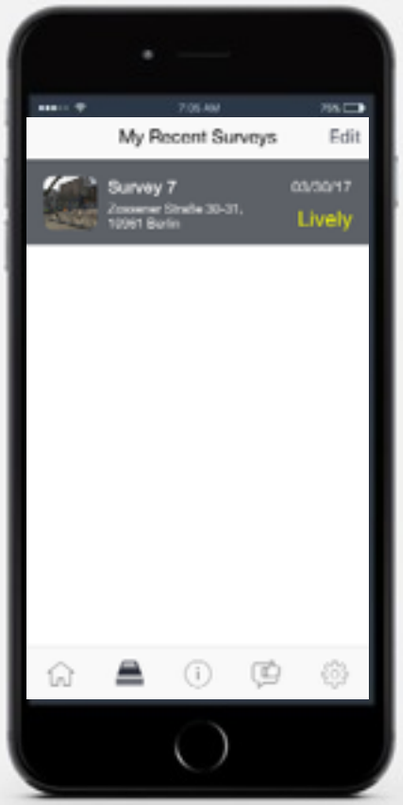
EXPLORE THE QUIET SPOT



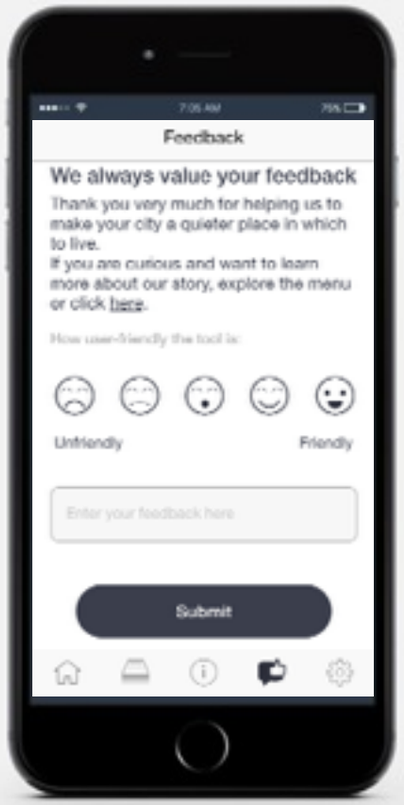
READ THE USER FEEDBACK



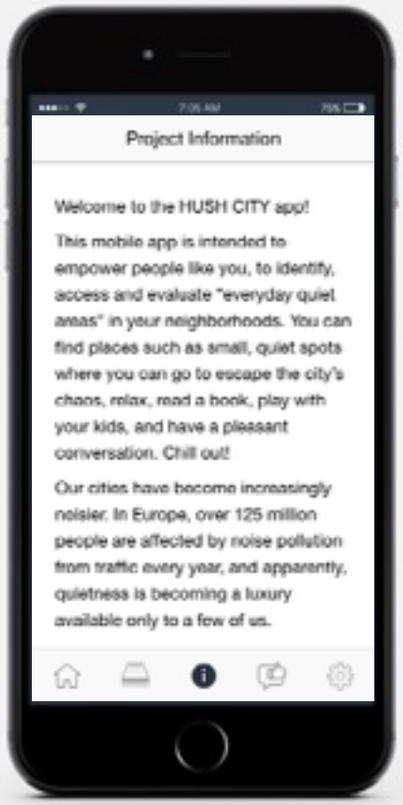
LIST VIEW MODE



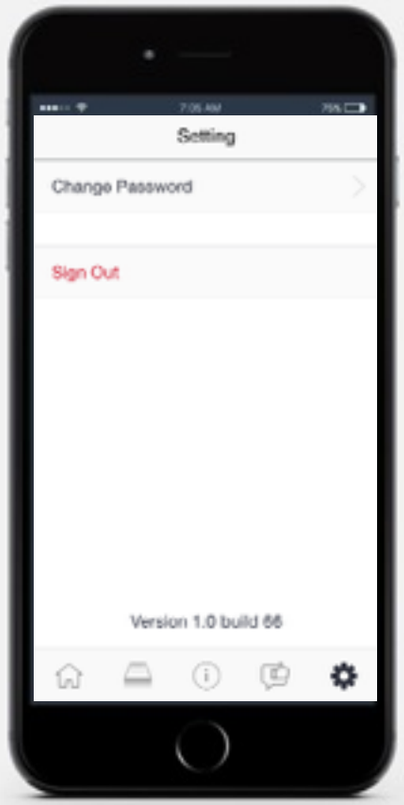
YOUR RECENT SURVEYS



FEEDBACK ON THE APP!



PROJECT INFO & CREDITS



SETTINGS

The app will be available by the end of April 2017 on Apple and Google Play stores: STAY TUNED!

PEOPLE

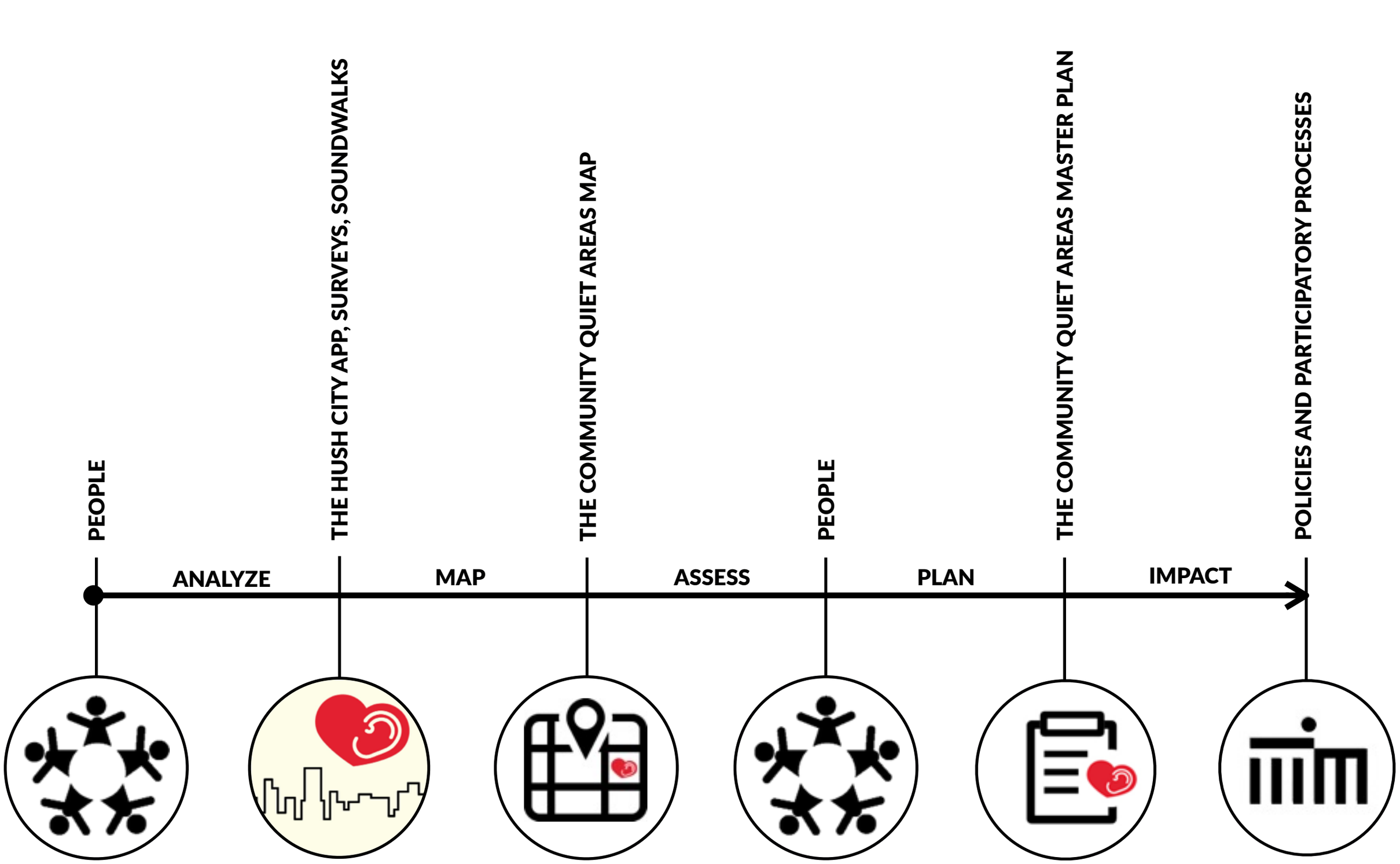
THE HUSH CITY APP, SURVEYS, SOUNDWALKS

THE COMMUNITY QUIET AREAS MAP

PEOPLE

THE COMMUNITY QUIET AREAS MASTER PLAN

POLICIES AND PARTICIPATORY PROCESSES



IN PROGRESS!

FALL 2017 /BEGINNING OF 2018

WORK PLAN
OUTPUTS
IMPACT

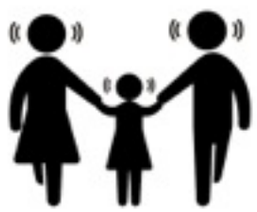
INCREASE COMMUNITY AWARENESS
on the importance of reclaiming and protecting quietness in their neighborhoods.

EMPOWER LOCAL COMMUNITIES
to identify, evaluate and access small, quiet spots in their neighborhoods.

IMPACT ON POLICIES & PARTICIPATORY
processes by training committed citizens in soundscape action research.

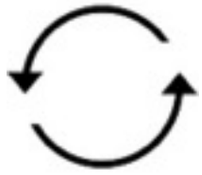
#1 THE “COMMUNITY EXPERT ON SOUNDSCAPE"

One-day long workshop to traine committed citizens in order to transfer to them the knowledge necessary to keep on the project after its end and to actively contribute in the participatory planning processes.



#2 THE “SOUNDWALKING IN THE KIEZ” PROGRAM

A soundwalk program which will be launched in the frame of the 2017 International Noise Awareness Day. In the next years, on INADs, the soundwalk will be guided by the “community experts on soundscape”.



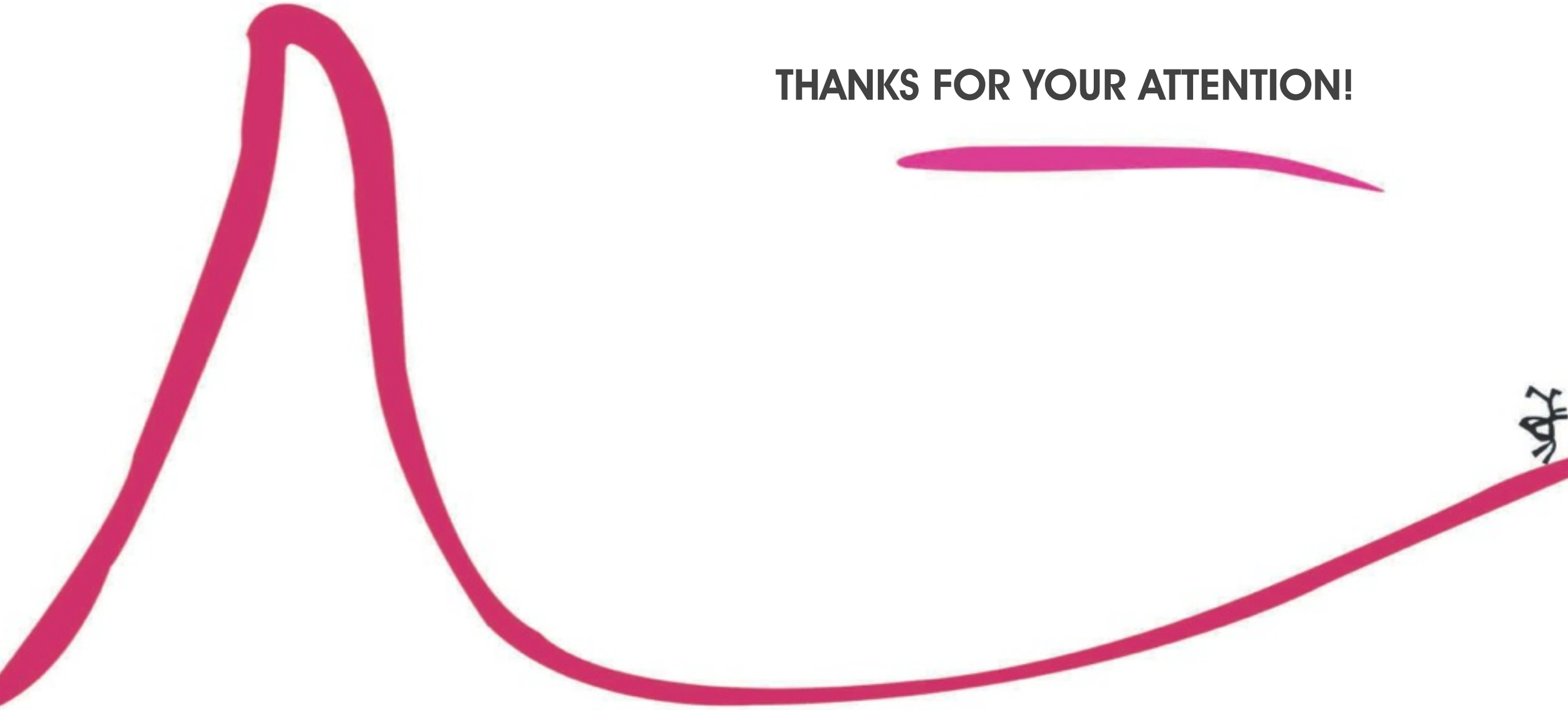
IMPACT ON THE COMMUNITY

BEYOND THE NOISE: OPEN SOURCE SOUNDSCAPES

GET INVOLVED!

IF YOU ARE INTERESTED IN MAKING YOUR NEIGHBORHOOD A QUIETER PLACE TO LIVE

www.opensourcesoundscapes.org

@btnoss

THANKS FOR YOUR ATTENTION!