

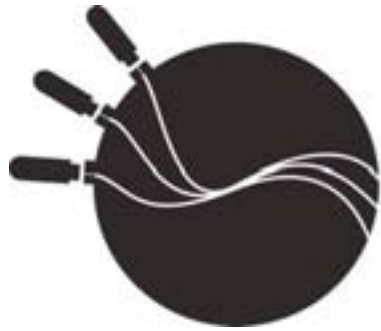
# PLUG IN PARTICIPATION

a framework for distributed  
innovation for citizen participation



IP City summer school  
2009  
Workshop 1  
Urban issues

Ming Li  
Paul Gault  
Thobias Fischer  
Christoph Wimmer  
Joanna Saad-Sulonen  
Sevasti Vardouli

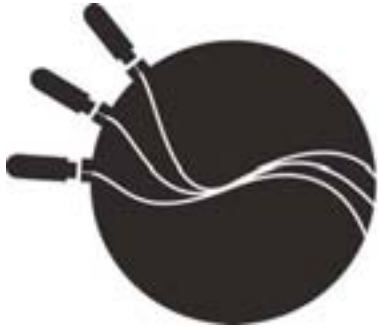


# PLUG IN PARTICIPATION

- Issue: stakeholder participation in urban projects
- Problem: channeling new technologies to help in addressing urban issues
- Questions: How to engage stakeholders? How to provide them with tools for understanding and addressing urban issues?





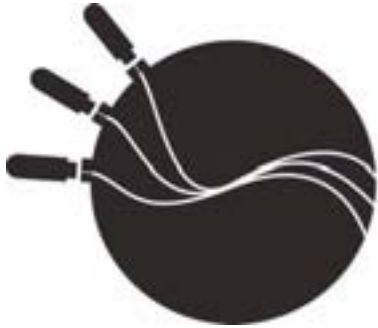


# PLUG IN PARTICIPATION

Case: Naschmarkt

Controversy: bringing back the river





## PLUG IN PARTICIPATION

Stakeholders and stakes: a complex situation ...

people working there tourists public authorities  
preservationists area residents technical services  
regular users visitors drivers unknown  
stakeholders market administration urban planning  
services people with disabilities associations ...

Environmental issues densification pedestrian  
flows temporary market economical viability  
security maintenance corporate identity memory  
history nuisances public utilities personal routines  
ambience ...

Stakeholder A: Peter, 20 years old, university student, going to Nashmarkt to hang out and meet friends, he lives outside the center of Vienna so he comes by public transport.

He loves the area's ambience but he is not aware of the river's existence.

Stakeholder B: Omar, 52 years old, shop-owner. He is not familiar with Internet.

He has been working in Nashmarkt for the past 23 years. He is interested in maximising his margins and the area's attractivity.

Stakeholder C: Ella, 35 years old, is living in the area with her children. She goes to Nashmarkt everyday to shop fresh ingredients.

She is concerned about the area's security and environmental issues.

Stakeholder D: Mr. Schicker, 50 years old, is urban planner working for Vienna's municipality.

He is coordinating the project for the Nashmarkt's development. He is adopting a sustainable development approach and worried about the preservation of the place's historical memory.

Stakeholder E: Lisa, 30 years old, is an environmental activist.

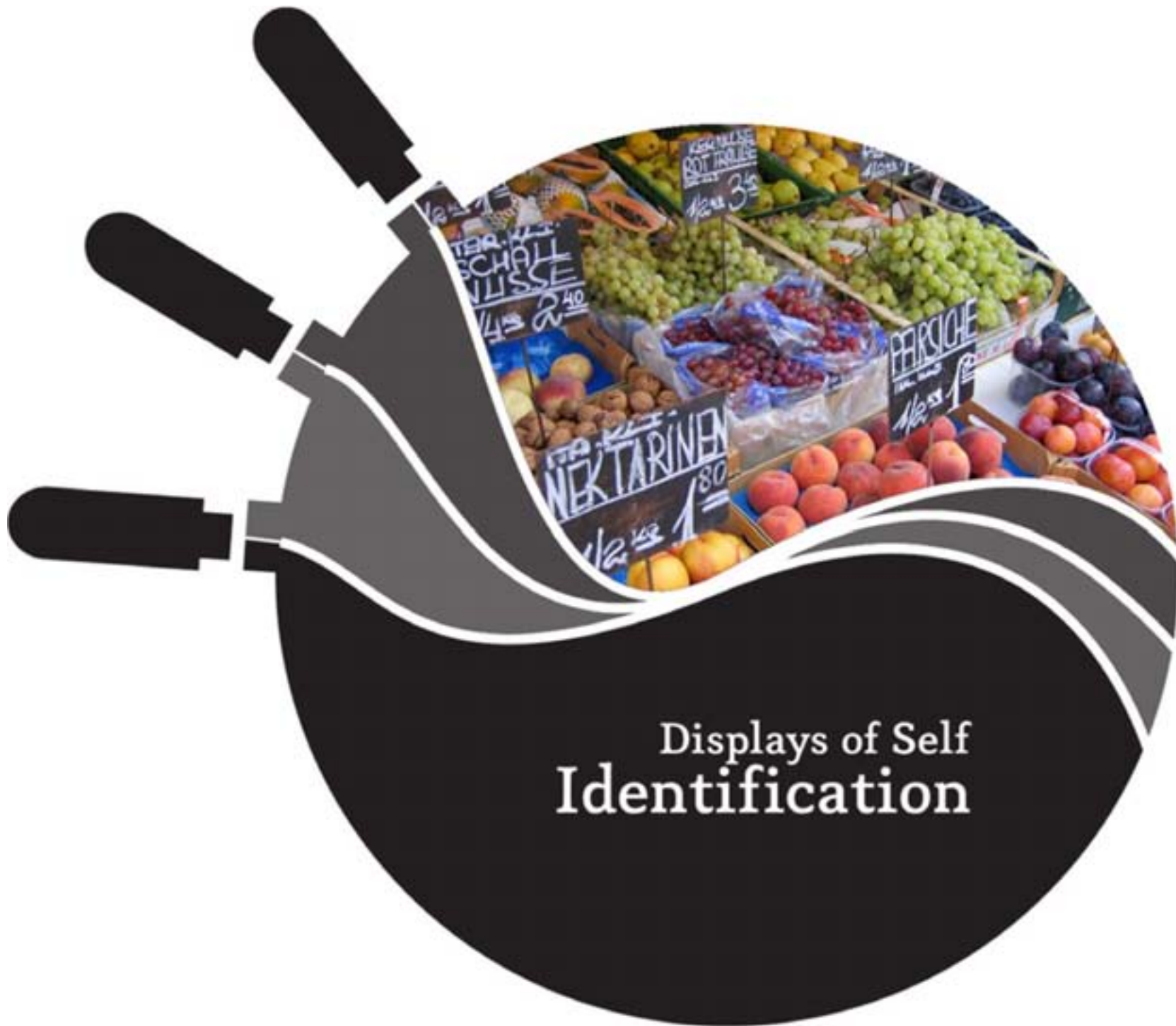
She is leading an association for the preservation of Vienna's biodiversity. They have been collecting material on the covered river.







Public Messages  
Official



Displays of Self  
Identification



Public Messages  
Official &  
Illegitimate







Public Messages  
Official &  
Illegitimate

Public Messages  
Illegitimate





Public Messages  
Illegitimate



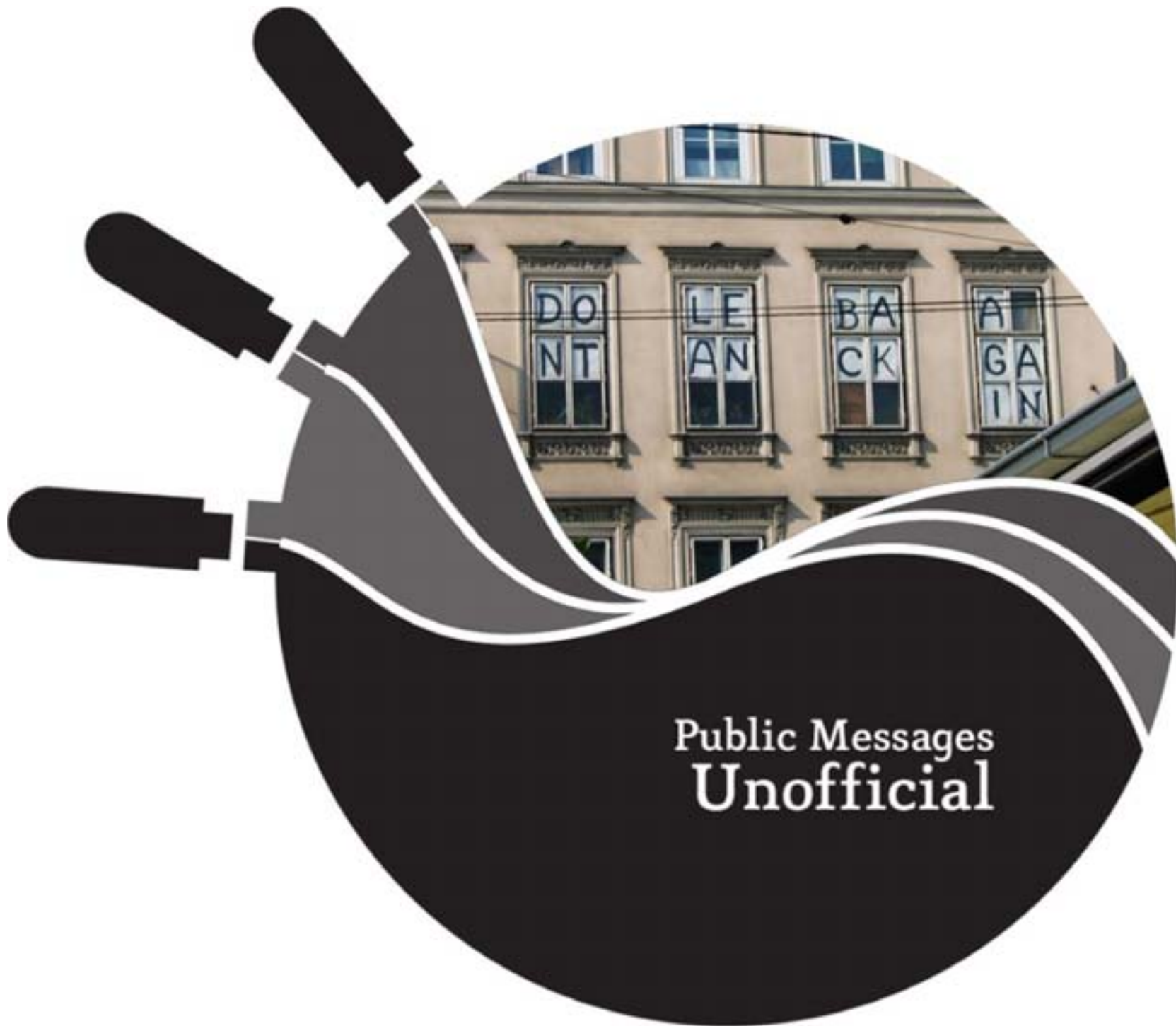


Public Messages  
Un/official



# Public Messages Illegitimate





Public Messages  
**Unofficial**



A stylized graphic of a hand holding a magnifying glass. The hand is rendered in black and grey, with the fingers gripping the handle of the magnifying glass. The lens of the magnifying glass is a large circle that frames a photograph of a building facade. The building facade is covered in intricate, colorful floral and geometric patterns, characteristic of the Vienna Secessionist style. The text "Displays of Self Personalization" is written in white serif font inside the dark grey area of the magnifying glass handle.

Displays of Self  
Personalization



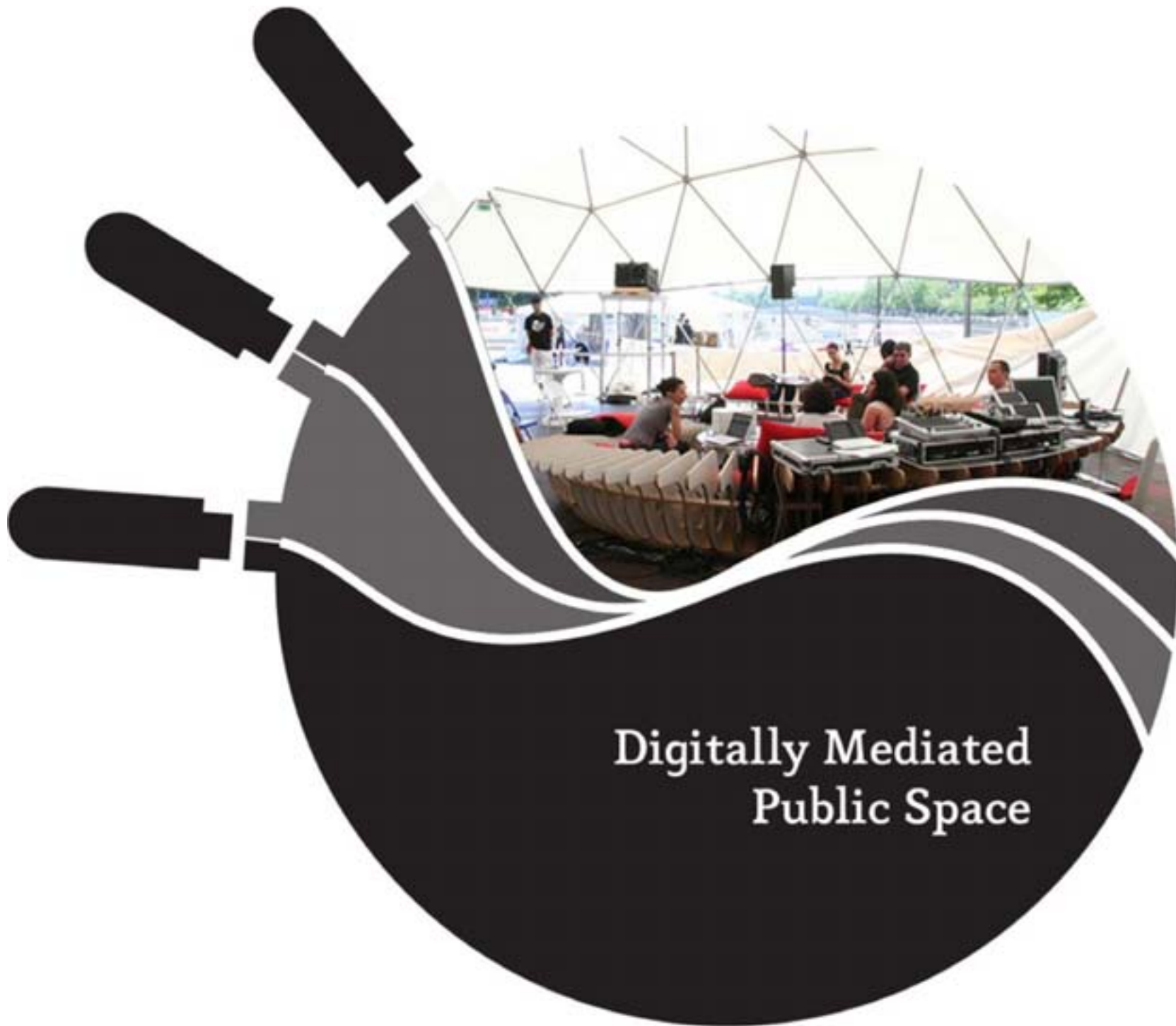


By-Products of Use  
**Erosions**



By-Products of Use  
Erosions

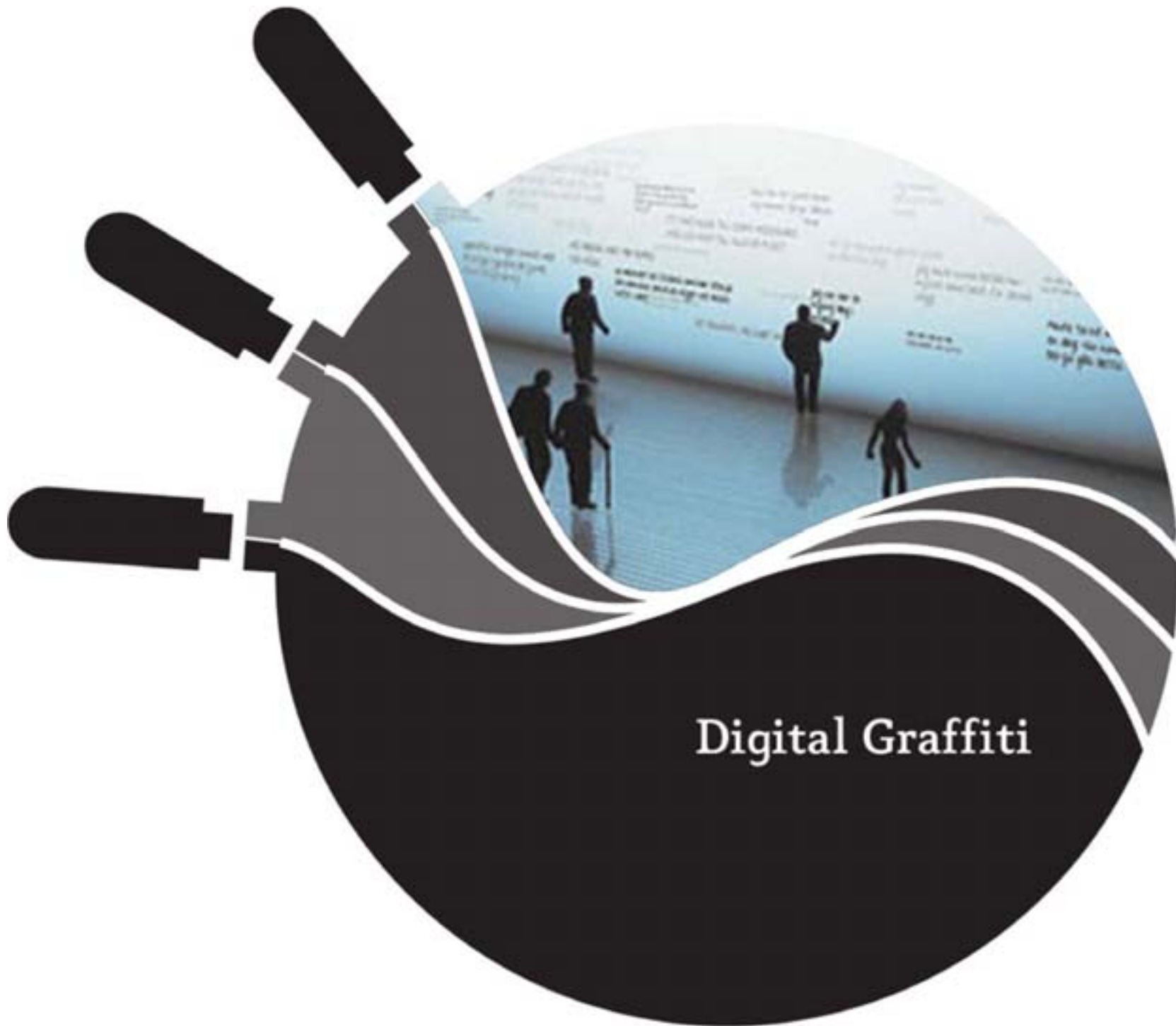




Digitally Mediated  
Public Space

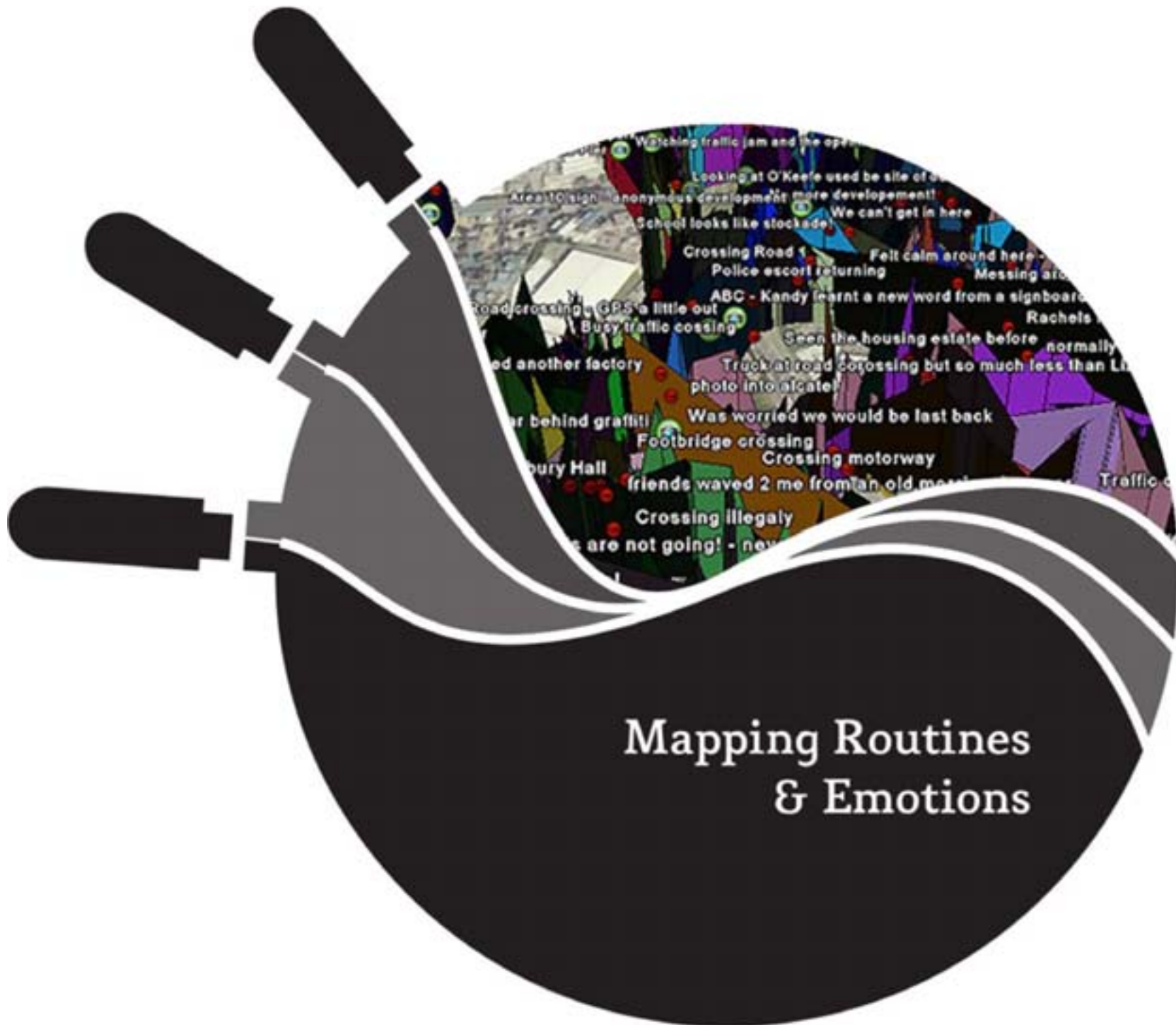


Combining Haptic &  
Digital Information



Digital Graffiti





## Mapping Routines & Emotions

# Bringing Together Mixed Realities



# Enabling Inanimate Objects to Communicate

Programmer towerbridge is using Twitter.

Twitter is a free service that lets you keep in touch with people through the exchange of quick, frequent answers to one simple question: What are you doing? **Join today** to start receiving towerbridge's tweets.

Join today!

Already using Twitter?  
From your phone? Click here.



**towerbridge**

I am closing after the SB Gladys has passed downstream.

about 2 hours ago from @t

I am opening for the SB Gladys, which is passing downstream.

about 2 hours ago from @t

After the Tug to Seabourn Pride has passed

Name Tower Bridge  
Location London  
Web <http://www.towerb>  
Bio photo from  
<http://flickr.com/photos/3286mc> made  
by tom armitage  
<http://flickr.com/photos/3286mc>

12 2,196

following followers

Tweets 2,828

7 profiles

Following



Least T



# Remote Publishing of Information

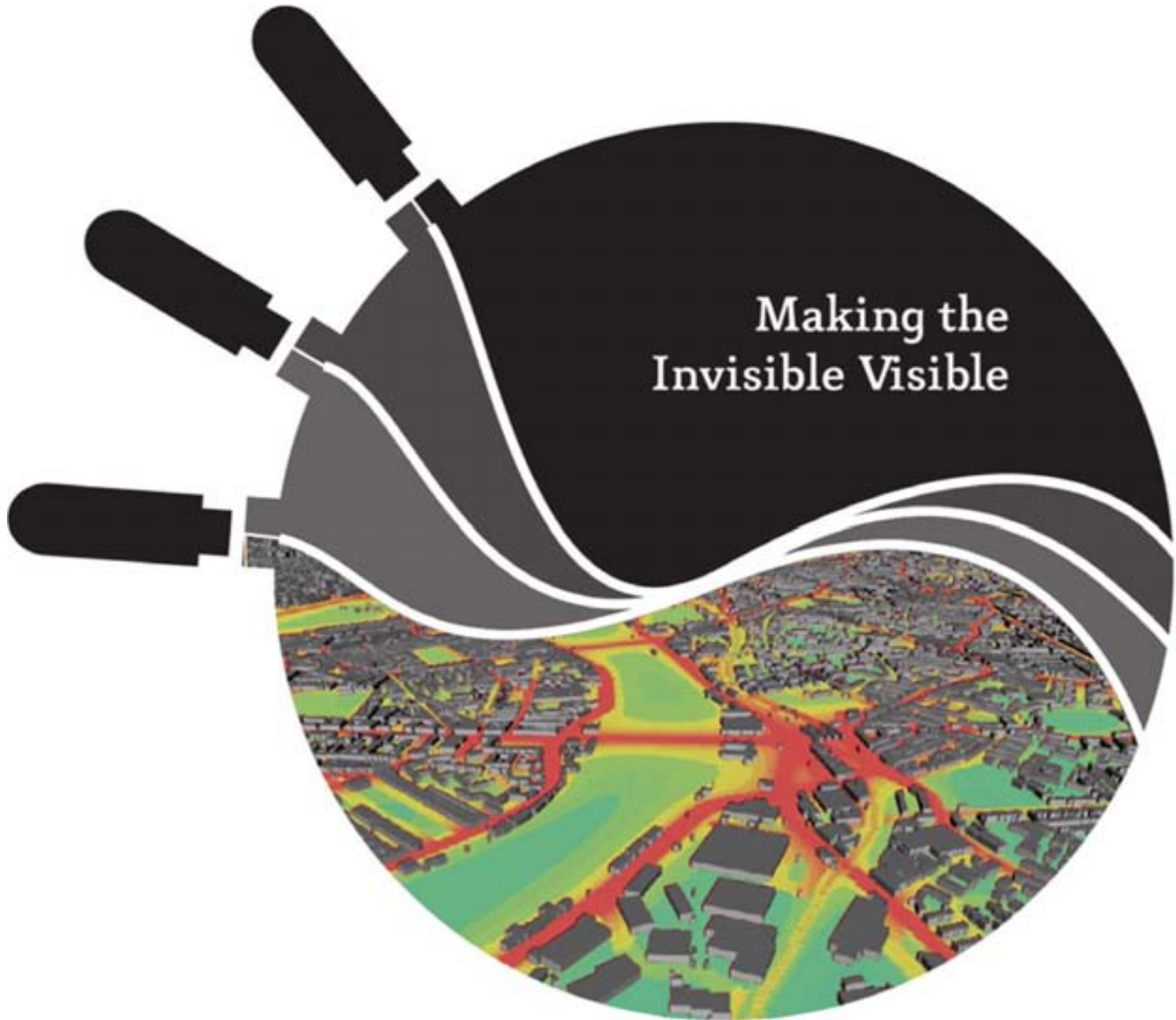


Exploring Evolution  
Through Time

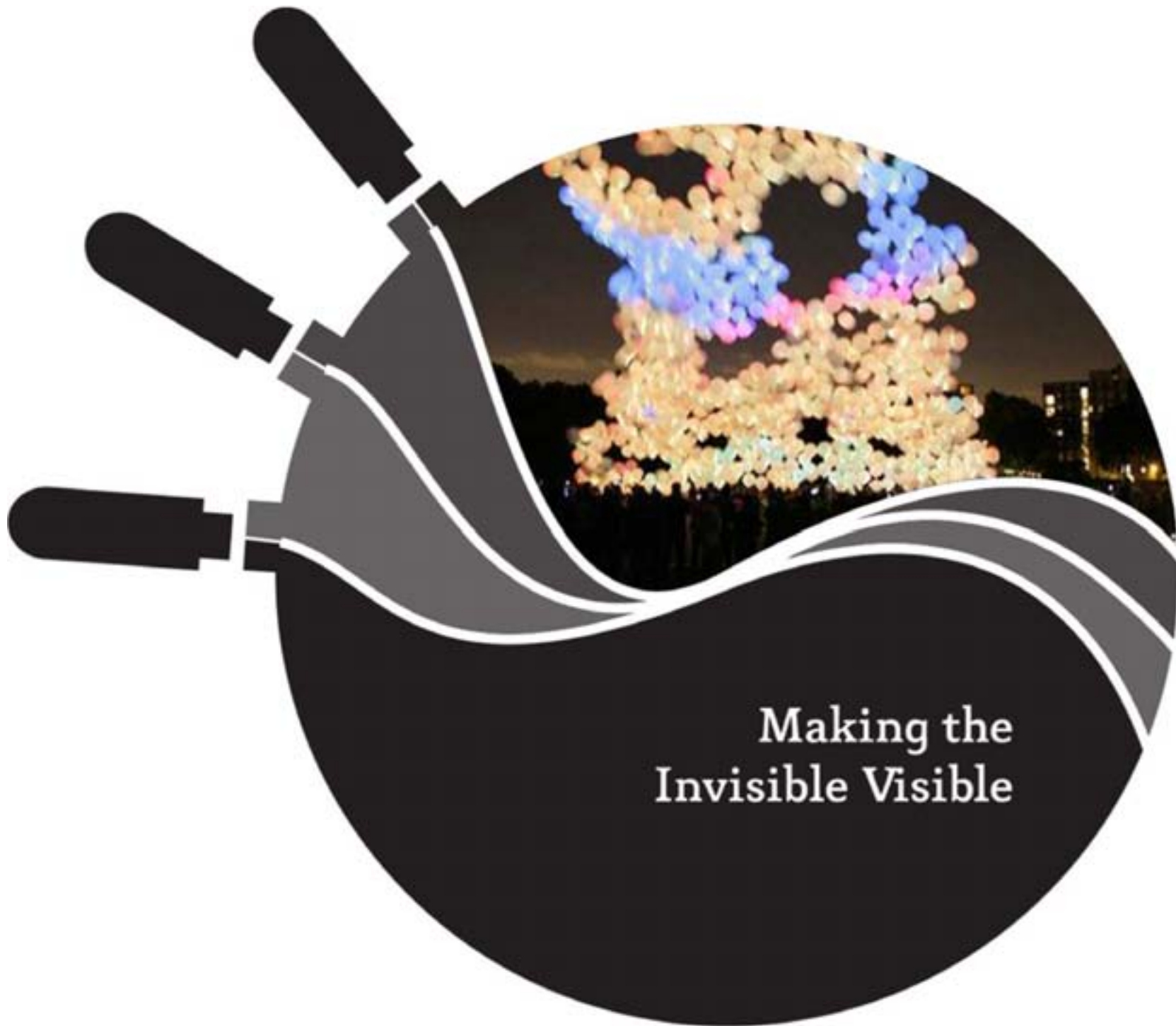


1970

Making the  
Invisible Visible



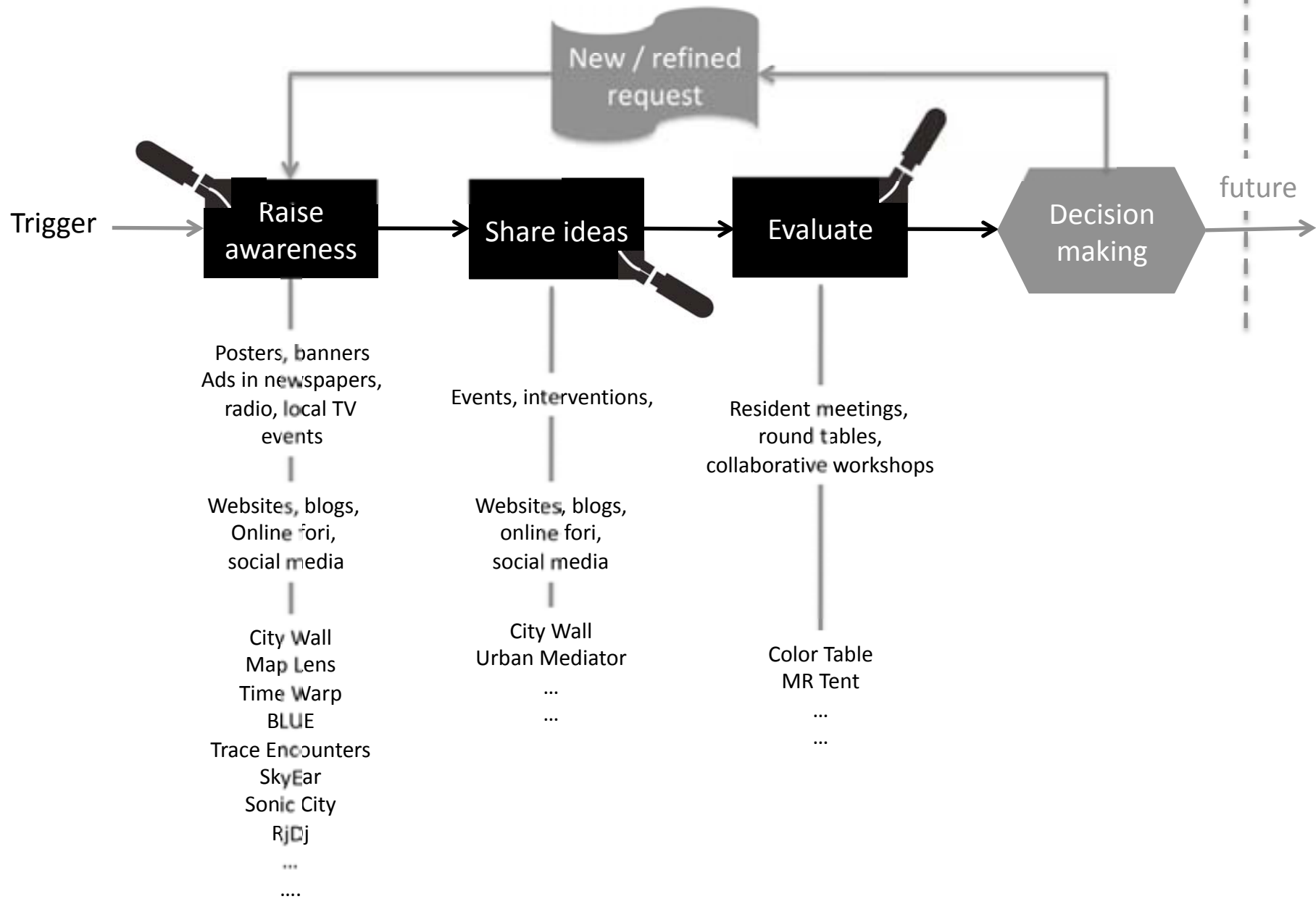




Making the  
Invisible Visible



# The process of stakeholder participation







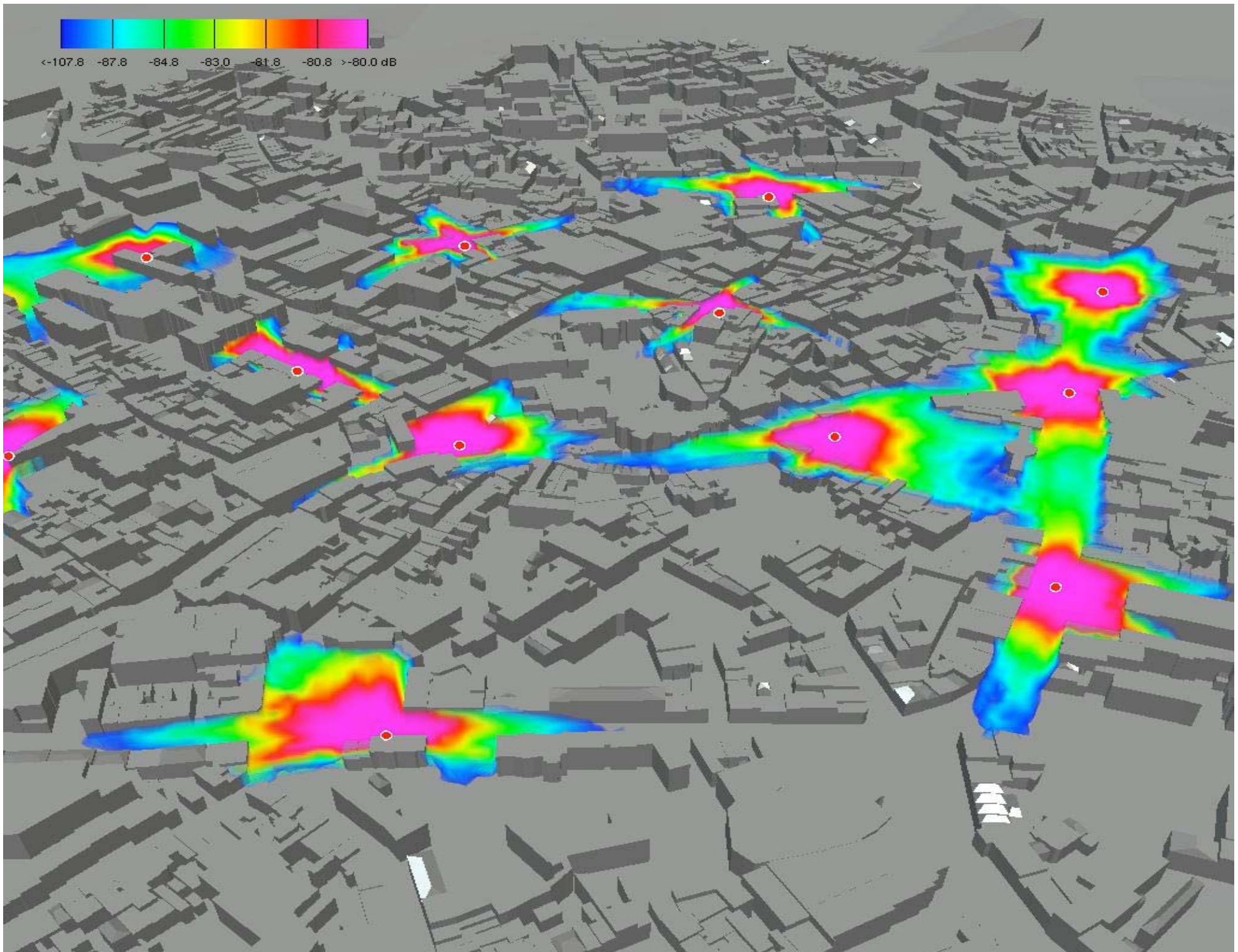
Two new conceptual proposals plugged into the framework:

- Proposal by Ming , software engineer and Tobias, HCI researcher: AR/CG-based tools to support adressing urban issues
- Proposal by Christoph, HCI researcher: sub flow

# Pedestrian Flow in Urban Environment

- Motivation
  - People are attracted by different elements(e.g. sightseeing spots, restaurants) in a region, like magnet to particles.
  - Simulate the “magnetic field” or “attractive field” of different spots to evaluate the pedestrian traffic.
- Application examples
  - Accessibility evaluation
  - Estimation of attraction of certain spots, e.g. shop, restaurant







# Exploring Future

- City exploring simulator, visualization of the city plan
- Exploring the future in different views, e.g. pedestrian, giant, fish or bird
- Sharing suggestions and comments





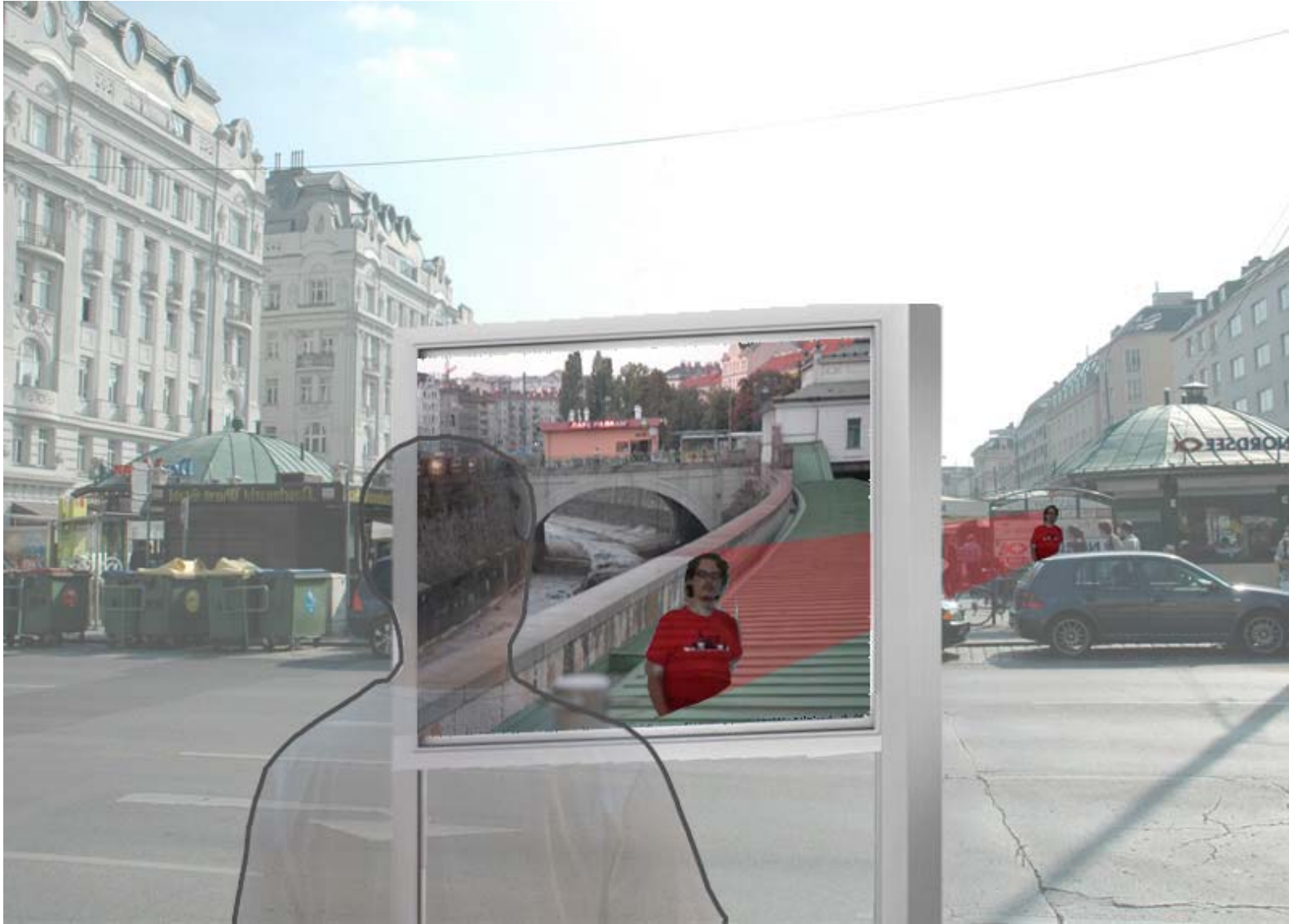




# Future Postcard

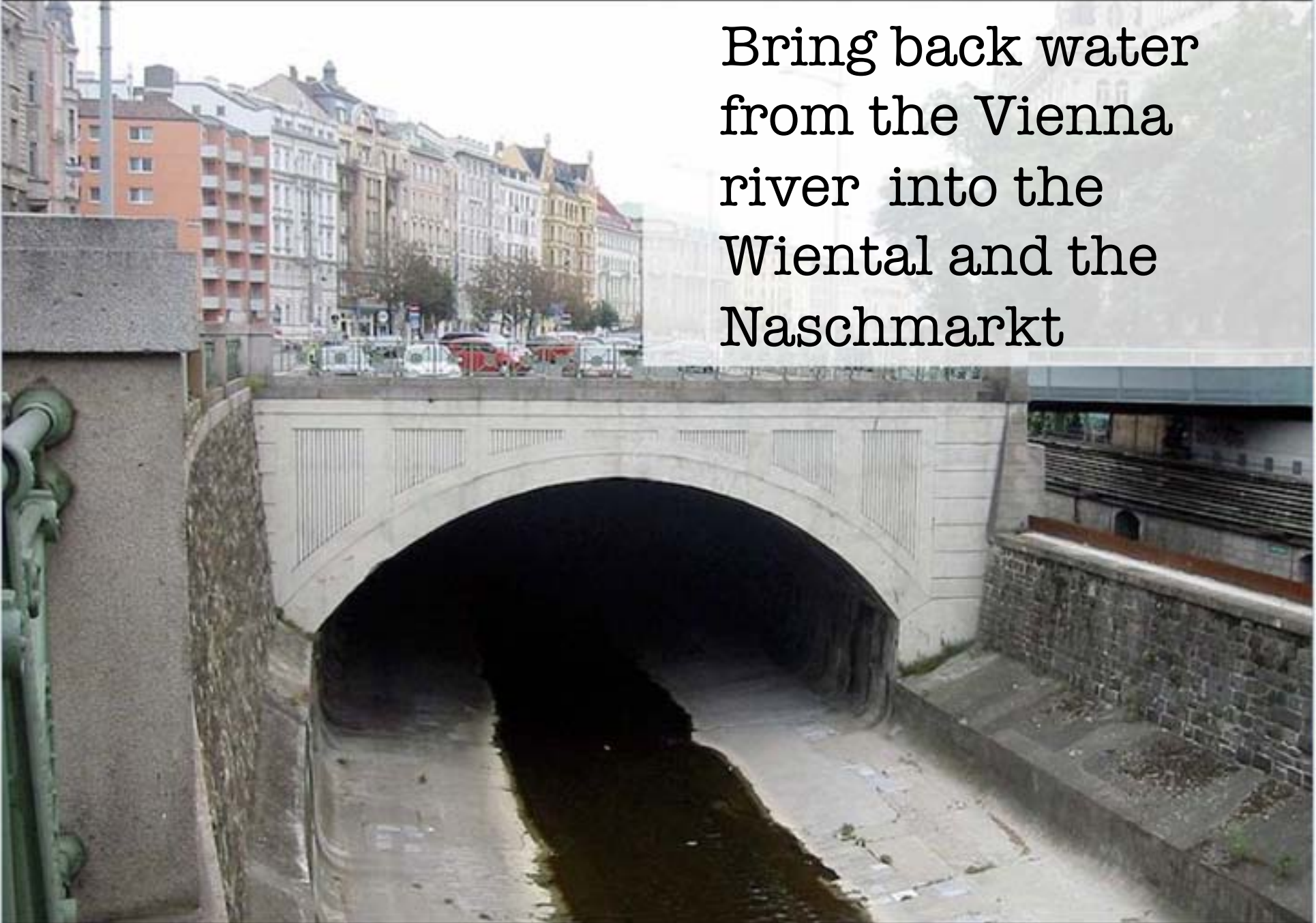


- Augmented Reality Scene, video-see-through.





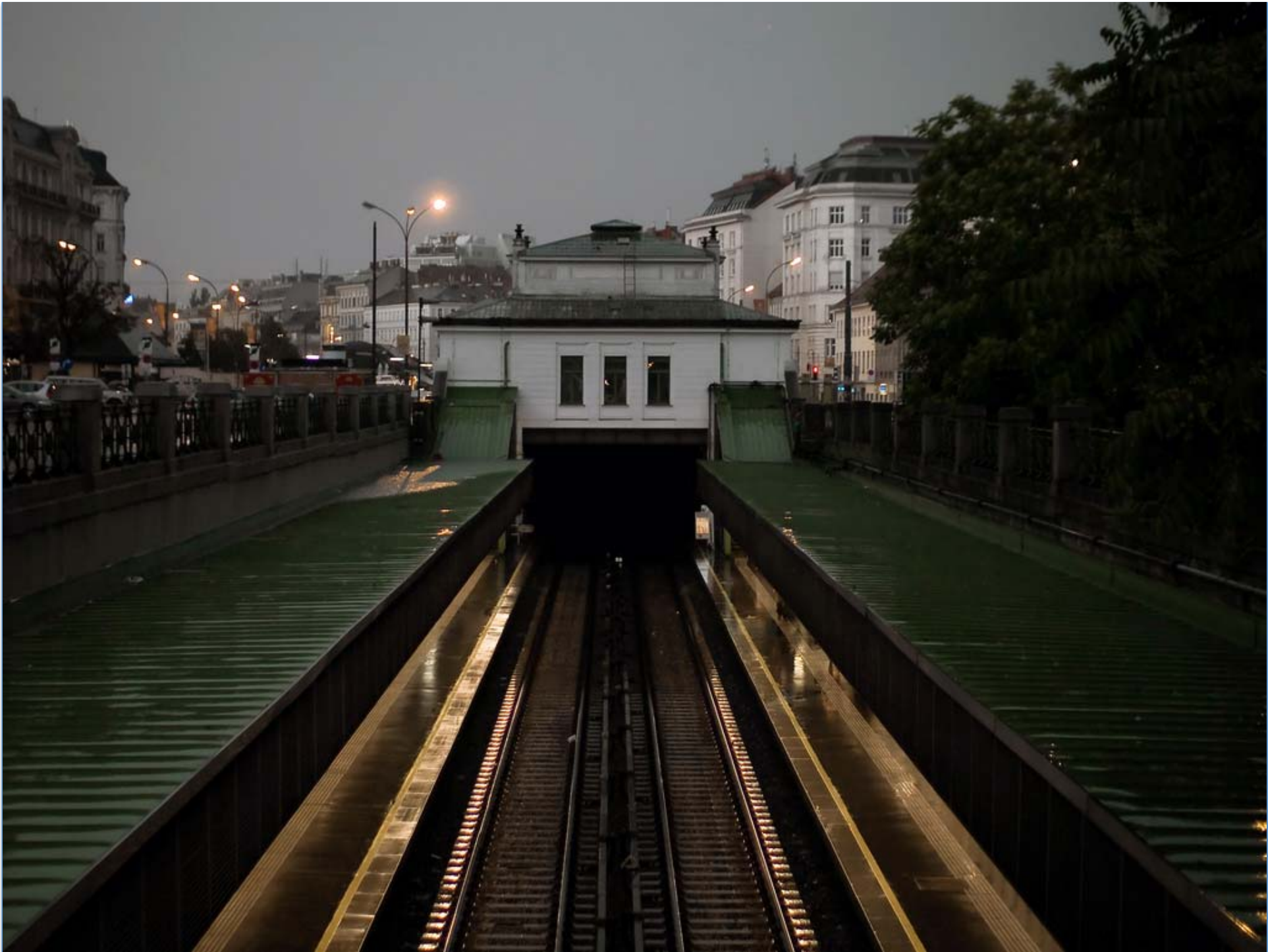
Bring back water  
from the Vienna  
river into the  
Wiental and the  
Naschmarkt













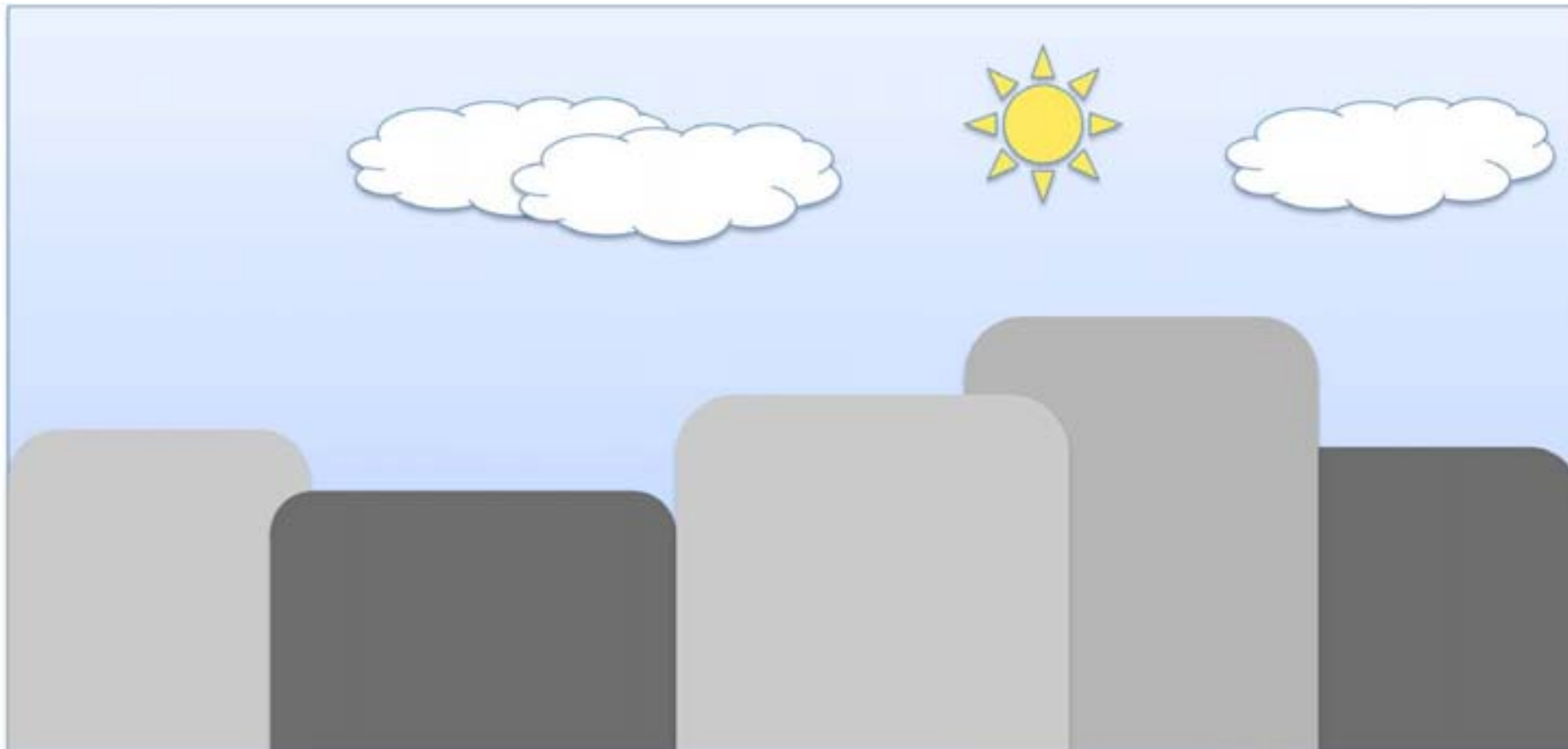












Water level  
Temperature  
Flow speed  
Water quality

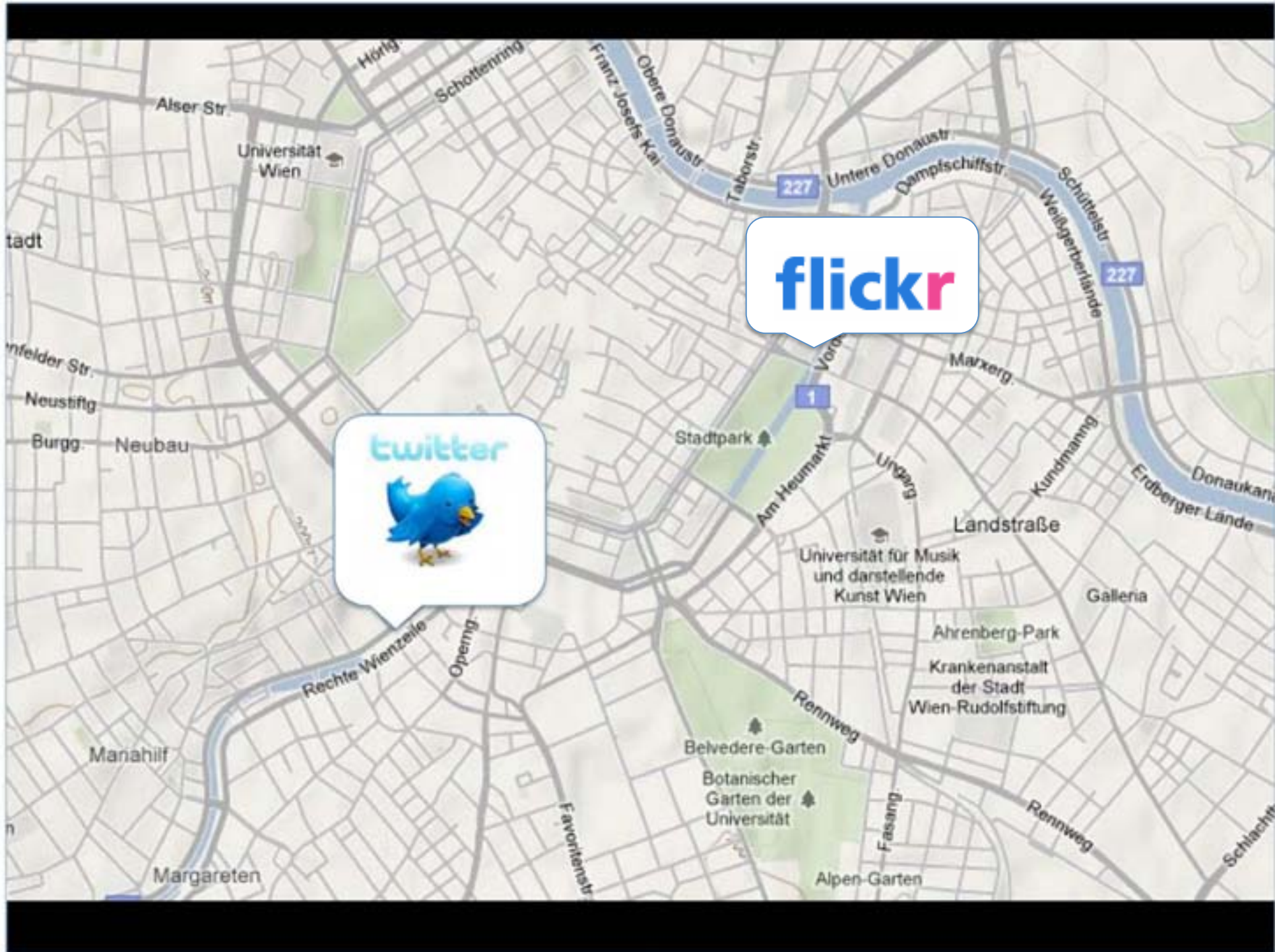




Daylight

Weather conditions

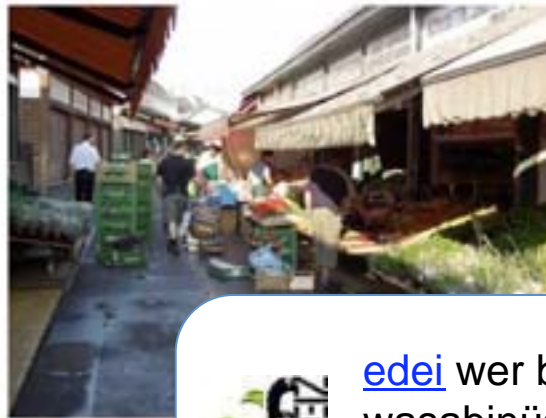
Seasonal changes



flickr

twitter

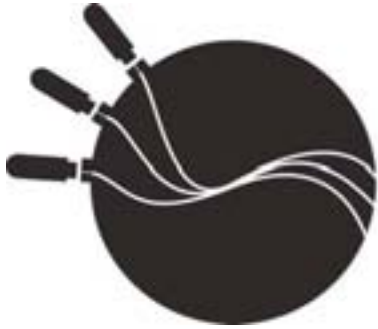




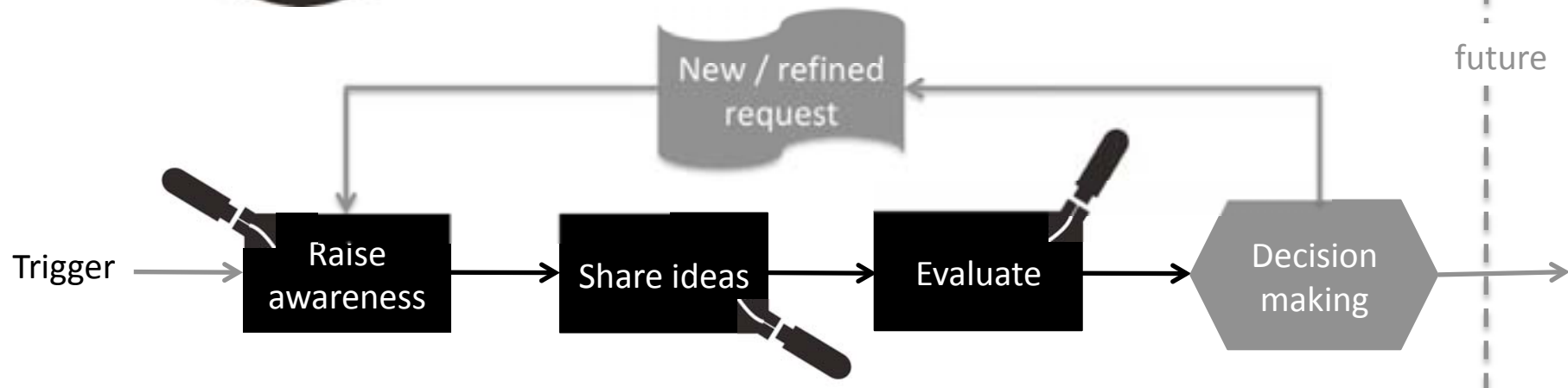
[macasso](#) At the **naschmarkt** at Dr. Falafel, just ate an olive filled with red pepper. Crying and hickups, never again!



[edei](#) wer bringt mir bitte wasabinüsse vom **naschmarkt** mit zum almcamp? ;-)  
\*liebdreinschau\* [#alm09](#) [#fb](#)



# PLUG IN PARTICIPATION



## DISCUSSION

- Stakeholder participation becomes part of everyday life, as an ongoing process that makes use of digital and non-digital tools
- Issues of inter-operability
- Platform for participation and developing creative solutions in both technology development and business models