



# PROGRAMME OF TODAY

## Lectures

10.00-11.30

Marketta Kyttä: Knowledge from people in urban planning & design

Tiina Rinne: Preparation of PPGIS data for analysis (online)

LUNCH

12.30-14.00

Tiina Rinne: Various levels of PPGIS data analysis (online)

Marketta Kyttä: The online and onsite analysis of PPGIS data

# TODAY

HOW TO USE DATA  
COLLECTED FROM PEOPLE?

## SECOND GROUP WORK STARTS

Formation of new, smaller groups

Traditional ways to gather knowledge from people



Public hearings



Interviews



Surveys



Observations

# KNOWLEDGE FROM PEOPLE IN URBAN PLANNING & DESIGN

CRITERIA FOR GOOD LIVING ENVIRONMENT?

*Safe*

*Sense of community*

*Close to nature*

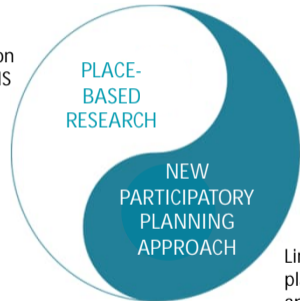
*Peaceful*

*Dog friendly*

*Cozy*

## WHY "SOFTGIS" KNOWLEDGE?

The analysis of "soft" geographical information together with "hard" GIS knowledge



Linking the user knowledge to planning and design solutions and making large-scale participation possible

## PLACE-BASED PERSON-ENVIRONMENT RESEARCH

SoftGIS knowledge layers

HardGIS knowledge layers



## SOFTGIS STORY

IDEA:  
New methodology for person-environment research and participatory urban planning

1990's

THE FIRST SOFTGIS PROTOTYPES  
Technical development by students



2005

TAILORED SOFTGIS SURVEYS  
Technical development by Aalto employees



2008

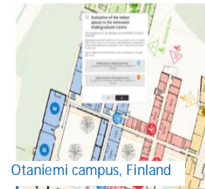
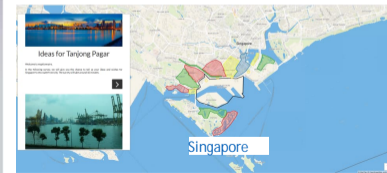
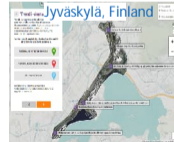
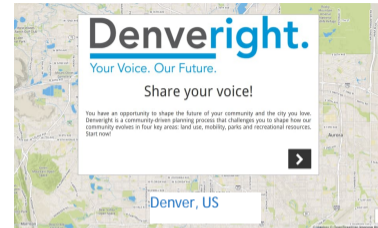
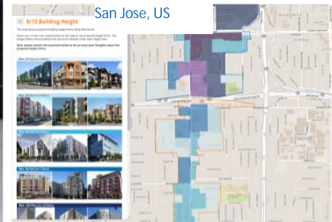
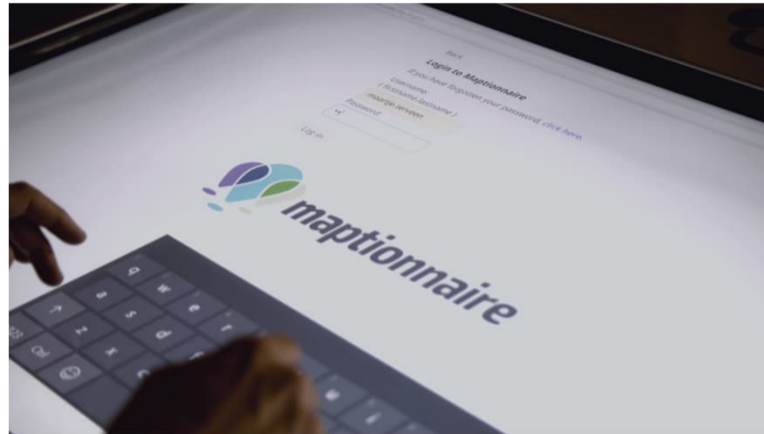
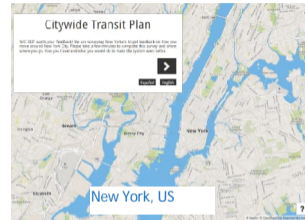
MAPTIONNAIRE SERVICE:  
TOOLS FOR CREATING, PUBLISHING & ANALYZING PPGIS  
Technical development and upkeep by Mapita Ltd



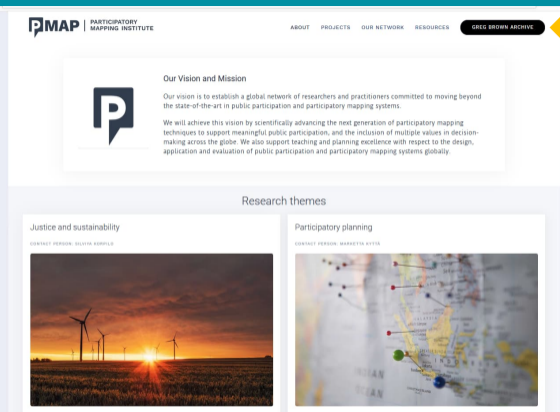
2011

2018

# EXAMPLES OF MAPIIONNAIRE PROJECTS



# Professor Gregory Brown



**PMAP** | PARTICIPATORY MAPPING INSTITUTE

ABOUT PROJECTS OUR NETWORK RESOURCES **GREG BROWN ARCHIVE**

## Our Vision and Mission

**P**


Our vision is to establish a global network of researchers and practitioners committed to moving beyond the state-of-the-art in public participation and participatory mapping systems.

We will achieve this vision by scientifically advancing the next generation of participatory mapping techniques to support meaningful public participation, and the inclusion of multiple values in decision-making across the globe. We also support teaching and planning excellence with respect to the design, application and evaluation of public participation and participatory mapping systems globally.

## Research themes


### Justice and sustainability

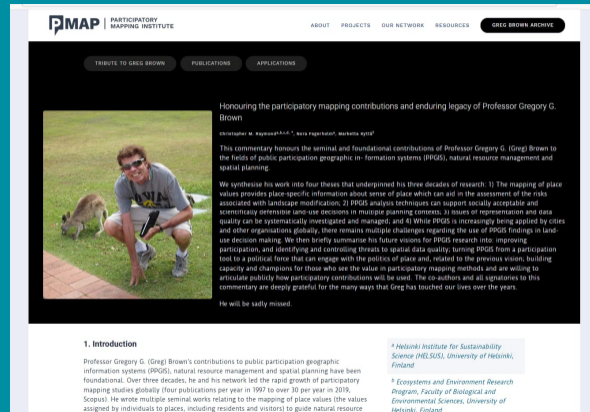
CONTACT PERSON: SILVIA KORHONEN



### Participatory planning

CONTACT PERSON: MARKETA KYTTA





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ABOUT PROJECTS OUR NETWORK RESOURCES **GREG BROWN ARCHIVE**

TRIBUTE TO GREG BROWN PUBLICATIONS APPLICATIONS

## Honouring the participatory mapping contributions and enduring legacy of Professor Gregory G. Brown

christopher m. kaye<sup>1,2,3,4</sup>, marketa kyttä<sup>3</sup>, marketa kyttä<sup>3</sup>

This commentary honours the seminal and foundational contributions of Professor Gregory G. (Greg) Brown to the fields of public participation geographic information systems (PPGIS), natural resource management and spatial planning.

We synthesise his work into four theses that underpinned his three decades of research: 1) The mapping of place values provides place-specific information about sense of place which can aid in the assessment of the risks associated with landscape modification; 2) PPGIS analysis techniques can support socially acceptable and scientifically defensible land-use decisions in multiple planning contexts; 3) Issues of representation and data quality can be systematically investigated and managed; and 4) While PPGIS is increasingly being applied by cities and other organisations globally, there remains multiple challenges regarding the use of PPGIS findings in land-use decision making. We then briefly summarise his future visions for PPGIS research into: improving participation, and identifying and controlling threats to spatial data quality; turning PPGIS from a participation tool to a political force that can engage with the politics of place and, related to the previous vision, building capacity and champions for those who see the value in participatory mapping methods and are willing to articulate publicly how participatory contributions will be used. The co-authors and all signatories to this commentary are deeply grateful for the many ways that Greg has touched our lives over the years.

He will be sadly missed.

### 1. Introduction

Professor Gregory G. (Greg) Brown's contributions to public participation geographic information systems (PPGIS), natural resource management and spatial planning have been foundational. Over three decades, he and his network led the rapid growth of participatory mapping studies globally (four publications per year in 1997 to over 30 per year in 2019, Scopus). He wrote multiple seminal works relating to the mapping of place values (the values assigned by individuals to places, including residents and visitors) to guide natural resource

<sup>1</sup> Helsinki Institute for Sustainability Science (HELSUS), University of Helsinki, Finland

<sup>2</sup> Ecosystems and Environment Research Program, Faculty of Biological and Environmental Sciences, University of Helsinki, Finland

FROM CHILDREN ...

Quite okey place for biking!

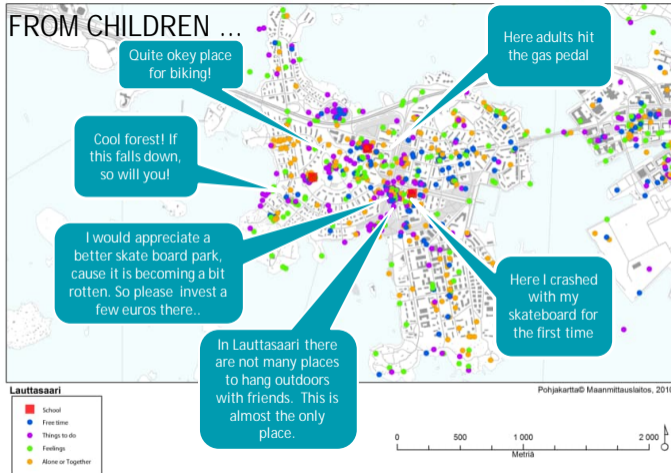
Cool forest! If this falls down, so will you!

I would appreciate a better skate board park, cause it is becoming a bit rotten. So please invest a few euros there..

In Lauttasaari there are not many places to hang outdoors with friends. This is almost the only place.

Here adults hit the gas pedal

Here I crashed with my skateboard for the first time

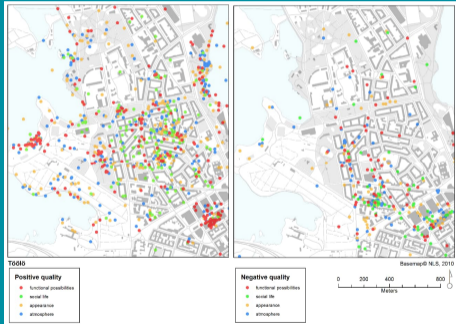


# CONTEXT SPESIFIC KNOWLEDGE FROM PEOPLE

... AND FROM PEOPLE USING VARIOUS LANGUAGES



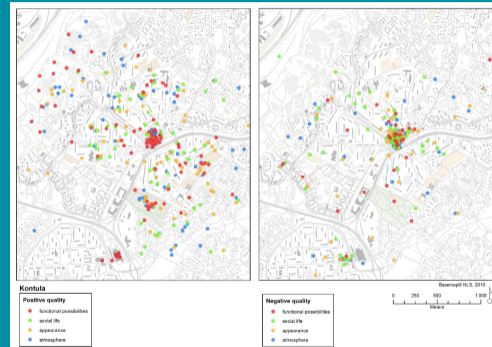
Locally sensitive research knowledge about the strengths and weaknesses of an area



Kyttä, M. Broberg, A. Tzoulas, T. & Snabb, K. (2013) Towards contextually sensitive urban densification: location-based softGIS knowledge revealing perceived residential environmental quality. *Landscape and Urban Planning*, Vol 113, May 2013 , 30-46.

# KNOWLEDGE THAT CAN BE USED IN PLANNING

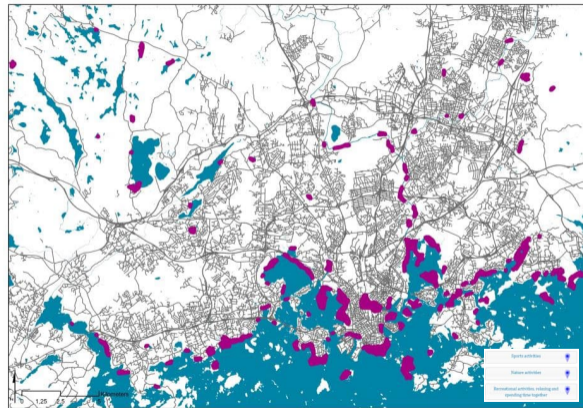
Useful knowledge for urban infill projects?





“My activities by the water” -survey

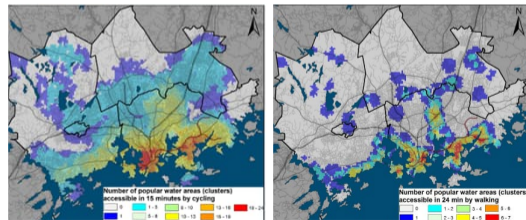
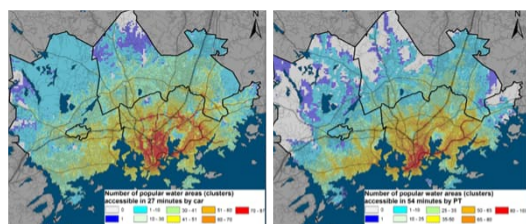
Enjustess research project



## DIAGNOSTIC KNOWLEDGE?



Equal accessibility of places by the water with various travel modes



More about this topic  
during the lecture on 14.2

## IDENTIFICATION OF VARIOUS INHABITANT GROUPS



More about this topic  
during the lecture next week

WHAT PEOPLE  
VALUE VS. WHAT  
IS GOOD FOR  
THEM



More about this topic  
in my course  
"Participatory Planning"

## LARGE-SCALE AND INFLUENTIAL PUBLIC PARTICIPATION



Interreg Baltic Sea Region

HOME BEFORE YOU START PARTICIPATORY TOOL-KIT PROJECT & TEAM

## Hupmobile *Participatory.Tools* Tool-KIT

Search...

Basic Categories

- Mode of communication
- Group size
- Geographical scope
- Skills of the participants
- Resources: Time & Money
- Planning phase
- Level of involvement

Additional Criteria

- Staffans 2 dimensions
- Enabling methods

**Big Room**

A special case of the Living lab. Large space, where the stakeholders could gather together and experiment with the different formats of collaboration. Typically it is...

**Concept mapping**

Conceptual mapping is a process of visually representing and organising ideas and relationships between them, creating a concept map. A concept map typically represent...

**Decision Theatre**

A Decision Theatre is a facility that has immersive equipment to illustrate plans and visualise data for planners, stakeholders, researchers, and citizens. With the he...

**Design Charrette**

An intensive, hands-on workshop that brings people from different disciplines and backgrounds together with members of the community to explore design options for a pa...

# DIGITAL PARTICIPATION

## VARIOUS METHODS FOR PARTICIPATORY PLANNING

Please visit: <https://participatory.tools/>

16 Analog (traditional) methods

16 Digital methods

## PUBLIC PARTICIPATION GIS (PPGIS) DATA: VARIOUS LEVELS OF USER KNOWLEDGE

### BACKGROUND INFORMATION

- Age
- Gender
- Tenure
- Education
- Income
- Etc.

1

General knowledge about individual preferences, lifestyles, attitudes or values

2

Place-based knowledge about:

- individual preferences, attitudes or values
- individual behavior, lifestyles and everyday practices
- environmental phenomenon and problems (citizen science)

3

Place-based knowledge about individual future wishes, visions and preferences

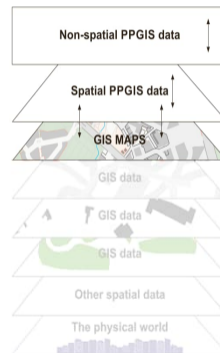
### OUTCOME VARIABLES

- Neighbourhood satisfaction
- Quality of Life
- Perceived Health
- Happiness
- Etc.

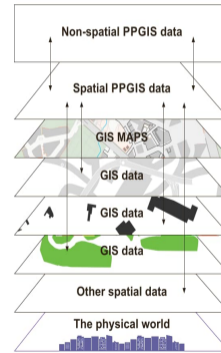
# THE COLLECTION AND ANALYSIS OF PLACE-BASED KNOWLEDGE

## MULTILAYER ANALYSIS POSSIBILITIES

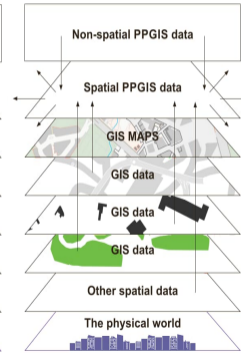
### EXPLORE



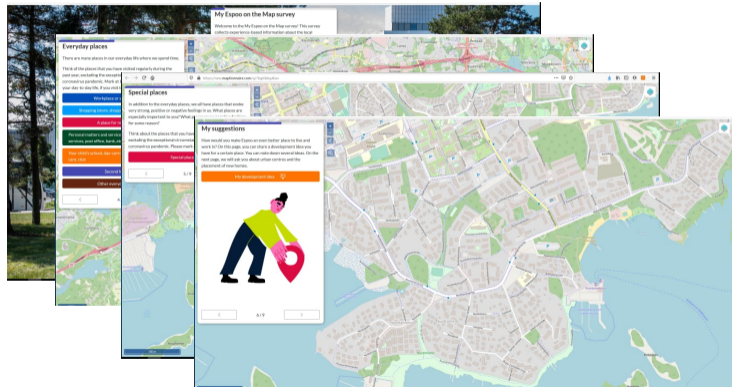
### EXPLAIN



### PREDICT



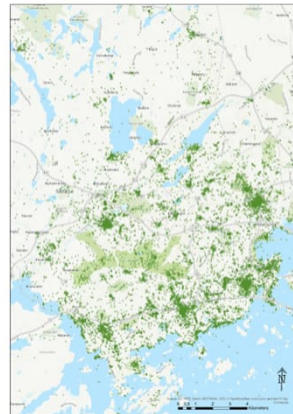
# My Espoo on the Map -survey



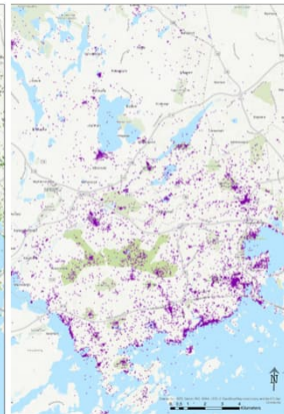
## The dataset: My Espoo survey

Number of participants = 4182  
Number of locations = 53810

### Everyday places



### Special places



**NOW**

LET'S WELCOME TIINA!