

CITY RHYTHM VALIDATION DAY



Rhythm as a New Approach for Policy Making

Den Haag



Zaanstad



Helmond



Rotterdam



Zoetermeer



Amsterdam



Previous Research, Escamp Den Haag

Rhythm and Social Safety

New Paradigm of Human Experience

Homo Mensura
(human being as measure of all things)



Homo Mensurabilis
(measurable human being)



Humanitas Mensurabilis
(measurable human kind)

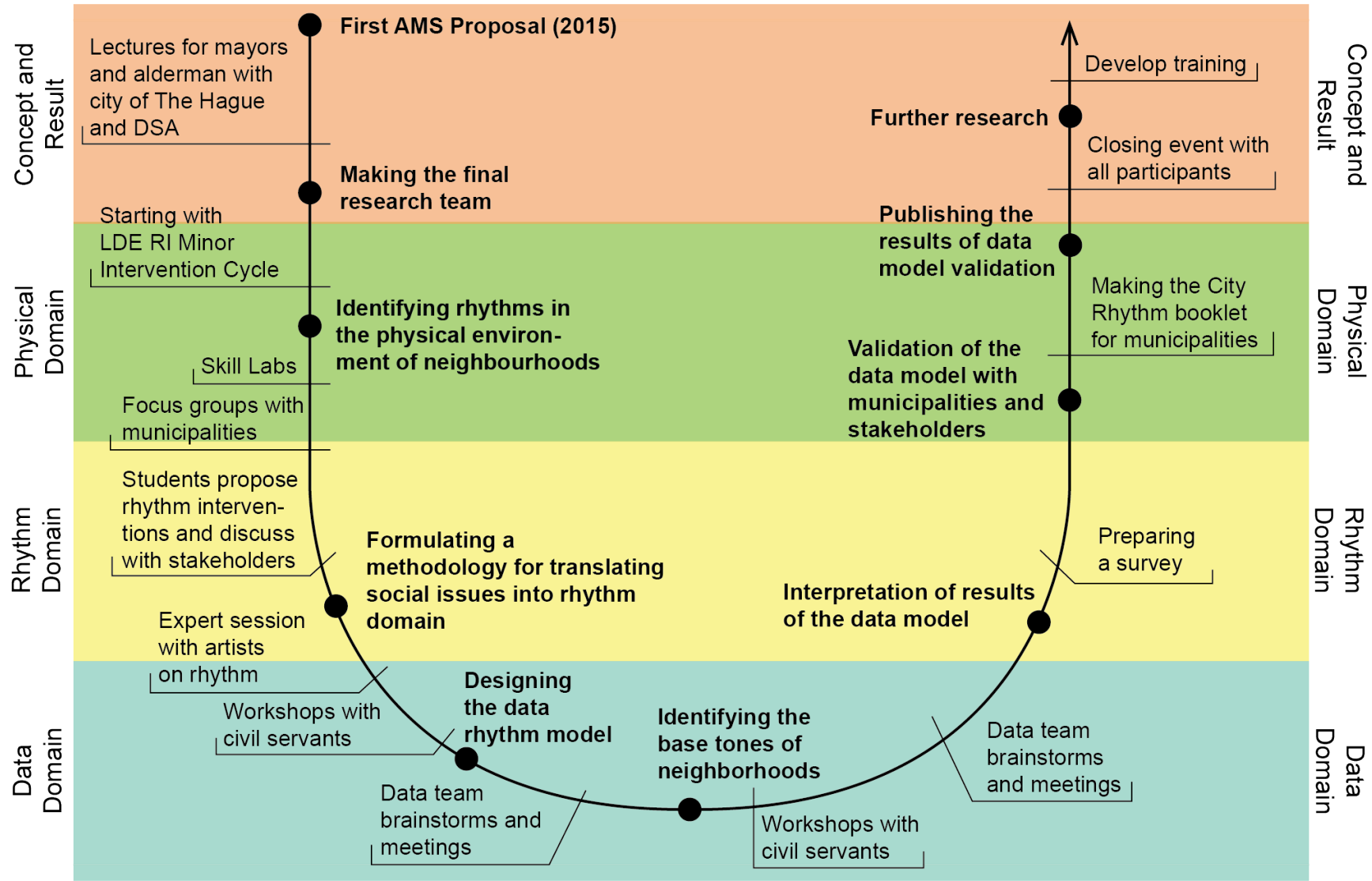
Communities of Systems and People

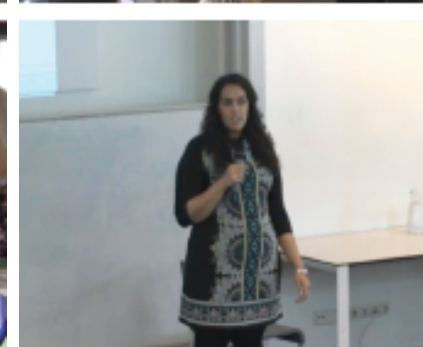
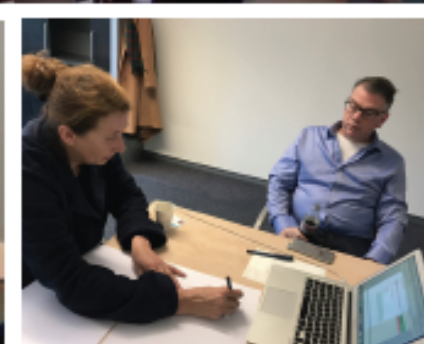
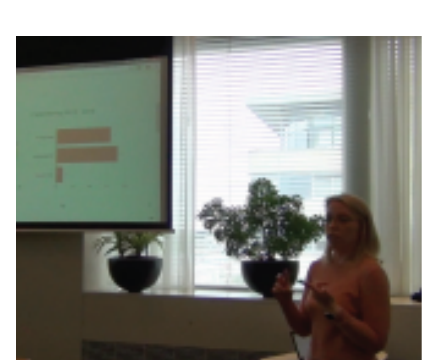
High Trust  Low Trust

Participatory  Surveillance

Evolving Meta Design Paradigm

Research Design





Focus Groups

Data group



Brainstorm Translating Social issues into rhythm, identifying data sets and understanding which social issues they shed light on

Deixes
Counting the movement
taxi info
Display?
Goa info (cycle paths, walking trails)
Pollution plants (potassium stored)
Pollute data (landfill)
CBS (number of cars/requests)
Counting
English transport, 5/102
Counting how many people get off
SHIELD
CRM
GPS
Functions
count
CRM
Funda (sales + prices)
CRM
CRM users data
CRM, social status file
social tax data
Income quality
Caravans (car hire info)



**How do data support policymaking today?
How can Rhythm Analyses help?**

CURRENT

- Focus on Open data
- No connection to policymaking
- Supply driven
- Target group is broad
- Resistance for privacy reasons

POTENTIAL

- Value of Data
- Good interpretation is central
- Data analyses supports understanding
- External and open connections
- Municipalities are now organizing themselves

Social group



Brainstorm on translating social issues into rhythm and identifying data sets that can be useful for the analysis

[illegible]

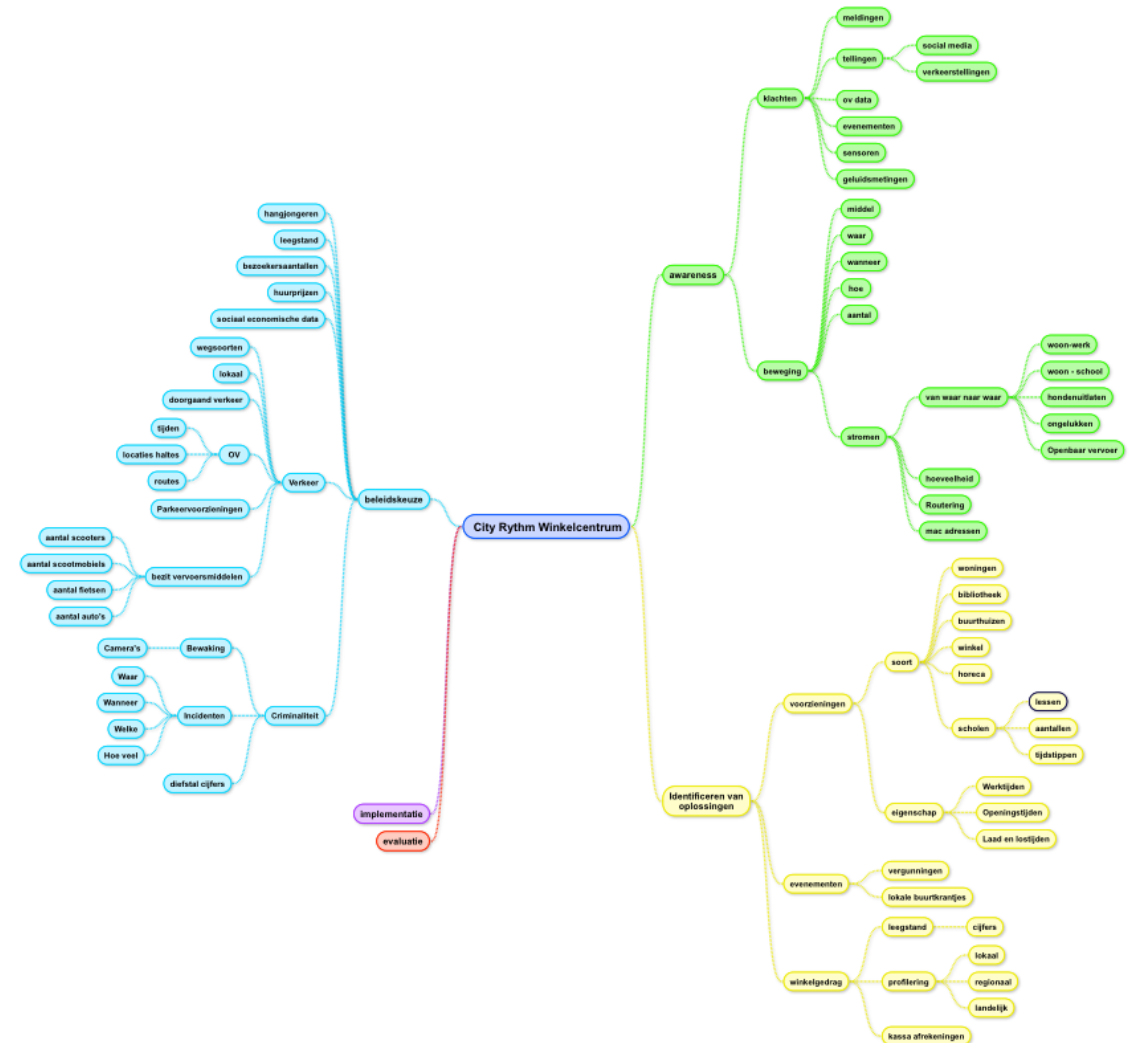
How does policymaking make use of data?
How can Rhythm Analyses help?

CURRENT

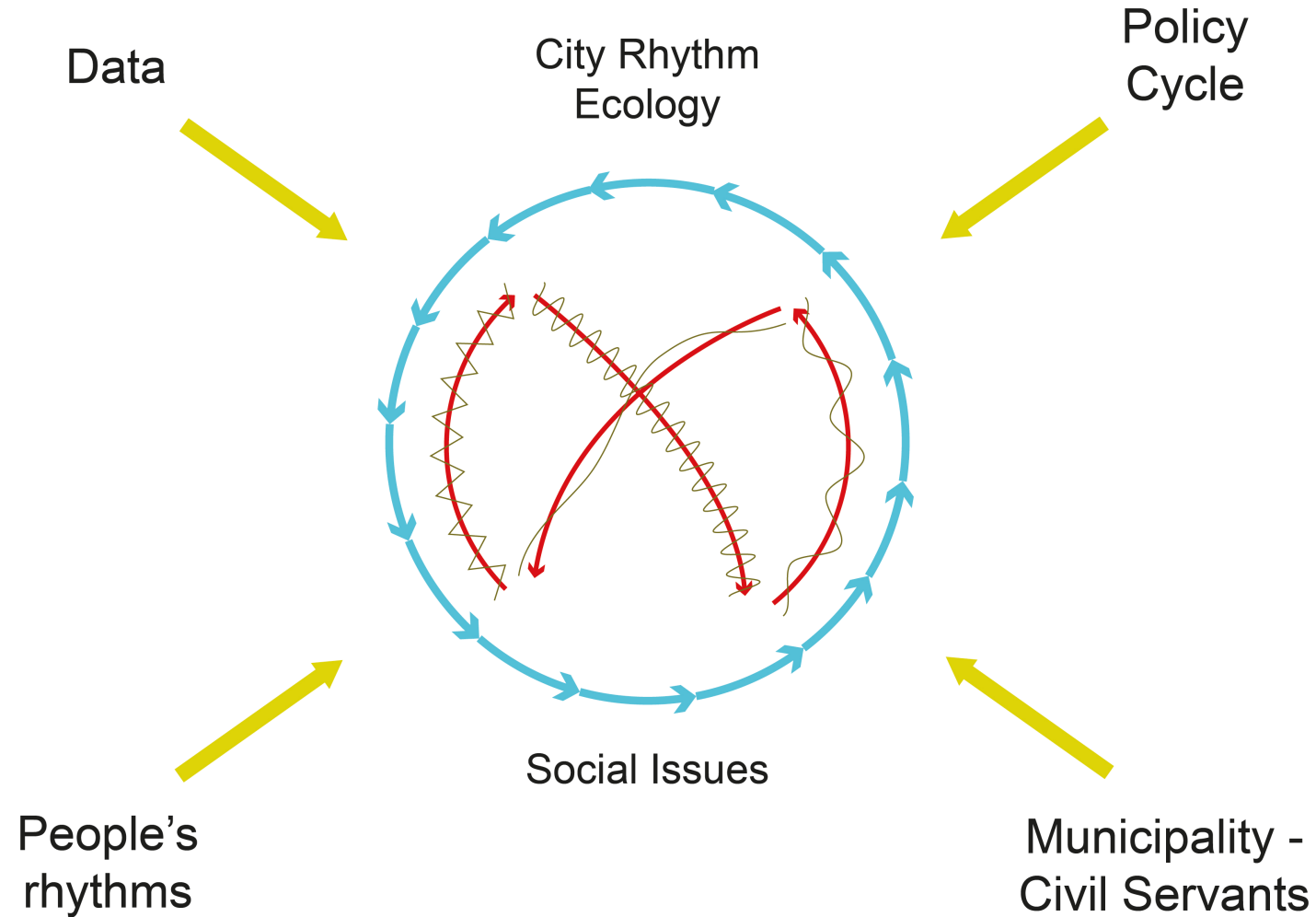
- Limited available data
- No data combinations
- Privacy prevents sharing
- No responsibility without policy document
- Too many thick reports

POTENTIAL

- Matching information municipality needs
- Control over different sources
- Sharing data
- Visualizations
- Anticipating new needs



Rhythm Ecology



Documenting the Research

TU Delft Open Research Platform

Wonder • Connect • Discover • Engage

For sharing research between students and professionals, in the field of Responsible Innovation, Sustainability, International Development & Entrepreneurship and Companies & Innovation.

Read more in the [About](#) page.

Blog

Blogpost

VENDING TRICYCLE CHALLENGE

9 May 2017

TU Delft tv: Vending Tricycle

Jasper Sauer went with...

Blogpost

2nd City Rhythm Conference // LDE Minor Responsible Innovation 2016-2017 Final SPG Presentations

27 Jan 2017

At the start of the Bubble

Blogpost

Starting Presentation @ The Hague City Hall 15 January 2017

20 Jan 2017

At the start of the Bubble

Blogpost

IED Students are leaving for their destinations!

17 Oct 2016

The minor International...

Blogpost

Observing our environment

30 Sep 2016

The City Rhythm Project

Blogpost

Visiting HNI

26 Sep 2016

We had an exciting program arranged for the

23 November 2016 - By:  Caroline Nevejan

AMS research meetings

[SWITCH TO: OVERVIEW](#) [ARTICLE](#) [COLLECTION](#)

Article

Data Meeting 07.07 @ Stadhuis Amsterdam

Data Team had a meeting with Caroline Nevejan (principle investigator) to validate the

Collection

City Rhythm Meeting 5 July

In this meeting, we presented the developments of data model (Delph 8), the exploratory results of the

Article

Data Meeting 22.06 @ AHTI

Data Team met in AHTI to discuss about the model proceedings and scheduled the preparations for the 5th of

Article

Data Meeting 12.06 @ Stadhuis Amsterdam

After the 7 June workshop, the data researchers met in order to discuss the developments

Collection

Meeting 07.06

City Rhythm Meeting 7 June

At Congresscentrum Amsterdam, the first impressions of the data rhythm model has been

Article

Data Meeting 20.04 @ AMS

Minutes of Meeting 20.04 @ AMS Attendees: Scott Cunningham, Lene Boehnke, Thijs M., Mark Verhaaren, Ruben

Article

Data Meeting 16.04

Collection

Meeting 05.04

Meeting 05.04.2017

Article

Data Meeting 08.03

Data Meeting 08.03

Collection

Meeting 13.01

Meeting 13.01.2017

Article

Data Team Meeting 22nd of December

Article

Meeting 07.12

AMS Researchers Meetine 7th

Article

Meeting 25.11

AMS and Municipalities

Article

25-11-2016 Datasets Assigned

Collection

Meeting 01.11

AMS Meetine 1st of November

COLLECTION

[ADMIN](#) [EDIT](#)

11 July 2016 - By:  Caroline Nevejan

City Rhythm

City Rhythm is one of our longterm research programs. The research is carried out by Delft University, AMS Institute and 6 cities in the Netherlands: Amsterdam, Rotterdam, Zaanstad, Den Haag, Helmond en Zoetermeer with the support of the "Digitale Steden Agenda", a network organisation around smart cities.

Student Project Groups of the LDE Minor Responsible Innovation participate in the research. Students study and explore rhythms and interventions in rhythms in the 6 different cities.

[ARTICLE](#) [COLLECTION](#)

Project

Civil Servants Communication Group

Project

AMS

AMSTERDAM INSTITUTE FOR ADVANCED METROPOLITAN SOLUTIONS

AMS Researchers

Welcome to the communication and collaboration group of the AMS Researchers.

Collection

Research Context: City Rhythm

The urban challenge we address in this research is to enhance the sense of security

Collection

FINAL SPG PRESENTATIONS

LDE Minor Responsible Innovation 2016-2017 Q2 Presentations

Collection

FINAL SPG PRESENTATIONS

Q1 SPG Presentations

Collection

POSTERS

Posters

Here are the posters that were exhibited on the 31st of October in TU Delft. The posters show the results of

Showcase

ZOETERMEER

Showcase: Zoetermeer

How can the sense of safety in the Bossen buurt be increased?

Showcase

HELMOND

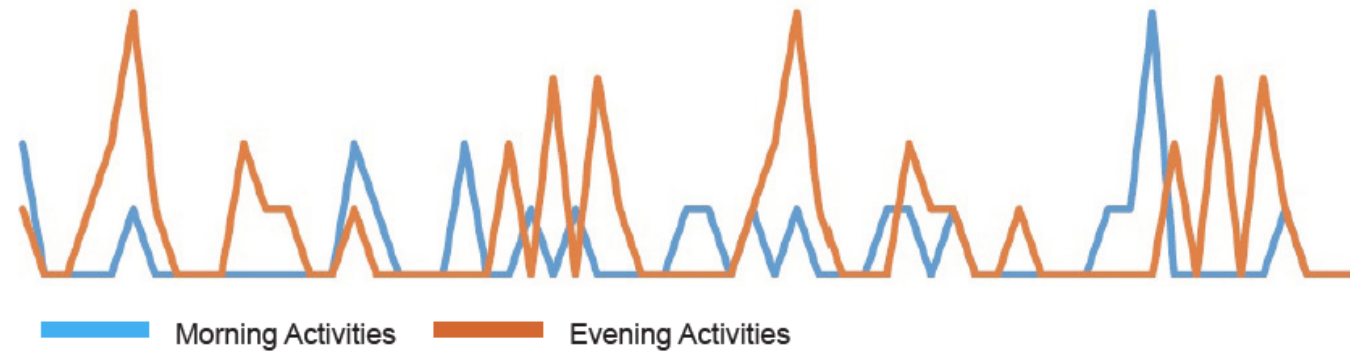
Showcase: Helmond

How can the sense of safety be improved in the specific neighborhood of Beisterveld?

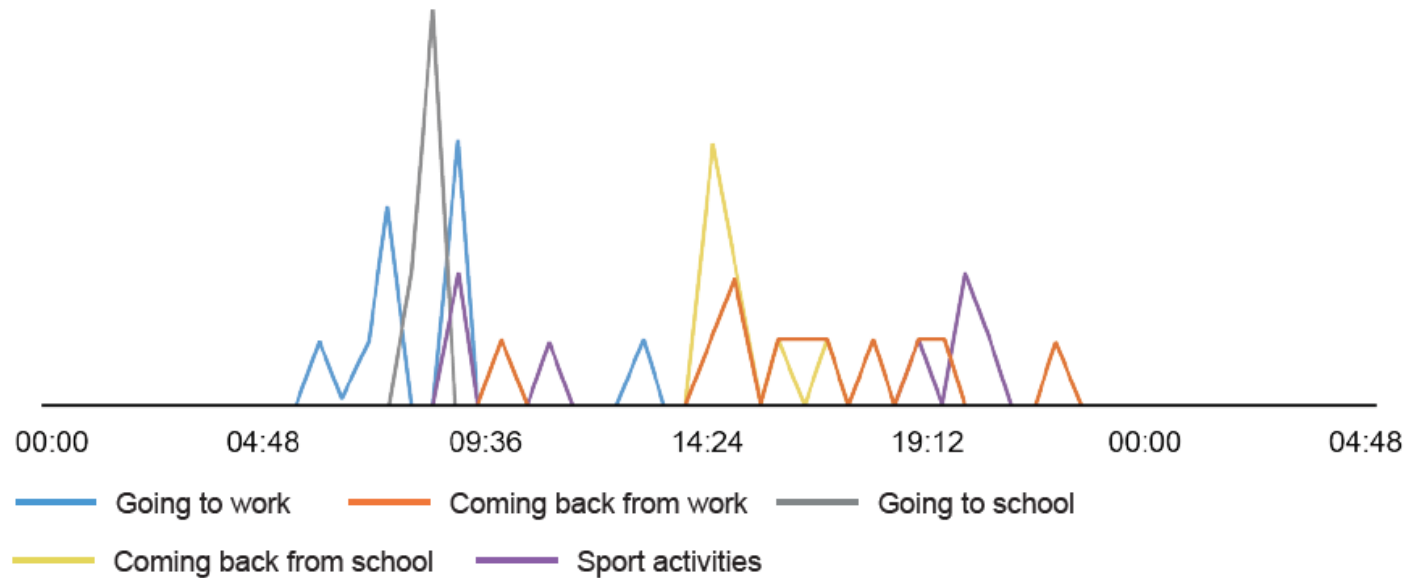
Case Studies with Students from LDE Responsible Innovation Minor



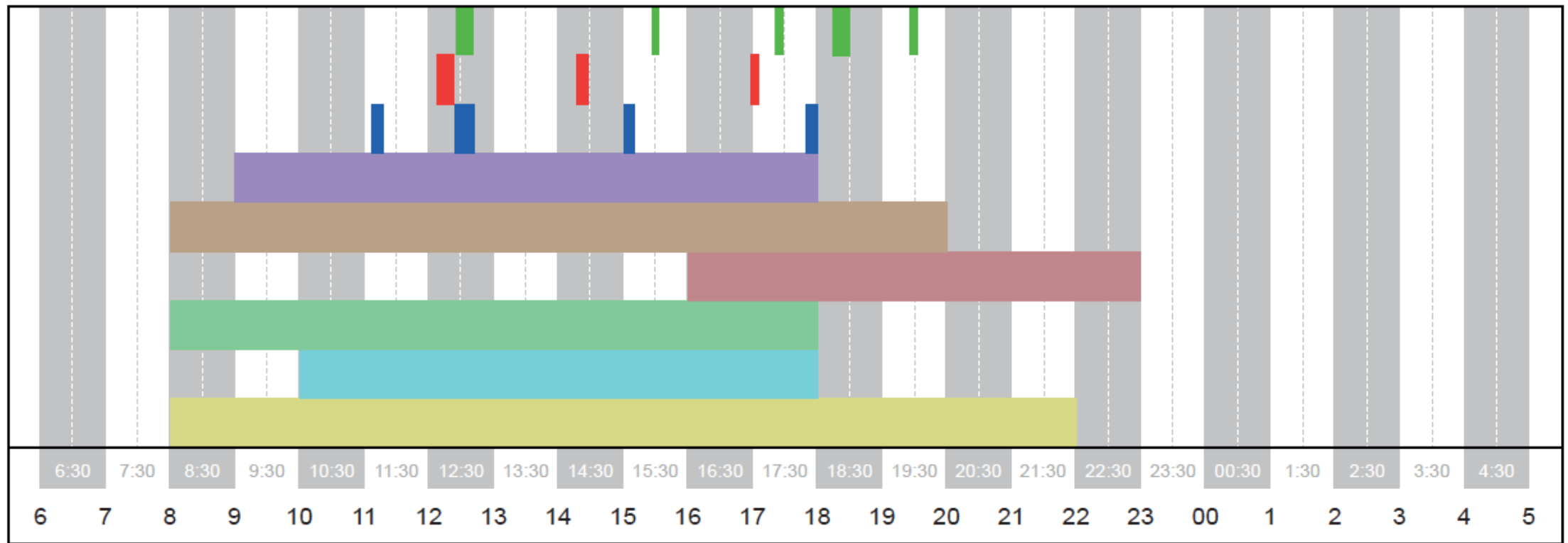
Helmond SPG: Quiet Rhythms



Helmond Image 4: Diagram showing the documentation of daily rhythms of Tulpstraat

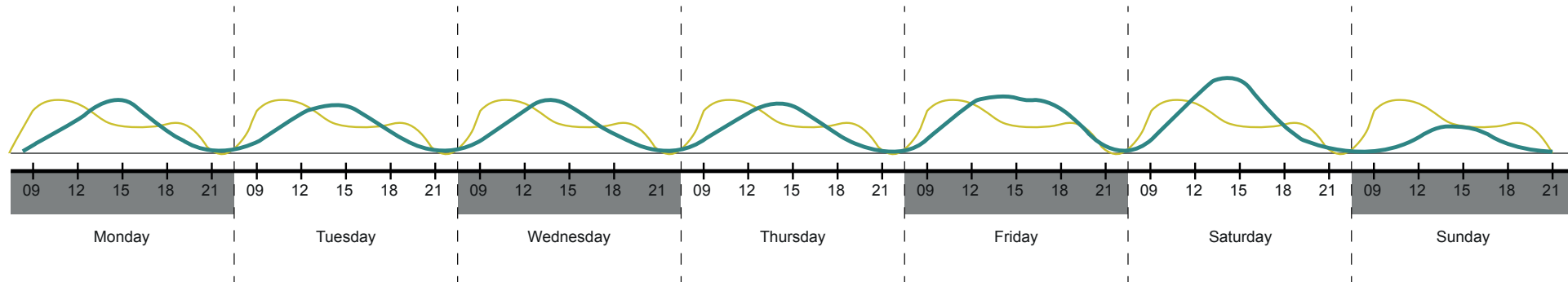


Zoetermeer SPG: Enhancing Rhythms

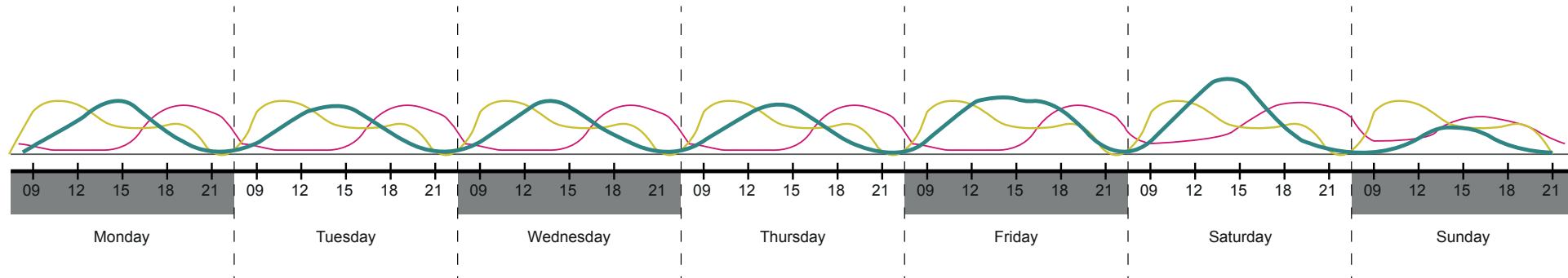


Rotterdam SPG: Tuning Rhythms

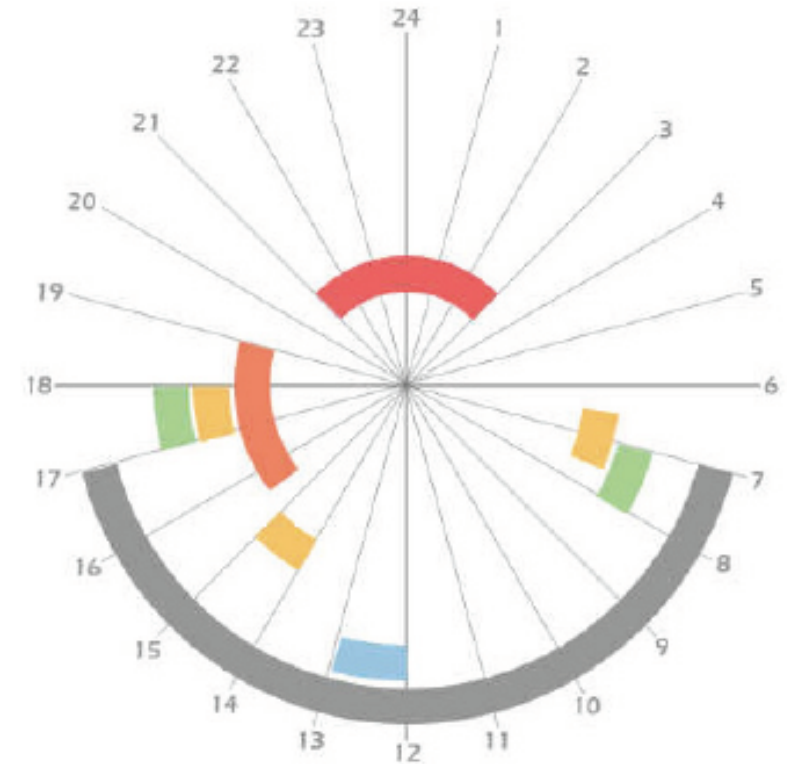
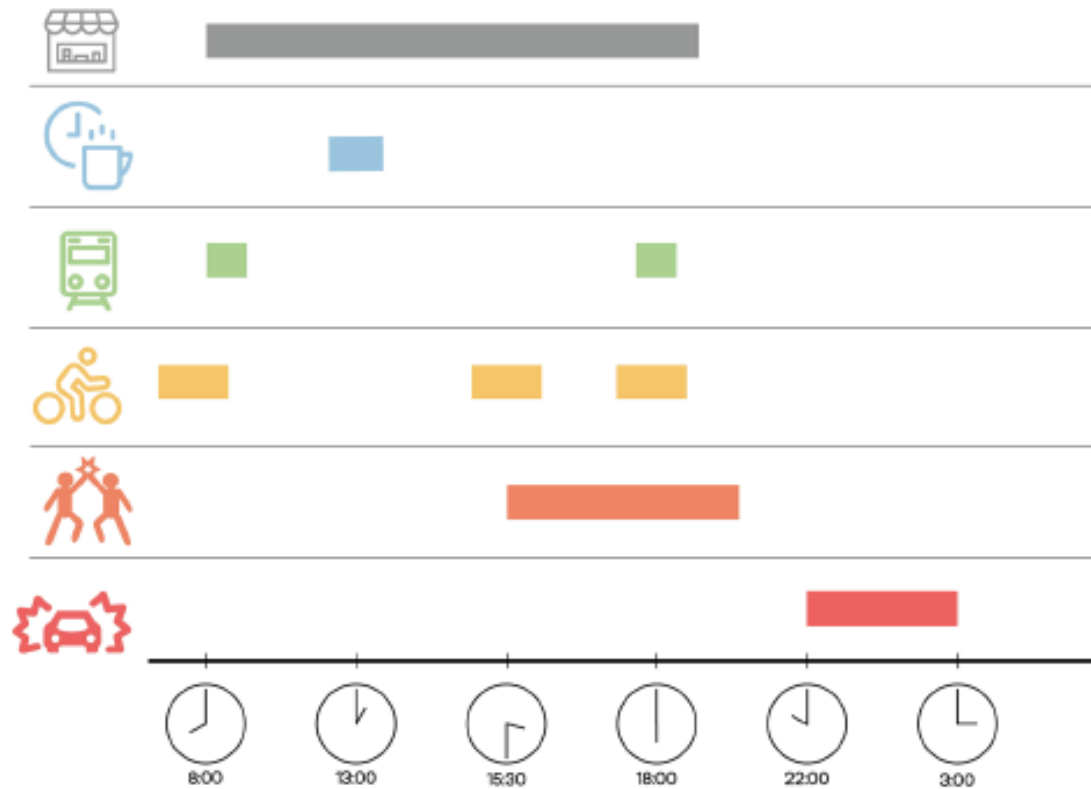
Rhythm of Seniors & Flow in Keizerswaard



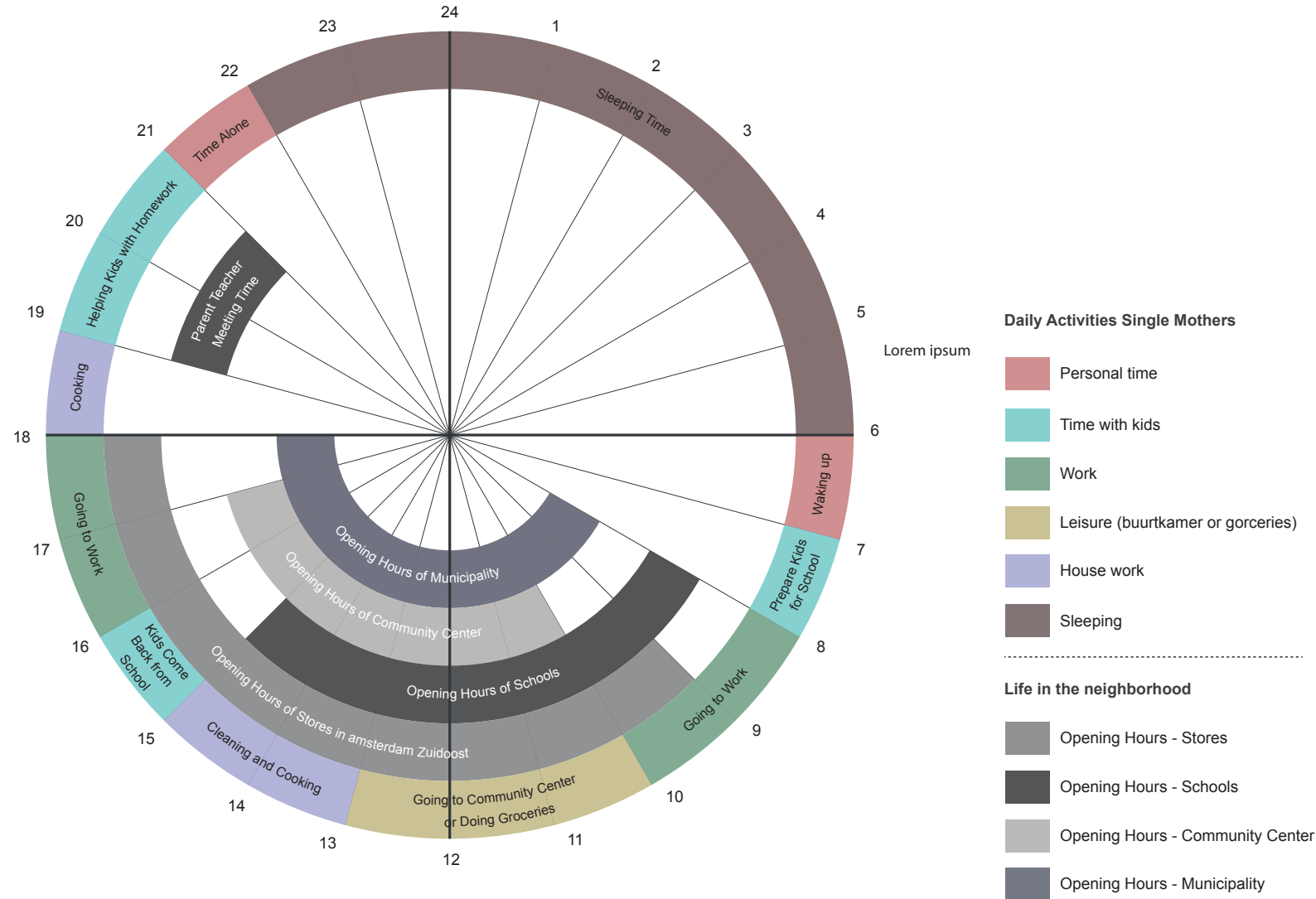
Rhythm of Seniors & Rhythm of the Youth & Flow in Keizerswaard



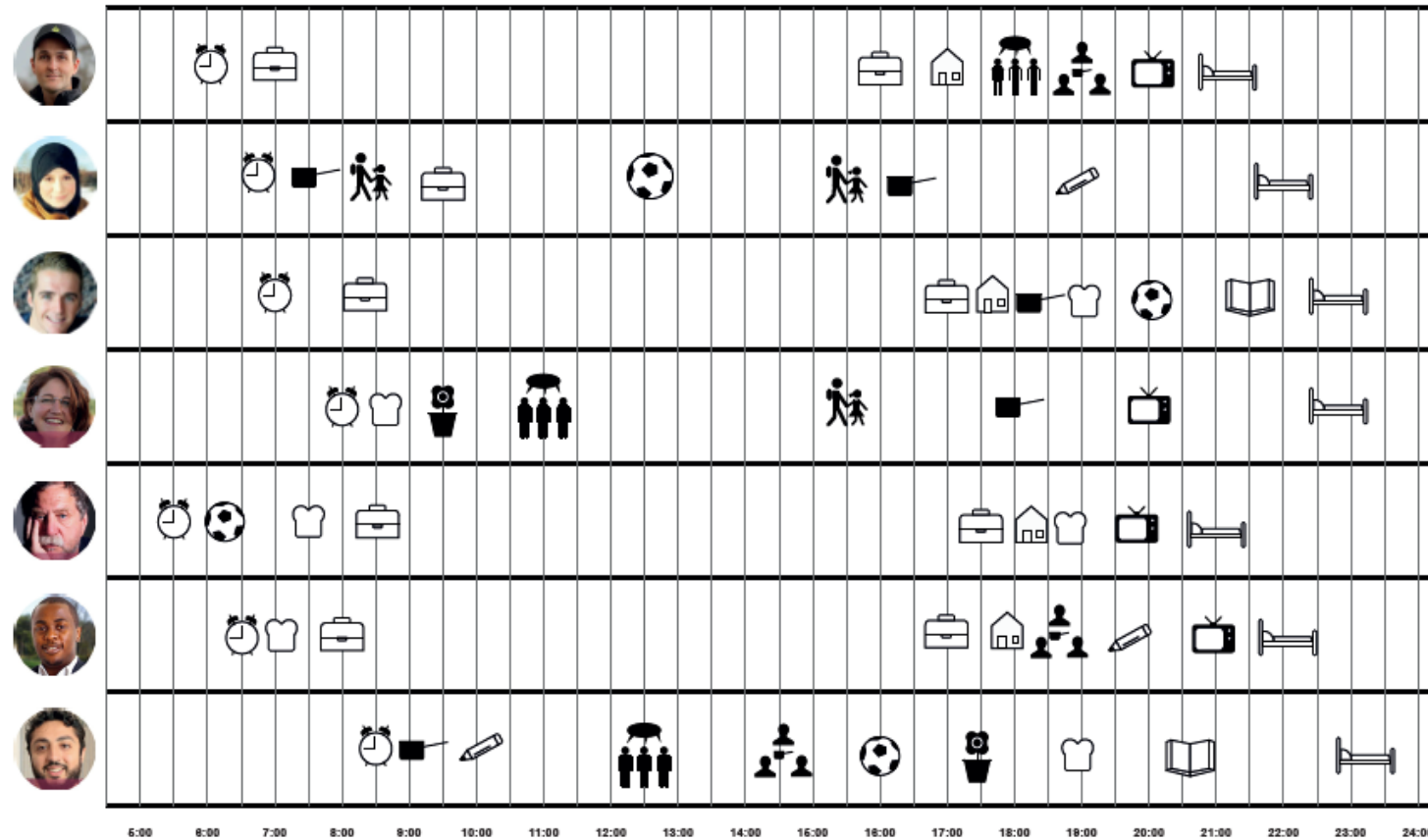
Zaanstad SPG: Balancing Rhythms



Amsterdam SPG: Matching Rhythms



Den Haag SPG: Sharing Rhythms



Methodology for Translating Social Issues into Rhythm Issues

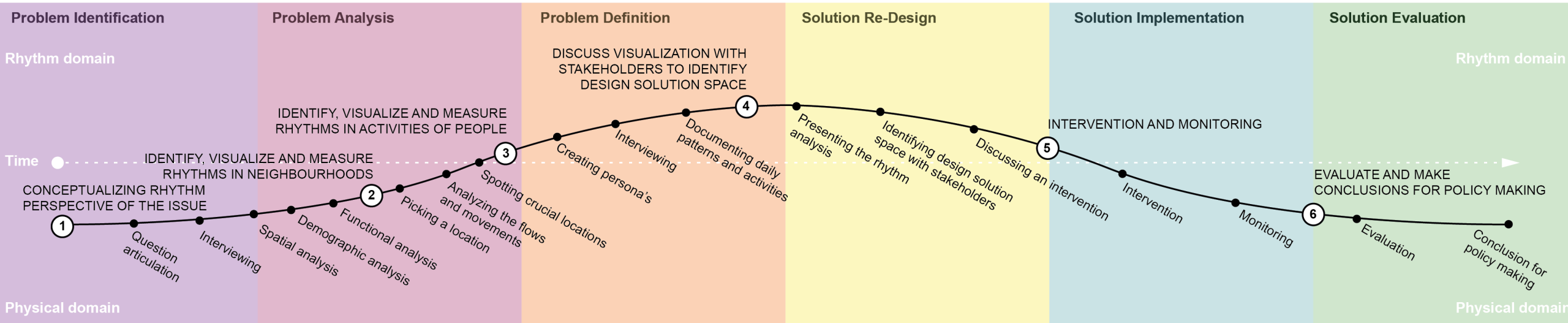


Tabla Workshop



Basic Syllabus on Tabla

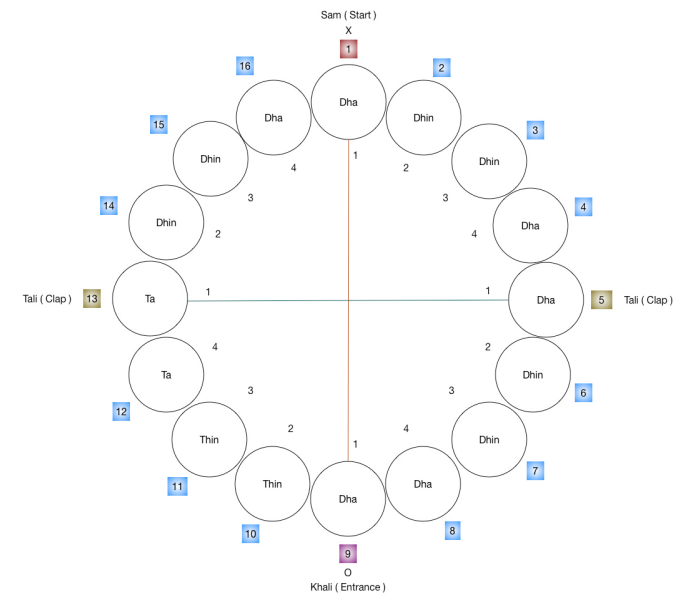
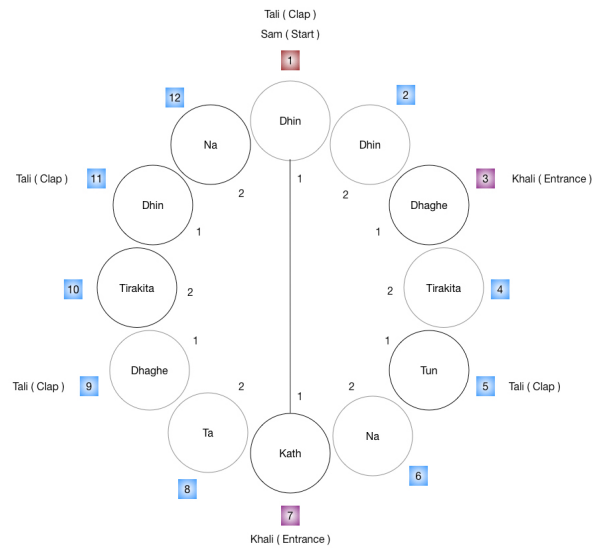
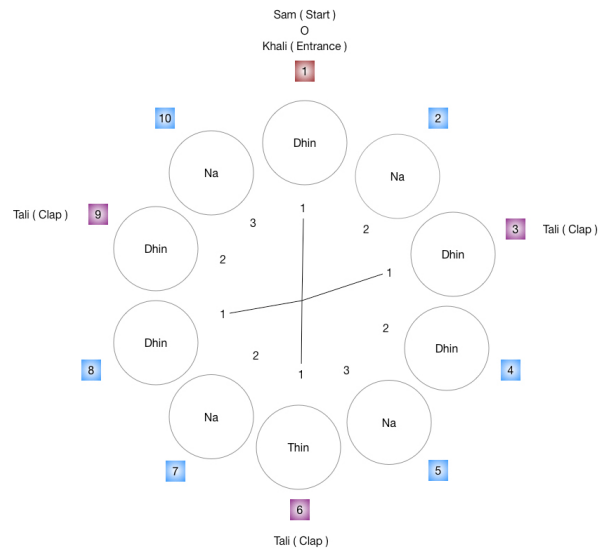
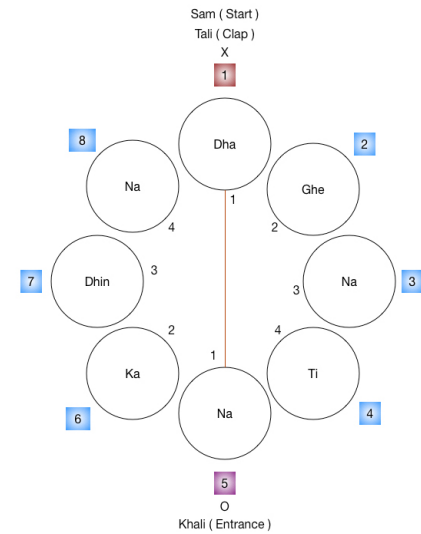
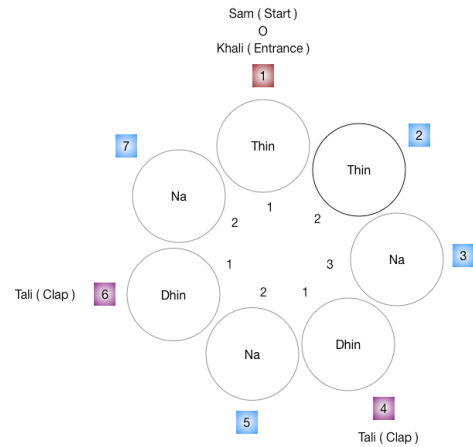
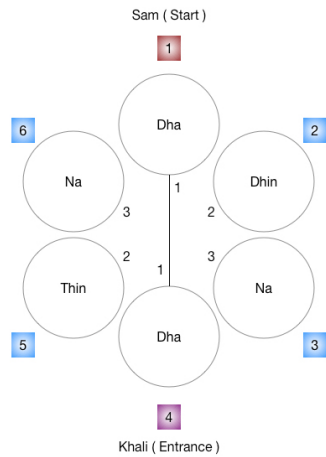
Some basic syllabus with the dayan on the right side and the bayan on the left side are:

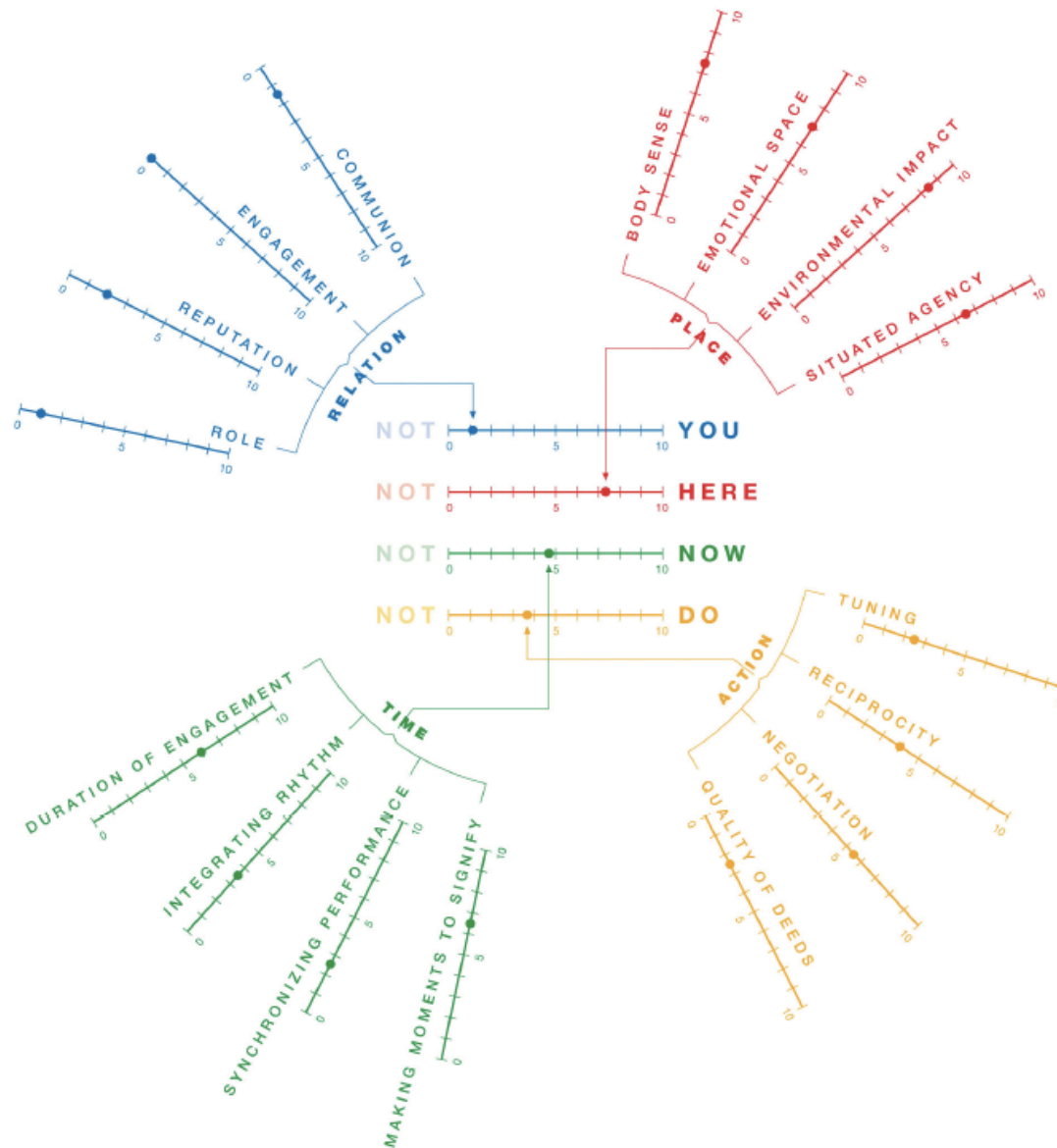
- dayan {
- 1) Ta
 - 2) Na
 - 3) Ti
 - 4) Te
 - 5) Thin
 - 6) Tun
 - 7) kath
- bayan {
- 8) Ghe
 - 9) Gee
 - 11) Ka

Combination:

- 1) Ta and Ghe = Dha
- 2) Thin and Ghe = Dhin
- 3) Tirakita
- 4) Dhere dhere







YUTPA Framework Dimensions

Time

Duration of Engagement
Integrating Rhythm
Synchronizing Performance
Making moments to signify

Place

Body Sense
Emotional Space
Environmental impact
Situated Agency

Relation

Role
Reputation
Engagement
Communion

Action

Tuning
Reciprocity
Negotiation
Quality of Deeds

Mapping Urban Data for Trust

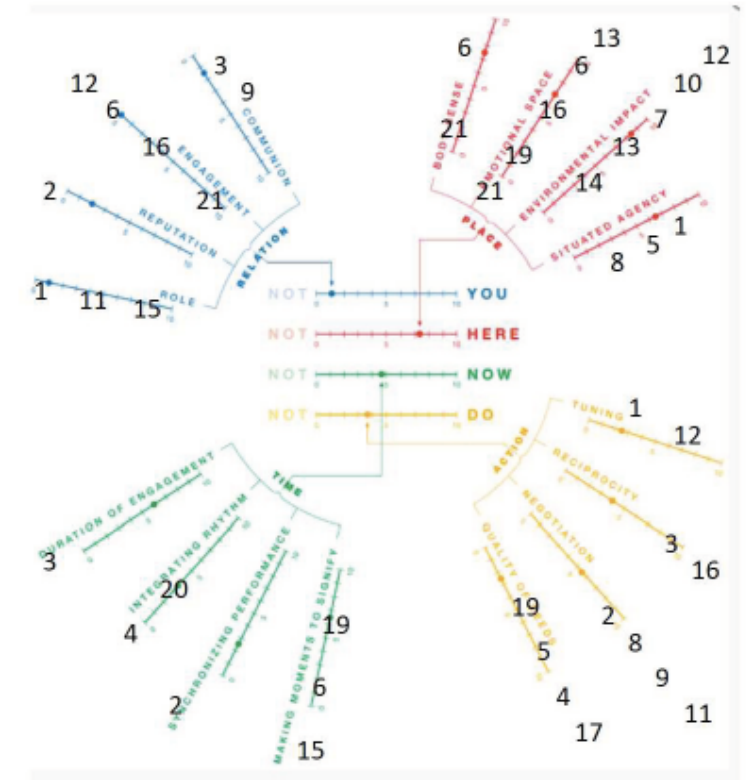
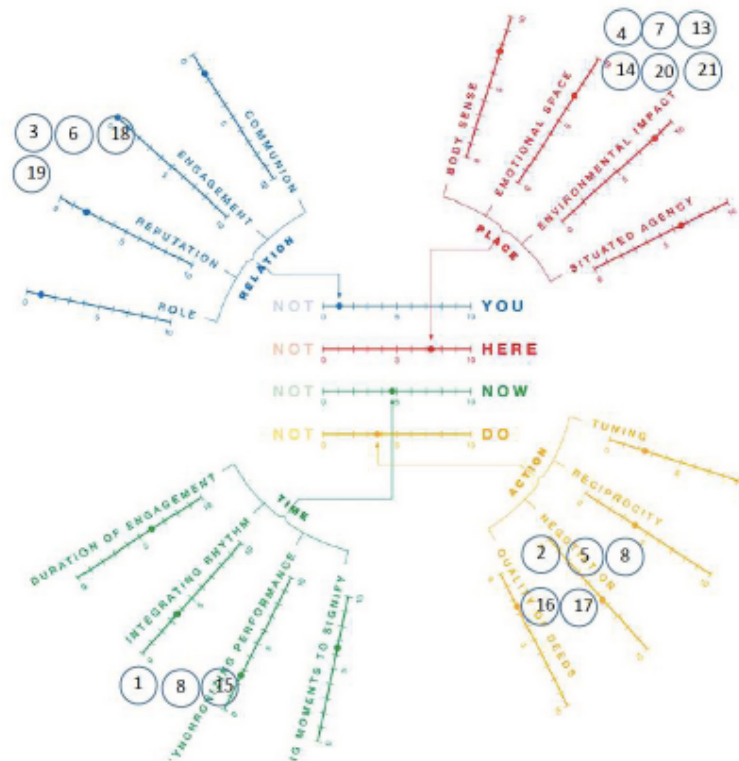
Customised services Customised research Own research Advice about research



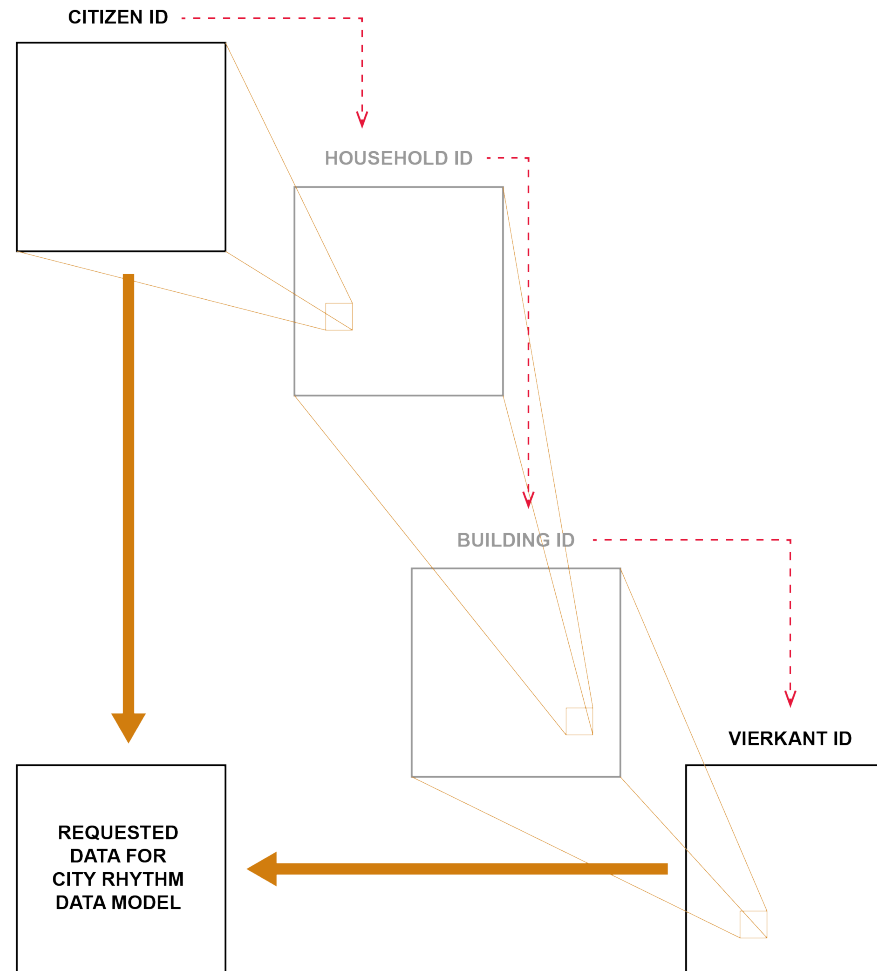
Microdata catalogue

Organisations may use microdata under strict conditions for the purpose of [conducting their own research](#). Below is a list of recent documentation reporting the results of research conducted using microdata sets, arranged by subject area:

1. Labour and social security
2. Enterprises
3. Population
4. Construction and dwellings
5. Financial and business services
6. Health and welfare
7. Trade, hotels and restaurants
8. Income and expenditure
9. International trade
10. Manufacturing industry and energy
11. Agriculture
12. Macroeconomics
13. Nature and environment
14. The Netherlands, regional
15. Education
16. Government and politics
17. Prices
18. System of Social Statistical Dataset
19. Security and justice
20. Traffic and transport
21. Leisure and culture



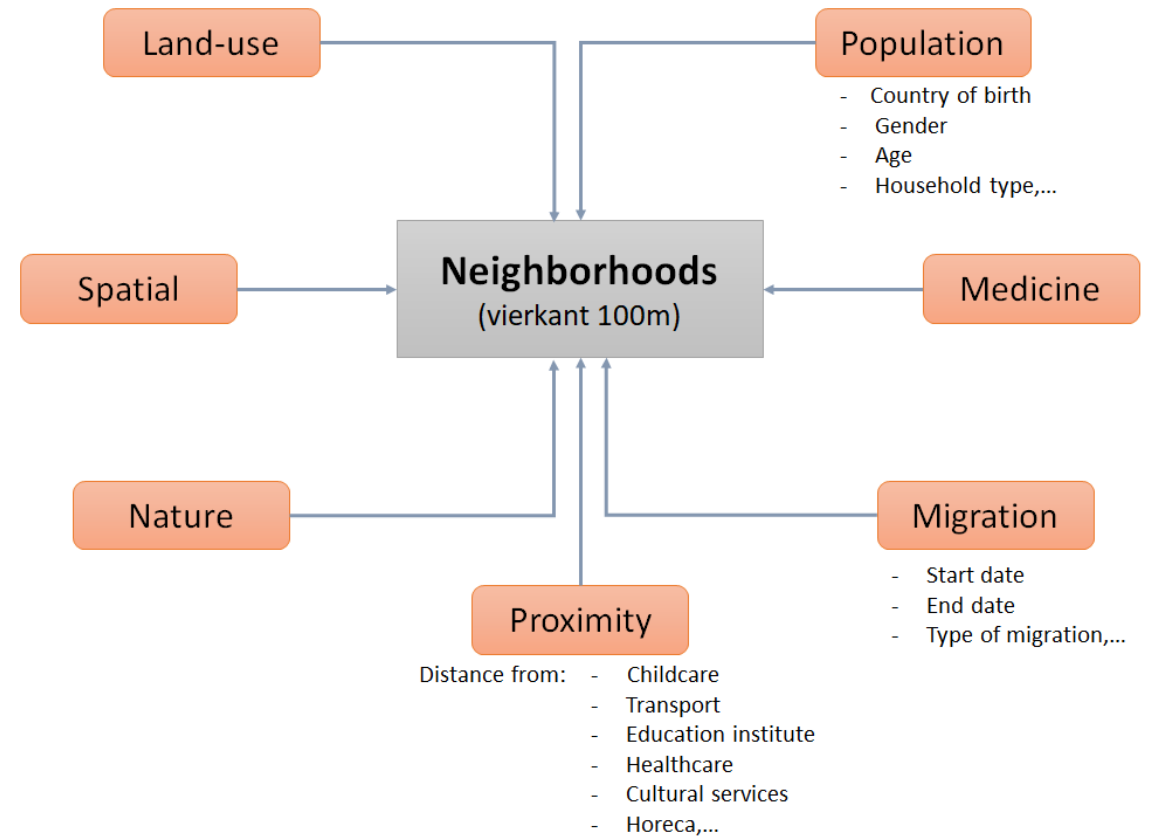
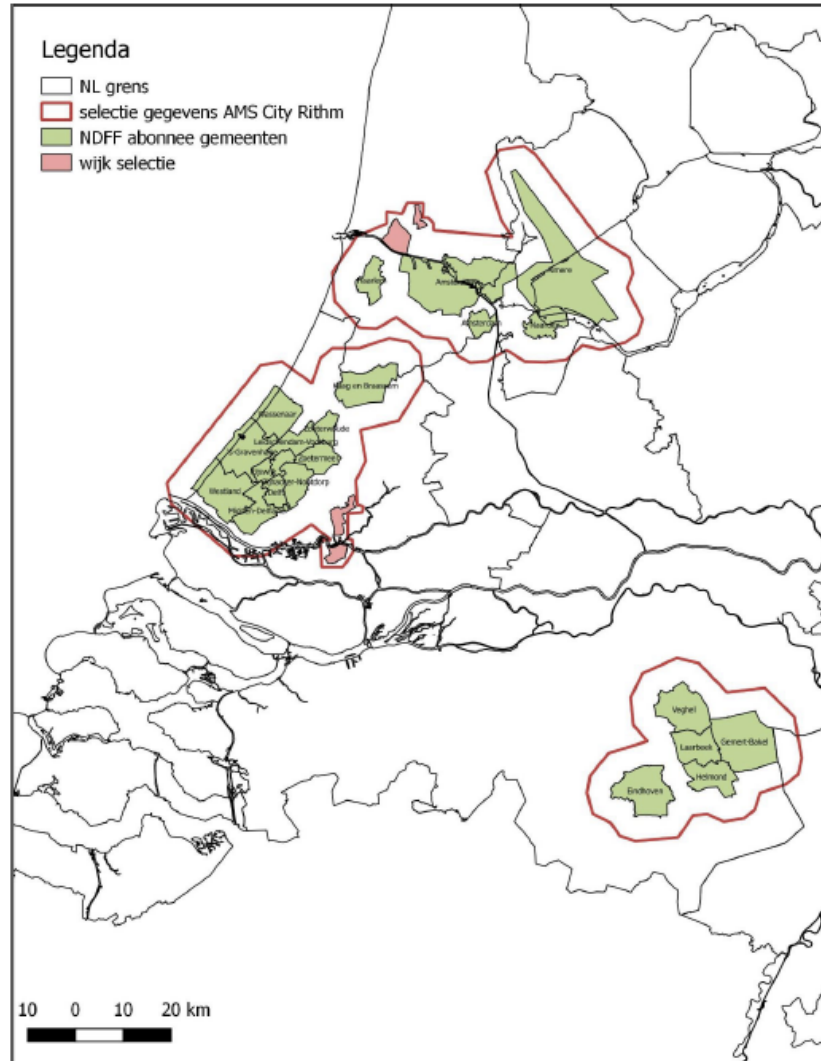
Modelling Rhythm in Urban Data



Different Approaches to Data

	Classical Statistical Approach	Policy Analytic Approach	Open Systems Approach
General Framework	Mathematical	Computational	Natural Systems
Role of the Analyst	Rationalist	Interlocutor	Empiricist
Nature of Data	Objective	Subjective	Partial, Incomplete
Typical Models	Classical Statistics	Machine Learning	Spatial and <u>Descriptive Statistics</u>
Successful Models	Falsify Hypotheses	Useful for Decision-Making	Enable Exploration and Learning
Ascribed	Mark <u>Verhagen</u> , Leo <u>Huberts</u> , Ruben <u>Spruit</u> , Lene <u>Boehnke</u> , Thu <u>Vu</u>	Scott Cunningham	Jan Dirk <u>Bulens</u>

Getting the Data

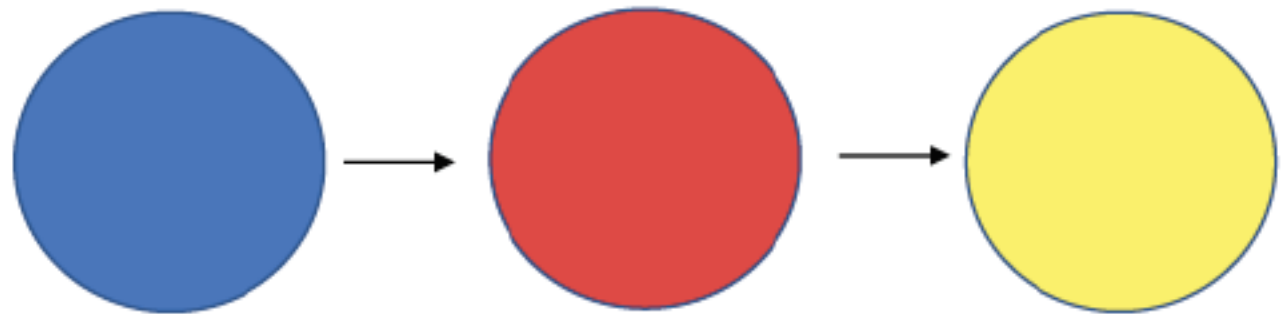


Choosing the Right Model

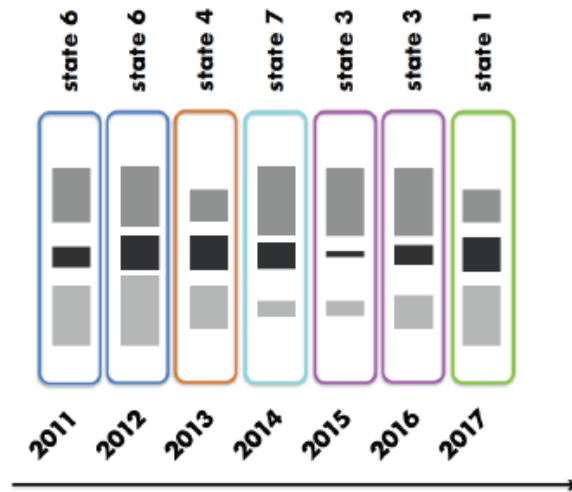
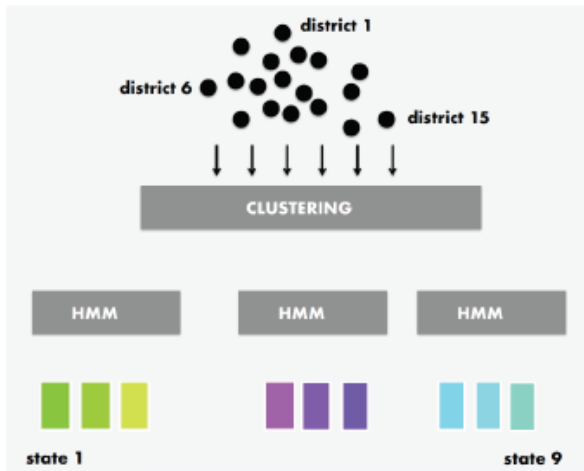
Classical approach



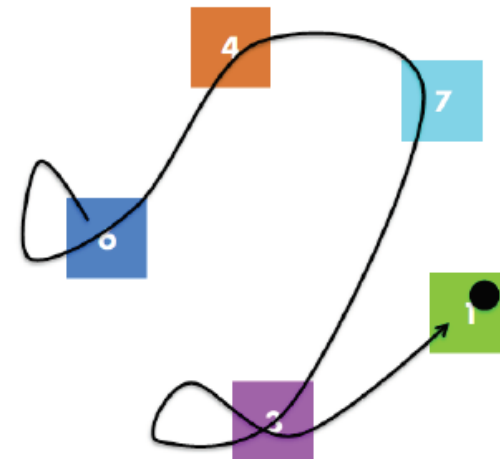
City Rhythm approach



Understanding the Model



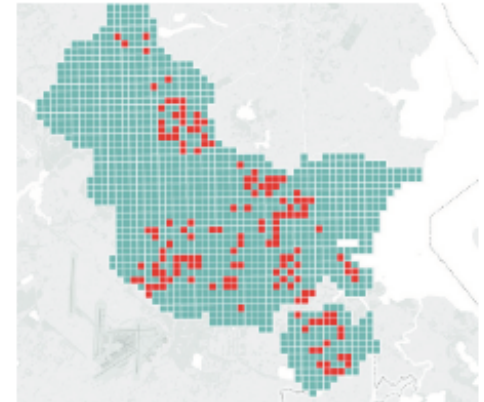
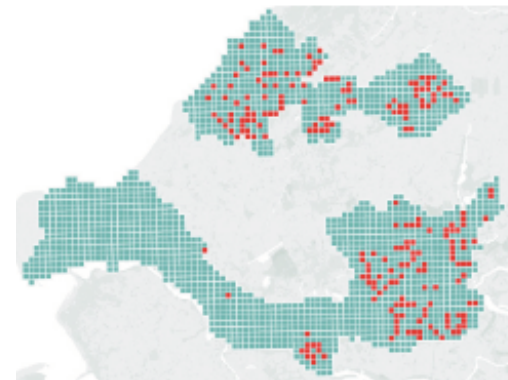
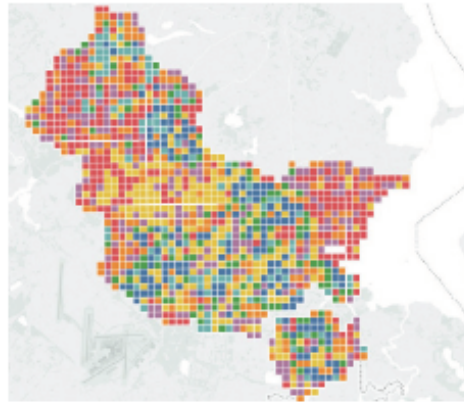
A district moves from one state to another



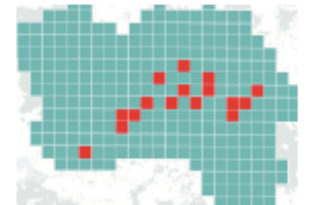
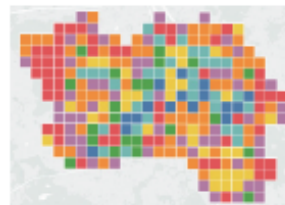
So do all other districts



Exploratory Results



Cluster 1
Cluster 2
Cluster 3
Cluster 4
Cluster 5
Cluster 6
Cluster 7



Survey for Validating the Data Model

Validation of the data model in each case



1st Round:

Base Rhythms for Social Safety

1- **Helmond Case:** Safety in Tulpstraat in Beisterveld Neighbourhood

2- **Zoetermeer Case:** Sense of Safety around Meerzicht Winkelcentrum

2nd Round:

Tuning and Balancing Rhythms for Social Safety

3- **Rotterdam Case:** Safety of Elderly in Keizerswaard neighbourhood

4- **Zaanstad Case:** Hangjongeren in Assendelft and Wormerveer

3rd Round:

Matching and Sharing Rhythms for Social Safety

5- **Amsterdam Case:** Single mothers in Amsterdam Zuidoost

6- **Den Haag Case:** Migrants in Escamp neighbourhood