

RHYTHMS



Rhythm Theory

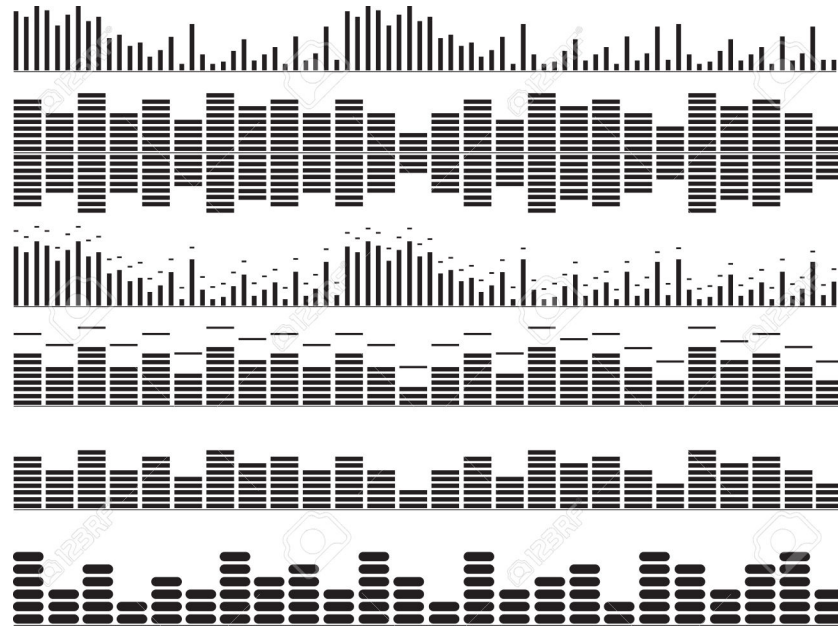
“Rhythm is the variation in repetition.”

- Marli Huijer

“Rhythms can be defined as movements and differences in repetition.”

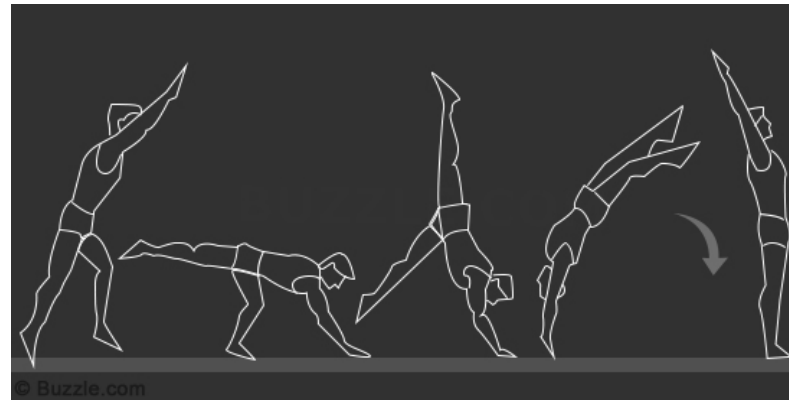
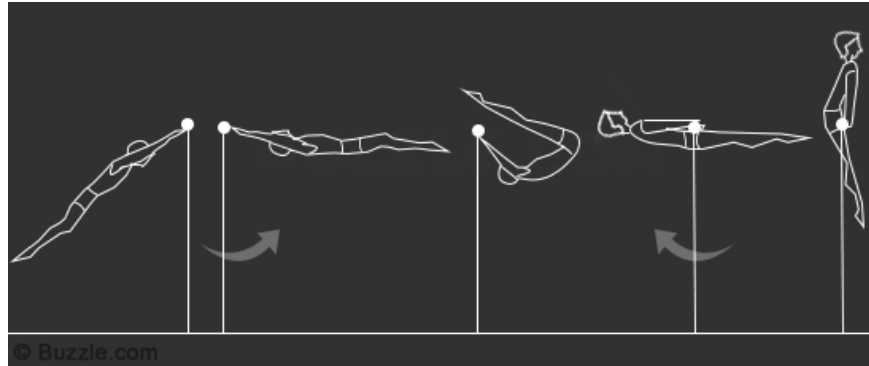
- Henri Lefebvre

What is a repetition?



In Music: Beat vs. Rhythm

What is a repetition?



In Gymnastics: Succession of Movements vs. Rhythm

What is a repetition?

A typical Week _Indicative Schedule

MON	TUE	WED	THURS	FRI	SAT	SUN
Wake up						
Breakfast						
Cleaning						
Snack						
Level Testing	Lesson				All Day Excursion	Sport events (IRON KID)
Break						
Lesson						
"Getting to Know you" Games	Flag Making	Team building games	Movie Making (part 1)	Team Games		Free Activities
Lunch						Lunch
Free Time (café and phone calls)						Free Time (café and phone calls)
Siesta			Half Day Excursion	Siesta		Siesta
Snack				Snack		Snack
Wall Climbing & Archery	Multi Sports	Fitness day		Tennis / Squash		Sport events (Tournaments)
Swimming				Swimming		
Dinner				Dinner	Dinner	Dinner
Welcome party	Karaoke	Talent show	Carnival	Hunt the counselor	Cinema	Crazy Olympics
Bed time/ lights out						

In Daily Life: Schedule vs. Rhythm

Then, what is a rhythm?

Rhythm is
variation in repetition
of a specific order

Different Types of Rhythms

Cyclical Movements + **Linear** Movements

Spatial Flows/Actions + **Temporal** Flows/Actions

Natural + Cultural

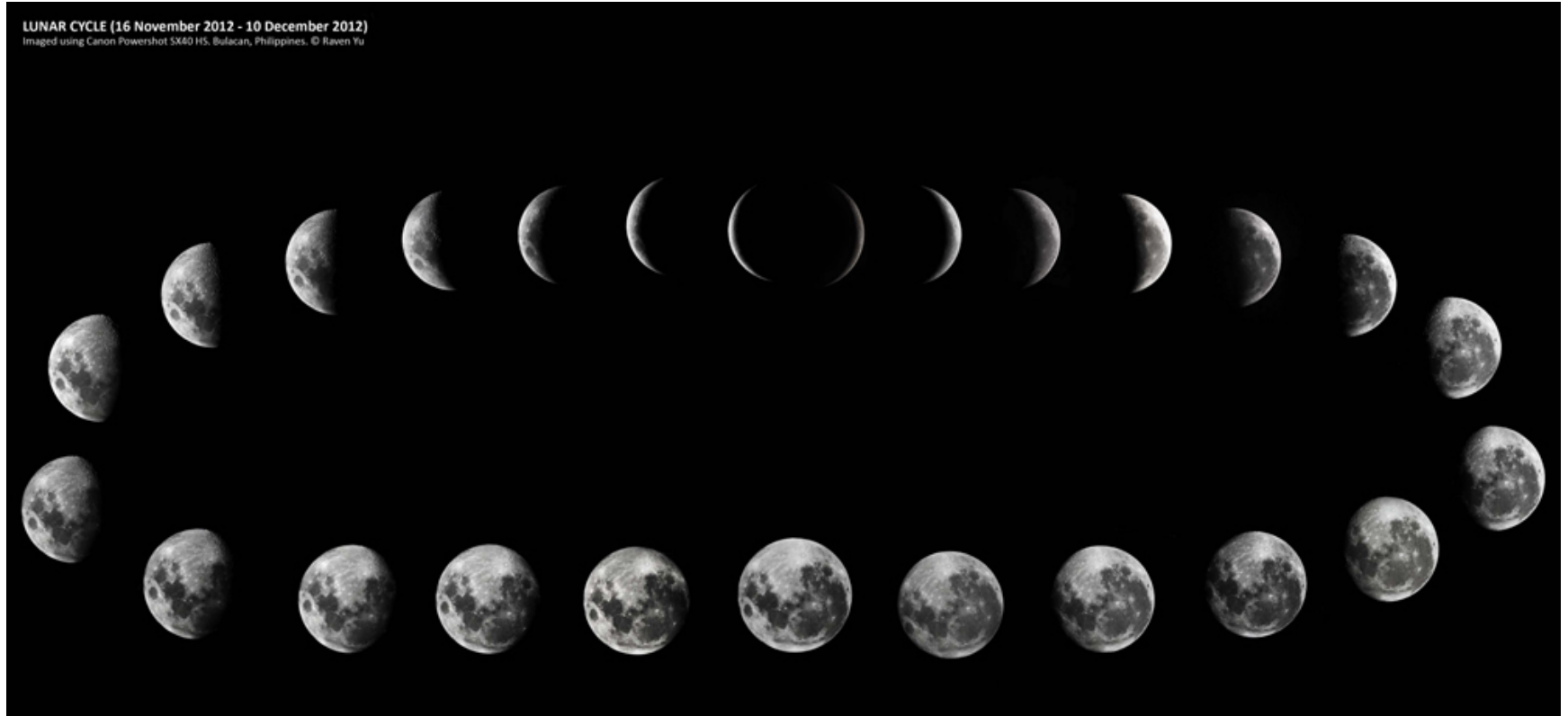
Repetition + Difference

Mechanical + Organic

Discovery + Creation

Clock time + Cosmic time

Cyclical Movements



Natural happenings like lunar cycles

Linear Movements



Human activities, like traffic

Spatial Flows

Activities, Movements, Flows referred to a specific space



In a market, the organization of the stores defines the flows.

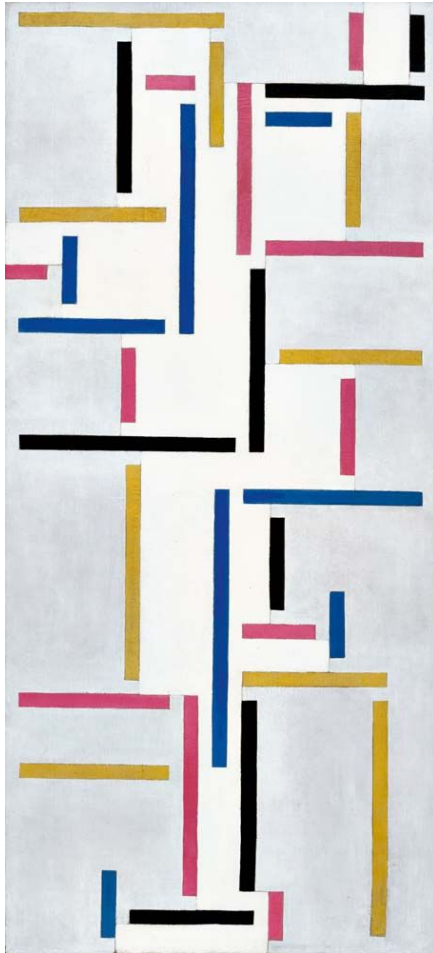
Temporal Flows

Activities, Movements, Flows referred to a specific time



Rush hour is a routine in which everybody become subjects.

Rhythms in a painting



Rhythm of Russian
Dance, Theo van
Doesburg, 1911

Waves have rhythms

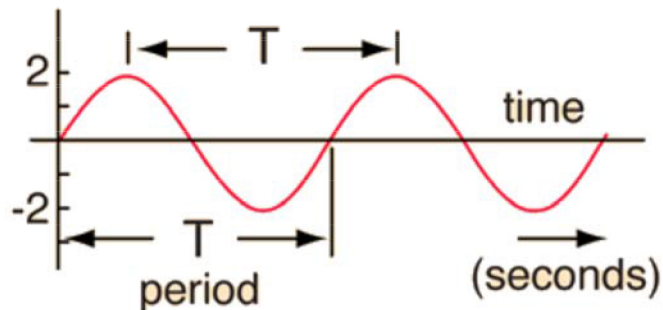
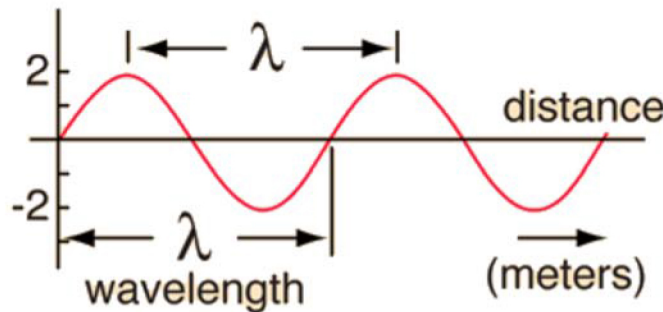


Cities have rhythms



Rhythm Intervention

Is understanding the parameters that create a rhythm, and then modifying those parameters, which in conclusion will create a new rhythm.



Any of the wave parameters below can be changed. When you have finished entering data, click on the quantity you wish to calculate. The quantities will not be forced to be consistent until you click on the desired quantity.

Wavelength = m

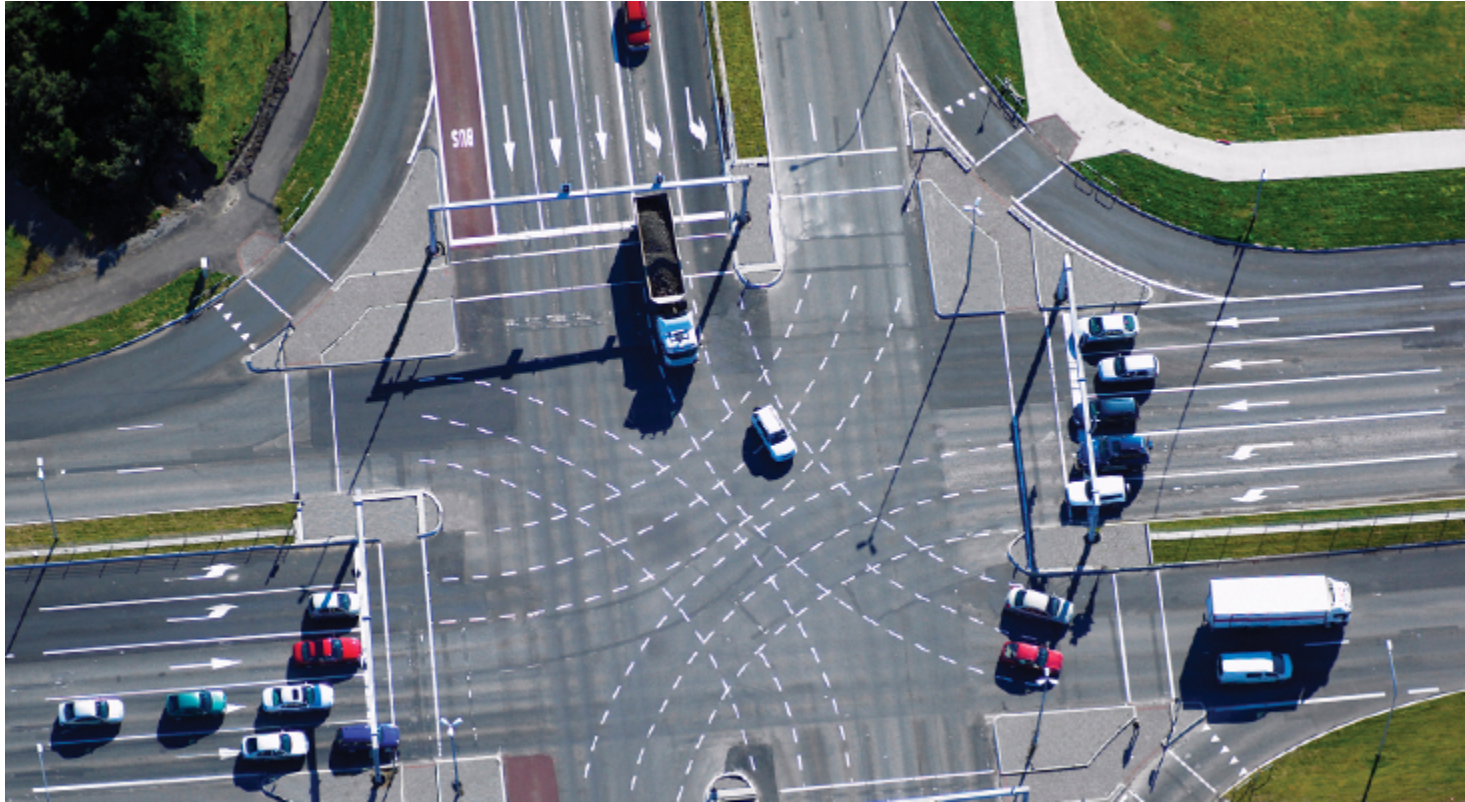
Frequency = Hz

Period = s

Amplitude = 2

Wave velocity = m/s

Rhythm Intervention



The re-arrangement of traffic changes the rhythm of vehicles and people movement, therefore it can be considered as a rhythm intervention.

Rhythm Intervention



Opening a new Starbucks in a street will change the rhythms of the area...

Rhythm Intervention

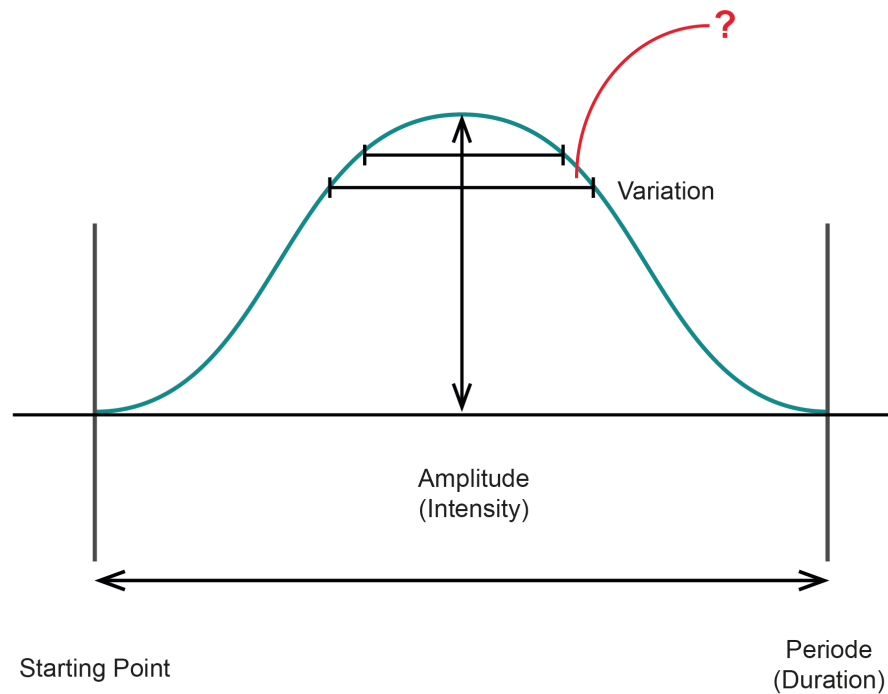


Climate change modifies the rhythms of nature, but would it be true to call it an “intervention”?

Rhythm and Data

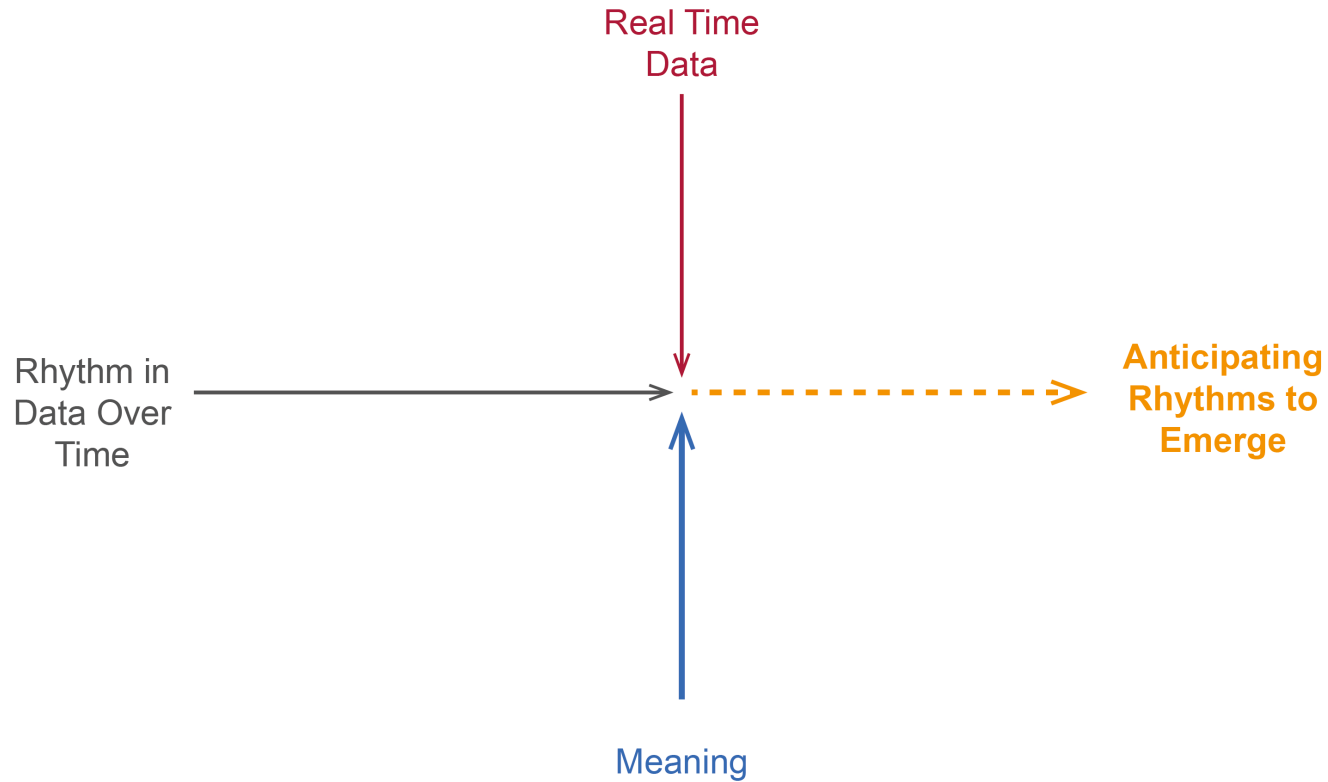
Rhythm Variation

Rhythm as a wave:
Where we can make policy



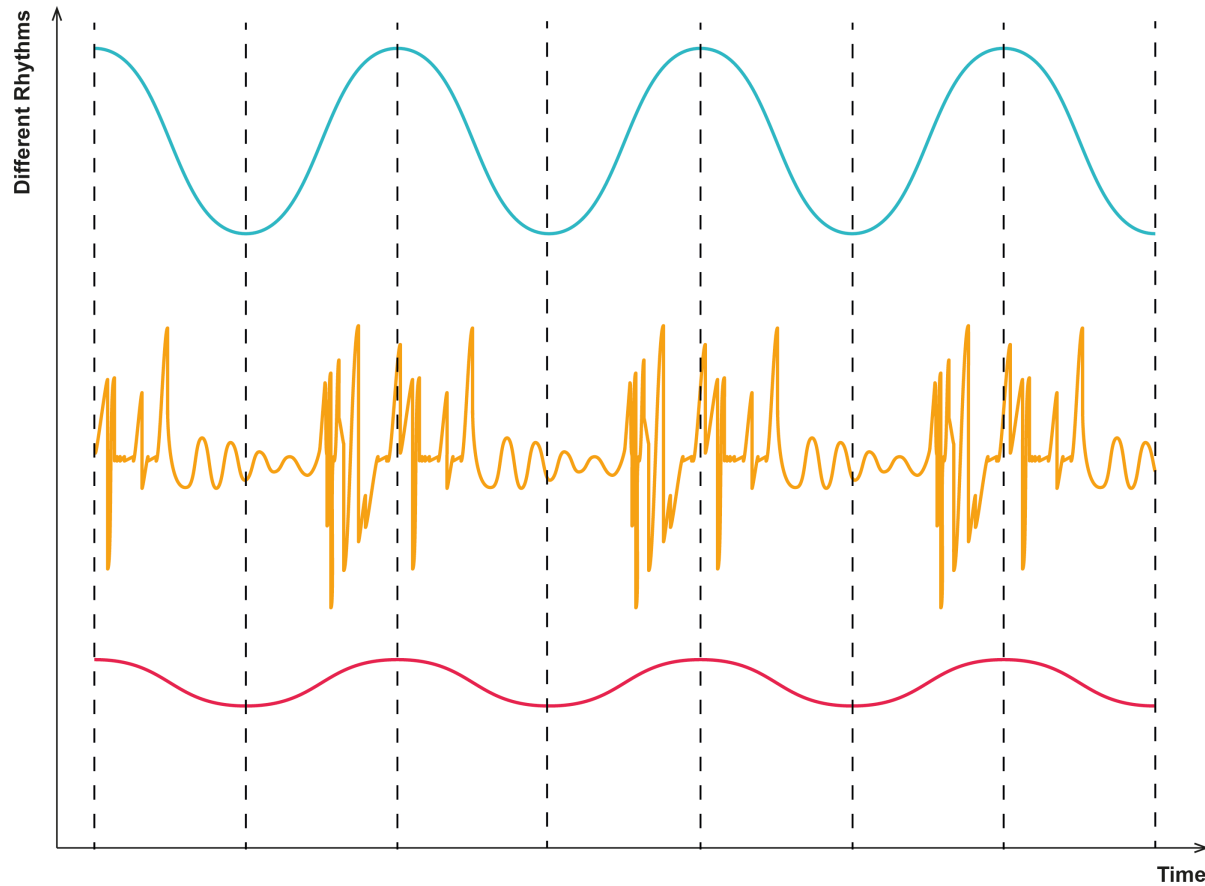
Rhythm Anticipation

Generating Futures



Rhythm Composition

Rhythm as Composition: How do different rhythms effect each other



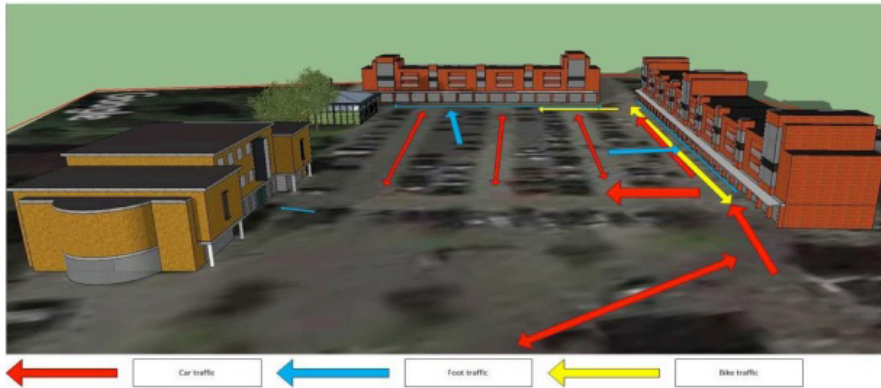
Student Project Groups

Rhythm Findings & Representations

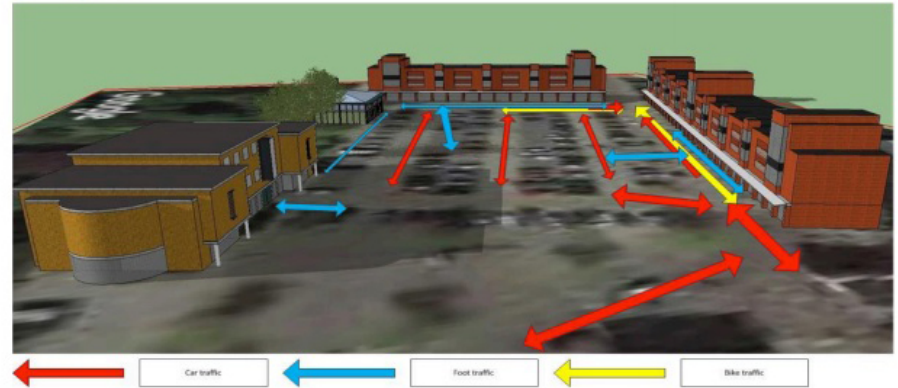
Zaanstad 1 Rhythm Analysis

Wormerveer Town Square

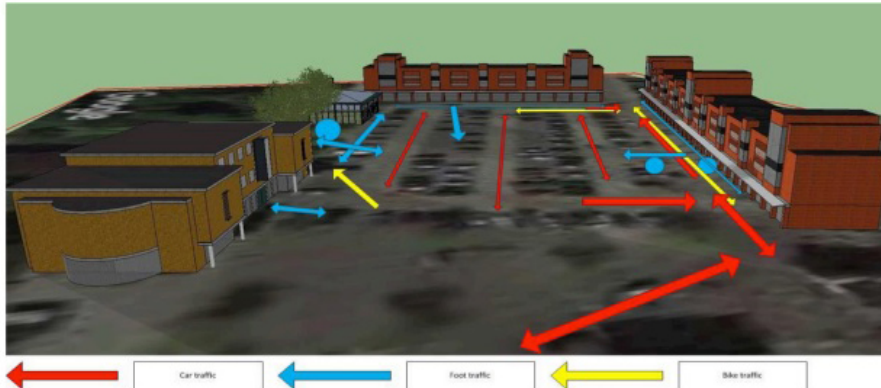
9 AM



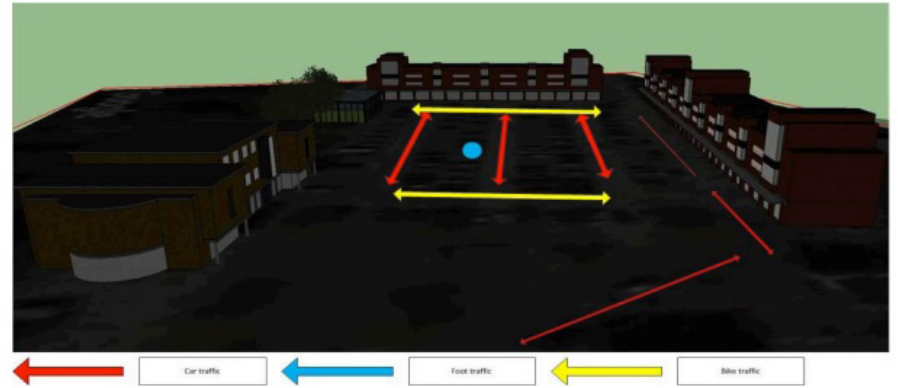
1 PM



5 PM

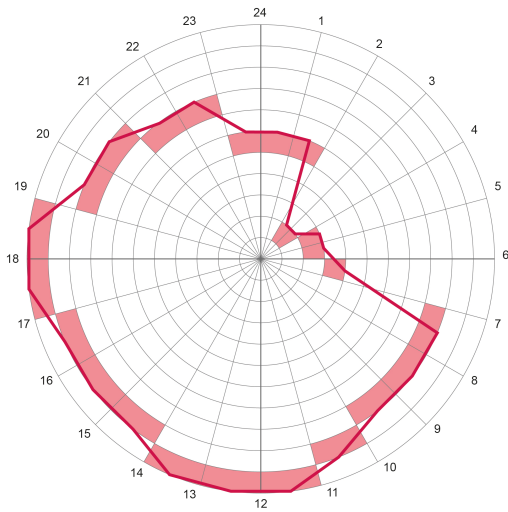


1 AM

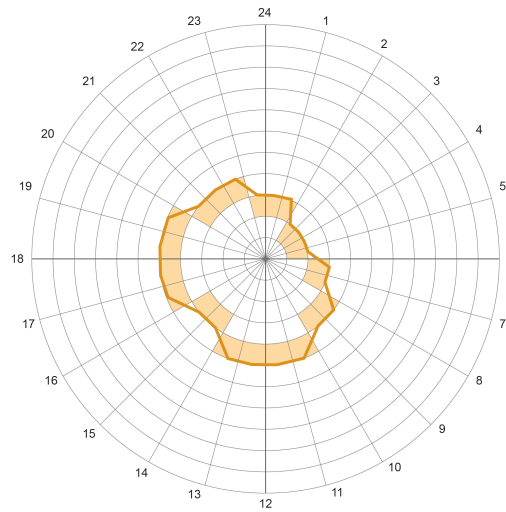


Zaanstad 1 Rhythm Analysis

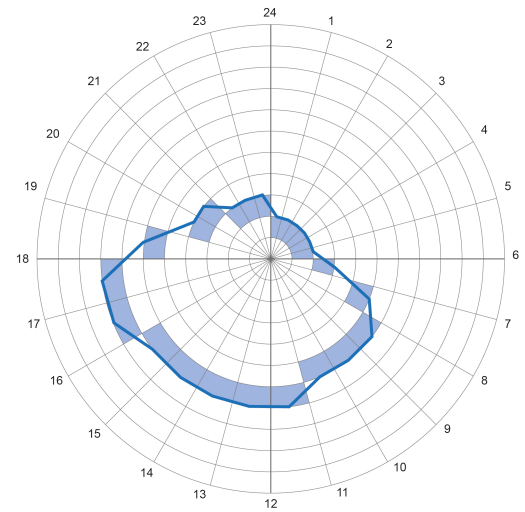
Wormerveer Town Square, Different Flows



Car Traffic

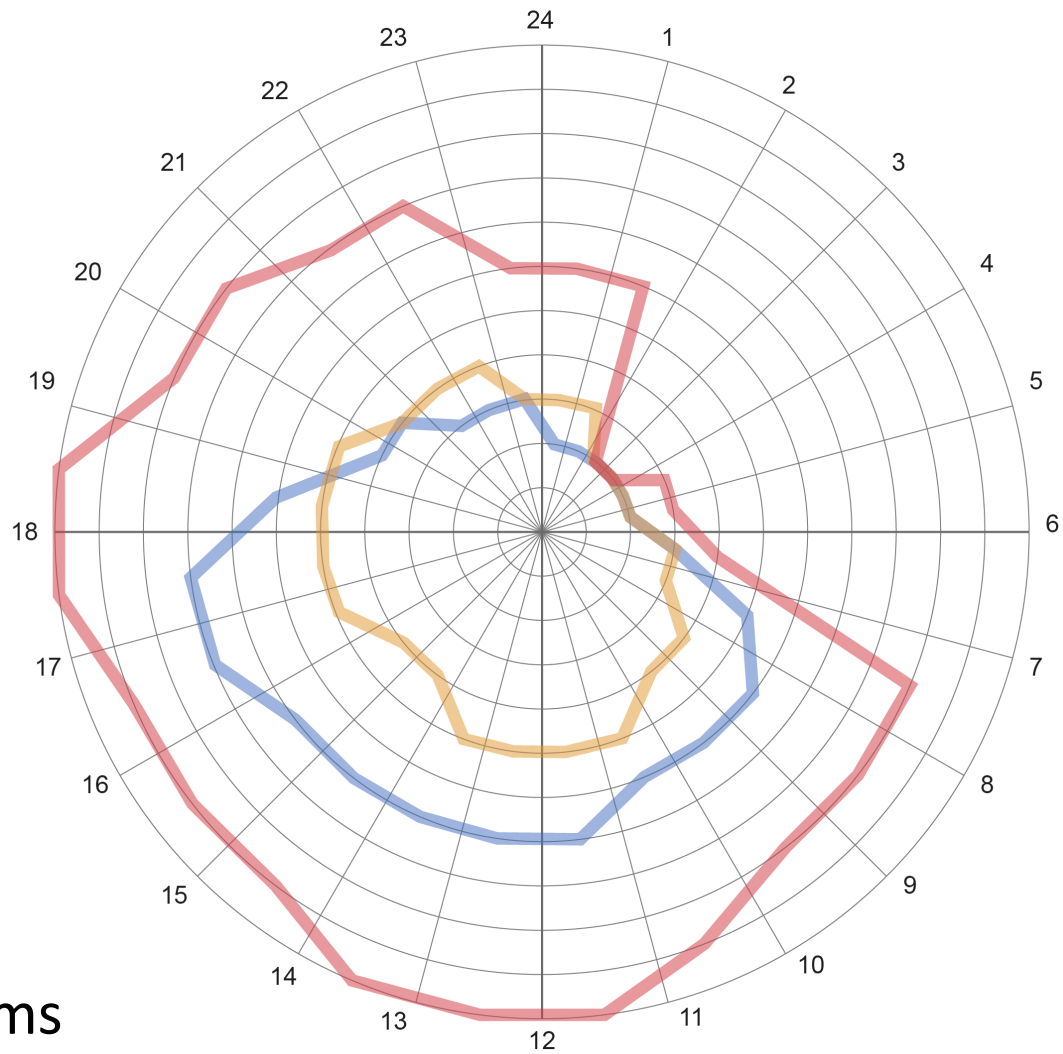


Bike Traffic



Pedestrian Traffic

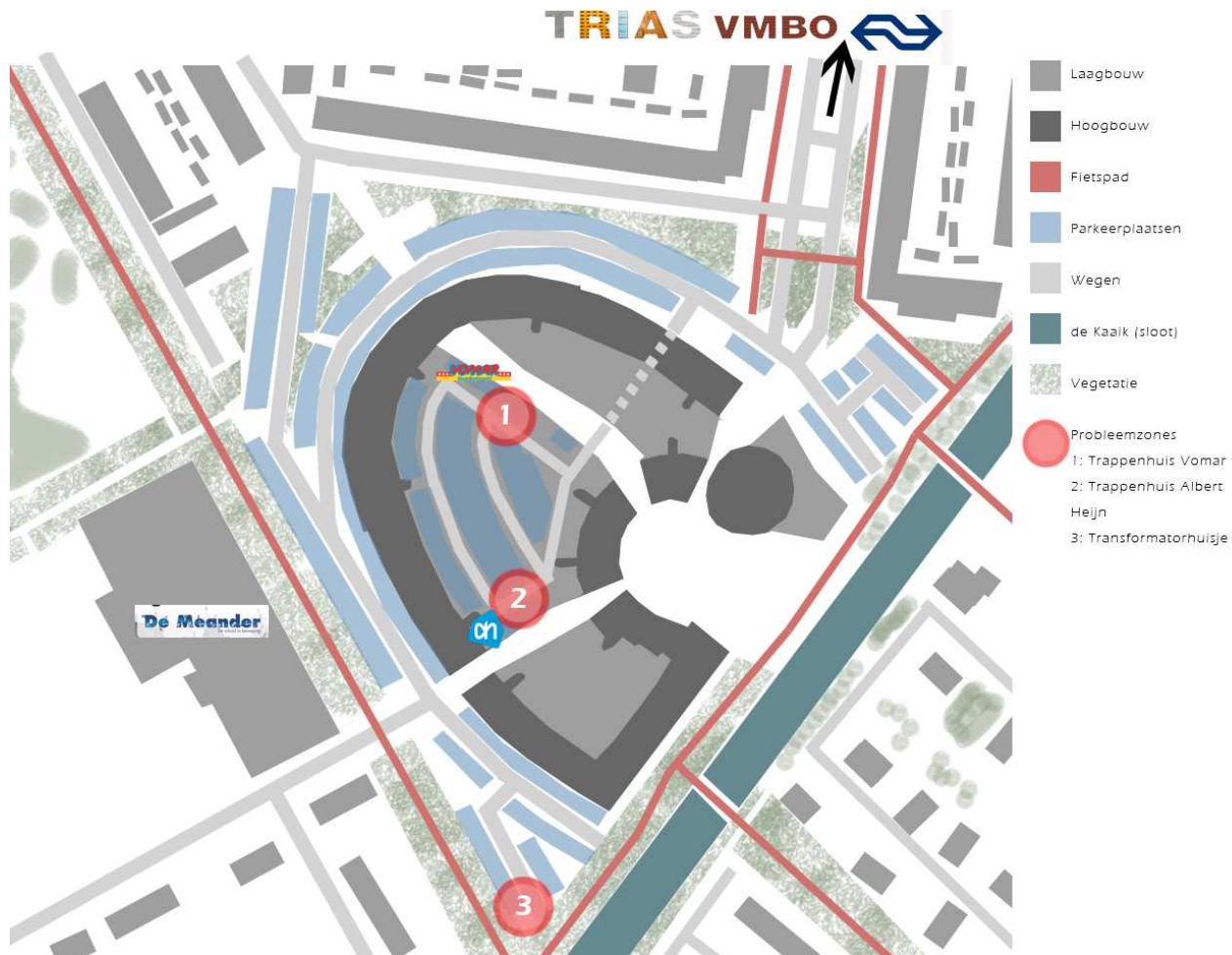
Zaanstad 1 Rhythm Analysis



Overall View of Rhythms

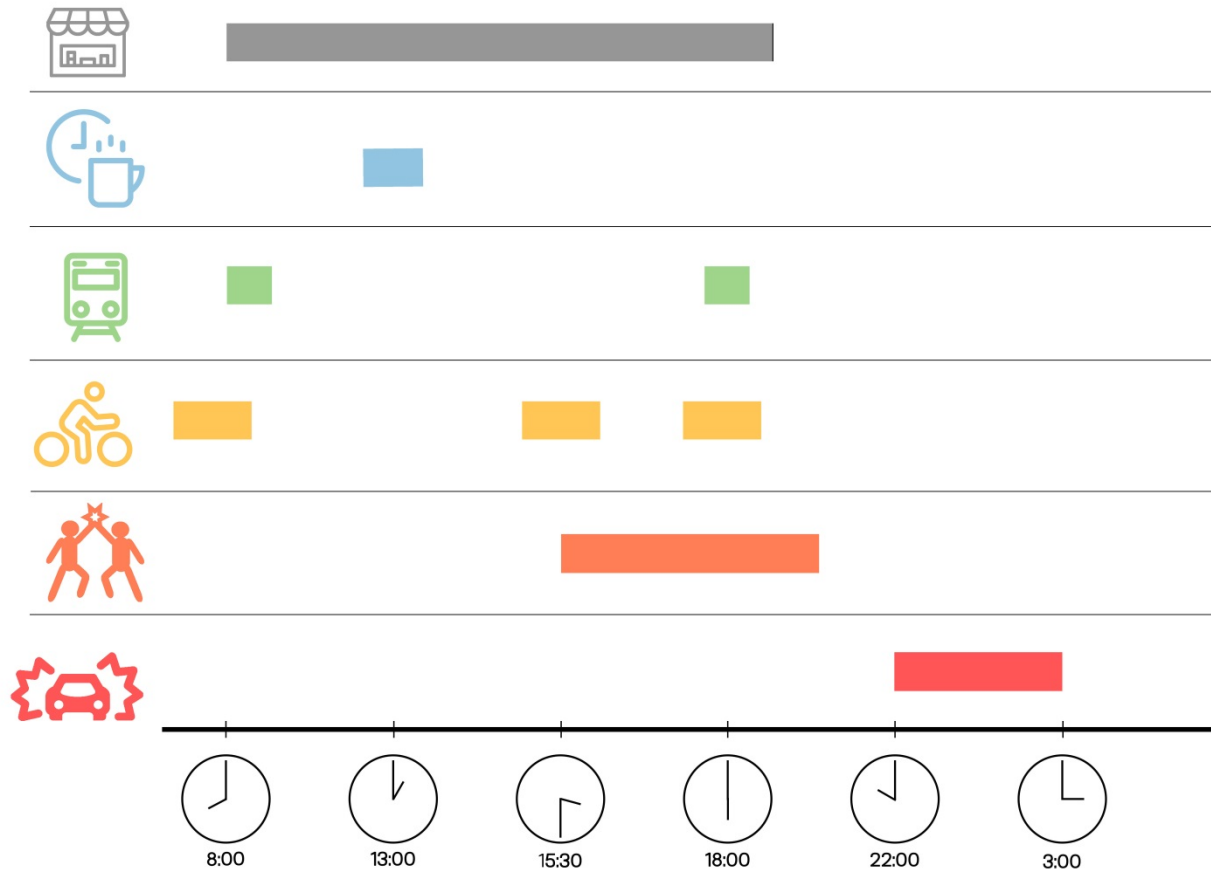
Zaanstad 2 Rhythm Analysis

The Saen Shopping Center, Assendelft



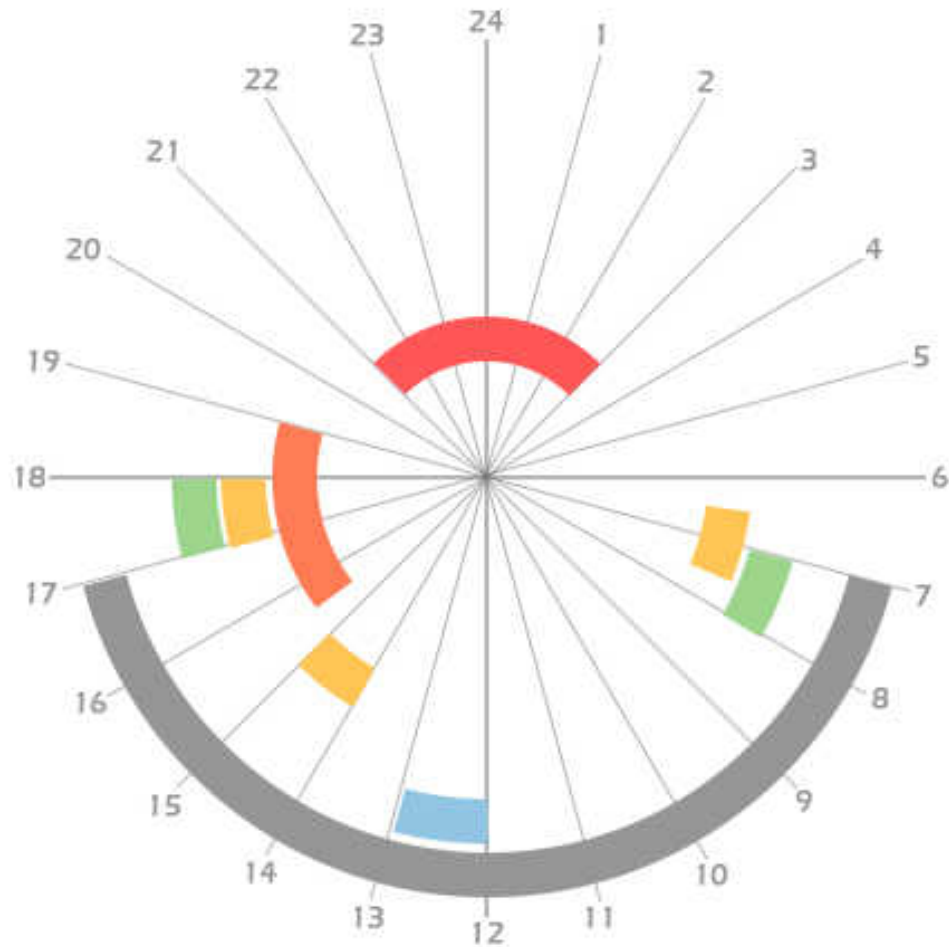
Zaanstad 2 Rhythm Analysis

The Saen Shopping Center, Assendelft

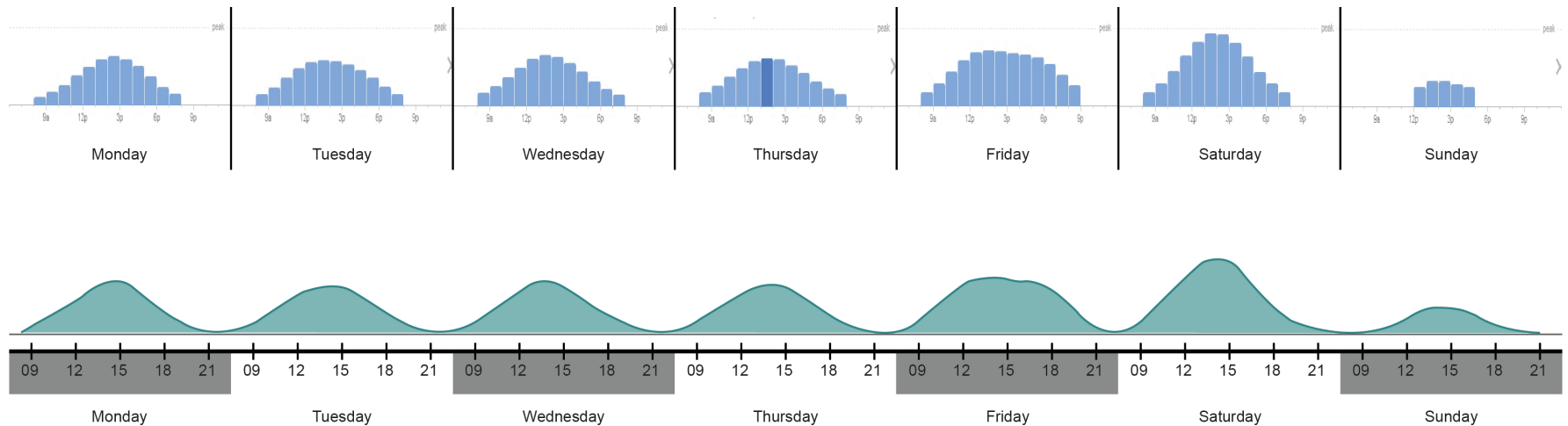


Zaanstad 2 Rhythm Analysis

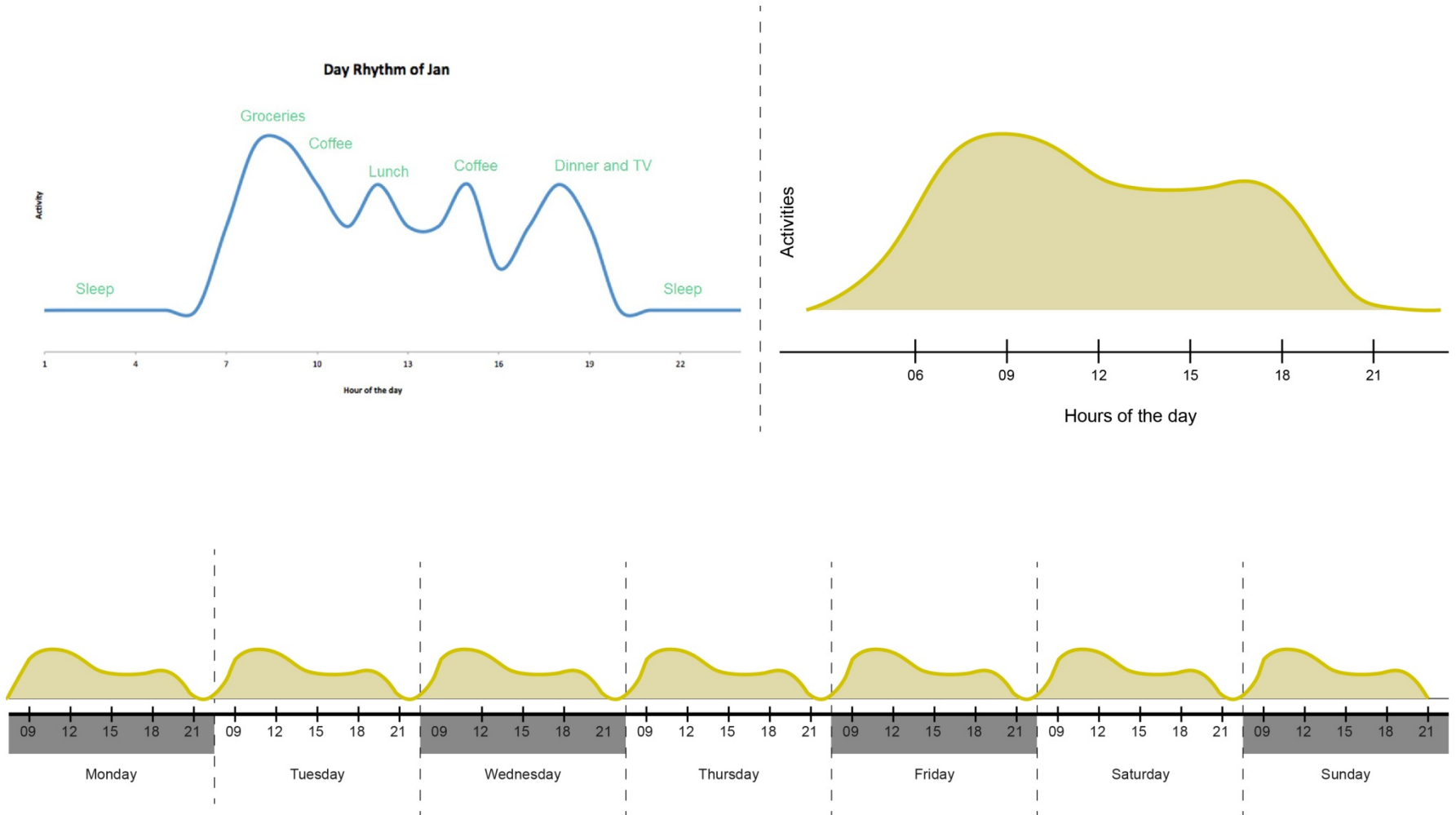
The Saen Shopping Center, Assendelft



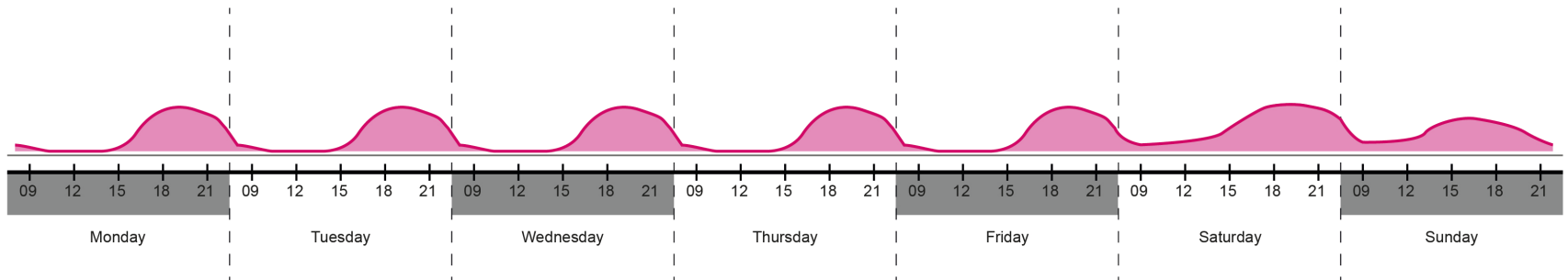
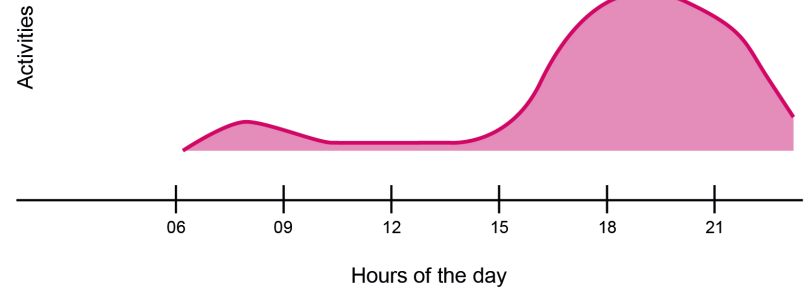
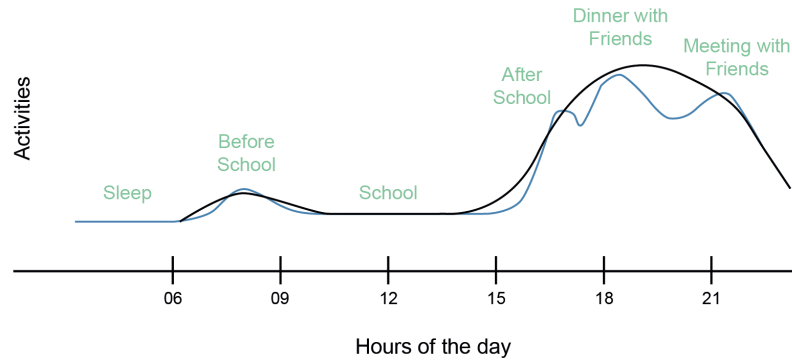
Rotterdam Rhythm Analysis



Rotterdam Rhythm Analysis

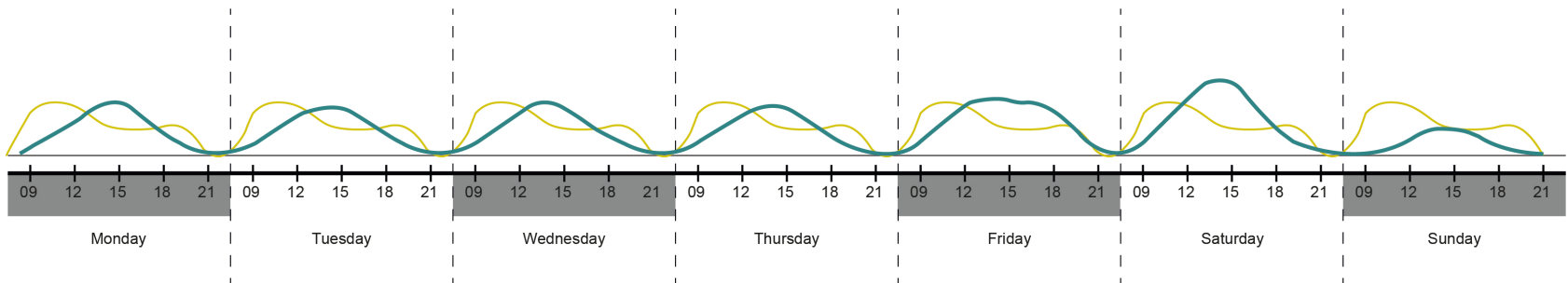


Rotterdam Rhythm Analysis

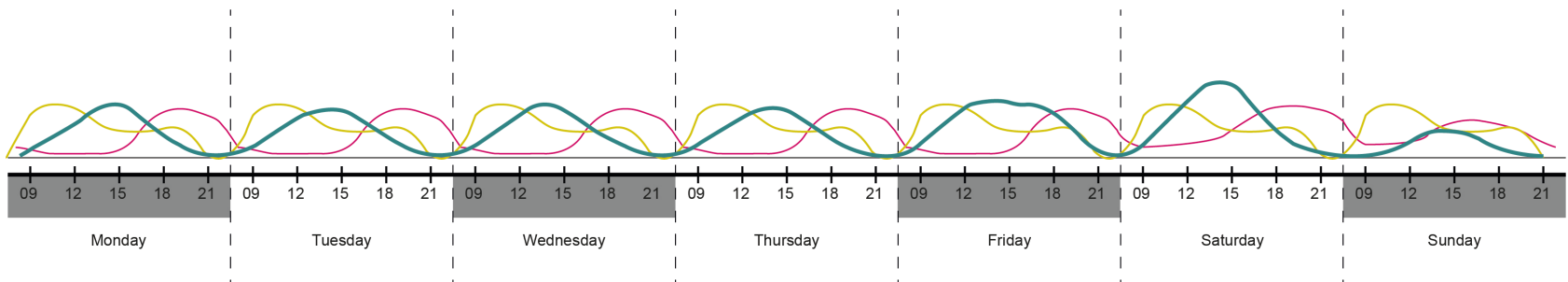


Rotterdam Rhythm Analysis

Rhythm of Seniors & Flow in Keizerswaard



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



Den Haag Rhythm Analysis

Actor Analysis



Stefan van Beiting: 38 years old and works as a police officer. Stefan is married with Jet. They have been together for 19 years and married for 11 years. They have two daughters, the older one is 10 years old and the younger one is 7. In the weekends they like to do family trips with their motor bikes. His hobbies are sports, reading and motor cycling. He has been living in the area for 13 years.



Azra Celik: 31 years old and works part time as a desk clerk at ING Bank. She is married to Akif and together they have two children, Ahmet and Ela. Ahmet is 8 years old and Ela is 5. Her parents live close by and she is still in contact with her other family members in Turkey. She has been living in the area for 9 years. She likes to cook and to take care of her kids.



Jeroen Timmerans: 27 years old and works as a teacher in a junior high school. He lives with his girlfriend Sarah, who is also working in the education sector. They would like to have children together but they think it is still early. His hobbies are reading, doing volunteer work and travelling. He has been living in the area for 3 years.



Rita Schilder: 53 years old. She is a housewife. She is married to Pieter and they have been together for 34 years. Together they have two children. Her son is 29 years old and her daughter is 26. Their children are not living with them anymore. Rita and Pieter have a dog, whose name is Sproet. In her free time, she like to do gardening, to knit and to take care of her dog. She has been living in the area for 28 years.



Gerard Hoogveen: 54 years old. He works in the municipality. He is married to Marjan, who is a housewife. They have been married for 27 years. Their children are not living with them anymore. One of them is 22, and the other 19 years old. His hobbies are watching football, fishing and automobiles. He has been living in the area for 17 years.



Johannes Doornkamp: 33 years old. He works at the municipality. He is married with Tess, who is working as an elementary school teacher. They have been married for 9 years. They have three children who are 11, 8 and 6 years old. Johannes's parents come from Suriname, but he was born and raised in the Netherlands. His hobbies are football, cooking and doing volunteer work.



Ghazi Alfia: 27 years old. He is unemployed. He has been married with Tira for six years. His wife stayed in Syria with their 5 year-old daughter. He is hoping to reunite with Tira and live together in The Netherlands. He has been living in The Netherlands for three years and he just received his residence permit to stay in the country. In his free time, he likes to play chess and football and he is learning Dutch.

Den Haag Rhythm Analysis

Spatial Analysis Zwaardvegersgaarde



Den Haag Rhythm Analysis

Rhythms in Zwaardvegersgaarde

DAILY ACTIVITY LEGEND



Wake up



Cooking



Eating



Taking kids to school



Going to work



Studying / doing
homework with kids



Coming back home
from work



Leisure activities



Sport activities



Social activities



Watching TV



Eating Together with
family or friends



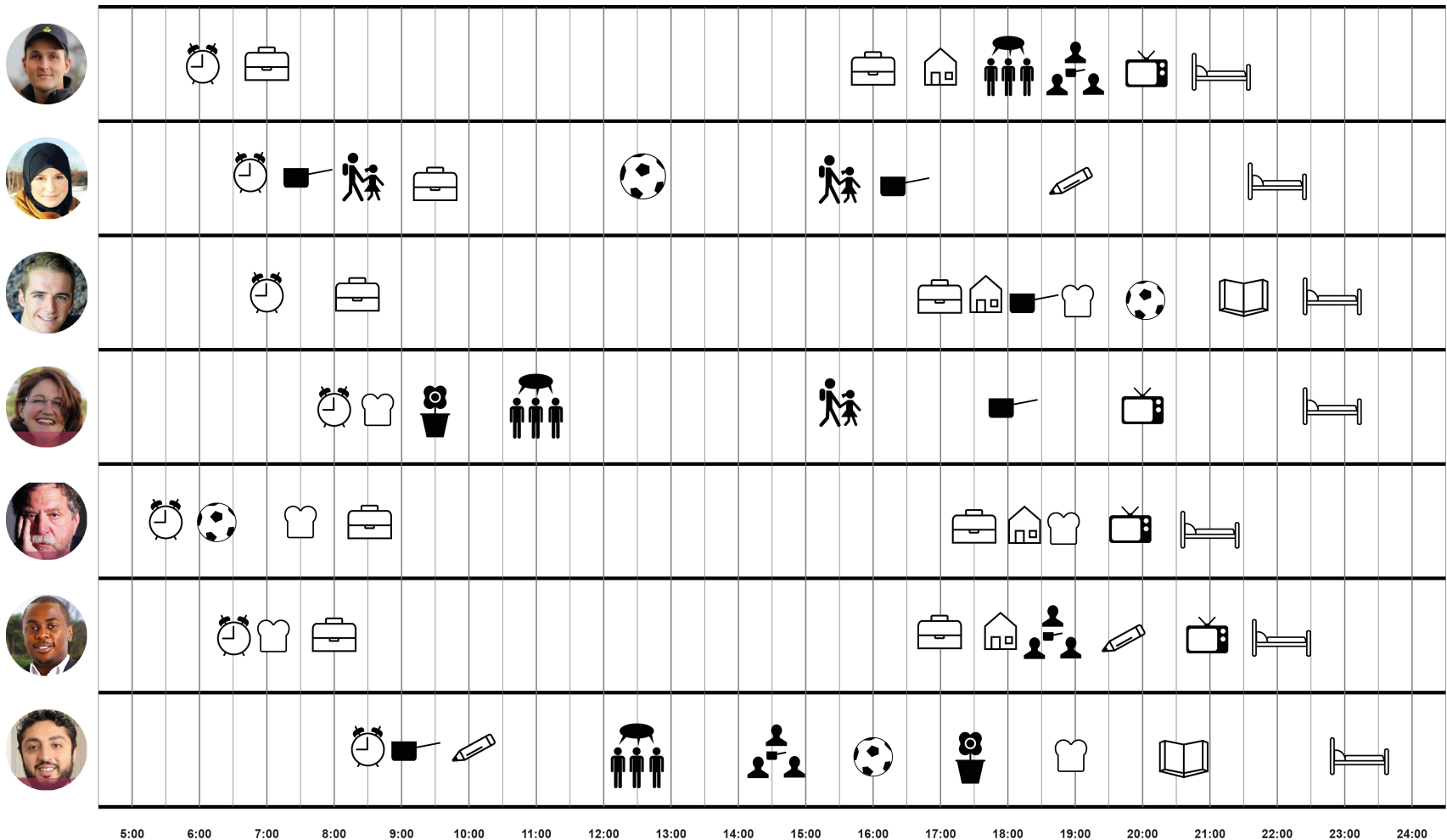
Reading



Going to sleep

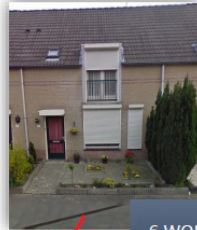
Den Haag Rhythm Analysis

Rhythms in Zwaardvegersgaarde

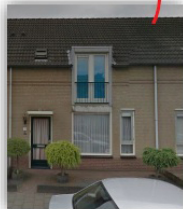


Helmond Rhythm Analysis

Tulpstraat Spatial Analysis and Documentation



6 WONINGEN,
2 TUIJEN MET



RIJ VAN 5 EN VAN 3
WONINGEN, TUIJEN
ONDERHOUDEN



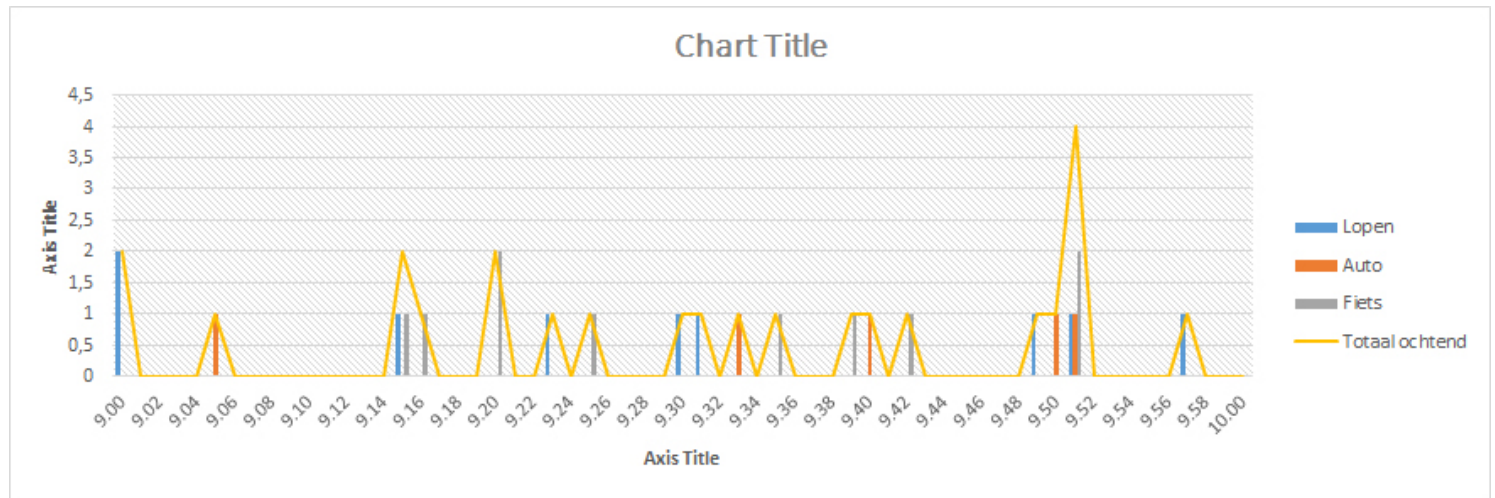
Tijd	Lopen	Auto	Fiets	Totaal ochtend
9.00	2			2
9.01				0
9.02				0
9.03				0
9.04				0
9.05		1		1
9.06				0
9.07				0
9.08				0
9.09				0
9.10				0
9.11				0
9.12				0
9.13				0
9.14				0
9.15	1		1	2
9.16			1	1
9.17				0
9.18				0
9.19				0
9.20			2	2
9.21				0
9.22				0
9.23	1			1
9.24				0
9.25			1	1
9.26				0
9.27				0
9.28				0
9.29				0
9.30	1			1
9.31	1			1
9.32				0
9.33		1		1
9.34				0
9.35			1	1
9.36				0
9.37				0
9.38				0
9.39			1	1
9.40		1		1
9.41				0
9.42			1	1
9.43				0
9.44				0
9.45				0
9.46				0
9.47				0
9.48				0
9.49	1			1
9.50		1		1
9.51	1	1	2	4
9.52				0
9.53				0
9.54				0
9.55				0
9.56				0
9.57	1			1
9.58				0
9.59				0
10.00				0

Tijd	Lopen	Auto	Fiets	Totaal avond
19.00	1			1
19.01				0
19.02				0
19.03		1		1
19.04			2	2
19.05	2		2	4
19.06	1			1
19.07				0
19.08				0
19.09				0
19.10		1	1	2
19.11	1			1
19.12			1	1
19.13				0
19.14				0
19.15	1			1
19.16				0
19.17				0
19.18				0
19.19				0
19.20				0
19.21				0
19.22	1	1		2
19.23				0
19.24	1	2		3
19.25				0
19.26	2		1	3
19.27		1		1
19.28				0
19.29				0
19.30				0
19.31				0
19.32				0
19.33		1		1
19.34			2	2
19.35	2		2	4
19.36	1			1
19.37				0
19.38				0
19.39				0
19.40		1	1	2
19.41	1			1
19.42			1	1
19.43				0
19.44				0
19.45	1			1
19.46				0
19.47				0
19.48				0
19.49				0
19.50				0
19.51				0
19.52	1	1		2
19.53				0
19.54	1	2		3
19.55				0
19.56	2		1	3
19.57		1		1
19.58				0
19.59				0
20.00				0

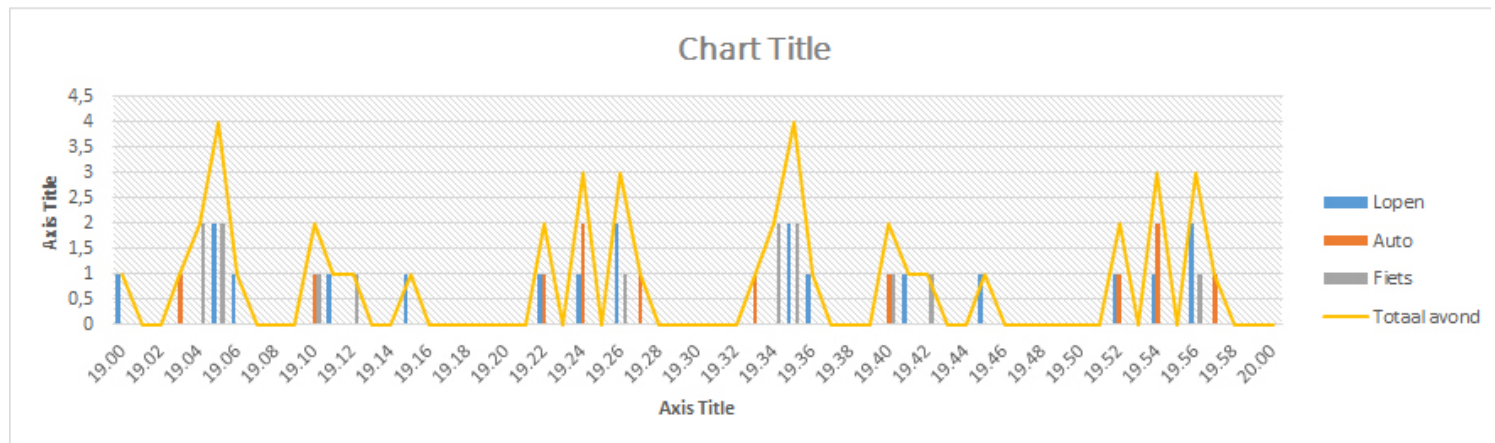
Helmond Rhythm Analysis

Tulpstraat Rhythm Documentation

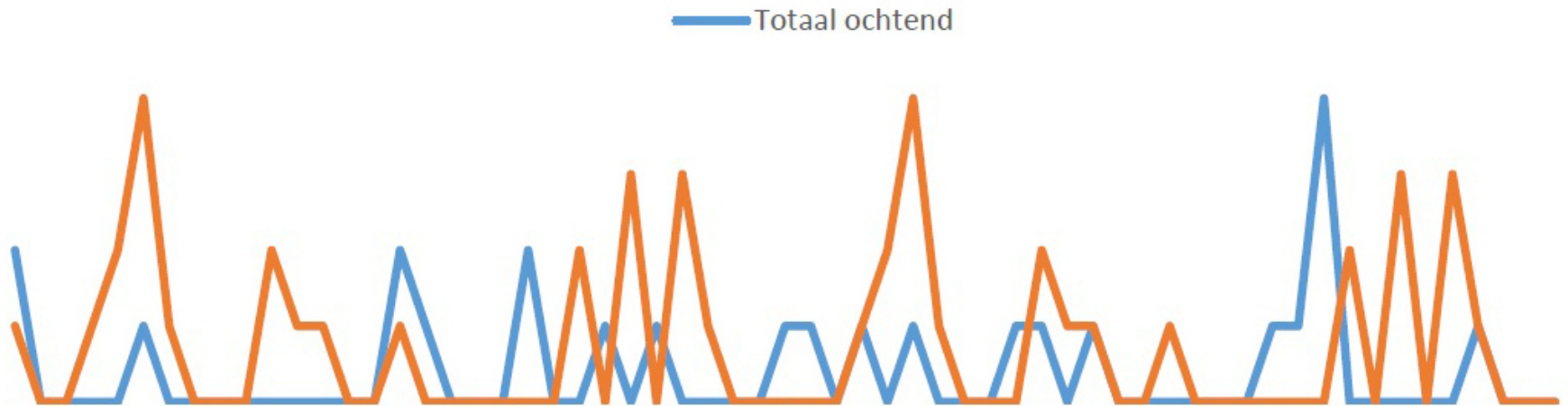
Morning
Rhythms
9-10 AM



Afternoon
Rhythms
7-8 PM



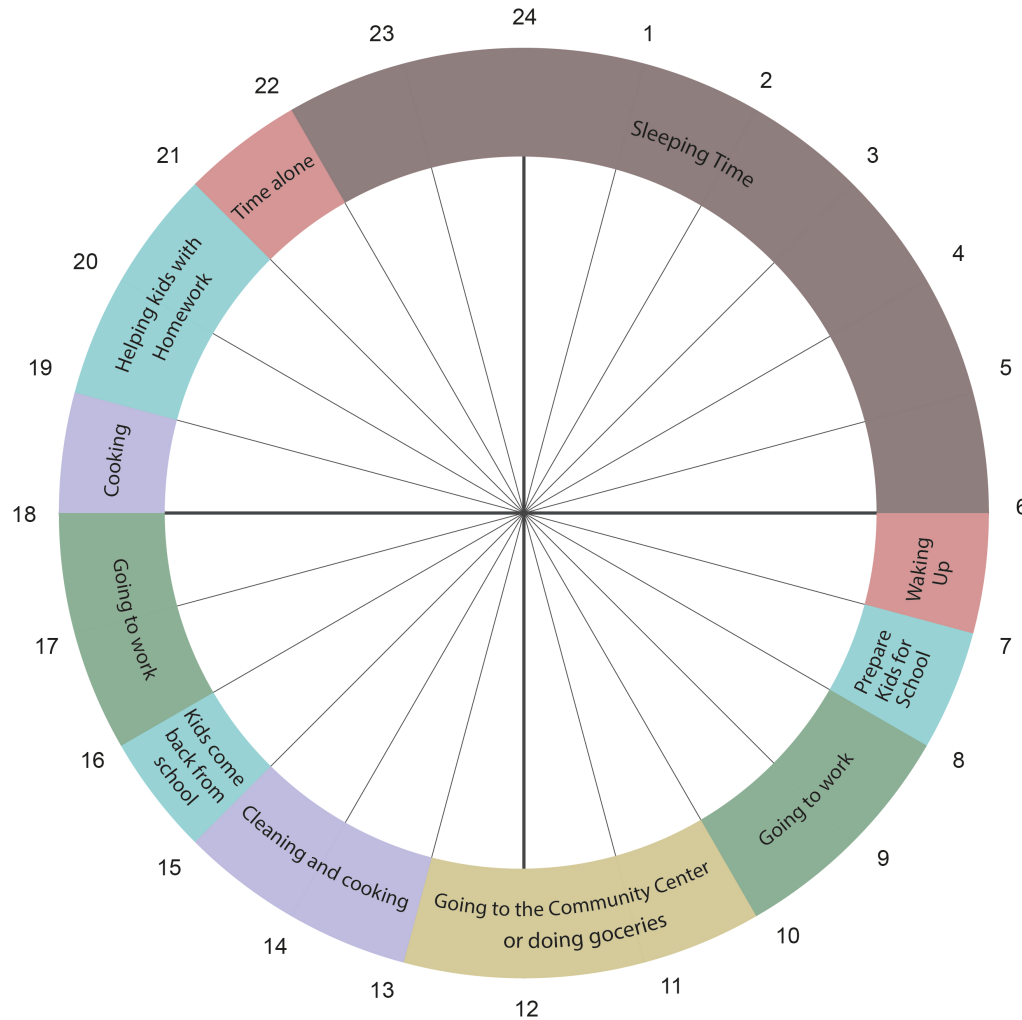
Helmond Rhythm Analysis



Ground Rhythm of Tulpstraat/Beisterveld

Amsterdam Rhythm Analysis

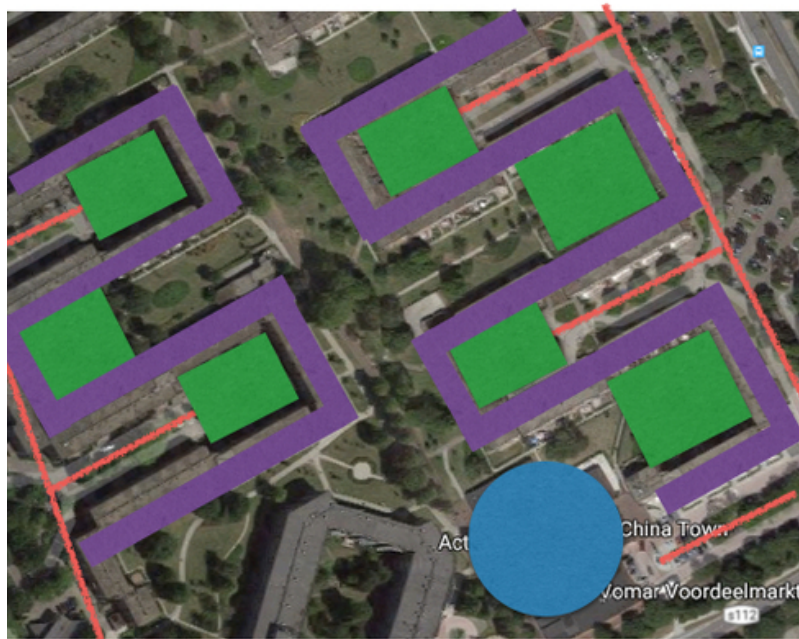
Rhythms of Single Mothers in Zuidoost



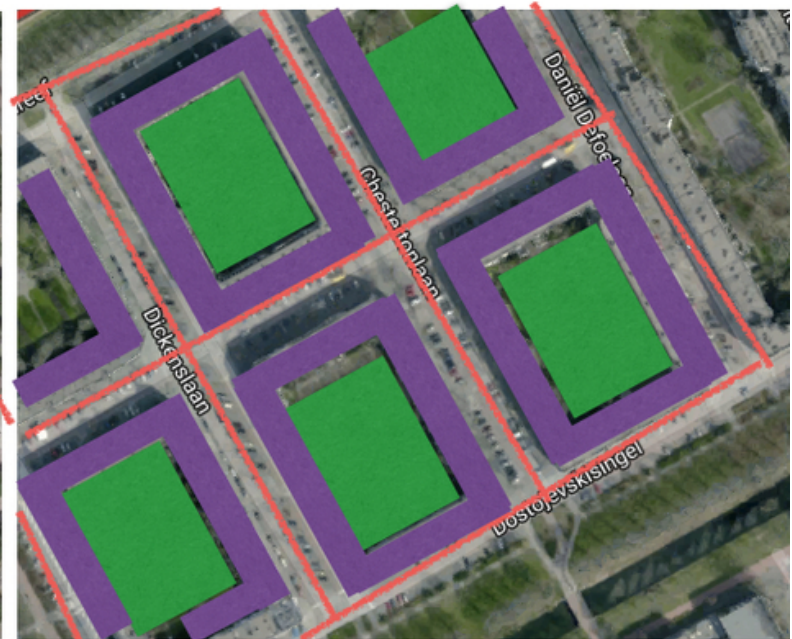
Amsterdam Rhythm Analysis

Spatial Analysis Holendrecht and Venserpolder

Holendrecht



Venserpolder

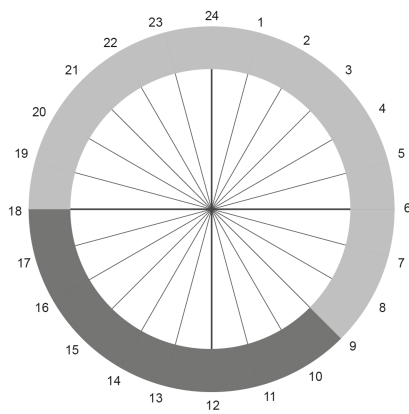


-  communal area for citizens
-  main roads
-  apartment complex

-  shopping centre

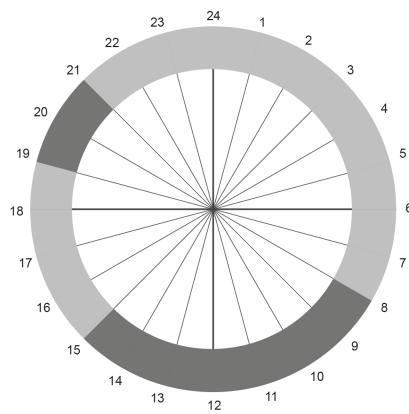
Amsterdam Rhythm Analysis

Opening Hours of Facilities



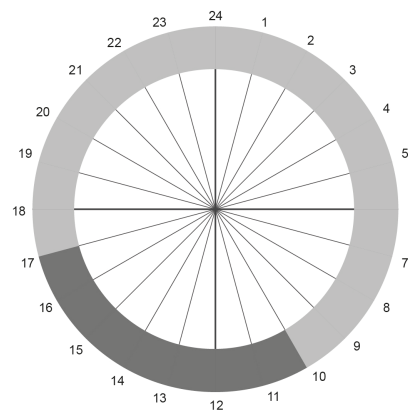
Opening Hours

SHOPS



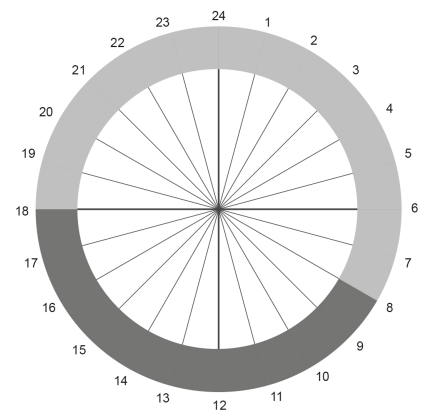
Opening Hours

SCHOOLS



Opening Hours

COMMUNITY CENTER



Opening Hours

MUNICIPALITY

Amsterdam Rhythm Analysis

Rhythms of Single Mothers in Zuidoost

