The Targeted Use of Movement Data Obtained from Mobile Phones in Geomarketing An Experiential Report from the Media Agency Sector

mobalo



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mobalo is a mobile marketing solutions provider, and helps companies to **easily identify, segment & target** customers by **analyzing real user behaviour** via **geographic location** and **movement information** 





## **Types of Customers**

#### Large Media Agencies

- Target Real People with considerable reach
- Increase reach
  despite targeting
- Innovation
  pressure

#### Geomarketing Agencies

- Increase reach through mobile
- Increase possible
  audience
- Reach out to "unreachable audience"
- Differentiator to competitors

Marketing Providers (SEO, Print, Yellow-Pages,...)

- Broaden product
  portfolio
- Upselling
- Differentiator to competition



## BRANDLOCAL Geomarketing Agency

**KEY FACTS** 

» Founded in 2008 as the LOCAL MEDIA UNIT of CROSSMEDIA

» INDEPENDENT agency since 2016

» Position: leading GEO INTELLIGENCE agency

» Target: from big data to LOCAL SUCCESS

» Team: 25 GEO ANLYSTS, local communication experts & planner/buyer

#### OUR GEO INTELLIGENCE SOLUTIONS





### Targeted Use of Movement Data Looking for unique Users at a Shopping Mall

#### What ?

To find the homebase\* of a unique user to better plan a media campaign

eg. newsletters **》** 

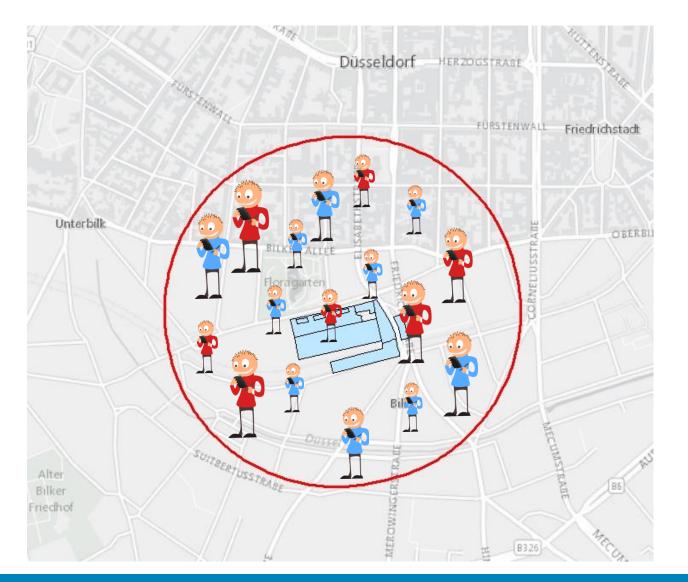
How ?

- » The brainchild of mobalo and brandlocal
- » A large german shopping mall in Düsseldorf was targeted as Pol
- » Advertising traffic over the period of two weeks (End of January / Begin of February) was observed

» Data to calculate mobalo Clusters



## Processing Mobile Traffic within a Geofence



- » Create Geofence
- » Count Smartphone users via GPS
  - Only the ones who were spotted more than once
- Calculate mobalo Big Data Clusters (Hadoop)
  - » Mobalo-UserID, Coordinates, Timestamp
- » Visualize as Maps



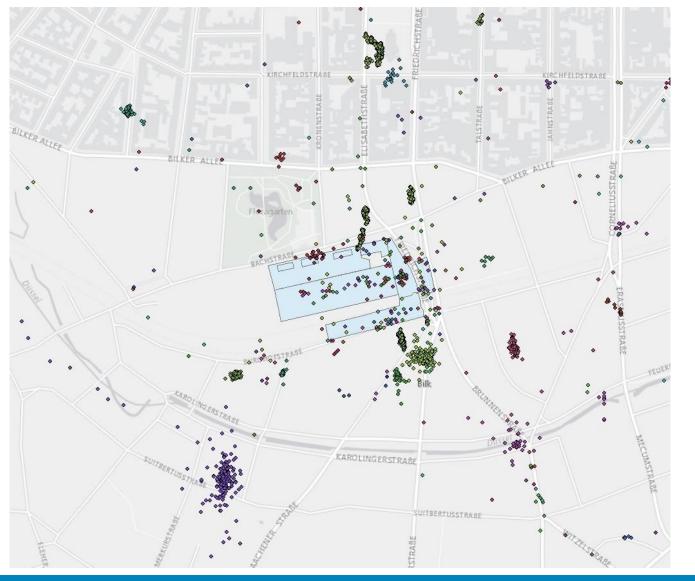
### Arcaden Düsseldorf – The Unique Users found within the Mall



- The Unique Users are represented by different colors
- » 871 Points 161 unique users (only App Traffic)



#### Arcaden Düsseldorf – Where else had the Unique Users been ?



- The Unique Users who were found inside the Arcaden could be located outside
- » Specific clusters or hotspots could be identified



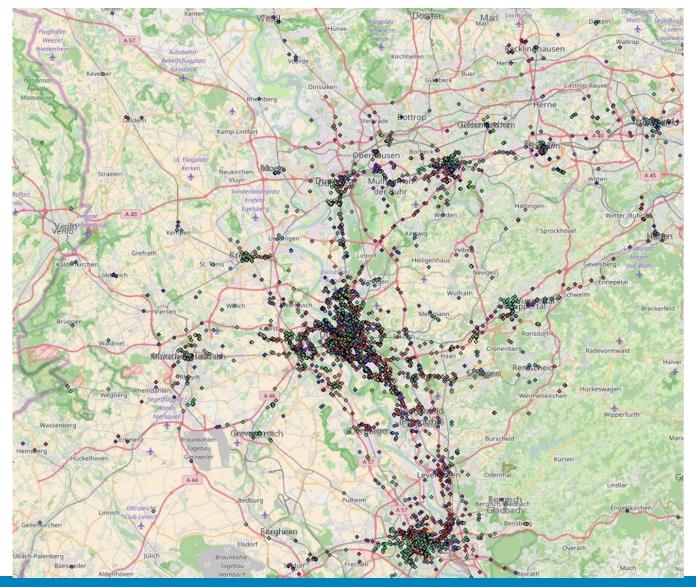
#### Arcaden Düsseldorf – Geofence 500 meter



- » A geofence is important, to identify potential visitors of Arcaden
- » Unique Users who were not spotted inside Arcaden but within the geofence may not have used their mobile device inside
- » 368574 Data Points 1000 unique Users (only App Traffic)



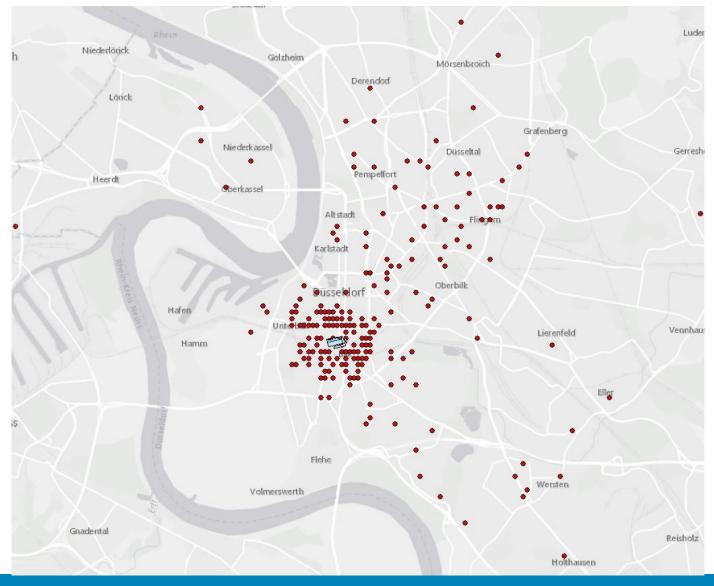
### Arcaden Düsseldorf – All Users found within a 500 m Geofence



- Here we can identify the different cities from where Unique Users were spotted within the 500 m geofence
- > Users can be located along with roads/highways, but they are considered noise in the data set and can be cleaned out.



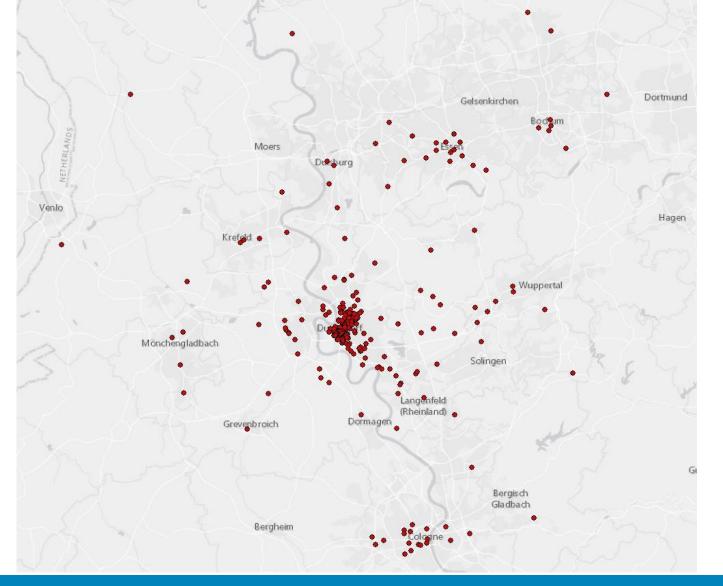
## **RESULT: Homebases of approx.1000 Unique Users**



» Homebases in and around Düsseldorf



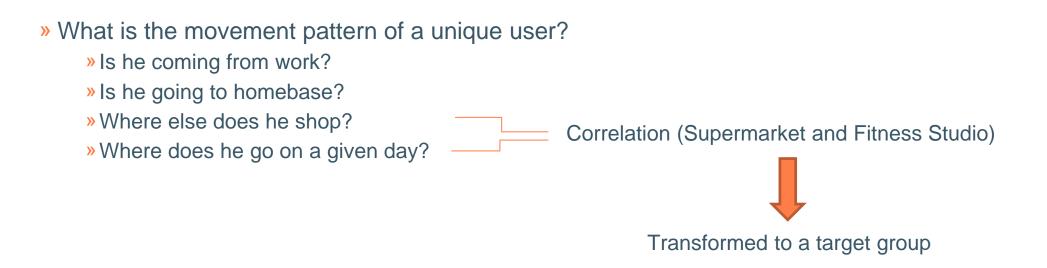
# **RESULT: Homebases outside Düsseldorf**



» A pattern from the region

#### mobalo

#### Future works What else can we find out from this data?



» How long is a unique user in the Shopping Mall?

» How often is a unique user in the Shopping Mall?

» Patterns are good, recurring patterns are even better!



#### Some statistics

- » Max. views per user: 8827
- » Min. views per user: 2
- » Average views per user : 402

Distribution of 1000 unique users within 500 m geofence.

Weekday	<b>Total Users</b>
Monday	264
Tuesday	226
Wednesday	41
Thursday	144
Friday	64
Saturday	166
Sunday	94



### Investors, Sponsors and Partners



Gefördert durch Bayerisches Staatsministerium für Wirtschaft und Medien, Energie und Technologie



eesa business incubation centre Bavaria





WILLENDORFF TECHNOLOGIES







#### Some of our Clients



Fetch



Bundesministerium

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ה randstad











🔀 CROSSMEDIA







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