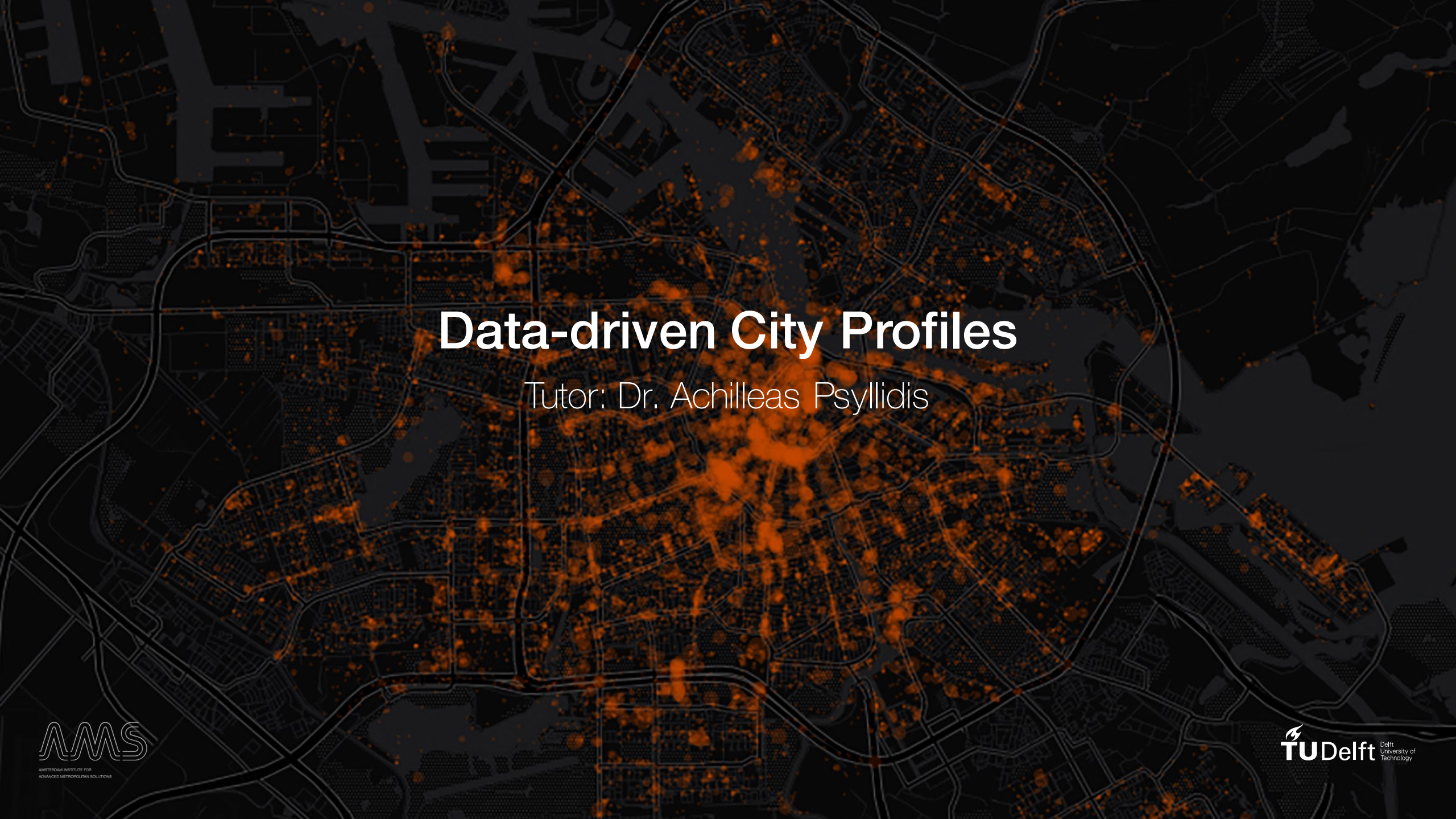


Data-driven City Profiles

Tutor: Dr. Achilleas Psyllidis

AMS
AMSTERDAM INSTITUTE FOR ADVANCED METROPOLITAN SOLUTIONS

TU Delft Delft University of Technology

Neighborhoods = City districts that share the same *character*

Assignment

- Design and implement a system that *automatically detects neighborhoods* in the city of Amsterdam, characterized by *common attributes*.
- Use primarily *social media* as a source of information.
- The selected attributes will ideally *vary over space and time*.
- Result: an online atlas of various data-driven profiles of Amsterdam.

Data sources

- Mandatory: *Twitter*; *Instagram*; *Foursquare*; *Flickr* etc. (using their APIs)
- Optional: *AirBnB*; *TripAdvisor*; *Uber* etc. (using data scraping)

Examples of attributes

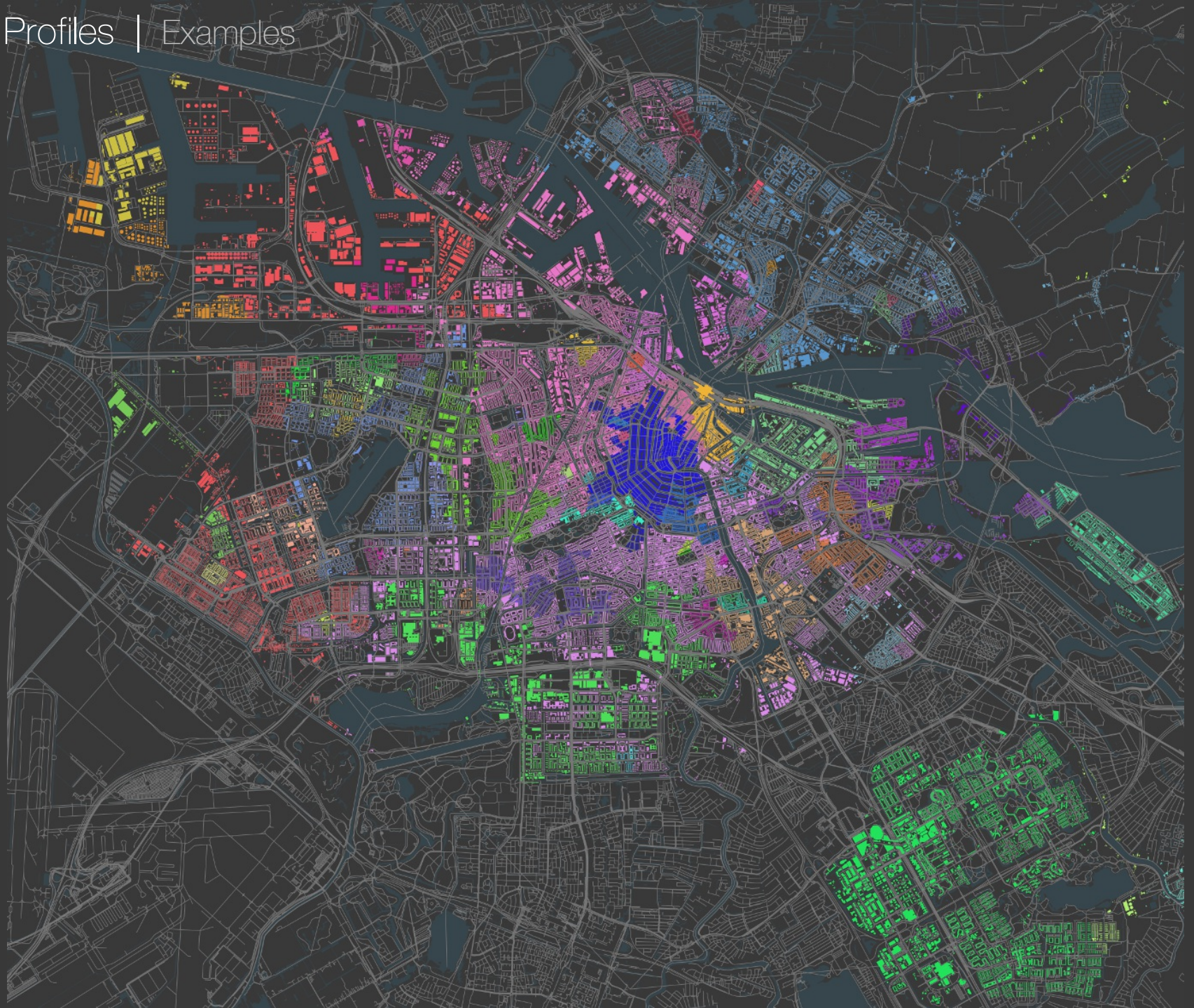
- Topics (using text mining)
- Language
- Online contacts (followers etc.)
- POI categories
- User profile information (e.g. age, gender, nationality etc.)
- Others?

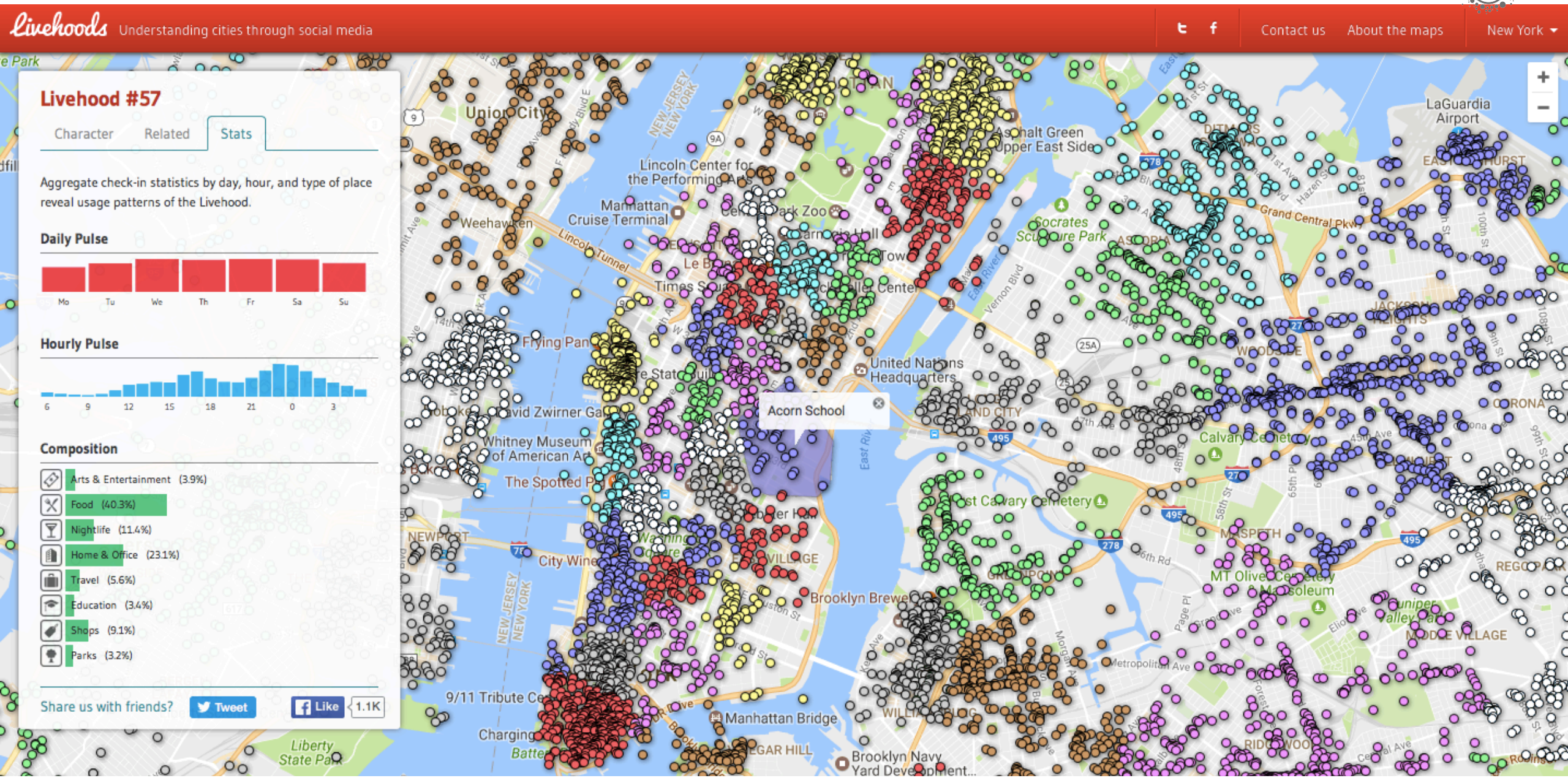
Search Engine

- ElasticSearch

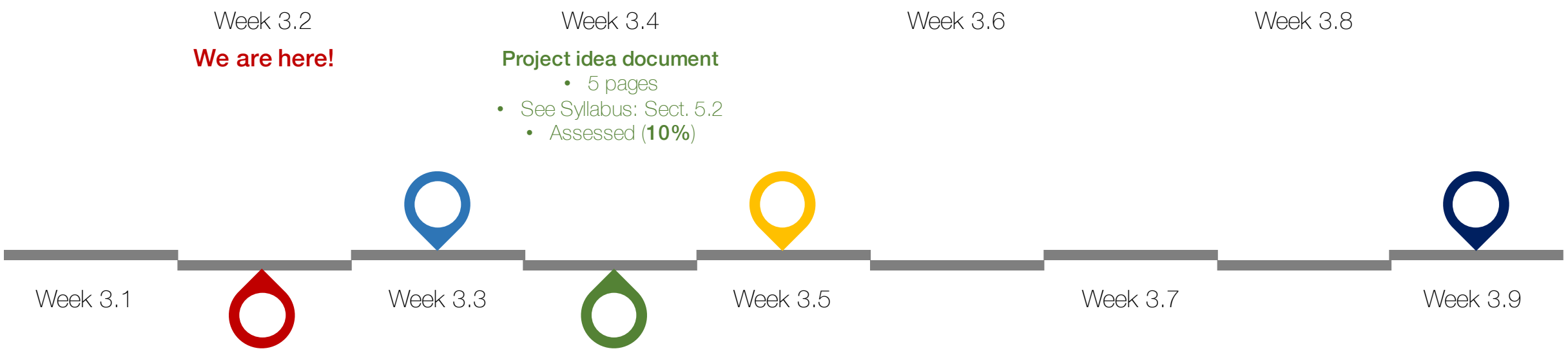
Web mapping

- Leaflet, Carto etc.





Livehoods: New York. ***http://livehoods.org***


Week 3.2
We are here!
Week 3.4
Week 3.6
Week 3.8
Project idea document
• 5 pages
• See Syllabus: Sect. 5.2
• Assessed (10%)
Week 3.1
Week 3.3
Week 3.5
Week 3.7
Week 3.9
Pitch presentation
• Duration: 3 mins
• Idea / Components / Responsibilities
• Not assessed
Last chance for group composition changes
Final Presentation
• Duration: 20 mins
• Q&A: 10 mins
• Assessed (50%)
+
Individual group report
• 2–3 pages
• Assessed (20%)

Off to a great start!