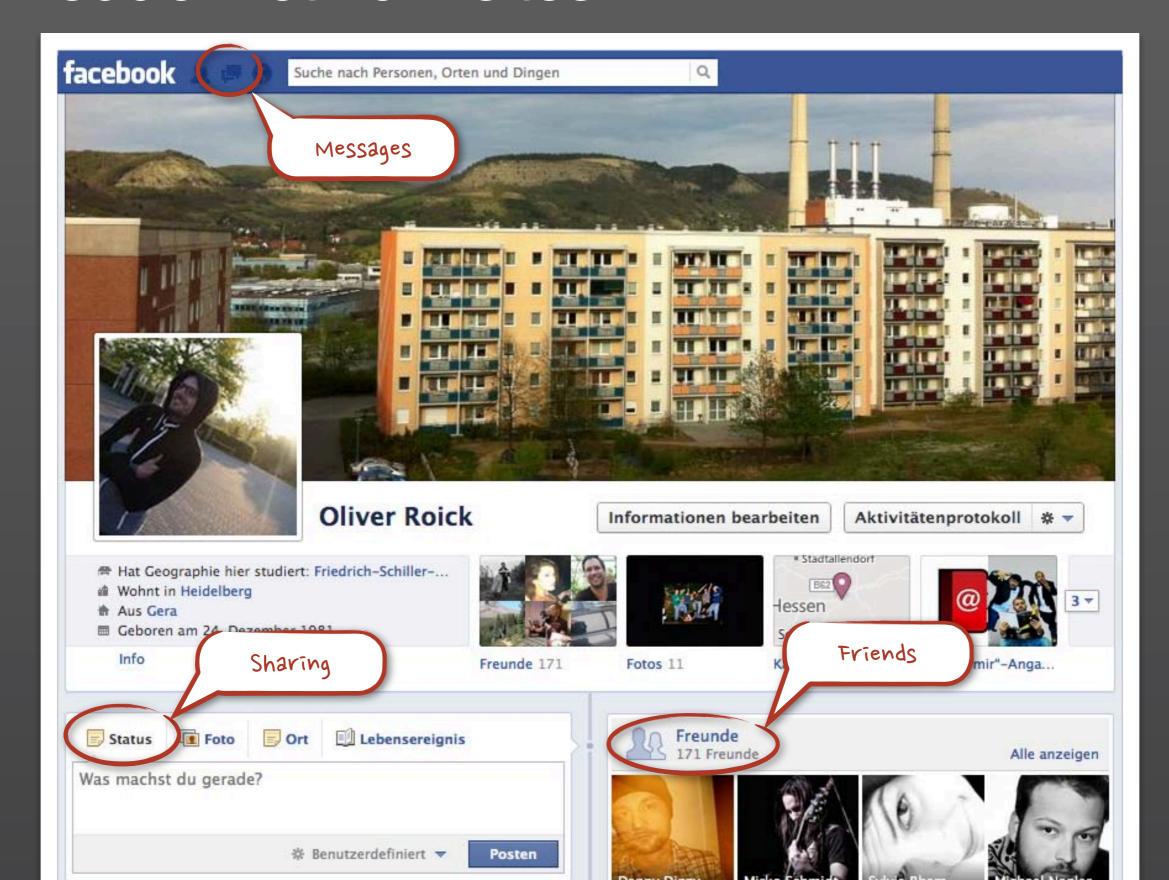
# location based social networks

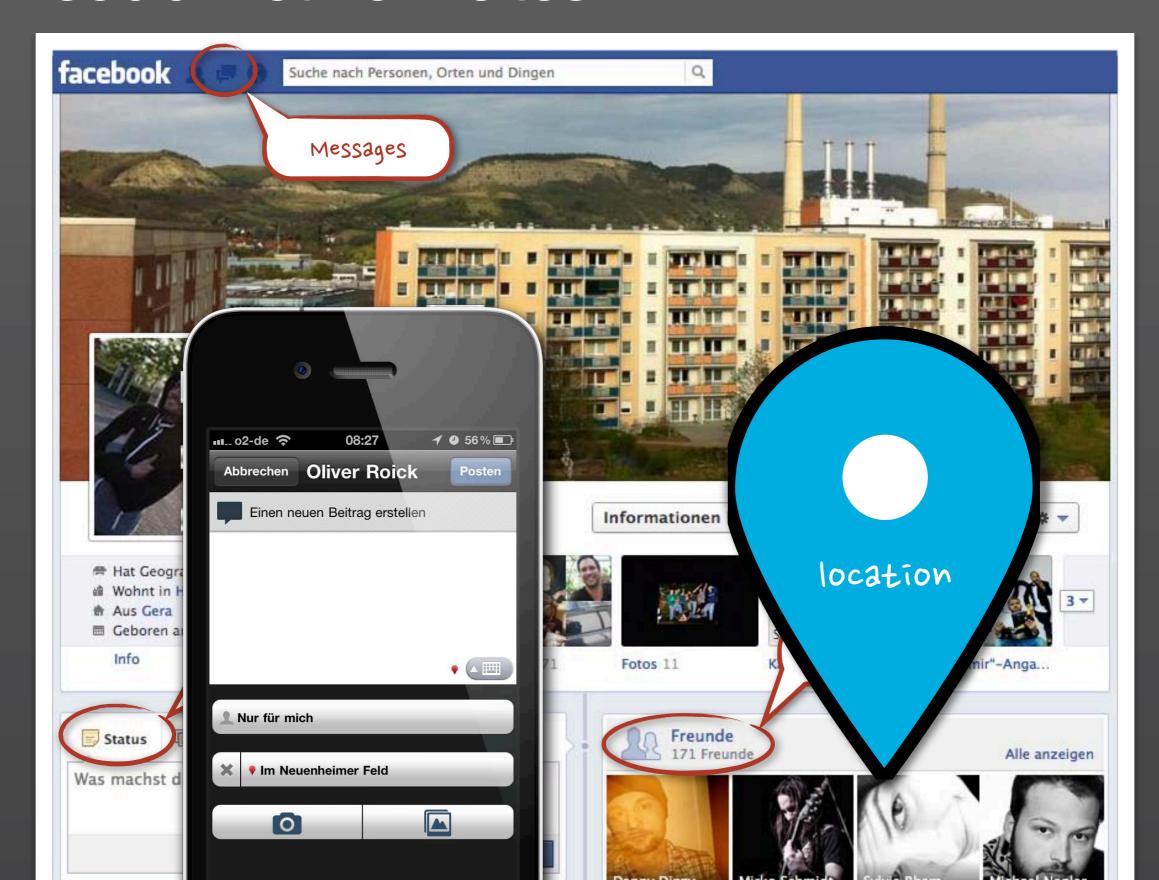
towards a research agenda

# what are location based social networks?

#### social network sites



#### social network sites



#### geosocial networking



#### Oliver Roick checked in at Karlstorkino

0

3 weeks ago via foursquare for iPhone



#### Zoetrope - Level 2

That's a lot of movie theater check-ins! Now, can you pick us up a large popcorn while you're up?

That's 5 different theaters. Visit 5 new spots to unlock Level 3. More movie munchies await you!



5



Your first check-in at Karlstorkino!

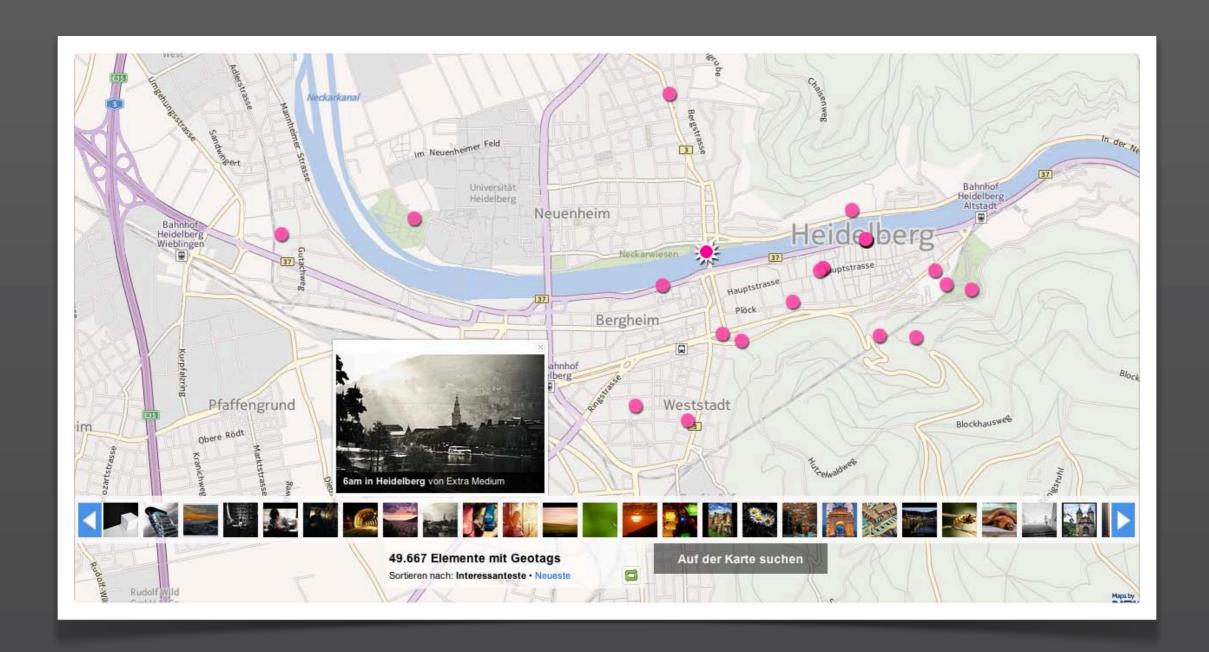
24.3



First of your friends to check in here

12

#### geotagging

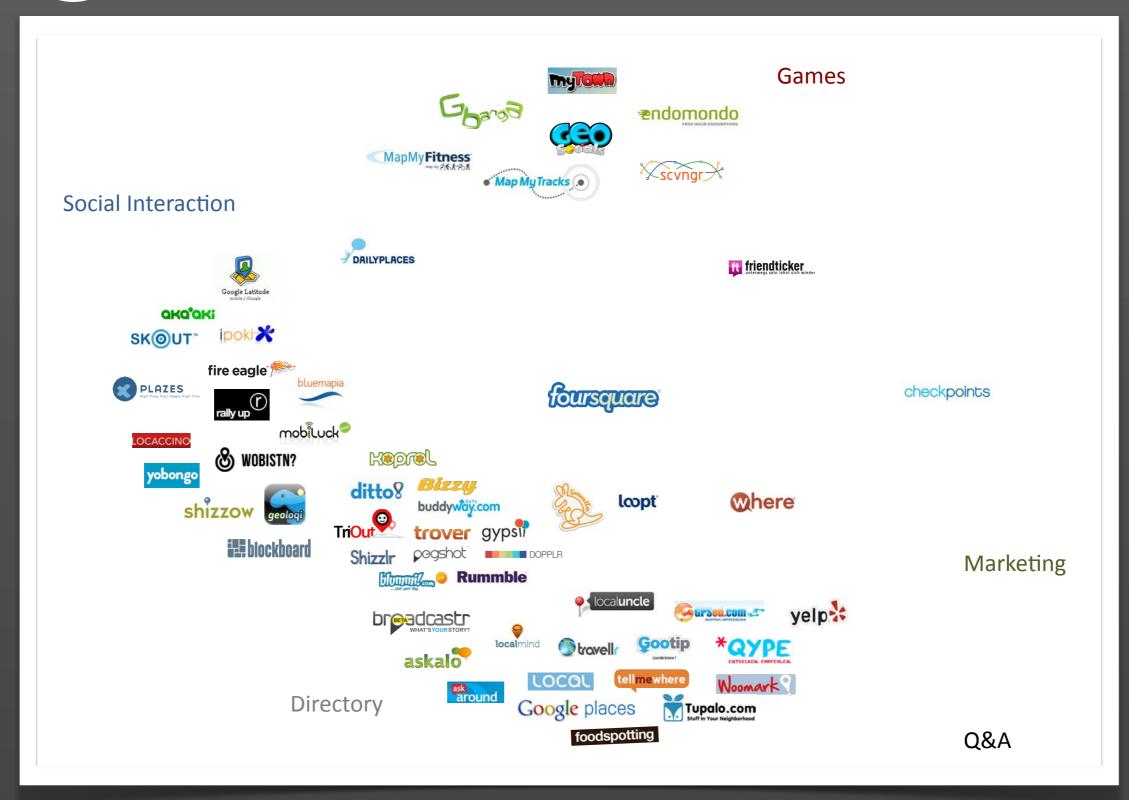


### towards a research agenda

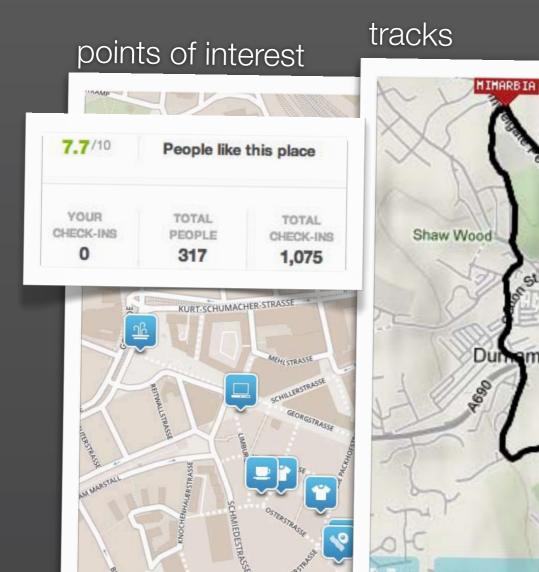
#### towards a research agenda

- 1 applications & data
- 2 quality assesment
- 3 fusion of data sets

## 1 which applications?



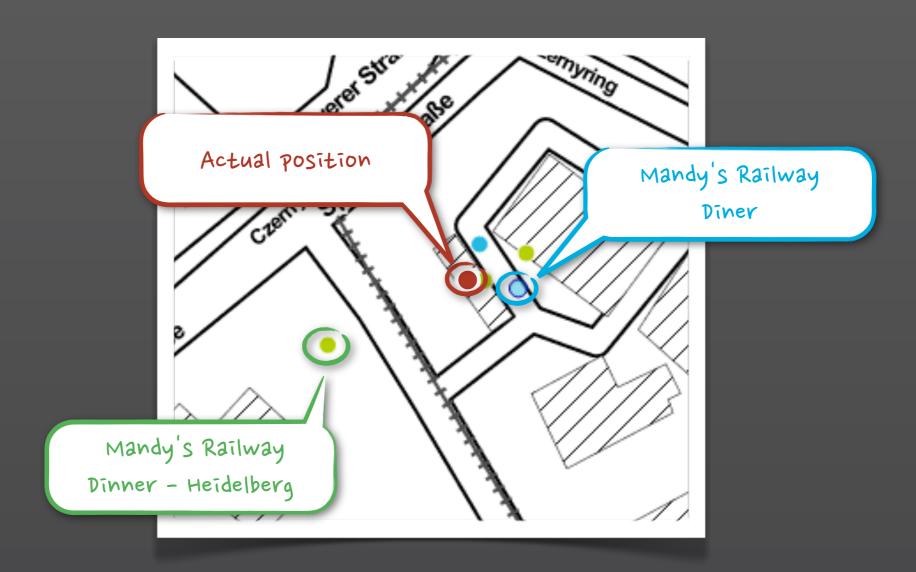
# 1 what data?



#### textual information



## 2 quality positional accuracy



## 2 quality attribute completeness

|                 | Foursquare |       | Facebook |        |
|-----------------|------------|-------|----------|--------|
| records overall | 114.284    |       | 24.263   |        |
| full address    | 33.528     | (29%) | 1        | (0%)   |
| city + street   | 59.999     | (52%) | 17.450   | (71%)  |
| city            | 76.010     | (67%) | 21.287   | (88%)  |
| street          | 62.432     | (55%) | 17.504   | (72%)  |
| category        | 100.852    | (88%) | 24.263   | (100%) |

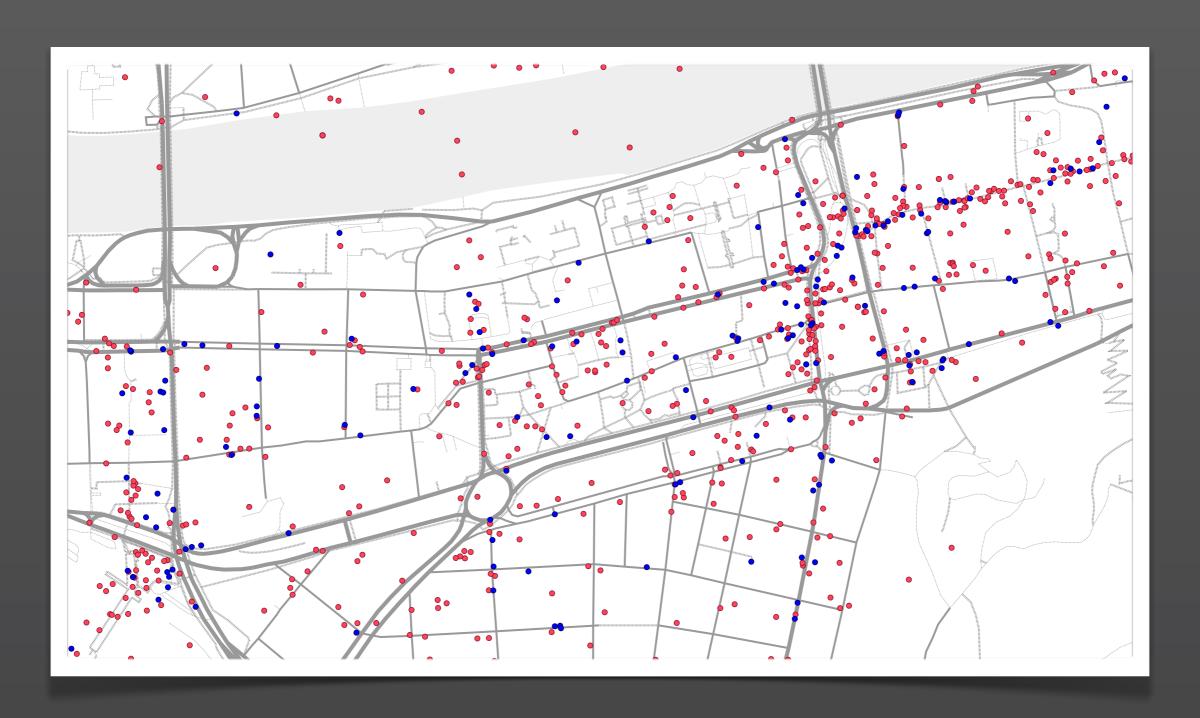


dataset completeness

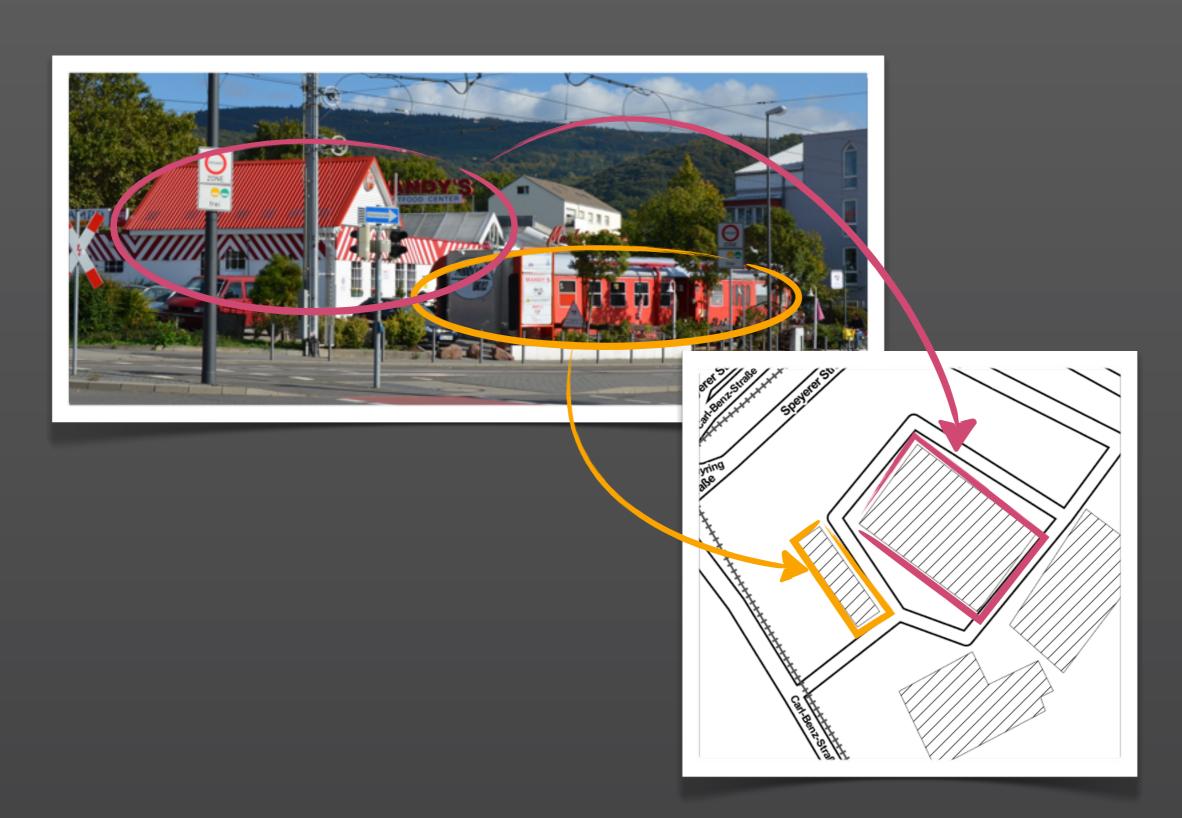
temporal evolution

influence of user activity

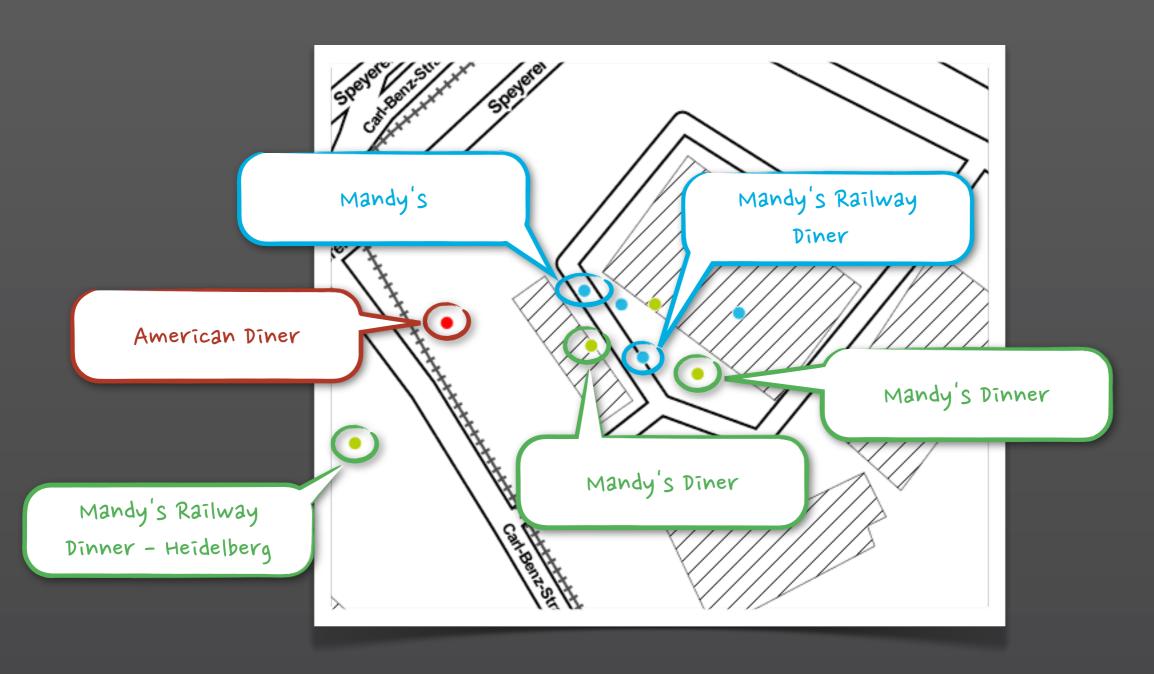
# 3 fusion problem



#### 3 fusion the mandy's problem



### 3 fusion the mandy's problem



### 3 fusion geometry conflation



how to weight geometry?

#### 3 fusion attribute conflation



which is the "most correct" record?

how can the "most correct" record be complemented?

# thank you. questions?