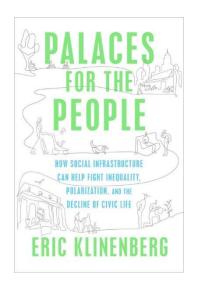




## Community as a concept



coexistence restoration solidarity sociality interaction security protection segregation social justice support minority culture belonging identity exclusion policy safety conflict mobilisation protest care activism unrest social capital provision majority recognition boundary inclusion contact cohesion regulation disorder citizen

Resurgent interest in forms of built environment conducive to rich civic life and strong communities (Klinenberg 2018)

The concept has a unique ability to represent the notion of collective well-being and positive social relations and to denote a description or categorisation of social problems and `problem populations' (Mooney and Neal 2008)

Discussions of the meaning of community and the connections within and between communities necessarily spill over into debates about the research methods needed to capture community phenomena (Crow & Mah, 2012)



'Montreal's Italian community'

Tonnies, Simmel, Wirth, Park... divided community and society community = typically rural, close connections, morally superior society = urban, weak and depraved relationships

'the gay community in London'

Definition of community typically operationalised still carries this legacy as a measure of interpersonal networks (and the qualities of those networks - centrality, density, tie strength, structural holes...)

'the scientific community'

> However... community as strong ties only does not really fit how the term is used in every day life...

(Oxford, 2012)

Sense of belonging, group cohesion and reciprocity (McMillan & Chavis, 1986) Shared values, ways of life and mutually recognised identities (Mason, 2000)



Community (Oxford, 2012): A group of people

- 1. living in the same place or
- 2. having a particular characteristic in common







PEOPLE BASED

Territorial and relational dimensions of community. Gusfield (1975)

Communities need a "spatial or demographic anchor around which relationships and social capital can coalesce" (Neal, 2015)



# Department of Urban Age – Seed Funded Study

Search based on terms: community, urban, city, neighbourhood, spatial\*, embed\* & place

Post ca.2000 only

top 100 results of each search were reviewed

- ~ 1000 titles considered
- 1. 71 in depth, 50 included
- 2. 33 in depth, 10 included

Interest in socio-material determinants of urban community prompted LSE Cities seed-funded research <u>Measuring</u> <u>Community in an Urban Age</u>.

Study team: Alasdair Jones and Meg Bartholomew

#### Review based study to:

- 1. Gather, review and thematically synthesise studies that have employed an understanding of social and/or infrastructural networks to understand issues related to urban communities;
- 2. Search for studies that use network-based approaches to analyse the social consequences of transport patterns in urban settings;
- 3. Distil the range of methodologies employed to date to analyse urban neighbourhood-level networks constitutes by both 'hard' (infrastructural/morphological ) and 'soft' (social) networks



# What are the relationships that make Community?

Щ

Eponymous

: Family and Friends — nameable alters (eg. village community)

Institutional

: Relationships from work, school, etc (eg. alumni)

Avocational

: Shared hobbies and interests (eg. cycling community)

Familiar Strangers

: People not known by name that share space or identity

(eg. ethnic communities)



Neighbourhood

: Home localised relationships

Third Place

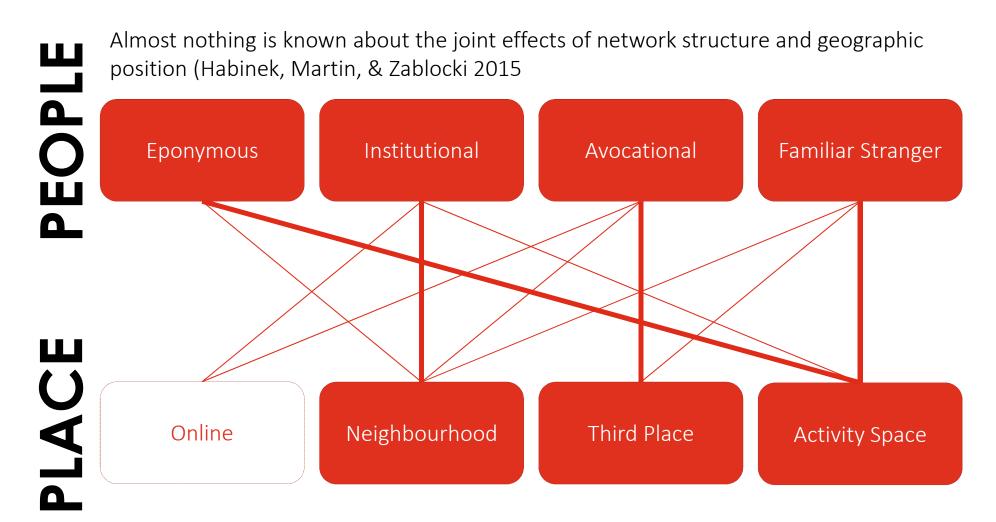
: People from regularly frequented favourite locations

**Activity Space** 

: Encounters along daily routines



### Socio-material Overlap







## **Eponymous Relationships**

Tie Type: STRONG

PEOPLE

#### **Eponymous**

Institutional

Avocational

Familiar Strangers

Community is implied by clustering in whole networks

Useful to inform who people choose to spend to with and the underlying characteristic of potential communities

Number of named ties generally less than 50 so groups are too small to represent entire communities in most cases

Neighbourhood

Third Place

Activity Space

Bulk of contacts made through family or friends of friends, and also work, organisations, neighbours

Distance matters – for the formation of new ties particularly and generally 50% live within 25km





# Institutional Relationships

Tie Type: STRONG & WEAK

EOPLE

Eponymous

Institutional

Avocational

Familiar Strangers

"established official organisation" (Oxford, 2018). Not necessarily but generally has a physical presence

More critical than neighbourhoods to strong ties (Nast & Blokland, 2014)

Level of community higher in areas with more facilities (Volker, Flap & Lindenberg, 2007)

PLACE

Neighbourhood

Third Place

**Activity Space** 

Unclear whether online is as formative as face-to-face

Institutions can be significant sites of bridging capital, especially through schools – cohesive communities



# Avocational Relationships

Tie Type: STRONG & WEAK



Eponymous

Institutional

**Avocational** 

Familiar Strangers

Very definition of community as shared interest, however least studied area in relation to community formation. Five loosely related studies only

Co-presence and shared practices can lead to movements and collective action (Diani & Mische, 2015)

LACE

Neighbourhood

Third Place

**Activity Space** 

Cultural choice can either bridge or divide society (Lizardo, 2014)

Behavioural studies suggest who you spend your time with influences your behaviour as much as close relationships (Pentland, 2014)



### Familiar Strangers

Tie Type: WEAK or subWEAK



Eponymous

Institutional

Avocational

Familiar Strangers

Familiar Strangers (Milgram, 1977);

Consequential Strangers (Blau & Fingerman, 2009)

Familiar people from everyday situations providing repetitive reinforcement of sense of community & identity (Neal, 2013; Fingerman, 2009)

Co-presence and shared practices can lead to movements and collective action (Diani & Mische, 2015)



Neighbourhood

Third Place

**Activity Space** 

Weak ties more important than strong for social cohesion (Hipp & Perrin, 2009)

Smart card travel data shows strong periodic encounters in 75% of cases with a heavy tail (Sun, et al, 2013)



# Neighbourhood Relationships

Tie Type: STRONG & WEAK

Eponymous
Institutional

Avocational

Familiar Strangers

Most widely studied area – aligns with dictionary definition

Seven studies found moving or living close to others in your social network positively impacts relationships and can be a trigger to form new ones, neighbours beget neighbours

#### Factors:

- Age of neighbourhood and length of residence
- Age and number of children
- Socioeconomic homogeneity or stratification

Is neighbourhood overemphasised? 50% of respondents do not name anyone in their local neighbourhood in egogenerator surveys (Volker & Flap, 2007). Assumed +ve

Spatial arrangements of neighbourhoods may still play a significant role in the formation of local communities and neighbourly interactions (Mahmoudi Farahani, 2016:362)

# LACE

#### Neighbourhood

Third Place

**Activity Space** 





## Third Place Relationships

Tie Type: TYPICALLY WEAK

EOPLE

Eponymous

Institutional

Avocational

Familiar Strangers

Ray Oldenburg (1991) *The Great Good Place* = accessible, non-exclusive, quality spaces outside of home and work

Level of community higher in areas with more facilities (Volker, Flap & Lindenberg, 2007). Walkability, land use mix and street interconnectivity also has a positive relationship to social capital (Mazumdar et al., 2018).

**LACE** 

Neighbourhood

Third Place

Activity Space

Parks and Shopping Areas feature highly, often mundane spaces are the most important

Leftover spaces and "in-between activities such as waiting and queuing, established favourable conditions for ... social interaction with strangers to occur"...the "more criss-crossing of paths and activities, the more the social density and the likelihood of unplanned encounters" (Aelbrecht, 2016)



# Activity Space Relationships

Tie Type: STRONG & WEAK

EOPLE

Eponymous

Institutional

Avocational

Familiar Strangers

Concept often used in Transport Studies

Neighbourhood redefined as flows of mobility (Van Kempen & Wissink, 2014)

Overlapping activity spaces reoccur with different groups of familiar strangers over the course of a day (Sun et al, 2013; Leng, et al., 2018) and people living in the same area are more than randomly likely to work in the same location (Tilahun & Levison, 2011).



Neighbourhood

Third Place

**Activity Space** 

Face Block Communities (Young & Willmott, 1957) & Belonging
Social Cohesion – segregation and intergroup contact
Economic Development – diversity and opportunity
Information Spread – strength of weak ties (Granovetter, 1973)



# CITIES Socio-material Department of Double Embeddedness

# PEOPLE

# PLACE

A relationship between two people "may be embedded in a local structure of other relationships, in turn embedded in geographic space" (Habinek et al., 2015: 27).

#### Six studies collected both social & spatial data

Larsen, J., Axhausen, K., & Urry, J. (2006)

Cattell, Dines, Gesler, & Curtis. (2008)

Nast, J., & Blokland, T. (2014)

Simões Aelbrecht, P. (2016)

Oloritun, Rahman & Pentland, Alex & Khayal, Inas. (2013)

Francis et al (2012)

#### Eight studies used spatially signatured big data sets

Xu, Y., Shaw, S., Zhao, Z., Yin, L., Lu, F., Chen, J., . . . Li, Q. (2016)

Trestian, I., Kuzmanovic, A., Ranjan, S., Nucci, A. (2009)

Xu, Y., Belyi, A., Bojic, I., & Ratti, C. (2017)

Schlapfer M, et al. (2014)

Sun, L., Axhausen, K., Lee, D., & Huang, X. (2013)

Bingham-Hall, John, & Law, Stephen. (2015)

Ahas, R., Silm, S., Järv, O., Saluveer, E., & Tiru, M. (2010)

Agryzkov, T., Martí, P., Tortosa, L., & Vicent, J. (2017)



# Methodology: Data Department of Collection Approaches

Data Collection	<b>PEOPLE</b>	PLACE	
Big Data	3	7	
Ego Generators	3	8	
Interviews	12	12	
Survey	8	13	
Observation	2	3	
Mapping	3	5	

Methods that capture something more than ties:

Sense of belonging, group cohesion and reciprocity (McMillan & Chavis, 1986)

Shared values, ways of life and mutually recognised identities (Mason, 2000)



# Methodology: Analysis

_	_	
	7	

Analysis Used	People Based	Big Data	Place Based
	Instruments	Instruments	Instruments
Qualitative	9	1	4
Network Analysis	5	6	3
Statistical Analysis	3	1	0
GIS / Mapping	1	2	0
Regression Model	12	0	1
Various Models	6	1	0

# PLACE

Ethnographic

Social Science / Economic

Computer Science

QUALITATIVE

**QUANTITATIVE** 



## Policy Implications

Wellbeing

Tie Type: STRONG Eponymous Relationships

Time spent socialising, in particular with strong and volunteering based ties, has significant effects on reported enjoyment as well as emotional and material support (OECD, 2017)

Inclusion

Tie Type: STRONG & WEAK

Institutional, Avocational, Neighbourhood Community is by definition inclusive and exclusive. Finding a balance between promoting identities that foster a positive sense of belonging without causing deep divisions is a policy challenge

Social Cohesion

Tie Type: WEAK

Familiar Strangers, Activity Spaces, Third Places Social Cohesion = social relations, sense of belonging, and orientation towards the common good (Schiefer & Noll, 2017). Weak ties found to be most social cohesive (Hipp & Perrin, 2006)



### Further Proposed Studies

Wellbeing, Institutions & Neighbourhoods A wider study has been envisioned that would explore the relationship between modes of travel at the neighbourhood level and a) measures of community using Social Network Analysis and b) qualitative accounts of community belonging. An observational study design (Rosenbaum, 2000) is proposed which will survey and interview parents at a stratified sample of primary schools in London. This data will be used to understand i) school travel habits at the individual level and ii) connection between respondents and other individuals and institutions at the neighbourhood level. Multiple sources of data will be collected – spanning qualitative and quantitative, social and spatial – with a view to generating a multi-level, spatialised understanding of relationships between school-based travel behaviour and qualities of 'local community' measured as a socio-spatial construct (e.g. density of ties, perceptions of community, levels of social capital, provision and use of third spaces and so on)

Social Cohesion, Familiar Strangers & Activity Spaces

Investigating the role of familiar and consequential strangers on social cohesion using street markets as places of frequent encounter of different others in public space. Implicit aggressions between different ethnic groups is a feature of current urban existence, markets are at the front line of interethnic exposure and therefore play a key role in this exchange. Studying spatial and social network manifestations in the market is intended to open discussion on pluralities of public space as both perpetuators of established prejudice but also catalysts for social cohesion. In literature, mere contact effect is a factor in ethnic social cohesion, do structural and institutional relations and inequalities, as manifest in a market, unconsciously translate into public sensibility? Can logics of ethnic territoriality in every day activity spaces significantly impact on wider community cohesion?





Presentation at AAG Conference in Washington DC

Paper invited for *The Handbook of Cities and Networks* (Neal and Celine Rozenblat, Edward Elgar Publishers) (in preparation)

Separate methodological paper (hopefully)

- Collaborations
- Publication Suggestions
- Further Presentations

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