Cyclist as a Minority Group?

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Acknowledgements

This work was supported by the European Commission under the Grant [number 635975]. Co-funded by the Horizon 2020 Framework Programme of the European Union (2014-2020) under contract number: 635975 Project XCYCLE.

Abstract

In the social science, several definitions of minority group can be found. The definitions include different aspects such as power/status, number, distinctiveness, social category, group context, dispositions, and discrimination. Compared to motorized road users, cyclists are considered vulnerable road users because they lack physical protection. We argue that such definition does not capture the social and cultural aspects that characterize the membership within the group of cyclists. We examined whether cyclists may share some features of the experience of minority groups. Although cyclists differ from other minorities in important respects, they manifest many of the characteristics by which minority groups are defined.

Keywords: cyclist, minority, vulnerable road user, driver, traffic, road, safety, cycling, identity, inequality, social movements

Cyclist as a Minority Group?

Bicycle use as a mode of transport is associated with population-level health benefits (Götschi, Garrard, & Giles-Corti, 2016; Kelly et al., 2014) as well as with reduced traffic congestion, air and noise pollution, and greenhouse gas emissions through reduced fossil fuel consumption (de Nazelle et al., 2011; Macmillan et al., 2014; Xia, Zhang, Crabb, & Shah, 2013). However, safety considerations contribute as barriers to bicycle use and promotion. Cyclists are defined as vulnerable road users because they are unprotected by an outside shield from other motorised traffic (OCDE/OECD, 1998). Furthermore, motorized vehicles have greater mass and speed compared to bicycles (Wegman, Zhang, & Dijkstra, 2012). For these reasons, motorized vehicles, with heavier machines and higher speeds, may present a danger to cyclists. Indeed, risks for cyclists are generally higher than those for motorists (Mindell, Leslie, & Wardlaw, 2012). Haworth and Debnath (2013) have defined cyclists as minority road users because they are physically smaller, less visible, without physical protection, less stable, and more affected by road surface irregularities in comparison with dual track vehicles.

The burden of road traffic fatalities and injuries on cyclists may be not only the results of physical factors (e.g., lack of outside shield). Historical, social, and cultural factors may also play a role. The central thesis of this article is that cyclists as a group of road users been relegated to a secondary place. In short, cyclists may share aspects of the experience of minority groups. There is evidence of discriminatory treatment (e.g., yielding behavior at crosswalks) and disproportionate safety outcomes (e.g., overrepresentation in pedestrian-vehicle collisions) for individuals belonging to ethnic minorities (Goddard, Kahn, & Adkins, 2015; Mather & DeLucia, 2007). Although the notion that cyclists comprise a minority group comparable to more obvious minorities (racial, ethnic, and religious minorities) was never articulated, Granville, Rait, Barber,

and Laird (2001) investigated the extent to which cyclists were seen as being equal or unequal to other road users.

The present article draws on social science theory and empirical research to describe and explain the status of cyclists compared to other motorized road users. First of all, the definition of minority group in the social science are briefly reviewed. Next, a discussion of whether cyclists may share some features of the experience the experience of minority groups is offered.

How do we define minority groups?

The definition of minority would initially seem obvious, numerically small groups are defined as minorities, whereas groups with the greatest number of members are majorities. This numeric conception of minority status is very common in the bulk of experimental research on minority–majority relations (Kerr, 2002; Simon, Aufderheide, & Kampmeier, 2008). However, numerical asymmetries do not invariably signify status or power asymmetries (Moscovici, 1994). This concept can be illustrated by taking some examples of groups often identified as minorities. First, in several societies, women would be considered a (social) minority despite the fact that they compose more than half of the population. Similarly, large, yet powerless groups (e.g. Blacks during apartheid in South Africa) would have been considered a minority (Tajfel, 1978). Indeed, the term majority-minority population has been used to indicate a population in which more half of people belong to a minority group. In this regard, we could also mention the distinction between powerless populace — a minority group that is numerically large but powerless — and subjugated — a minority group that is numerically small and powerless (Seyranian, Atuel, & Crano, 2008). Thus, it is difficult to argue that numeric size is the only or the main feature that characterizes minority groups.

In the sociological literature, minorities are thought to be held in low self-esteem by the majority and to experience discrimination and unequal distribution of power and resources (Simpson & Yinger, 1985). The experience of prejudice and discrimination are central in some conceptualizations of minority such that it has been proposed its replacement by the term oppressed group (Meyers, 1984).

Such conceptualizations resemble those reported in the law literature:

“[Minorities are] groups of individuals that, without being necessarily less in number than others (think of women), are for historical, economic, political or other reasons in a position of disadvantage (of subordination, inferiority in power, etc.) compared to other groups of the same society” (Torbisco Casals, 2006, p. 23).

Some scholars highlighted the complexity associated with defining minority groups and proposed several criteria. For instance, according to Wagley and Harris (1958, p. 10) minorities have the following five characteristics:

- (1) minorities are subordinate segments of complex state societies;
- (2) minorities have special physical or cultural traits which are held in low esteem by the dominant segments of the society;
- (3) minorities are self-conscious units bound together by the special disabilities which their members share and by the special disabilities which these bring;
- (4) membership in a minority is transmitted by a rule of descent which is capable or affiliating succeeding generations even in the absence of readily apparent physical or cultural traits;
- (5) minority peoples by choice or necessity, tend to marry within the group.

The first three of the five characteristics may apply to most of the minority groups (e.g., ethnic, sexual or religious minorities), while the fourth and the fifth characteristics can only be applied to a specific subset of minority groups. According to Tajfel (1981), there are both internal (e.g., stereotypes, self-consciousness, social movements) and external (e.g., power, social status, unequal distribution of resources) criteria of minority membership. More recently, Seyranian et al. (2008) proposed a multifaceted conceptualization of majority and minority groups along eight dimensions: power (i.e., group dominance, superiority, status, and influence over others), number (i.e., size of the group), distinctiveness (i.e., similarities or differences with other groups), social category (i.e., group types in society, usually nouns), group context (i.e., social, political, or economic circumstances of a group), dispositions (i.e., traits associated with minority groups), and being the source (i.e., how the group perceived or treated other groups) or target (i.e., how a group was treated or perceived by other groups) of behavior. Although there are no consensual definitions of minority in social science, in our brief review we have indicated the most important dimensions that are relevant to minority groups. Next, we consider the question as to whether each of these dimensions can be used to describe the condition of cyclists.

Power, Number, and Group Context

The number of cyclists is lower than that of drivers in most countries. For instance, a slim majority (54%) of EU citizens said they used a car as their main mode of transport, while cycling was reported as the most common mode of daily transport by a minority (8%) of EU citizens (European Commission, 2014). In North America, the bike share of total trip is around 1% (Pucher, Buehler, & Seinen, 2011).

Several scholars have reported differences in power between cyclists and other motorized road users. Basford, Reid, Lester, Thomson, and Tolmie (2002) found that drivers used to

attribute cyclists the lowest place in the road user hierarchy. Moreover, cyclists are generally not accepted as equal road users (Granville et al., 2001). Cavacuiti et al. (2013) reported that cyclists felt they were “second-class” citizens that did not deserve as much road space as cars.

Nevertheless, they felt that they deserved (at least) an equal treatment. According to Pucher, Komanoff, and Schimek (1999), in North America, bicycling was hindered due to infrastructure and legal status of cyclists, and because many drivers (and police officers) were unaware of cyclists’ rights to use ordinary roads.

Regarding the social, political, and economic circumstances of cyclists, it has been argued that during the majority of the twentieth century, roads were adapted to “contemporary public demands and interests [...] which resulted in urban streets being reconstructed and used as a place fundamentally for motor vehicles” (Karndacharuk, Wilson, & Dunn, 2014, p. 194). In most developed countries, a car-centered culture is dominant and lifestyles are built on the cultural assumption of the ownership and use of motorized vehicles (Aldred & Jungnickel, 2014). In addition, in most developed countries, societies are socially and spatially dominated by motor vehicles and car-dominated environments are likely to become hostile social environment for cyclists (Aldred, 2013a). Finally, cyclists recognize that the socio-cultural context, defined as the social values and attitudes, transport culture and norms, and the underlying economic and political factors, is negative for cycling (Daley, Rissel, & Lloyd, 2007). Such circumstances can also be interpreted as differences in power of motor vehicles as well as their number. Taken together, these aspects seems to suggest that cyclist are in a position of disadvantage (Torbisco Casals, 2006), constitute a subordinate segment of complex state societies (Wagley & Harris, 1958), and may experience a unequal distribution of power and resources (Simpson & Yinger, 1985).

Distinctiveness, Social Category, and Dispositions

According to Tajfel (1981), stereotypes are central in the definition of the subjective characteristics of a membership in a minority group. There is some work which supports the idea that people hold negative stereotype of the typical cyclist (Aldred, 2013a, 2013b; Gatersleben & Haddad, 2010). In their qualitative study, Davies, Halliday, Mayes, and Pocock (1997) found that the social representation of bicycling and bicyclists in the UK are mainly negative.

According to Pucher et al. (1999), cyclists were seen as too poor to purchase a car, anti-auto, eccentric, or deviant. Basford et al. (2002) revealed that drivers associate negative traits to bicyclists such as irresponsible (due to a lack of training or formal commitment to road rules), unpredictable or erratic (e.g., not signaling intentions), arrogant (cyclists were perceived as holding careless attitudes towards their own safety or holding other road users accountable for their own safety) and inconvenient (e.g., delaying to motorized road use). As a matter of fact, in the recent trend towards fully-automated vehicles, cyclists are seen by car manufacturers as a threat because of their unpredictability and potential to be identified (by a hypothetical automated car) as behaving as either pedestrians or cars.

Drivers tend to think of themselves as distinct and different from the typical cyclist (Gatersleben & Haddad, 2010) and drivers view bicyclists as the ‘out group’ – with many diverse behavioral characteristics from other road users (Basford et al., 2002). The main reasons given refer to cyclists not respecting road rules, and therefore, acting differently from other road users. Similarly, other studies revealed that cyclists are seen by drivers as risk takers and law breakers (Daley & Rissel, 2011; Granville et al., 2001). Because of this representation, many drivers perceived cyclists as “their own worst enemy” (Granville et al., 2001). This negative representation of cyclists suggests the existence of traits which are held in low esteem by the

majority (Wagley & Harris, 1958) and of the possession of common some socially relevant characteristics (Tajfel, 1981).

There is some evidence of feelings of group identity and community among cyclists (Bartle, Avineri, & Chatterjee, 2013; Fincham, 2007; Skinner & Rosen, 2007). In addition, consistent with the social identity theory (Tajfel & Turner, 1986), which states that people perceive members of their own group more positively than members of other groups, drivers who are also cyclists have a more positive view of cyclists and behave more considerately towards them than drivers who are not cyclists (Basford et al., 2002; Gatersleben & Haddad, 2010; Granville et al., 2001). Finally, Aldred (2013a, 2013b) showed that bicycle use can produce disadvantaged and stigmatized social identities in Goffman's terms. Specifically, cyclists face a dual stigma since they are defined as either road warriors (too competent to need resources or protection) or as unskilled and incompetent (and as such not deserving resources or protection). Elements of negotiation, disavowal, and challenge have been found in the strategies of identity management used by cyclists. Taken together, cyclist can be regarded as self-conscious units (Wagley & Harris, 1958) or social groups with a feeling of common membership of a minority (Tajfel, 1981).

Target of behavior

Several behaviors towards cyclists have been studied, mostly aggression, negative attitudes, and warnings from the part of other motorized road users (Aldred & Crossweller, 2015; Fruhen & Flin, 2015; Johnson, Oxley, Newstead, & Charlton, 2014). For instance, Aldred and Crossweller (2015) investigated cyclists' incidents in London and found that the 4.8% of them involved deliberate harassment or aggression by drivers (e.g., revving) and estimated that

harassment from other road users took place on a monthly basis. Fruhen and Flin (2015) found that drivers that did not cycle held more negative attitudes towards cyclists.

Source of behaviors

In the last century cycling advocacy has become increasingly prominent in Europe and in other western countries. There have been concerted movements consciously both to defend and to promote cycling as an everyday practice. Cycle activism was aimed at resource mobilization in order to create value and identity (Rachel, 2012).

Aldred (2013b) has analyzed cycling advocacy in the UK, particularly in London and Edinburgh. Drawing on social movement theory, she explored how the creation of ‘pop-up campaign’ Londoners on Bikes formed to pressure the 2012 London mayoral candidates over cycling issues. Cycling has been framed politically and cyclist groups were trying to generate a positive cycling identity in the context of stigma. In negotiating these issues, core activists drew upon their experience within other movements, including feminist and environmental campaigns. The author concludes that the campaign made both distributional (issue-based) and recognition (identity-based) claims, seeking to influence cycling cultures and identities as well as changing cycling infrastructures. One of the most representative examples of international cycling activist phenomena is the Critical Mass (Cycle Ride). This movement reacts to the dominance of the car and has aimed to bring about political debate on urban civility (i.e., regarding drivers’ behaviors towards cyclists) by organizing clearly identifiable (and distinct) rides (Parry, 2015). The existence of these social movements may be reflected in a self-awareness of being a minority (Tajfel, 1981).

Conclusion

It is clear that cyclists differ from other minorities in important aspects. First, mobility choices and behavior are only one part of people's life and, to some extent, can be changed. Behavior and identity may be disentangled, because travel behavior and mode choice are more related to "what you do" and not "who you are." As for other minorities, social and contextual factors define when people with a specific behavior are understood to have a personal attribute or a social identity. Second, the sense of community and in-group identity with other cyclists may be less salient when the use of bicycle is just a routine transport choice (Bartle et al., 2013). Third, research has shown that people hold also positive stereotypes of bicyclists (Gatersleben & Haddad, 2010), though positive stereotypes exist about other minorities.

Notwithstanding these differences, there are cultural and social aspects that are not captured by the definition of cyclists as vulnerable road users. In this article we argued whether cyclists can reasonably be viewed as a minority group because they display some of the characteristics by which minority groups are defined. Consistent with the multifaceted conceptualization of majority and minority groups proposed by Seyranian et al. (2008), several dimensions of the experience of minority groups were addressed: number, distinctiveness, social category, group context, dispositions, and being the source or target of behavior.

Cyclists may feel less safe because "those in a minority generally perceive themselves to be less safe than those in the majority" (Horton, 2007, p. 136). The majority is supported by the dominant car-centered culture as compared to bicycle culture. Indeed, cyclists, as non-car users, may feel marginalized by society (Pooley et al., 2011). The levels of bicycling culture play an important role in shaping cycling practices as well as the impact of policy interventions (Aldred & Jungnickel, 2014). The cultural norms and beliefs of most developed countries concerning car use has contributed to the consideration of cyclists as 'second class' road users (Parkin, Ryley, &

Jones, 2007). To be considered as equal road users, cyclists deserve special consideration. The reason is that treating essentially different road users in an identical fashion would violate the principles of equality and non-discrimination. If cyclists are only considered as vulnerable road users, segregation between motor vehicles and bicycles seems the best option. The main aim of segregation is to minimize the risk of conflicts. Although segregation between motor vehicles and bicycles have many advantages, complete segregation is expensive and arguably unfeasible. If anything, if cyclists are considered a minority group, the integration principle (as opposed to segregation), exemplified by the concept of urban shared spaces (Biddulph, 2012; Hamilton-Baillie, 2008a, 2008b; Karndacharuk et al., 2014), becomes another attractive option. Following this perspective, the focus is social integration and inclusion of all road users which are stimulated to legitimately use the same road space in a safe and efficient manner. What is evident in this perspective is a shift towards recognizing the need to reduce the dominance of the motor vehicle by promoting sustainable and safe transport for all users.

Although there is some evidence that supports the view that cyclists could be considered a minority in the relationship with drivers, future studies may provide important information about this issue. Future research should also investigate whether cyclists represent a minority group with distinct features compared to other vulnerable road users such as pedestrians.

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