

Table S1. Reviewed studies.

References	Field Background	Main Theories and Methodologies that Guide the Paper	Walkable Factors (Efficiency and Comfort, Pleasantness, Safety, Attractiveness)	Type of Data: M; EJ; HS	Data and Covariables	Sample Social Group Profile scale	Validation
Bader et al. (2015) [80]	Urban planning and Public health	Influence of urban form on people behaviour	<p>Attractiveness: number and type of land uses;</p> <p>Efficiency and comfort: sidewalk width; street design;</p> <p>Safety and security: mix of use; transparency and permeability of built environment; geometry of crossings and facilities for pedestrians at crossings;</p> <p>Pleasantness: aesthetic of place; architectural and landscape design</p>	<i>M; EJ</i>	Audit on line	US metropolitan areas; census tract level	RB
Oswald Beiler and Phillips (2016) [82]	Urban planning and public health	Influence of urban form on health, social capital	<p>Attractiveness: mix of use;</p> <p>Efficiency and comfort: cost; sidewalk width; connectivity; continuity; barriers; design of the street; slope; pavement conditions;</p> <p>Safety and security: mix of use; lighting; car traffic volume, design speed of the route; crossing facilities;</p> <p>Pleasantness: aesthetic of place; shelter and shade; sedibility; transparency and permeability</p>	<i>M</i>	GIS data and manual field data collection	Union County four type of paths; street level	EX
Bias et al. (2010) [99]	Urban planning and public health	Relation between physical environment and physical activity	<p>Attractiveness: mix of use;</p> <p>Efficiency and comfort: costs, hilliness, street connectivity,</p> <p>Pleasantness: aesthetics;</p>	<i>EJ</i>	Telephone survey	Morgantown and Cabell County, West Virginia	SP; RB

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			Safety and security: speed of vehicular traffic, availability of sidewalks and crosswalks; presence of people			40-65 years old residents;	
Blečić et al. (2015) [10]	Urban and transport planning	Operational measure of urban walkability	Efficiency and comfort: cost distance and slope, street type, bicycle track, footway width and maintenance, shelter and shade, benches; Attractiveness: presence, typology and intensity of activities; building density; Safety and Security: street lighting, on street parking, integration of the street with the surrounding; Pleasantness: scenery; environmental/architectural interest;	<i>M</i>	OSM dataset; built environment data collected with on field audit and computer aided methods	City of Alghero, Italy, street segment level and points of urban fabric	-
Boulangé et al. (2018) [22]	Urban and transport Planning	Influence of urban form on walking	Efficiency and comfort: street connectivity; intersection density; distance to closest public transport stop/train station/supermarket; land use mix, dwelling density; Attractiveness: local living destinations; housing diversity	<i>M; EJ</i>	Travel survey and participatory workshop Official GIS, layers, census	Broadmeadows suburb, Melbourne, neighbourhood level	SP
Buck et al. (2011) [39]	Public health	Influence of urban form on physical activity for children	Efficiency and comfort: intersections density, urban form, sidewalk and transit station presence;	<i>M</i>	GIS data, municipal geospatial	Delmenhorst Germany; 596 Children (2-10 years old);	-

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			Attractiveness: presence of public facilities		information system; demos; economic data	block level	
Carr, et al. (2010) [93]	Urban planning	Operational measure of urban walkability	Attractiveness: presence and density of activities; Efficiency and comfort: street connectivity, street density, average block length;	<i>M</i>	Census; GIS dataset (Tiger); street network Internet-based reference service database	296 participants, Rhode Island, USA, block level	EX
Cerin et al. (2006) [100]	Transportation planning and public health	Relationship between urban form and walkability and cyclability for recreation	Efficiency and comfort: shelters and shade; cost; design of the street; design of the street (connectivity), signalization; Pleasantness: scenery; architectural and urban design; cleanliness/pollution; Safety and security: separation features; lighting; volume/crowding if cars in the street; design of the street; crime/policy presence; urban texture;	<i>M; EJ</i>	Neighbourhood surveys and GIS database; socioeconomic status	King County; 16 neighbourhoods 1286 adults; census block	RB

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			<p>Attractiveness: presence, density; typology; mix of activities and opportunities;</p>				
Cervero and Duncan (2003) [1]	Urban planning and public health	Influence of urban form on physical activity (walking and bicycling)	<p>Efficiency and comfort: cost distance and slope; street connectivity; block size; walking and cycling facilities;</p> <p>Attractiveness: presence; typology density and intensity of activities;</p> <p>Safety and Security: low income %, street lighting/darkness</p>	M	Census, travel survey, geodatabase and GIS data	San Francisco Bay area, households; block scale	RB
Cervero and Kockelman (1997) [63]	Urban planning	Relationship between built environment and travel demand	<p>Efficiency and comfort: block length, street patterns, proportion of intersections, street connectivity, sidewalk width, slope, street trees;</p> <p>Safety and security: pedestrian and cycling provisions, distance between overhead street lights, signalized intersections, overhead street lights;</p> <p>Attractiveness: population and employment density, commercial intensity, land use mix</p>	M;EJ	Travel data, census, land use data field survey	50 neighbourhood s in the San Francisco Bay Area; census tracts level	RB
Clifton et al. (2007) [2]	Urban planning	Relationship between physical environment and walking behaviour	<p>Efficiency and comfort: design of the street; pavement type and conditions; obstructions; continuity of the route; connectivity; cost; off parking facilities; signalization, information availability and signage;</p>	M	Audit data	College Park and Montgomery County; 3635 segments	-

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			<p>Pleasantness: architectural and urban design, cleanliness/pollution; bicycle lanes, urban texture, shelters and shade;</p> <p>Safety and security: lighting; separation features; pavement type and conditions; design speed of the route; on street parking facilities;</p> <p>Attractiveness: presence, number of activities, typology</p>			of a pedestrian network or pathways; street level	
Colclough (2009) [101]	Urban and transport planning	Relationship between physical environment and pedestrian accessibility	<p>Efficiency and comfort: cost, distance, path gradient, block size intersections, street connectivity;</p> <p>Attractiveness: dwelling, density, percentage</p>	<i>M;EJ</i>	OS Integrated Transport Network (ITN), GIS datasets by official sources, digital height data, field audit, survey	West Northamptonshire (UK); 2km catchment area level	EX; SP
Emery et al. (2003) [84]	Public health	Influence of urban form on physical activity	<p>Efficiency and comfort: continuity of the route;</p> <p>Safety and Security: Volume of cars on the street; design of the street; pavement conditions; design speed of the route; separation features; lighting</p>	<i>M</i>	Audit and survey data	the University of North Carolina at Chapel Hill; 31 urban and rural road segments identified within 10	EX

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						miles of the campus; street level	
Ewing and Cervero (2010) [28]	Urban and transportation planning	Relationship between physical environment and walking behaviour	<p>Efficiency and comfort: cost and distance to destinations (stores, transit stop, etc.) intersection/street density;</p> <p>Attractiveness: population and job density jobs-housing balance land use mix (entropy index)</p>	M	Data from individual primary studies	-	RB
Ewing and Handy (2009) [12]	Urban planning	Relationship between urban form and walkability	<p>Efficiency and comfort: directness of route; sedibility;</p> <p>Pleasantness: volume/crowding of pedestrians on the street; architectural and urban design; noise level; scenery; landscape design; urban texture;</p> <p>Security: activities' atmosphere;</p> <p>Attractiveness: presence, density of active uses; typology indoor/outdoor</p>	M	Survey data	New York; 48 video-clips in commercial streets; street level	EX
Forsyth et al. (2008) [30]	Urban and transportation planning	Relationship between physical environment and walking behaviour	<p>Efficiency and Comfort: street pattern (road and block length, intersection density, ...), pedestrian-oriented infrastructure (sidewalk length, street trees, traffic calming measures, transit stop density, ..);</p> <p>Attractiveness: amenities and mixed use density, entropy index</p>	M; EJ	GIS datasets; survey, seven day travel diary accelerometer, computer mapping and survey	715 participants in the Twin Cities, Minnesota; street and neighbourhood level	-

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Frank et al. (2006 [4]; (2010) [56]	Urban planning	Influence of urban form on physical activity	Efficiency and comfort: cost; easy of walk; design of the street (connectivity); cost (frequency of walking); Attractiveness: presence, density of active uses; mix and typology of activities	M	NQoL data; statistical data; survey; demos,	City of Baltimore; adults; Block level	RB
Ghani, et al 2013 [85]	Urban and transportation planning	Influence of urban form on travel behaviour	Efficiency and comfort: design of the street (sidewalk presence and continuity), distance, Safety and security: pavement; lighting; separation; signals; traffic calming Attractiveness: presence and proximity of active land uses	M	Field survey on a set of roads of different hierarchy	Taman Bukit Indah, Johor Bahru, Malaysia; neighbourhood and street level	
Giles-Corti et al. (2014) [90]	Urban and transportation planning	Influence of urban form on travel behaviour	Efficiency: street connectivity, Attractiveness: residential or dwelling density and land use mix.	M	Australian state government datasets: cadastre, dwellings, street networks, census	North West Region of Melbourne, Australia; neighbourhood level, walkable service area level (15 min)	EX
Glazier et al. (2013) [31]	Public health	Relationship between physical environment and walking behaviour	Efficiency and comfort: cost; street connectivity; Attractiveness: presence, density and mix land use;	M	Statistical data Demos	City of Toronto, 248 million people census tracts and block level	RB

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			Security: urban texture;				
Hajna et al. (2013) [32]	Public health	Relationship between physical environment and walking behaviour	Efficiency and comfort: design of the street (connectivity; sidewalk presence); continuity of the route; cost; Safety and security: pavement; lighting; feel safe; Pleasantness: urban texture; Attractiveness: presence, density of active uses	<i>M; EJ</i>	Statistical data; Audit data	Montreal; adults with diabetes; street level	EX
Tal and Handy (2011) [95]	Integrated land use and transport planning	Relationship between urban form and pedestrian connectivity and accessibility	Efficiency and comfort: distance, directness, connectivity; Attractiveness: density and variety of amenities	<i>M</i>	GIS datasets, pedestrian network, demos	City of Davis, USA suburban areas; neighbourhood and street level	EX; RB
Iacono et al. (2010) [33]	Urban and transportation planning	Relationship between physical environment and non motorized travel (walking and cycling) behaviour	Efficiency and comfort: impedance distance and time, pedestrian and bicycling facilities; Attractiveness: presence, number, type, dimension of land-use	<i>M; EJ</i>	Household travel survey data; Establishment-level data; parcel-level land use data	1600 block groups in South Minneapolis; block level	RB
Keyvanfar et al. (2018) [60]	Integrated land use and transport planning	Relationship between physical environment and pedestrian behaviour	Efficiency and comfort: width of walking zones, sidewalks networking; street furniture, trees, shelters, street lighting, type of sidewalk pavement, steepness, obstacles/nuisance;	<i>EJ</i>	self-report questionnaire to capture pedestrian's DTM for walking	Taman University neighbourhood, Skudai city, Malaysia;	SP

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			<p>Safety and security: bike lanes, on-street parking, mid-block crossings, traffic signals, signage, traffic calming devices, medians, lighting, street surveillance, street-facing entrances, street-level façade transparency;</p> <p>Pleasantness: enclosure, buffer zone;</p> <p>Attractiveness: land use mix, diversity of buildings</p>		towards 3 shopping centres.	path and neighbourhood level	
Koohsari et al. (2013) [87]	Public health	Relationship between urban form and walkability; Influence of urban form on physical activity	<p>Efficiency and comfort: shelters and shade; cost; design of the street; design of the street (connectivity), signalization;</p> <p>Pleasantness: scenery; architectural and urban design; cleanliness/pollution;</p> <p>Safety and security: separation features; lighting; volume/crowding if cars in the street; design of the street; crime/policy presence;</p> <p>Attractiveness: presence and number of active services and urban opportunities; presence, density, typology of services</p>	<i>M; EJ</i>	Neighbourhood surveys (questionnaires); GIS databases; demos	Melbourne; 330 households 990	RB
Krizek (2003) [62]	Urban planning	Relationship between physical environment and neighbourhood accessibility	Efficiency and comfort: block size intersection density, street connectivity;	<i>M</i>	Census block-level data, GIS	Central Puget	EX

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			Attractiveness: presence and density housing residents and employees, land use mix		dataset (Tiger)	Sound metropolitan area, Washington; 150-meter grid cells level	
Lee and Moudon (2006) [64]	Urban planning	Relationship between physical environment and walking behaviour.	Efficiency and comfort: cost, route directness; Attractiveness: number of services and urban opportunities; presence and density of active uses; type of services and activities; mix of activities	<i>M</i>	Survey data, GIS data, demos	Seattle and suburban area; 608 adult; census block level	RB
Leslie et al. (2007) [102]	Urban planning and public health	Influence of urban form on physical activity	Efficiency and comfort: connectivity Attractiveness: density Safety and security: mixed use;	<i>M</i>	Dwelling data, tax valuation and cadastral (parcel) data, PLACE data Census	Adelaide, Australia; census tract level	RB
Lwin and Murayama (2011) [92]	Urban planning	Relation between urban environment and walkability; influence of urban form on physical activity	Efficiency and comfort: cost and distance; Pleasantness: scenery; Attractiveness: number of activities; quality and building footprint	<i>M</i>	Fine scale GIS data	Tsukuba, Japan; street level	-
Moura et al. (2017) [81]	Urban and transportation planning	Relationship between physical environment and walking behaviour of	Efficiency and Comfort: path connectivity continuity and directness, convenience, land use diversity, sidewalk width, pavement	<i>M; EJ</i>	Neighbourhoods and street	2 districts of Lisbon; neighbourhood and street level	SP

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		different groups and trip purposes	quality; conspicuousness and visibility of landmarks and wayfinding; public space planning and design standards; Safety and security: coexistence between pedestrian and other modes, location of pedestrian crossings and traffic, vigilance effect and perception; Attractiveness: conviviality of meeting places and anchor places, street design;		surveys; GIS databases		
Owen et al. (2007) [35]	Public health	Relationship between physical environment and walking behaviour	Efficiency and comfort: street connectivity, street intersection density, and proximity; Attractiveness: dwelling density, land-use mix, net retail area	<i>M</i>	Census data; GIS databases, survey;	Adelaide, Australia; 2650 adults recruited from 32 neighbourhoods with high or low walkability; district level	RB
Peiravian et al. (2014) [36]	Urban and transport planning	Relationship between physical environment and walking behaviour	Efficiency and comfort: intersection density; Attractiveness: land-use diversity, commercial density, population density	<i>M</i>	Census, GIS data	City of Chicago; sub traffic zones level	-

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Pikora et al. (2002) [67]	Public health	Relation between built environment and physical activity	<p>Efficiency and comfort: street permeability; intersections distance and design; walking surface; streets layout; sedibility; trees;</p> <p>Safety and security: lighting; surveillance; traffic volume; on street parking; crossing characteristics; path/lane obstruction; social width;</p> <p>Attractiveness: destinations presence; number and type of buildings;</p> <p>Pleasantness: Aesthetic of streetscape; sky exposure; facade continuity; softness, visual complexity architecture; trees; maintenance; pollution; cleanliness</p>	<i>M; EJ</i>	Data collected with audit; information from external sources (i.e. traffic authorities); GIS datasets	Perth Western Australia; street level	EX; SP
Porta and Renne (2005) [7]	Urban planning	Relationship between built environment and urban sustainability	<p>Efficiency and comfort: cost; sedibility; design of the street;</p> <p>Attractiveness: presence; typology;</p> <p>Pleasantness: softness of spaces; scenery; site's atmosphere;</p> <p>Safety and security: Urban texture; Presence of activities</p>	<i>M</i>	Statistical data; survey data with photos	Fremantle and Joondalup, Perth, Australia; road survey; street level	-
Rogers et al. (2011) [58]	Urban planning	Influence on urban form on social capital and walkability;	<p>Efficiency and comfort: frequency of walk; cost (distance, time);</p> <p>Pleasantness: trusting;</p> <p>Security: trusting</p>	<i>EJ</i>	Neighbourhood audits, statistical data; demos;	Manchester and Portsmouth; census block	-

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					social capital metrics		
Ruiz-Padillo et al. (2018) [50]	Transport and urban planning	Influence of urban form on physical activity	<p>Efficiency and comfort: road connectivity; steepness of the street, sidewalk width; buildings quality (visual and aesthetic), street furniture quality and cleanliness; pavement materials</p> <p>Safety and security: high vehicle traffic flow, crosswalks, assaults and thefts incidence; number of shops and services typology;</p>	<i>M</i>	Neighbourhood audits, statistical data; demos;	City of Porto Alegre, Brazil,	SP
Saelens et al. (2003) [42]	Public health	Influence of urban form on physical activity	<p>Attractiveness: residential density; mixed land use;</p> <p>Efficiency and comfort: street pattern and street connectivity; land use mix-access; sidewalks and pedestrian/bike trails;</p> <p>Safety and security: traffic safety and crime safety;</p> <p>Pleasantness: aesthetics;</p>	<i>M; EJ</i>	Measure of physical activity by accelerometer; survey with self-report measures of neighbourhood environment	San Diego, California; 107 adults of 2 neighbourhoods with high and low walkability; neighbourhood level	RB
Schlossberg et al. (2007) [103]	Transport and urban planning	Relationship between urban form and pedestrian mobility	<p>Efficiency and comfort: street network, road types (major, minor), impedance characteristics, street</p>	<i>M</i>	GIS dataset	Oregon; 4 middle school areas and transit stop zones;	-

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			connectivity, intersection density; pedestrian catchment area ratio;			catchment area level (1.5 mi)	
Su et al. (2019) [68]	Transport and urban planning	Relationship between physical environment and walking behaviour	Efficiency and comfort: street connectivity; sidewalk width, slope and curvature; Attractiveness: land use mix; destination density; Pleasantness: greenspace coverage and quality Safety and Security: perceived greenery and enclosure	M	Census, demos; geodatabase; camera signaling data	Hangzhou metropolitan area, China	RB
Sundquist et al. (2011) [46]	Urban planning and public health	Influence of urban form on physical activity; relationship between physical environment and walking behaviour	Efficiency and comfort: street connectivity; Attractiveness: land-use mix, residential density;	M; EJ	Census, demos; geodatabase; survey;	32 Stockholm; neighbourhood level	RB
Talen (2002) [37]	Urban Planning	Relationship between physical environment and walking behaviour	Efficiency and comfort: path distance and topography; Safety and Security: design speed of the route; design of the street; Attractiveness: presence; typology; quality	M; EJ	Census data; demos	Portland; census block	-
Van Dyck et al. (2011) [43]	Public health	Influence of urban form on physical activity and on individual quality of life. <i>The "PLACE" theory</i>	Pleasantness: scenery; neighbourhood satisfaction; urban texture; cleanliness/pollution; architectural and urban design; landscape design;	M; HS; EJ	Questionnaire; planning data; demos	Ghent (59 neighbourhoods); 3500 Belgian adults (20-65); statistical sector	RB

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			Security: crime/police presence; Attractiveness: mix of activities, typology; Comfort: noise level				
Van Dyck et al. (2013) [44]	Public health	Influence of urban form on physical activity	Efficiency and comfort: shelters and shade; cost; design of the street; design of the street (connectivity); signalisation; Pleasantness: scenery; architectural and urban design; cleanliness/pollution; urban texture; Safety and security: separation features; lighting; activities' atmosphere; volume/crowding if cars in the street; design of the street; crime/policy presence; urban texture; Attractiveness: residential density; mix of activities and typology;	<i>M; EJ</i>	Statistical data; telephone and mail surveys; demos, social data	Seattle, Baltimore Adelaide, Ghent; adults; administrative unit	RB
Walkonomics [97]	Urban and transportation planning	Influence of urban form on travel behaviour	Attractiveness: presence and number of activities; Efficiency and comfort: street width, physical barriers, provision and quality of pavement, presence of sidewalk; slope; Safety and security: lighting, vandalism, graffiti and presence of police; road accident statistics, street type, traffic speeds. Pleasantness:	<i>M; EJ</i>	Geospatial open data and crowdsourced reviews from local residents and visitor	San Francisco, New York and England streets; street level	SP

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			cleanliness, presence of trees or green vegetation, site atmosphere, aesthetic of places, architectural and landscape design, scenery, pedestrian activity;				
Walkshed [98]	Urban and transportation planning	Influence of urban form on travel behaviour	Attractiveness: presence and number of activities; Efficiency and comfort: impedance factors	<i>M</i>	City governments, Bing, and InfoUSA, and NYC Data Mine	Philadelphia and New York; street level	-
Zuniga-Teran et al. (2017) [45]	Urban planning and public health	Relationship between built environment and walking	Efficiency and comfort: street grid; cul-de-sac; back alleys; street connectivity; alternative routes; fences; dwelling type unit; shade; hilly streets; services within 10 min walking distance Safety, security and certainty: sidewalks; bike lanes; mixed use; on-street parking; vegetated/dirt strip between sidewalk and carriageway; crosswalks and pedestrian signals; speed bumps; speed limit; dirt trails; streets lit at night; front porches; buildings close to the street; front garage doors; back alleys with garages; signage; landmarks	<i>M; EJ</i>	Neighbourhood surveys	Four neighbourhoods in Tucson, Arizona; 380 residents; neighbourhood level	SP, RB

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			<p>Attractiveness: greenspace location; greenspace proximity to houses; community facilities proximity; density and diversity of activities and services</p> <p>Pleasantness: graffiti, trash/litter, natural sights to look at; attractive buildings and homes; interactions with wildlife; slope; shade, trees along the streets</p>				

LEGEND	Type of Data			Validation		
	Measures (M)	Judgment (J)	Hedonic State (H)	Expert Opinion (EX)	Revealed Behaviors (RB)	Stated Preferences (SP)

References

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