

Reality





...alternate reality



Moving health upstream in urban development planning

1



Estimating cost of poor quality urban environment

2



Exploring barriers and opportunities for creating healthy urban environments

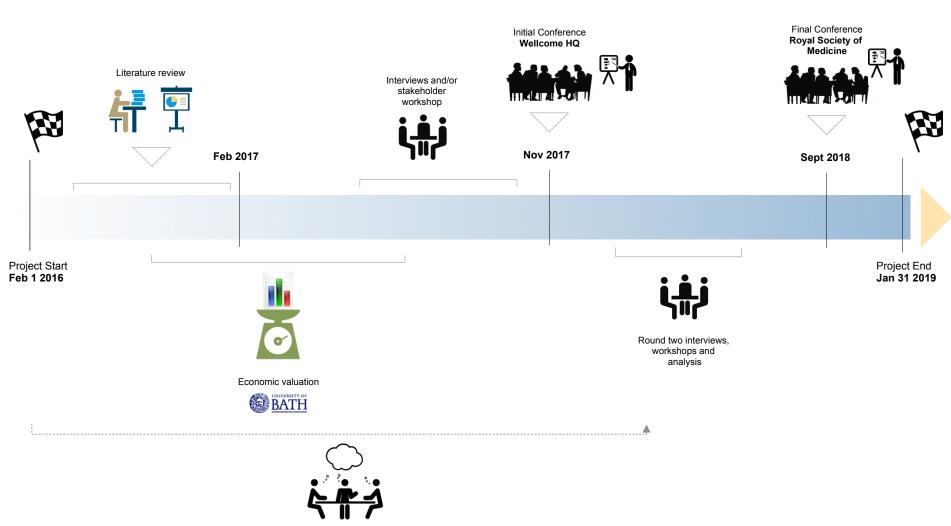








PROJECT ACTIVITY TIMELINE





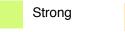


Method development

Findings: systematic review on the impacts of the built environment on health

Categories	Key themes	Outcomes
Neighbourhood Design	Increase neighbourhood walkability	Reduced risk of hypertension (S)
		Reduced risk of diabetes and prediabetes (M)
		Improved mental health (M*)
	Increase access to	Increased physical activity levels (M),
	facilities and amenities	Improved mental health (S)
	J	Reduced limitations in performing instrumental activities of daily living among men (M)
		Reduced risk of obesity among women (W)
	green space	Improved mental health (S)
		Reduced risk of non- accidental mortality (S)
		Increased physical activity levels (S*)
		Reduced cardiovascular risk factors (S)
		Reduced risk of asthma (M*),
		Reduced risk of diabetes and prediabetes (M)
Buildings	Improve thermal quality	Improved general health and respiratory outcomes (S*)
		Reduced blood pressure (S*)
		Reduced cost associated with heating(S)
		Reduced level of NO2 in the living room (M)
		Reduced mould contamination (M)
		Improved school attendance among children (M)
		Reduced falls and fall related injuries among older adults (S)
		Improved mental health (M)
	Inadequate quality of housing	Increased mortality from coronary heart diseases (M)
	relocation to affordable	Improved general health among previously homeless people (M)
		Improved mental health among adults and children (M)
		Improved educational achievement among young boys (M)

^{*} Refers to best available evidence and it applies when more than one study was identified as part of the review that reported the same 'outcome'. In such instances the study deemed to be of the best quality is presented







Categories	Key themes	Outcomes
Natural	Exposure to environmental hazards (air pollutants)	Increased risk of cervical cancer (S*)
environment		Increased risk of brain cancer (S)
		Increased risk of non-accidental mortality (S*)
		Increased risk of lung cancer (S)
		Increased blood pressure (M*)
		Increased risk of dementia and Alzheimer's disease (M*)
		Increased risk of type II diabetes (M)
	Reduce exposure traffic noise	Increased average life expectancy (M)
		Economic savings of 9.3 billion EUR/year (M)
	Improve access to green space	Improved respiratory outcomes (S*)
		Increased physical activity level (W)
		Improved mental health (W)
	Exposure to traffic noise	Increased risk of myocardial infarction among males (S)
		Poor academic performance among children (S)
		Reduced quality of life among women (S)
		Increased blood pressure (S)
		Worsened mental health (M)
		Increased risk of Type II diabetes (S)
Transport	Improve infrastructure for walking and cycling	Increased physical activity levels (S*)
		Reduced risk of pedestrian motor vehicle collision (S*)
	Improve road safety	Reduced risk of pedestrian injury (S*)
		Reduced risk of road traffic collision (S*)
	Improve public transport Infrastructure	Increased active transport (M)
		Reduced exposure to road traffic collision (M)
	Exposure to traffic related environmental hazards	Increased risk of pre/post menopausal breast cancer (S)
Food	Increase access to healthy food environment	Reduced odds of obesity (M*)
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	Density and proximity of fast-food outlets	Increased risk of diabetes (S*)
	For a supplied that the state of the state o	increased risk of obesity (M*)
	Exposure to unhealthy food outlets near school environment	Increased risk of obesity (W)





MAIN TOPIC AREAS

(linking urban form to health)



LITERATURE REVIEW



NATURAL ENVIRONMENT

TRANSPORT

BUILDINGS

FOOD



INDICATORS

e.g. Road, public transport, walking, cycling

HEALTH OUTCOMES

e.g. Obesity, diabetes, injury



ECONOMIC VALUATION I

(of health outcomes relating to range of generic typologies)





Check with case study partners



COMMUNITY OPEN SPACES

LANDSCAPES FOR RECREATION, SOCIAL LIFE, AND SMALL-SCALE FOOD CULTIVATION

PLAYGROUNDS
NEIGHBORHOOD PARKS
SPORTS FIELDS
REGIONAL PARKS
PLAZAS
RECREATION CENTERS
TRAILS / GREENWAYS
URBAN GARDENS
FARMERS MARKETS
CEMETEDISS / GRIETINS



ECOLOGICAL LANDSCAPES

MEADOWS AND FORESTS THAT PROVIDE HABITAT AND OTHER ENVIRONMENTAL BENEFITS

NATURE PARKS
INDUSTRIAL NATURE
PARKS
RAPID REFORESTATION
SUCCESSIONAL ROAD
ROADS TO RIVERS

BLUE+GREEN INFRASTRUCTURES

LANDSCAPES THAT CAPTURE STORMWATER AND CLEAN AIR

LARGE LAKE
SMALLER RETENTION POND
INFILTRATION PARK
SWALES + INFILTRATION
MEDIANS
ROAD-SIDE POND (ALONG
WIDE ROADS)
GREEN INDUSTRY BUFFER
CARBON FOREST

WORKING+ PRODUCTIVE LANDSCAPES

ANDSCAPES THAT GENERATE NEW KNOWLEDGE, GROW ENERGY AND FOOD, AND CREATE NEW URBAN EVDEDIENCES

ESEARCH LANDSCAPE
RBAN FARM
QUACULTURE AND
YOROPONICS
LGAE-CULTURE
NERGY FIELD OR FOREST

TRANSITIONAL LANDSCAPES

TEMPORARY LANDSCAPES THAT CLEAN SOIL AND ENABLE NEW FORMS OF SOCIAL LIFE AND CREATIVE DISPLAYS

EVENT LANDSCAPES
REMEDIATION FIELDS OR
FORESTS
ART-SCAPES
URBAN MEADOWS





