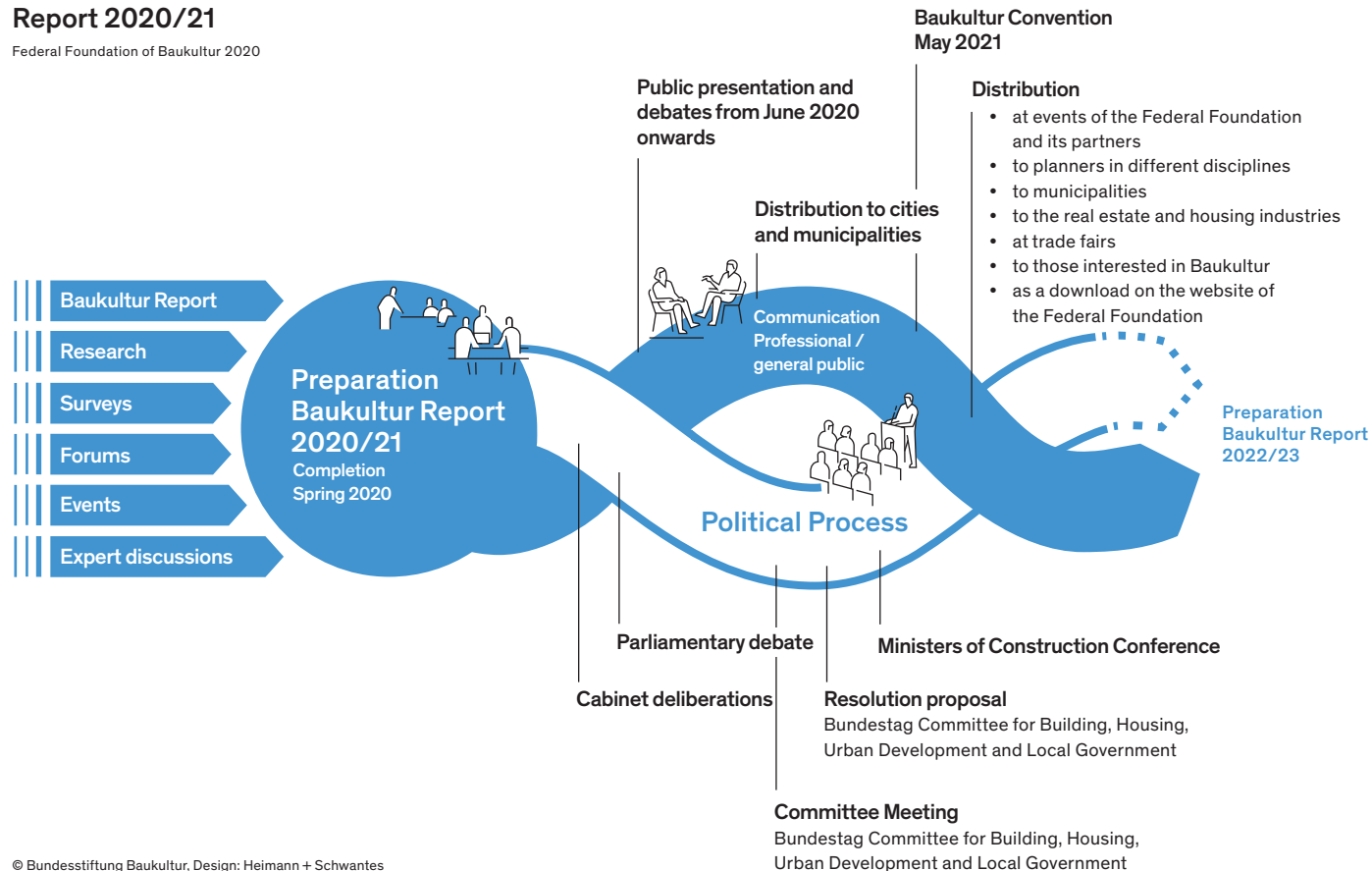


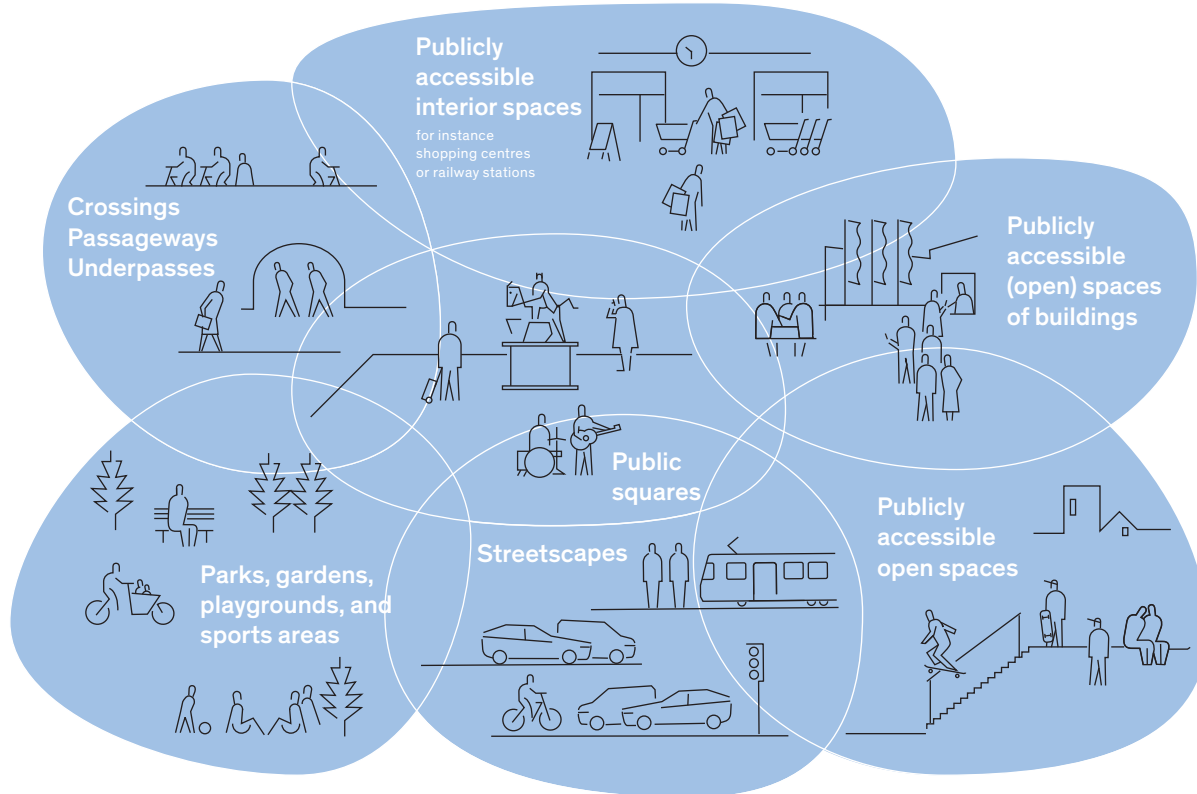
The political and social path of the Baukultur Report 2020/21

Federal Foundation of Baukultur 2020



Public spaces of the Baukultur Report

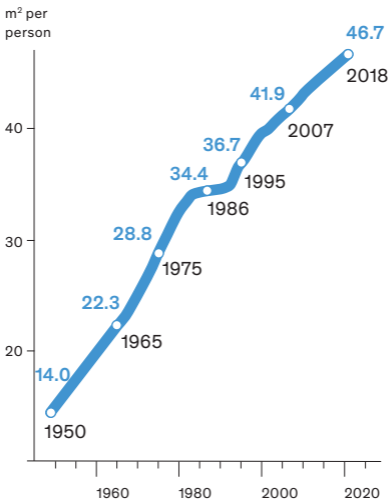
Federal Foundation of Baukultur on the basis of PlanSinn 2019



Living in more space

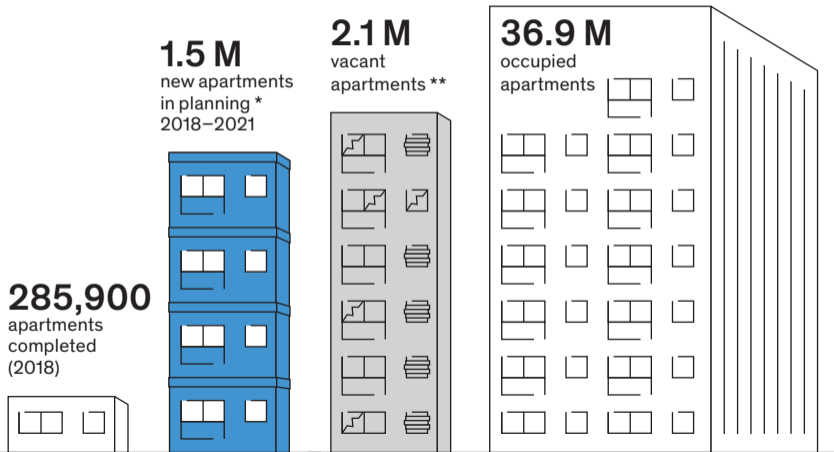
Development of living area per person

Source: Federal Foundation of Baukultur 2014;
Destatis 2012 + 2019



Residential housing stock and vacancy rate in Germany

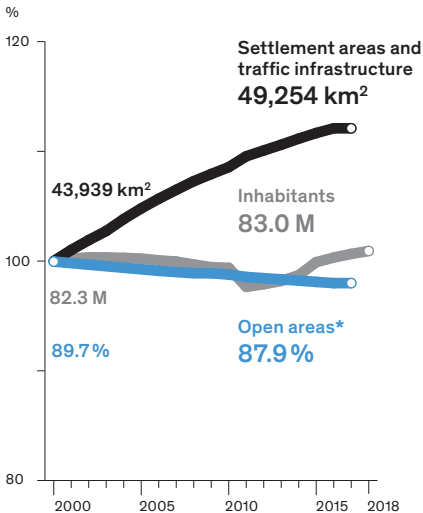
Source: BBSR 2019; Destatis 2019; the federal government 2020



*Federal government target **Status: 2017, estimate of the BBSR

Unequal developments

Source: Destatis 2019; IÖR 2019;
Federal Environment Agency 2019



* Agricultural areas, forest and wooded areas, uncultivated plots of land, mining and tailings pile areas, and bodies of water

Construction volumes in Germany

€430.2 M



How much is being built in Germany?

Construction volumes for 2019 compared

Source: BMF 2019; BMWi 2017; DAT 2020; DIW 2020



Total government expenditure in Germany 2019

€356.4 M



Revenue from the tourism industry in Germany 2015

€287.2 M

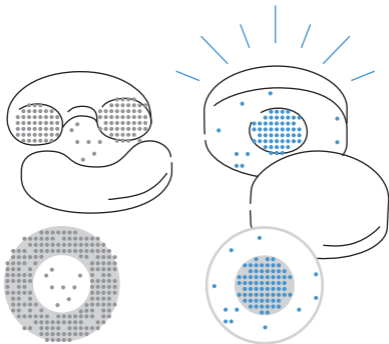


Revenue from the new car market in Germany 2019

€121.1 M

The doughnut effect

Federal Foundation of Baukultur 2016



**Dying municipalities
(doughnut effect)**

**Vital municipalities
(filled doughnut effect)**

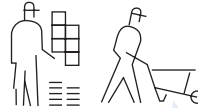
Circular economy: construction

Federal Foundation of Baukultur 2019

Raw material extraction
Primary raw material

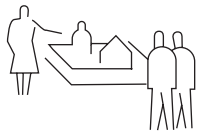
Building material
and building
component production

Construction



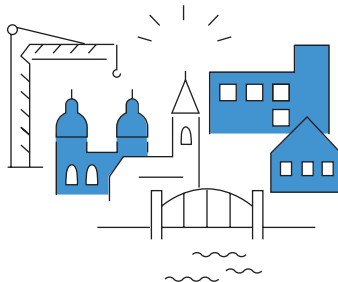
Use and
operation

Completion
Maintenance
Renovation
End of life



Planning

Emissions



Conversion planning

Dismantling

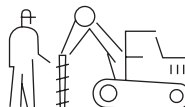
Return to the
materials cycle

Recycling
Reuse
Processing

Reprocessing
Downcycling

Partial deconstruction
Deconstruction

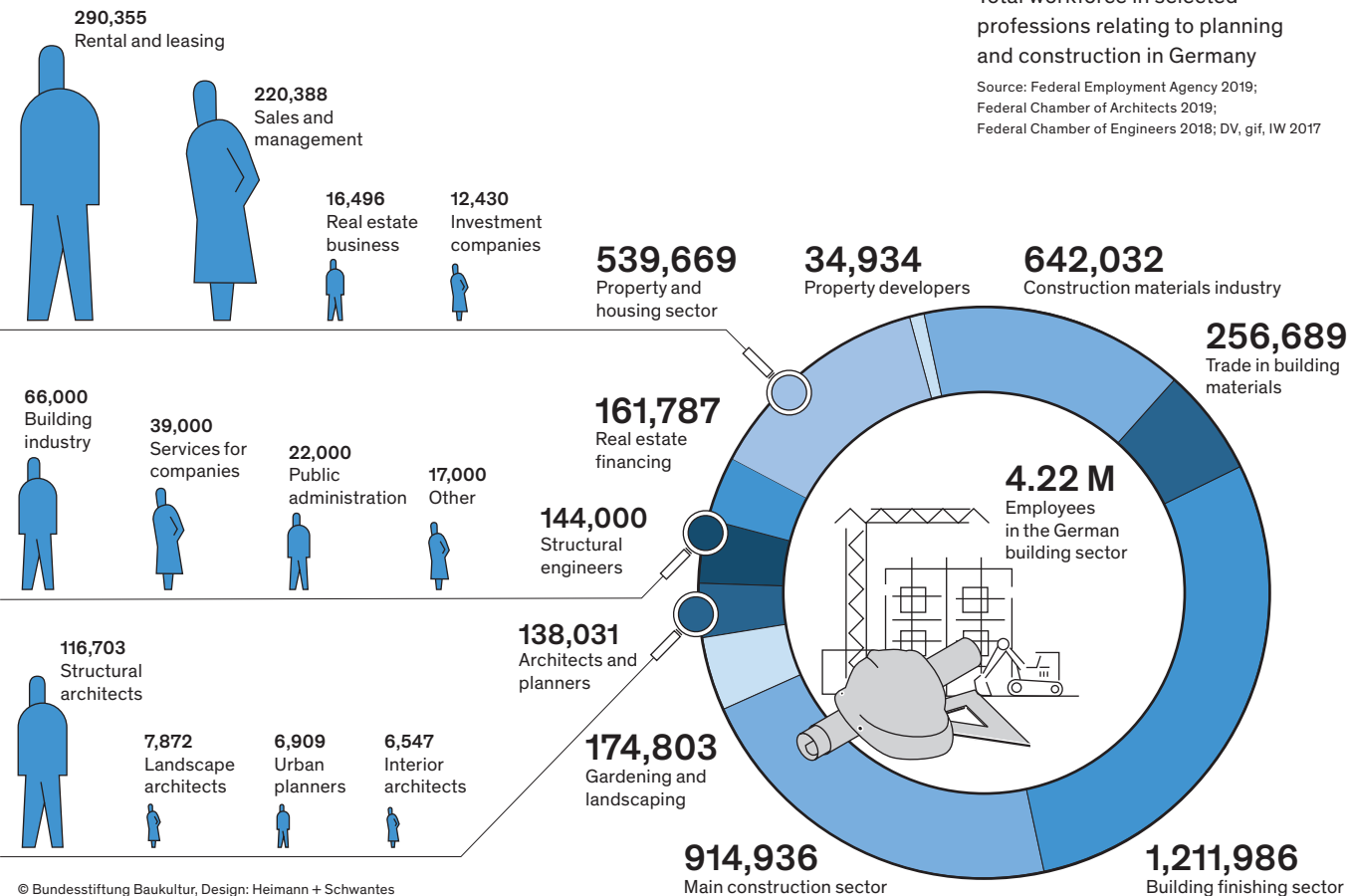
Demolition
Landfilling
Incineration



Employers: construction

Total workforce in selected professions relating to planning and construction in Germany

Source: Federal Employment Agency 2019;
Federal Chamber of Architects 2019;
Federal Chamber of Engineers 2018; DV, gif, IW 2017



Historical structures in urban planning

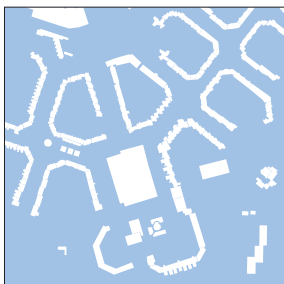
Source: OpenStreetMap contributors 2019



Medieval old town and cathedral
(Freiburg im Breisgau)



Wilhelmine-era perimeter block development
(Helmholtzplatz, Berlin)



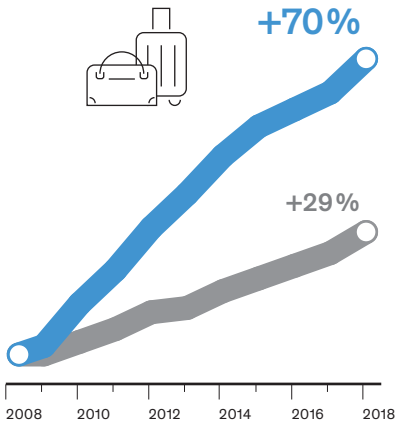
Large housing estate of post-war modernism
(Steilshoop, Hamburg)

0 500 m

Urban tourism is booming

Overnight stays in selected cities and in Germany as a whole

Source: www.hotel.de 2019; TourMis 2019



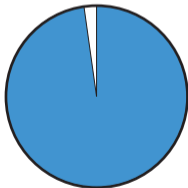
■ Selected cities: Augsburg, Berlin, Bremen, Dresden, Hamburg, Hannover, Heidelberg, Cologne, Leipzig, Marburg, Nuremberg, Regensburg, Stuttgart, Würzburg

■ Germany as a whole

Commerce needs public spaces

Source: IHK survey for the Baukultur Report 2020/21

For what sectors are public spaces important?



Commerce
98%

Pricey pavement

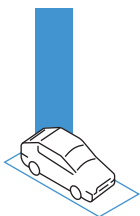
Annual costs for residential parking compared with the theoretical purchase price for a parking space based on the value of the ground of neighbouring parcels

Sources: North Rhine-Westphalia 2019; Düsseldorf 2019; Frankfurt am Main 2019; Hamburg 2019; Berlin 2019

Theoretical purchase price
15 m² parking space

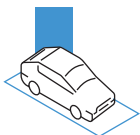
Resident parking permit per year

€540,000



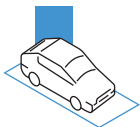
Düsseldorf – Königstraße

€255,000



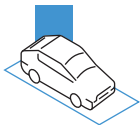
Frankfurt am Main – Neue Mainzer Straße

€229,620

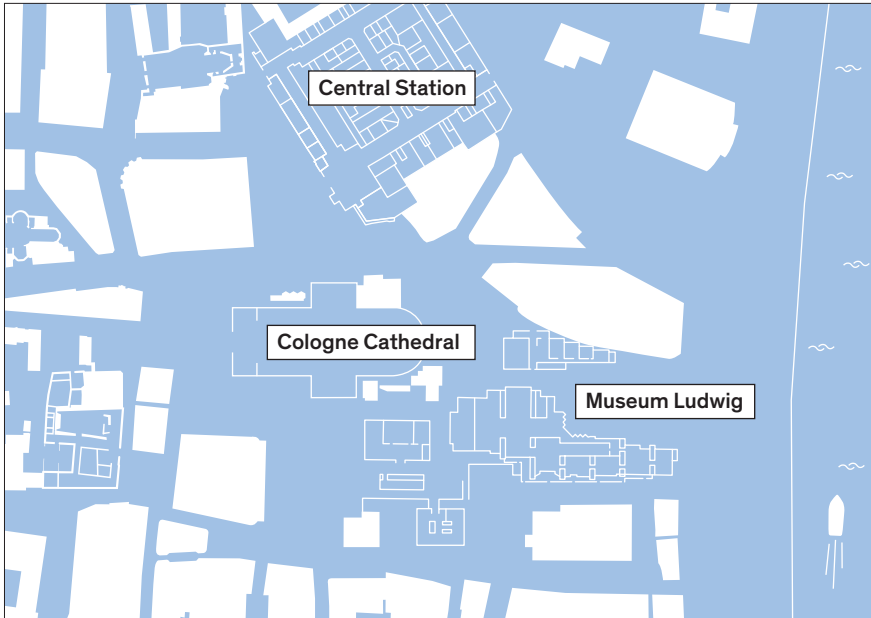


Hamburg – Altstädter Straße

€225,000



Berlin – Kurfürstendamm



Public spaces in the centre of Cologne

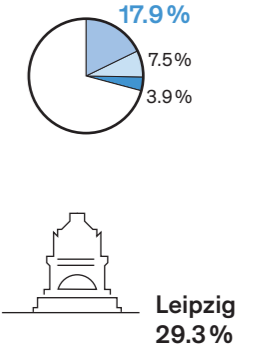
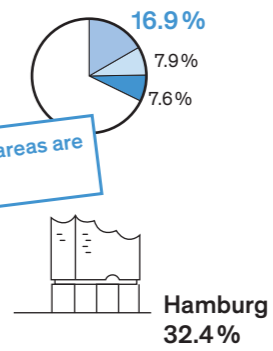
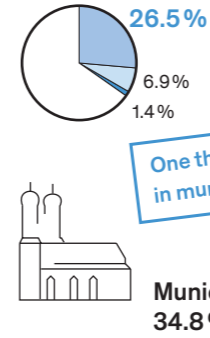
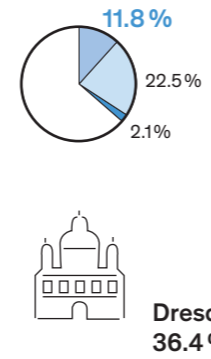
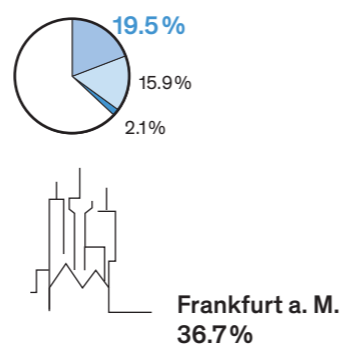
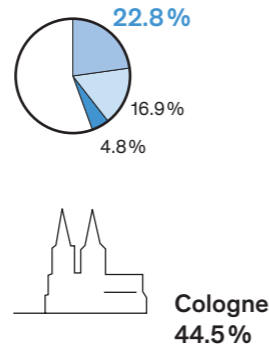
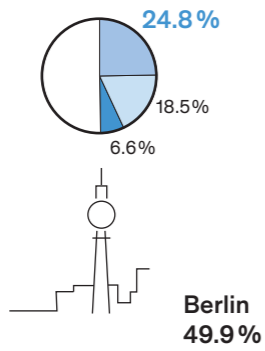
In his plan of Rome published in 1748, Giambattista Nolli also presented the interiors of churches and important palaces as public spaces. Applying his principle to the centre of Cologne shows how important public spaces – shown in blue – are for our cities.

Source: Federal Foundation of Baukultur 2019;
basic map of Cologne: North Rhine-Westphalia 2019

Public Spaces

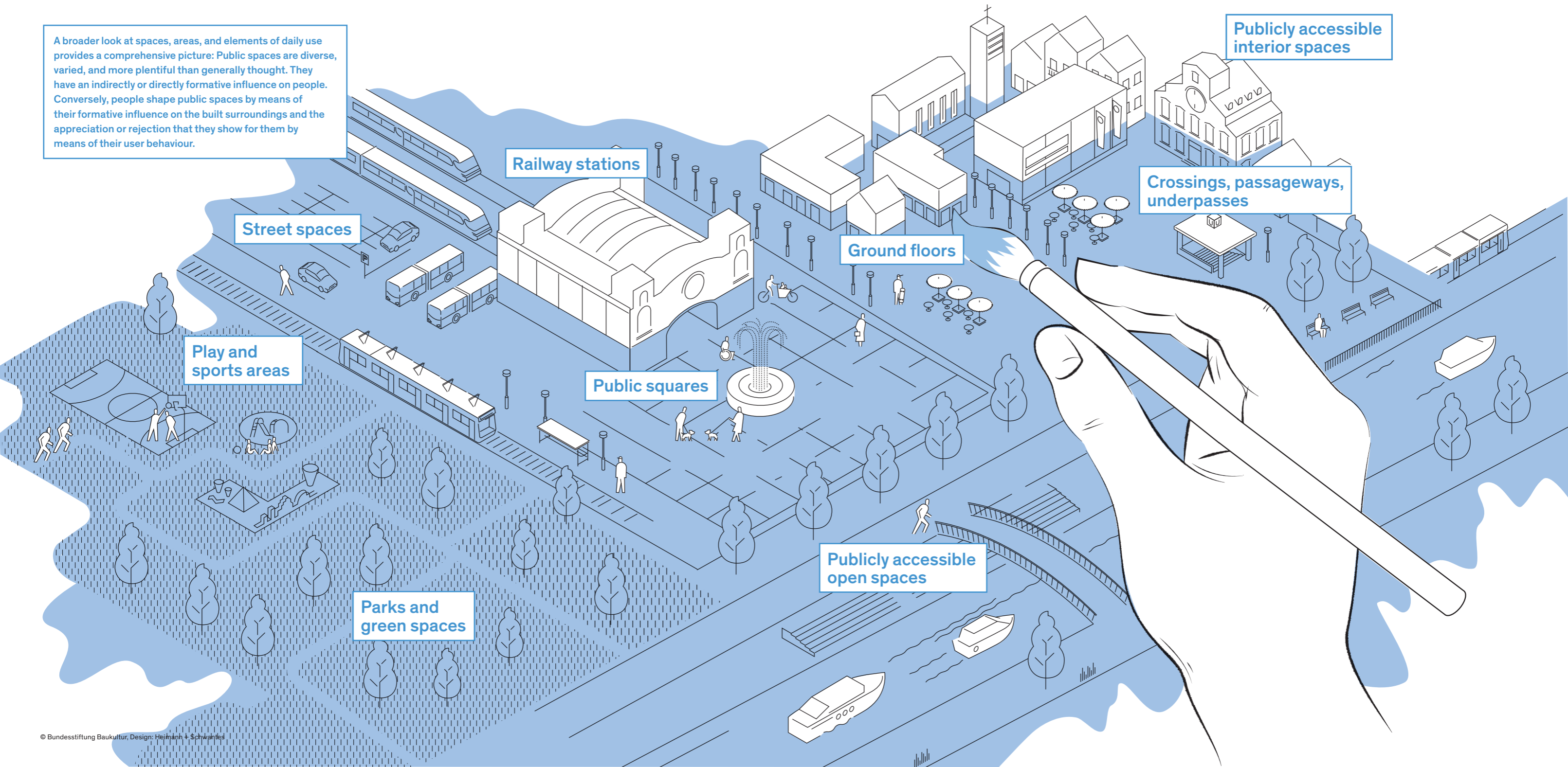
Source: Bavarian State Office for Statistics 2019; North Rhine-Westphalia 2018; Frankfurt am Main 2018; Berlin-Brandenburg Statistics Office 2018; State Statistical Office of Saxony 2019

- Streets, pavements, squares
- Parks, green spaces
- Other sports, leisure time, and recreation areas, without allotment gardens
- Cemeteries
- Forests and wooded areas
- Watercourses, harbor basins, and standing waters



One third to half of the areas are in municipal ownership

A broader look at spaces, areas, and elements of daily use provides a comprehensive picture: Public spaces are diverse, varied, and more plentiful than generally thought. They have an indirectly or directly formative influence on people. Conversely, people shape public spaces by means of their formative influence on the built surroundings and the appreciation or rejection that they show for them by means of their user behaviour.

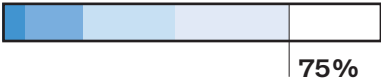


Noise exposure in Germany

Source: Federal Environment Agency 2019

In the past twelve months, to what degree have you felt personally disturbed or annoyed by the following things?

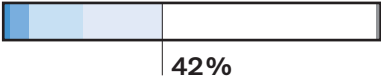
Street noise



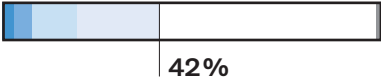
Neighbourhood noise



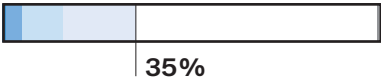
Industrial / commercial noise



Air transport noise



Train noise

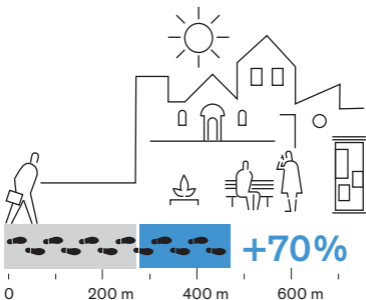


- extremely
- very
- moderately
- somewhat
- not at all
- don't know

Endurance resulting from attractive surroundings

Attractive surroundings increase acceptance of longer walks by up to 70%.

Source: H. Knoflacher 1995



Climate change is already noticeable

The municipalities surveyed confirm the following occurrences today

Source: Municipal survey for the Baukultur Report 2020/21

Heavy rains



Droughts



Heat stress



Storms

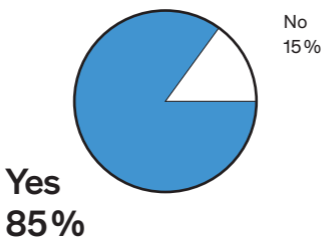


High water / flooding



Has your municipality already adopted measures to adapt to climate change?

Source: Municipal survey for the Baukultur Report 2020/21



The following precautions have already been taken or are planned:

Flood protection systems



Seepage options



Tree planting



Rainwater usage



Roof and façade greening



Ground coverings to counteract overheating



■ extant □ in planning

Added value through urban greenspace

Source: Federal Foundation of Baukultur 2019; ARUP 2014

€ Economic added value

☀ Social and ecological added value

☀
+ Cooling
+ Fresh air production
+ Wind protection
+ Biodiversity

€
+ Increase in land value
+ Increase in real estate value
+ Increase in prestige

€
+ Increase in retail sales

€
+ Tourism and local recreation infrastructure

€
+ Energy cost reduction
+ Sound insulation
+ Heat insulation
☀
+ Rainwater retention
+ Communal area

☀
+ Mental health
+ Physical health
+ Wellbeing
+ Sense of responsibility

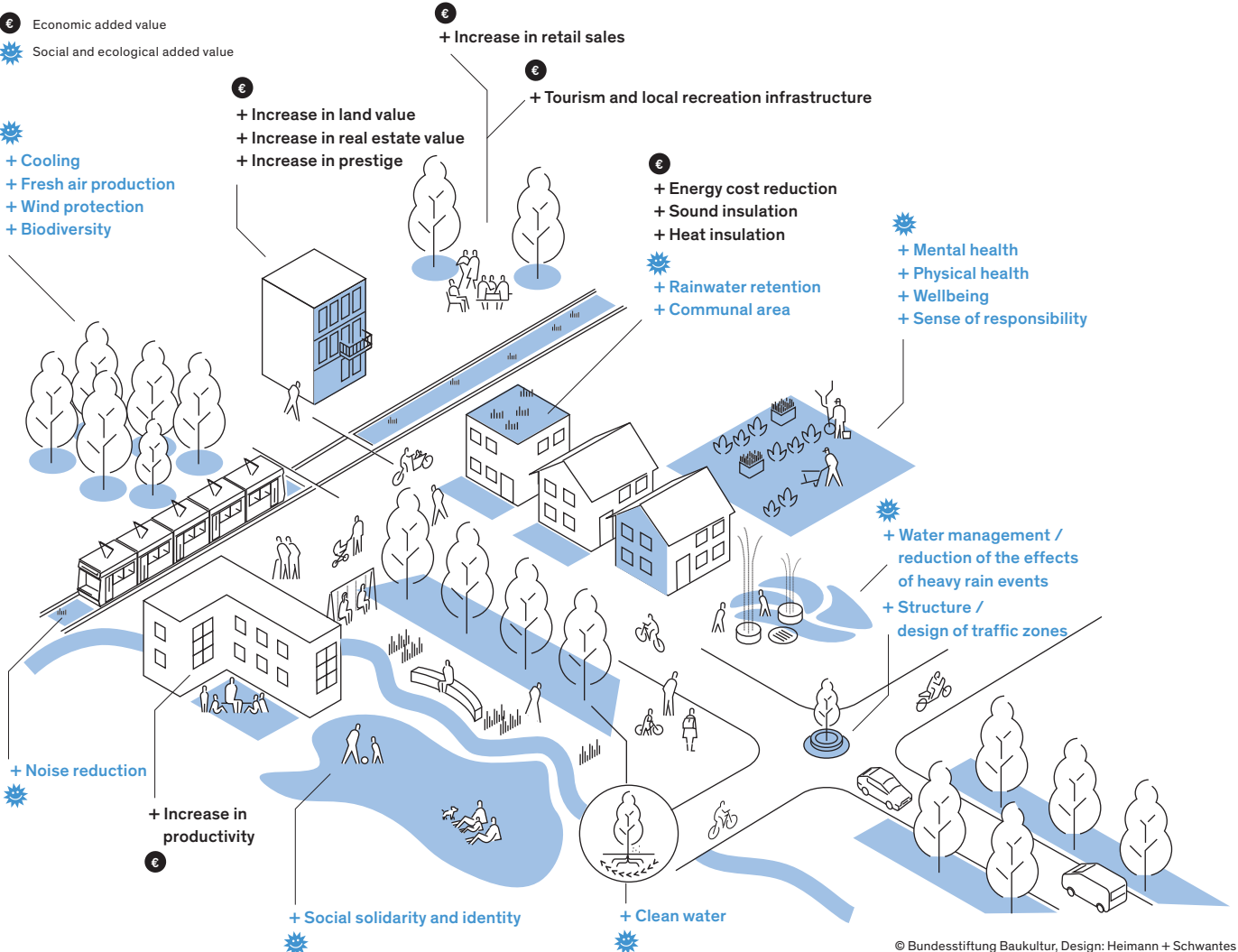
☀
+ Noise reduction

+ Increase in productivity
€

☀
+ Social solidarity and identity

☀
+ Clean water

☀
+ Water management /
reduction of the effects
of heavy rain events
+ Structure /
design of traffic zones



Real instead of virtual spaces

Source: Martini, Future Lab 2019; University of Pittsburgh Center for Research on Media Technology and Health 2017

**> 2 hours/day social networks
= twice as high a risk of social
isolation compared to moderate
use (0.5 hours/day)**



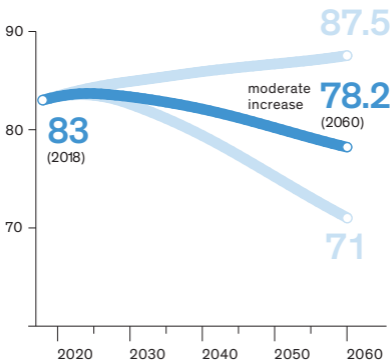
**55% of adults wish for more
time with their friends**

Population development scenarios until 2060

Moderate growth until 2030, then a continuous decline

Source: Destatis 2019: 14th coordinated population forecast – lowest, moderate, and highest development

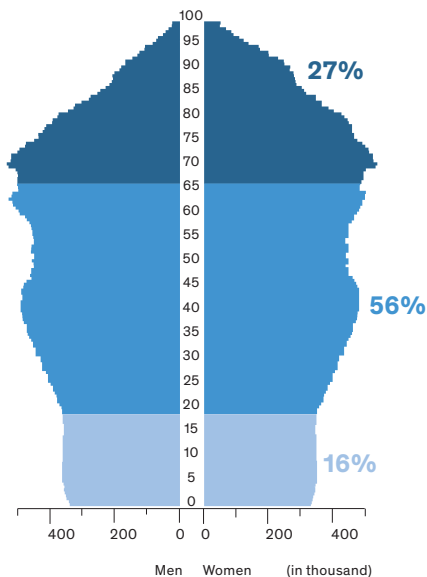
Inhabitants
(in millions)



Prognose bei unterschiedlicher Entwicklung von Geburtenhäufigkeit, Lebenserwartung und Wanderungssaldo.

Population forecast for the year 2060

Source: Destatis 2019: 14th coordinated population forecast for Germany – moderate development of birth rate, life expectancy and net migration



Age	Million	Percentage
67+	21.4	27%
18-66	44.1	56%
<18	12.7	16%
Total	78.2	100%

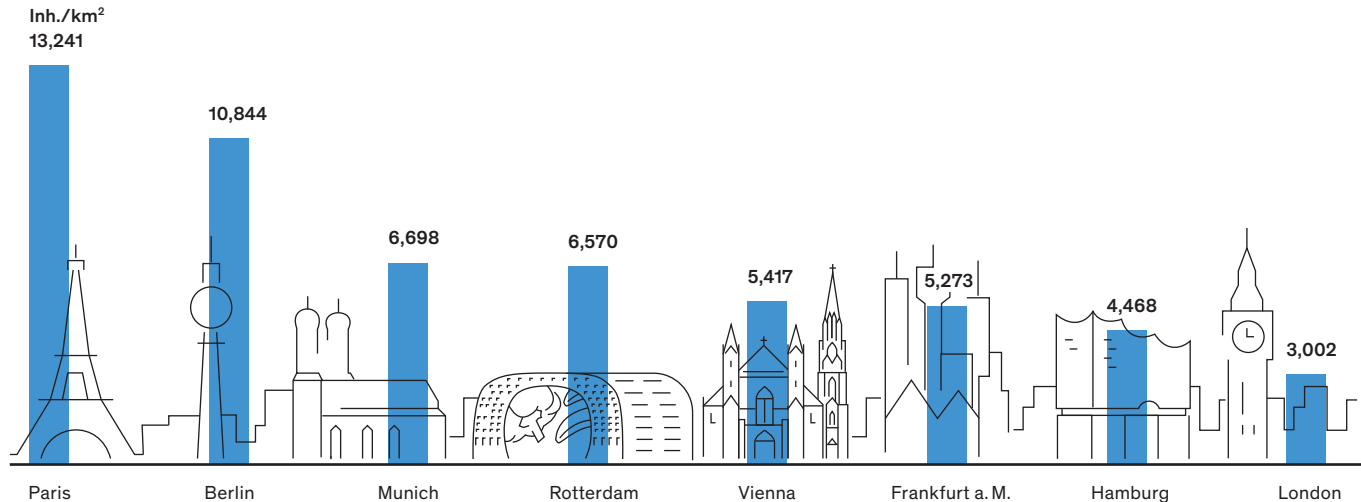
Dense city centres in Europe

© Bundesstiftung Baukultur, Design: Heimann + Schwantes

Population density in city centres

(inh./km²)

Source: AfS BB 2019; cbs 2019; Insee 2019;
Munich 2019; ONS 2019; Frankfurt 2019; Statistics
Austria 2019; Northern Statistical Office 2019



Cities with green lungs

Source: Interactive team of the Berliner Morgenpost 2016

Percentage of public and private urban greenspace in German metropolises of 500,000 inhabitants or more*



Hamburg
Dortmund
Stuttgart
Dresden
Bremen

approx.

70 %



Percentage of public and private urban greenspace in all big German cities*



Siegen
Göttingen
Bergisch Gladbach
Salzgitter
Pforzheim

approx.

85 %



* Assessed on the basis of 185 satellite images

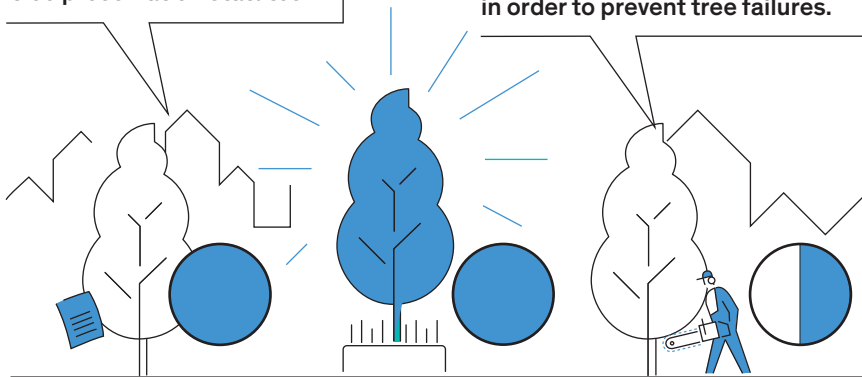
Relevance of urban trees

Source: Municipal survey for the Baukultur Report 2020/21

80% of municipalities perceive trees as formative for the appearance of cities.

74% of municipalities have tree preservation statutes.

In every 2nd municipality, trees have been removed as a precaution in order to prevent tree failures.



Comparative growth of Germany

Development of the total area of factory outlet centres in m²

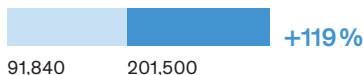
2010–2018

Source: ecostra basic research; trade data 2019

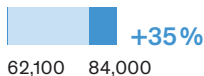
Germany



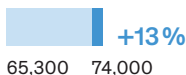
Poland



The Netherlands



Austria

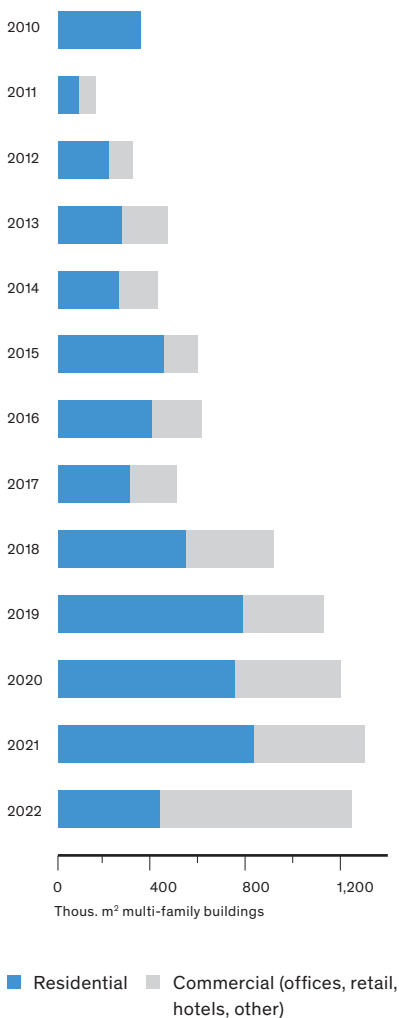


Denmark



Building activities in objects with the label 'district'

Source: Bulwiengesa AG 2020

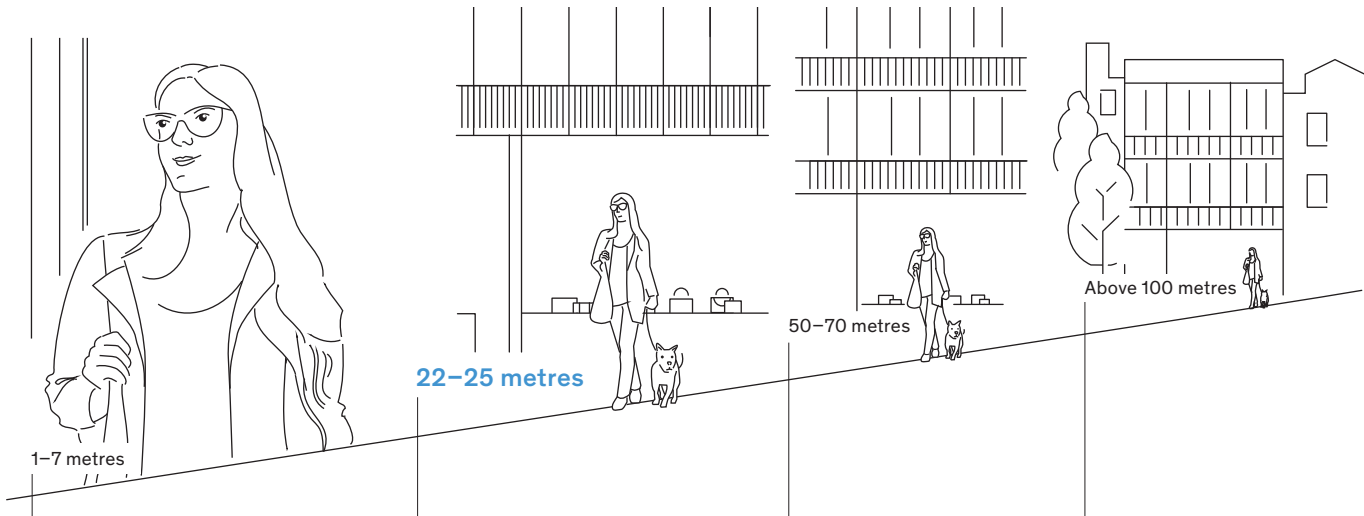


Assessment based on the object database of Bulwiengesa AG; no claim to completeness

Perceiving public spaces

Federal Foundation of Baukultur as per Jan Gehl 2010

© Bundesstiftung Baukultur, Design: Heimann + Schwantes



Baukultur

Details like windows, doors, and façade elements

People

All senses are active and details are perceived. Exchange and conversation are possible. The smaller the distance is, the more intensively communication can take place.

22–25 metres

Baukultur

Façades, balconies, and ground floors

People

Recognizing emotions like facial expressions and feelings is facilitated. Slightly raised voices can be heard.

50–70 metres

Baukultur

Buildings, volumes, structure

People

Typical movements and characteristics like gender, age, and hair colour are recognizable and loud calls for help can be heard.

Above 100 metres

Baukultur

Ensemble, urban development

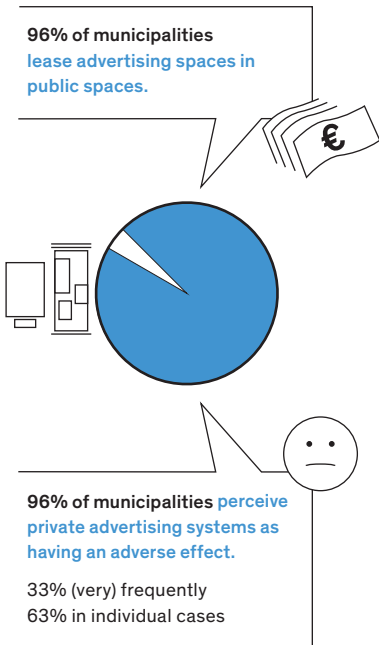
People

People's movements and body language are perceived indistinctly.

Presence of advertising spaces

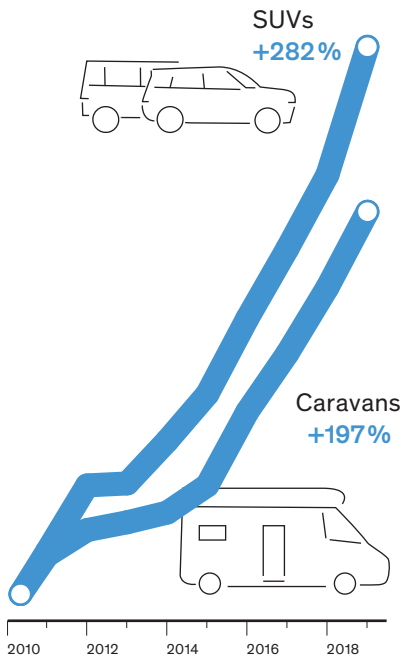
No municipality without advertising spaces, despite an adverse effect on appearance

Source: Municipal survey for the Baukultur Report 2020/21

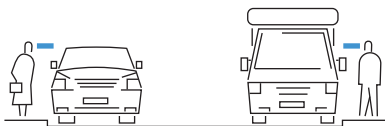


Increase in new registrations of SUVs and caravans

Source: Federal Motor Transport Authority 2010–2020;
Federal Foundation of Baukultur 2019



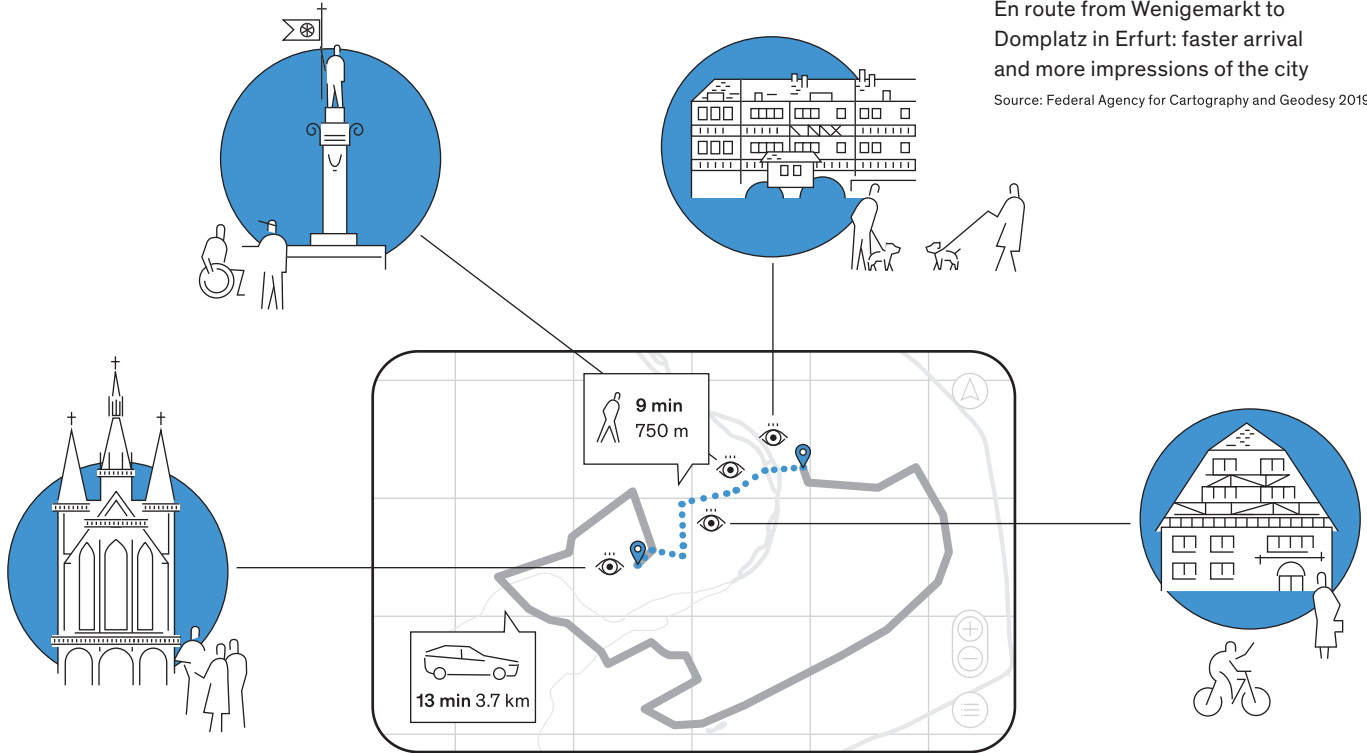
Greater space requirements and restricted views



Better on foot

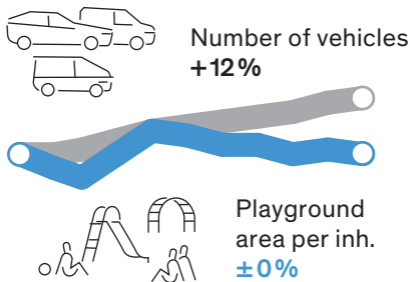
En route from Wenigemarkt to
Domplatz in Erfurt: faster arrival
and more impressions of the city

Source: Federal Agency for Cartography and Geodesy 2019

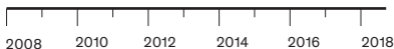


Development of playground areas per inhabitant and number of private vehicles in Berlin

Source: Office for Statistics Berlin-Brandenburg 2008–2018; Senate Department for Health, the Environment, and Consumer Protection Berlin 2019



The number of inhabitants increased by 11% in the same period.

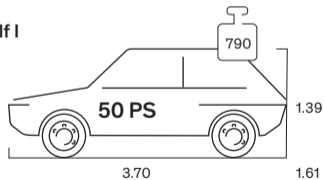


'Stronger, faster, heavier, bigger'

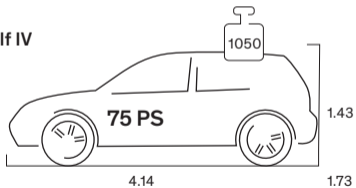
Source: Federal Motor Transport Authority 2019

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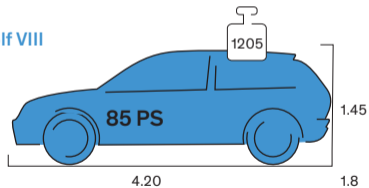
1974
VW Golf I



1997
VW Golf IV

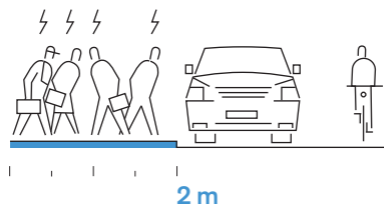


2019
VW Golf VIII



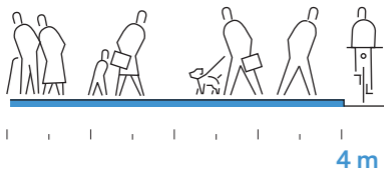
Twice as wide, three times as good

Source: FSV, RVS 2012; Vienna 2011



As of 400
persons /
hour

Confined foot traffic.
Conflicts hard to avoid



Up to 1,500
persons /
hour

More comfortable foot
traffic. Barely any to
few conflicts between
pedestrians

Desire for better traffic infrastructure

Source: Population Survey for the Baukultur Report 2020/21

Traffic participants wish for:

improved condition of streets and cycling and foot paths



better coordinated public transport services



more frequent public transport connections



more cycling paths



more parking options for cars



more pedestrian-friendly pavements



better traffic management



more parking spaces for bicycles

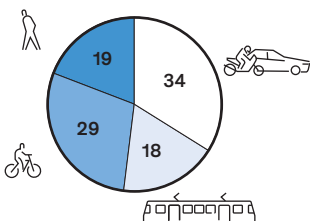


Modal split

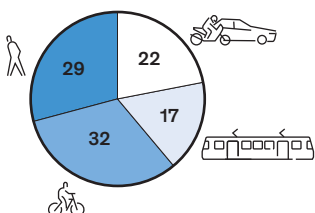
All trips in selected cities in per cent for the year 2017

Source: BMVI 2018; Deloitte City Mobility Index 2018; Mobilitätsagentur Wien GmbH; Copenhagen 2017

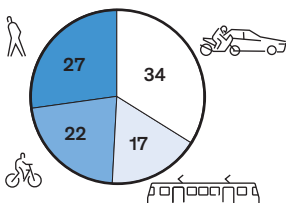
Copenhagen



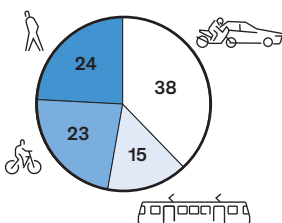
Amsterdam



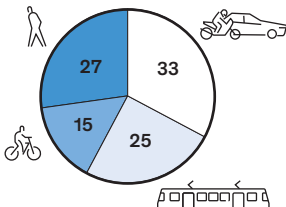
Freiburg



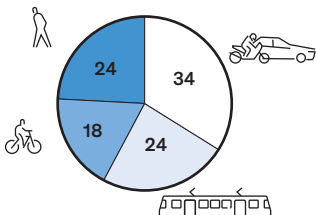
Karlsruhe



Berlin



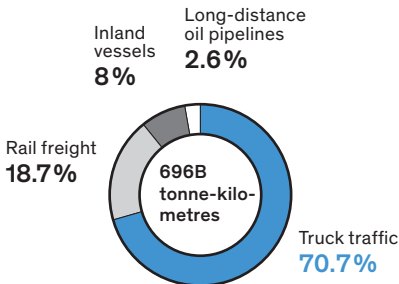
Munich



Truck traffic in public spaces

Source: Allianz pro Schiene 2018, 2019;
BMVI 2019; Deutsche Bahn 2019

Freight transport in Germany 2017

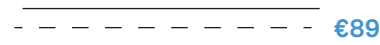


Federal per capita investment 2018

Tracks


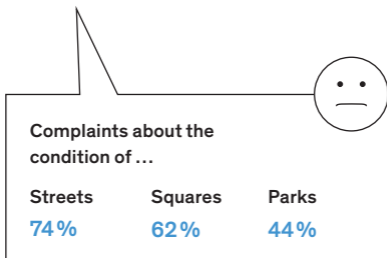


Roads



Double the budget!

Source: Population and municipal surveys for the Baukultur Report 2020/21



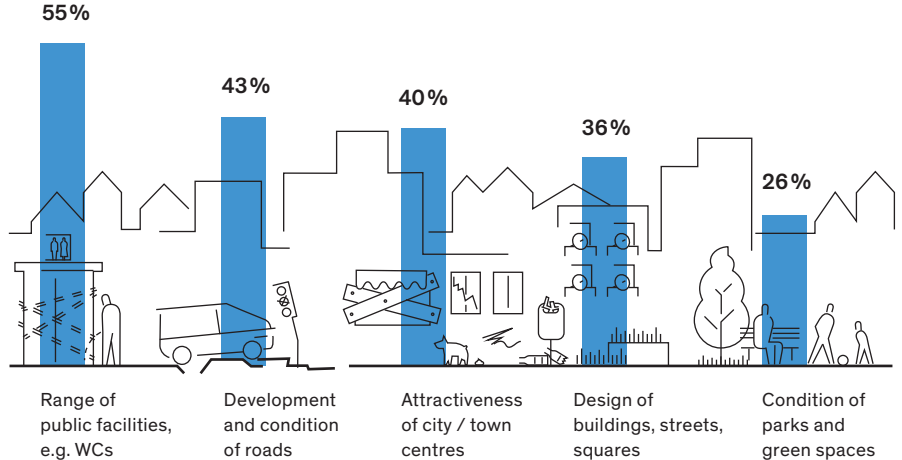
63% of surveyed municipalities find the maintenance budget / standard rates for park maintenance and path cleaning insufficient.

Responsibility and maintenance

Source: Population and municipal surveys for the
Baukultur Report 2020/21

89% consider the condition
of public spaces (very)
important

People are less / not at all
satisfied with the ...



Every second person is annoyed by the state of public sanitary facilities

Source: Blue Responsibility / GfK 2017

Railway station



City toilets



Motorway service areas



Event and concert halls



Who is less satisfied?

53.1 %



Women

43.1 %



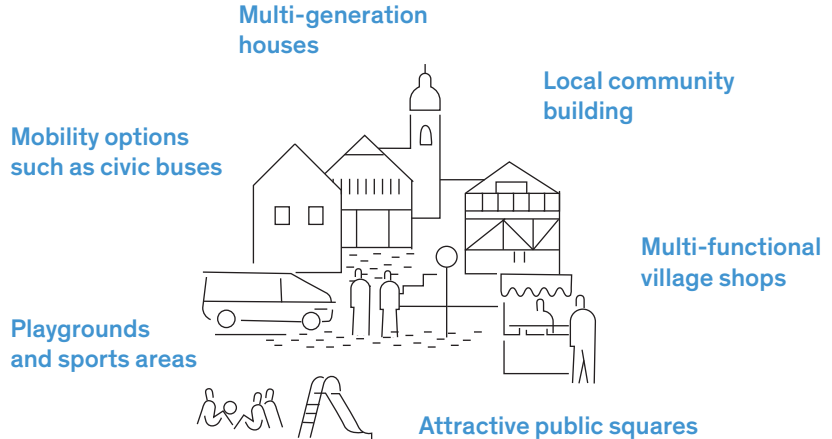
Men

Baukultur enhances rural life

Public spaces for vital town centres

Source: Berlin Institute for Population and Development
2019

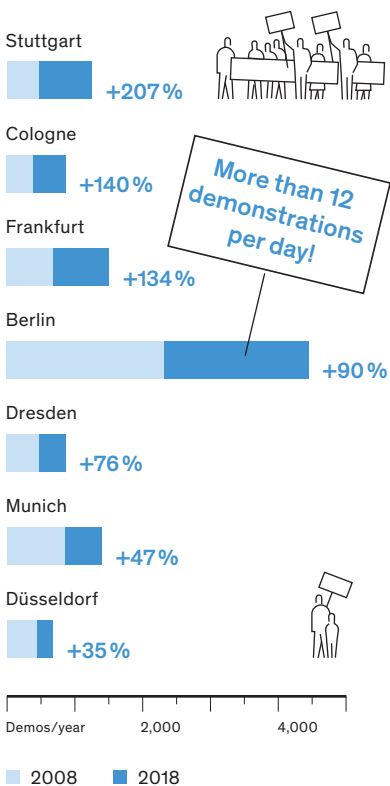
- ✓ Analyse and serve needs
- ✓ Promote old rather than new buildings
- ✓ Advertise vacancies
- ✓ Promote shops in the town centre rather than supermarkets on the periphery
- ✓ Village beautification strategy
- ✓ Full-time contact person for Baukultur
- ✓ Name successful models from other regions
- ✓ Regular town meetings and citizen consultations
- ✓ Advice for new residents



Increasing use of public spaces for demonstrations

Increase in demonstrations and rallies from 2008 to 2018

Source: rbb – Rundfunk Berlin-Brandenburg 2018



Meeting places for youth

Source: Population survey for the
Baukultur Report 2020/21

14- to 17-year-olds find the
following public places suitable
for spending time together

Leisure time and sports facilities



67%

Parks and green spaces



64%

Gastronomic offers

Street cafés, kiosks, beer gardens, etc.



63%

Football fields

53%

Playgrounds



44%

Skate parks

29%

Benches and street furniture

22%



Land policy instruments

The following instruments are actively used by the municipalities surveyed

Source: Municipal survey for the
Baukultur Report 2020/21

Sales



Business development
consulting



Purchases



Leasing



Concept processes



Rentals



Revolving funds



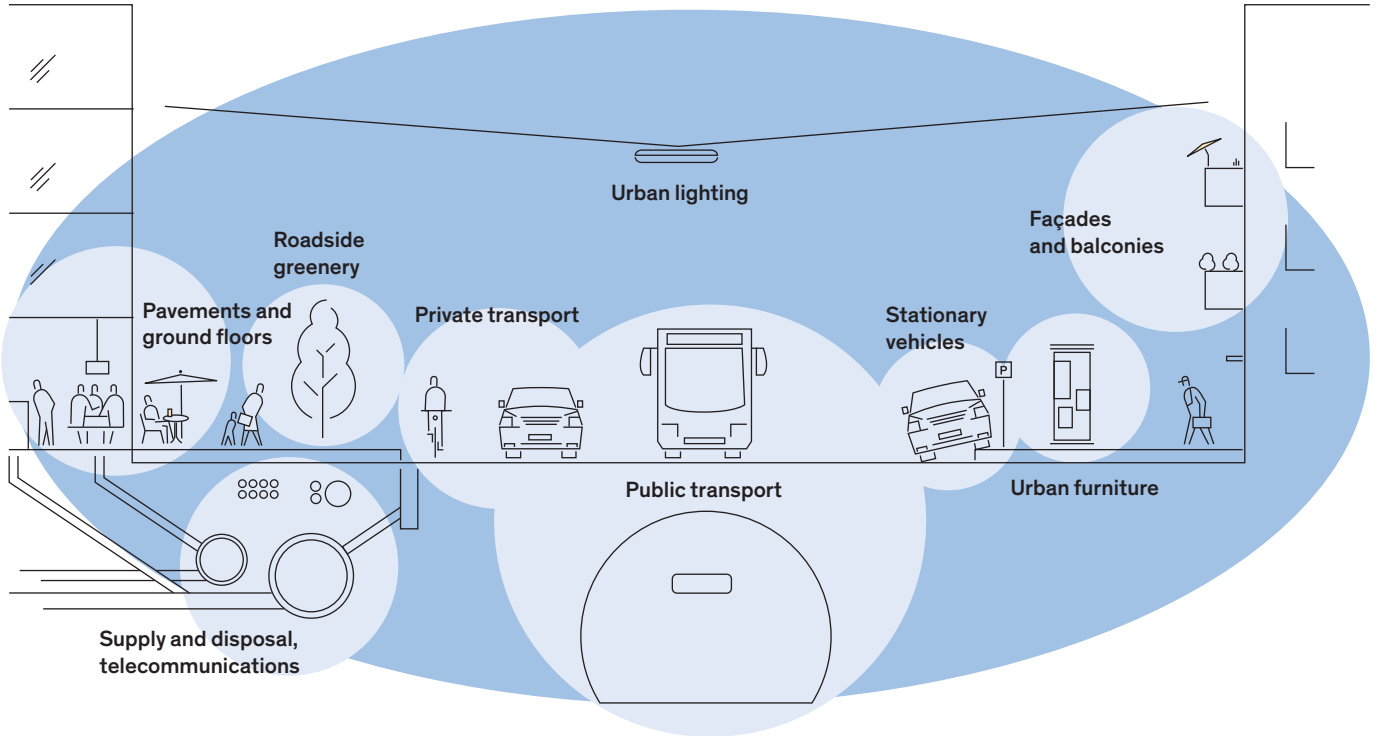
None



Overcoming sectoral thinking

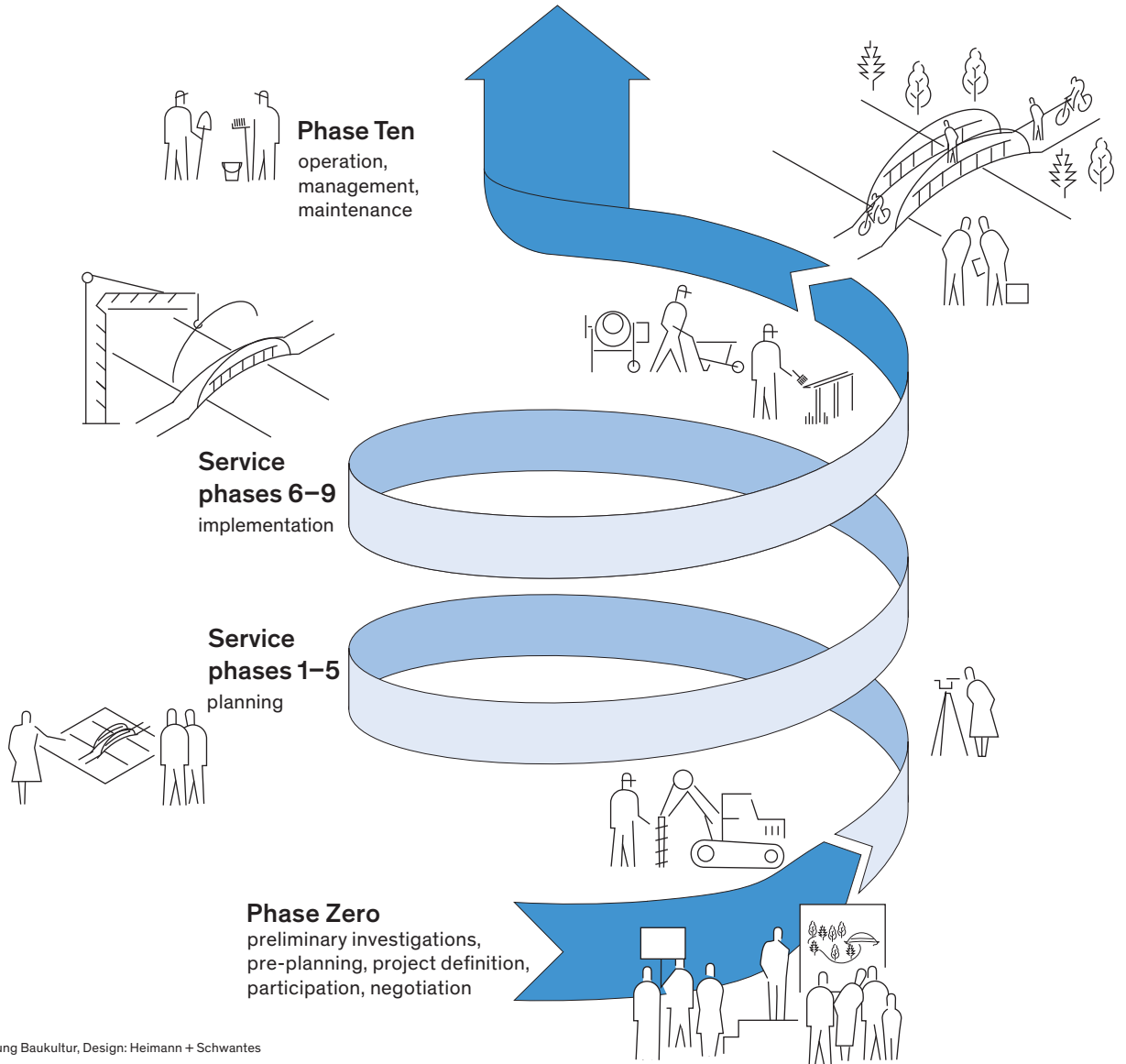
Coordinating responsibilities in public space across sectors

Federal Foundation of Baukultur 2020



Project levels Phase Zero and Phase Ten

Federal Foundation of Baukultur 2020
with reference to HOAI's service phases 1-9



There is great citizen engagement for Baukultur

Associations, initiatives, calendar, and excursions for Baukultur in Germany

Source: Förderverein Bundesstiftung Baukultur e.V. 2019

