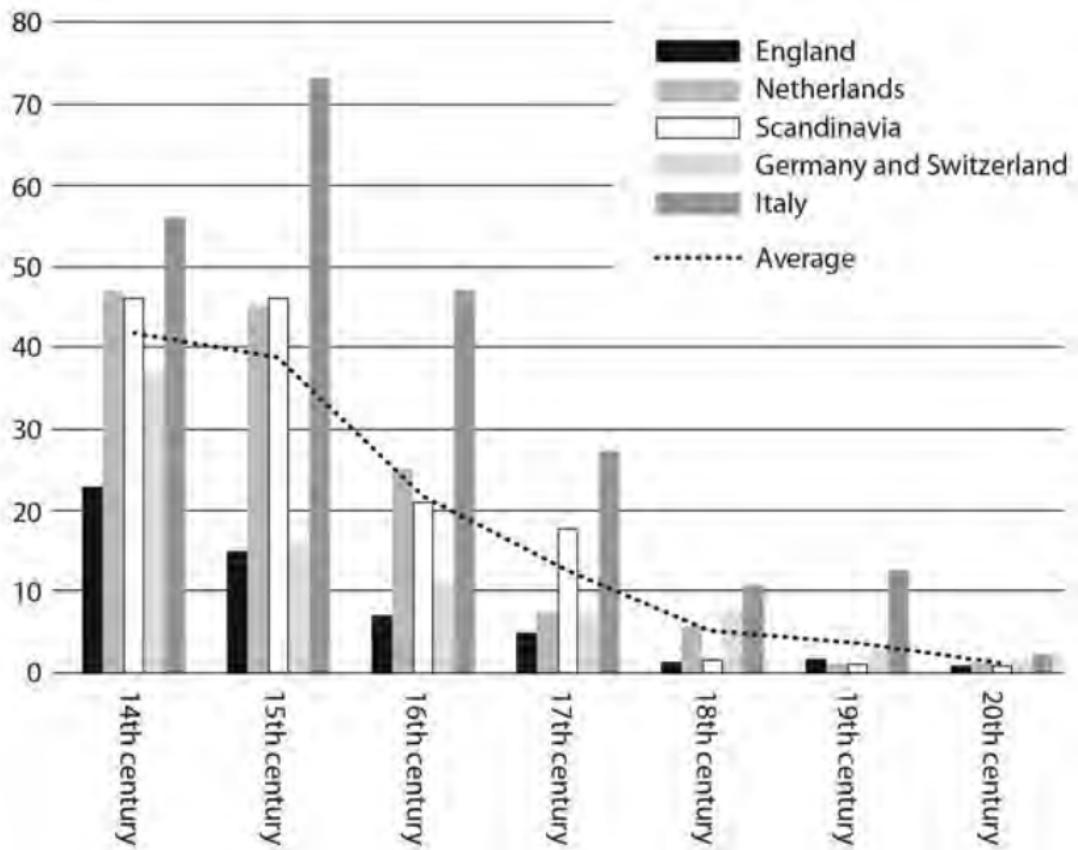
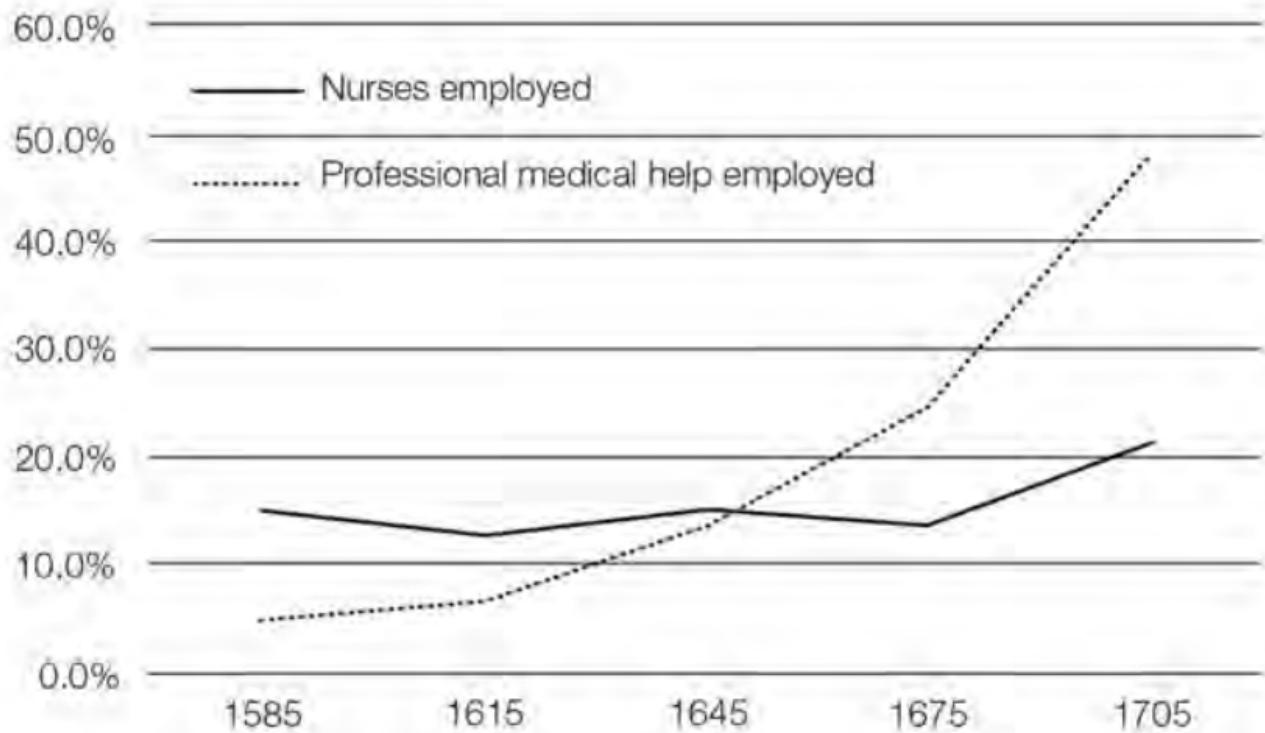


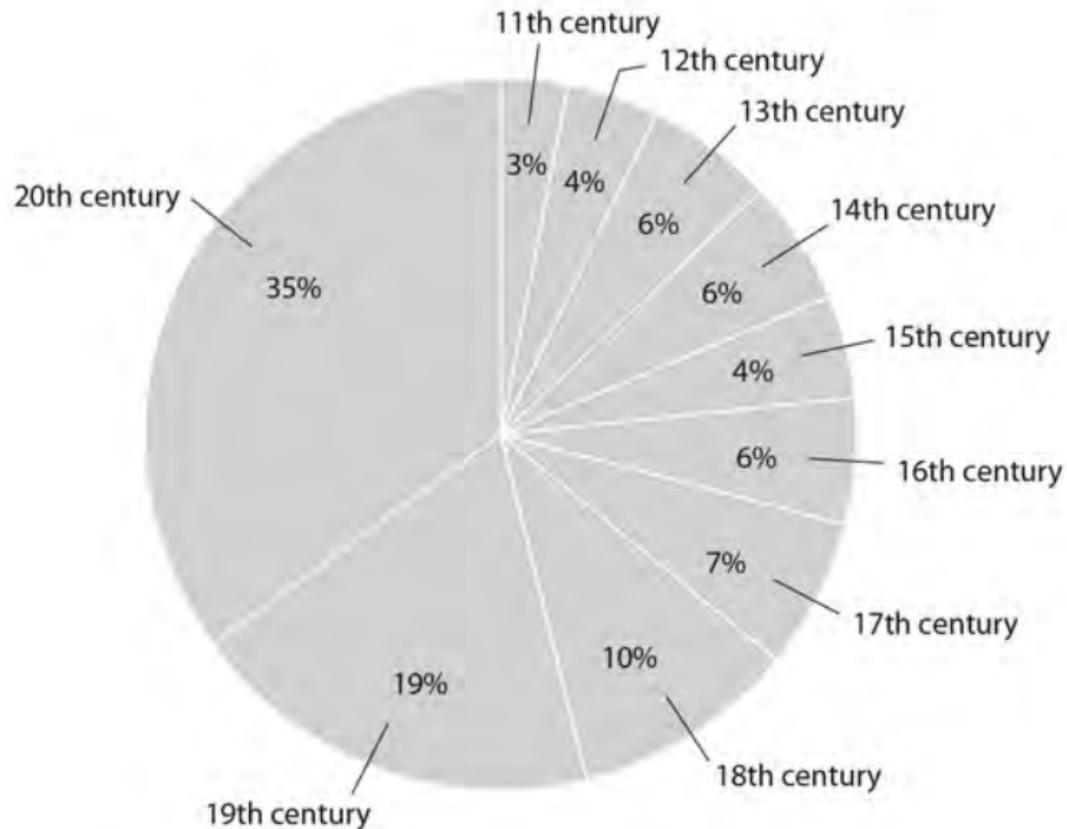
Foundation of new towns in Central Europe and grants of new markets in England, 20-year periods, 1200–1500⁶



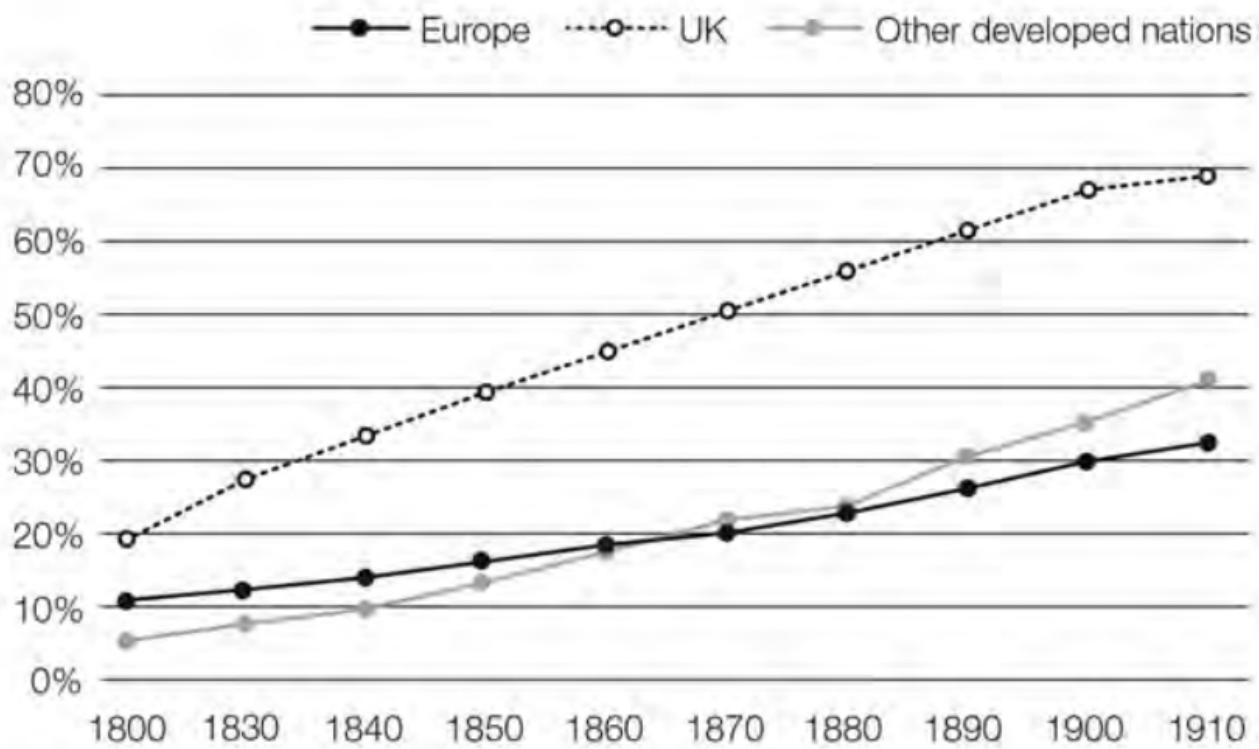
Homicide rates (per 100,000 people)¹⁵



Medical and nursing help purchased by men dying in East Kent
with movable goods worth £100-£200⁸



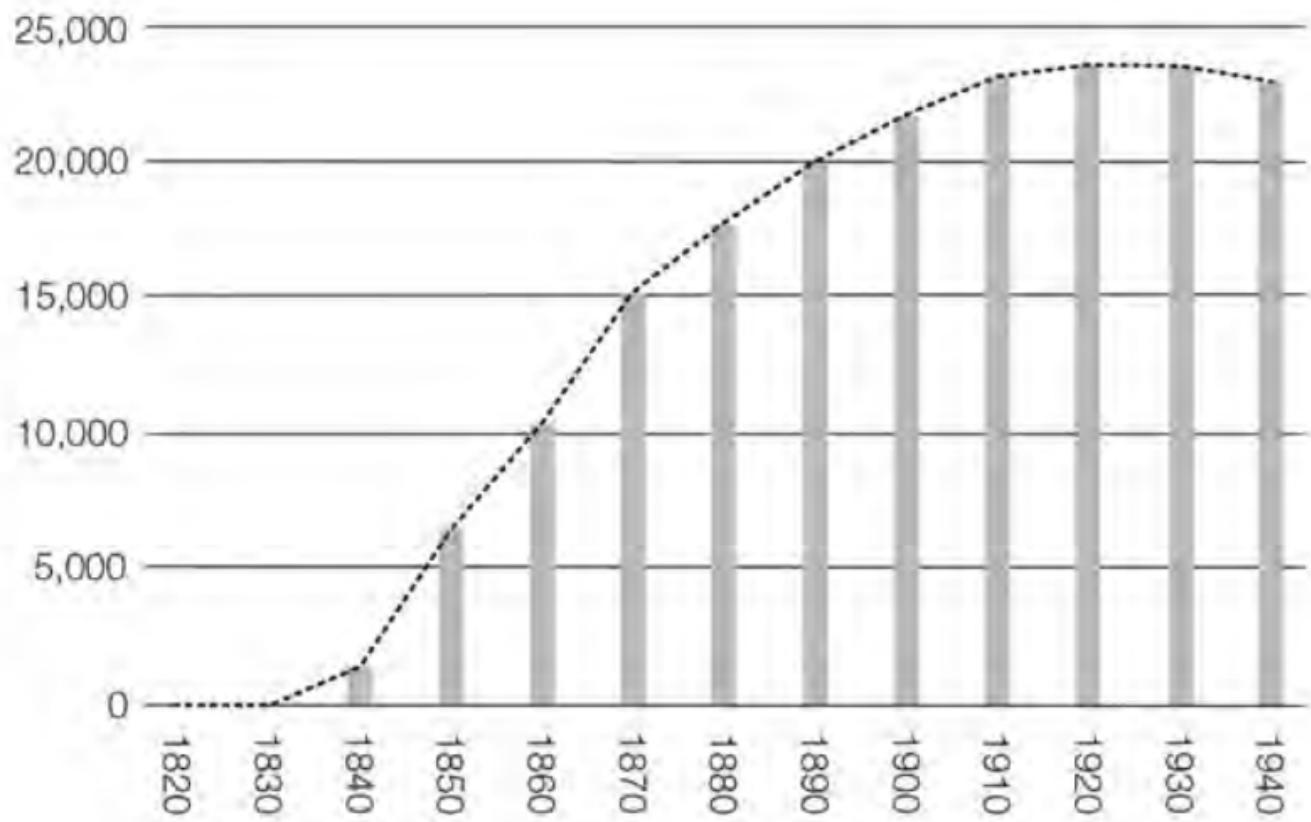
Proportions of European millennial population (person-days) per century



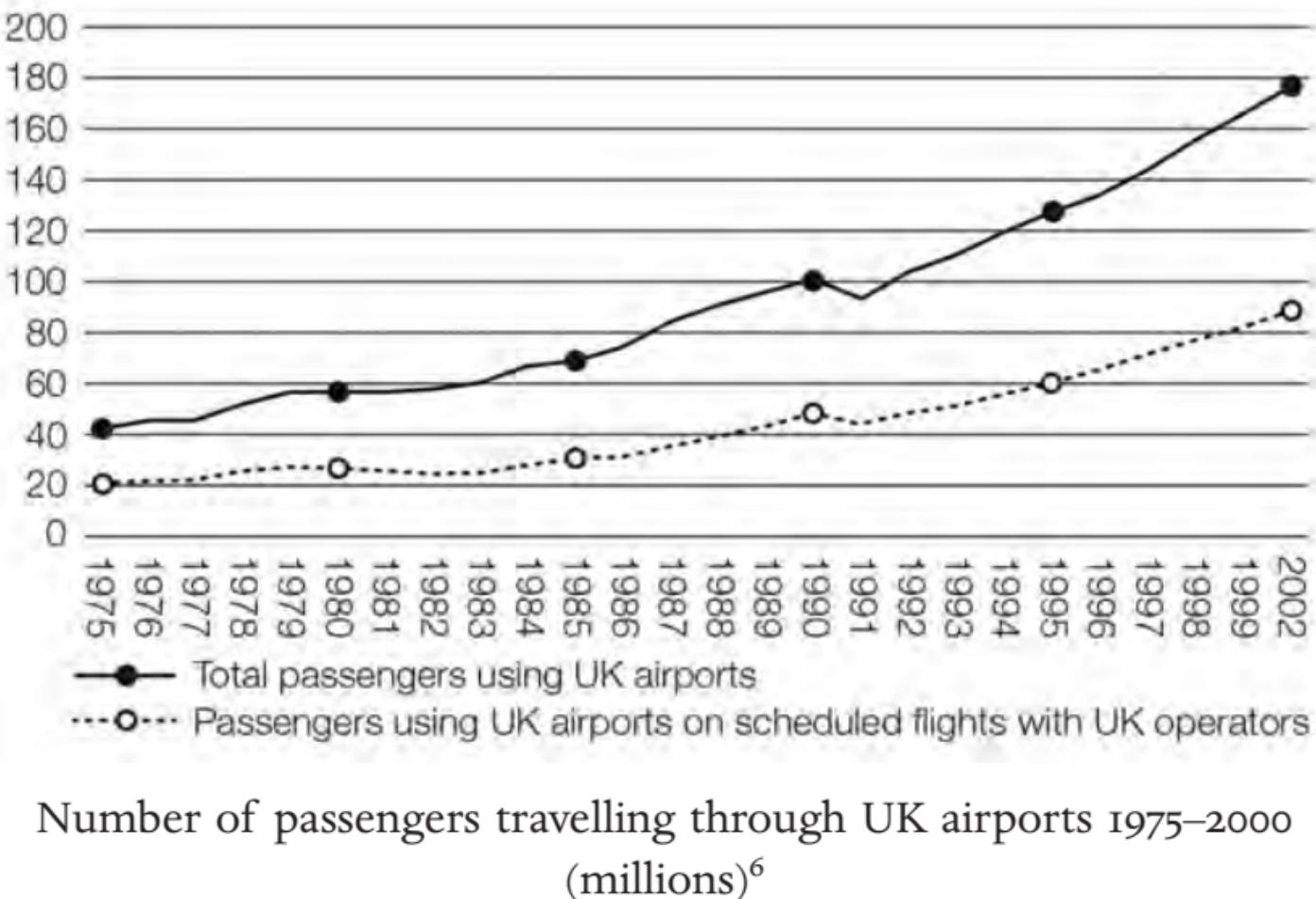
Percentage of population living in towns of more than 5,000 inhabitants in UK, Europe and other developed nations (America, Canada and Australia)²

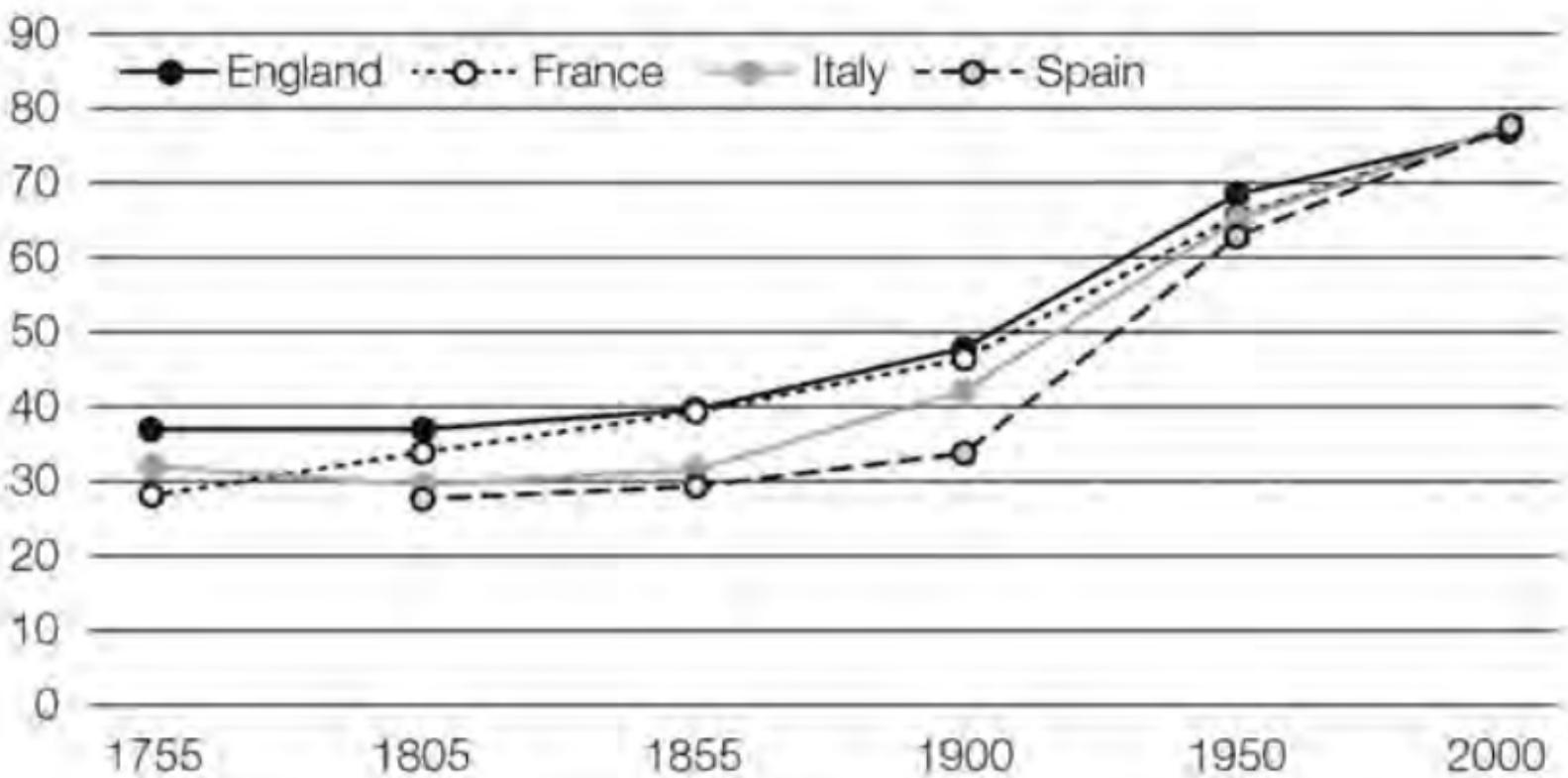
	1840	1860	1880	1900
France	496	9,167	23,089	38,109
Germany	469	11,089	33,838	51,678
Belgium	334	1,730	4,112	4,591
Austria-Hungary	144	4,543	18,507	36,330
Russia	27	1,626	22,865	53,234
Italy	20	2,404	9,290	16,429
Netherlands	17	335	1,846	2,776
Spain	0	1,917	7,490	13,214
Sweden	0	527	5,876	11,303

Miles of European railway track in use 1840–1900⁴

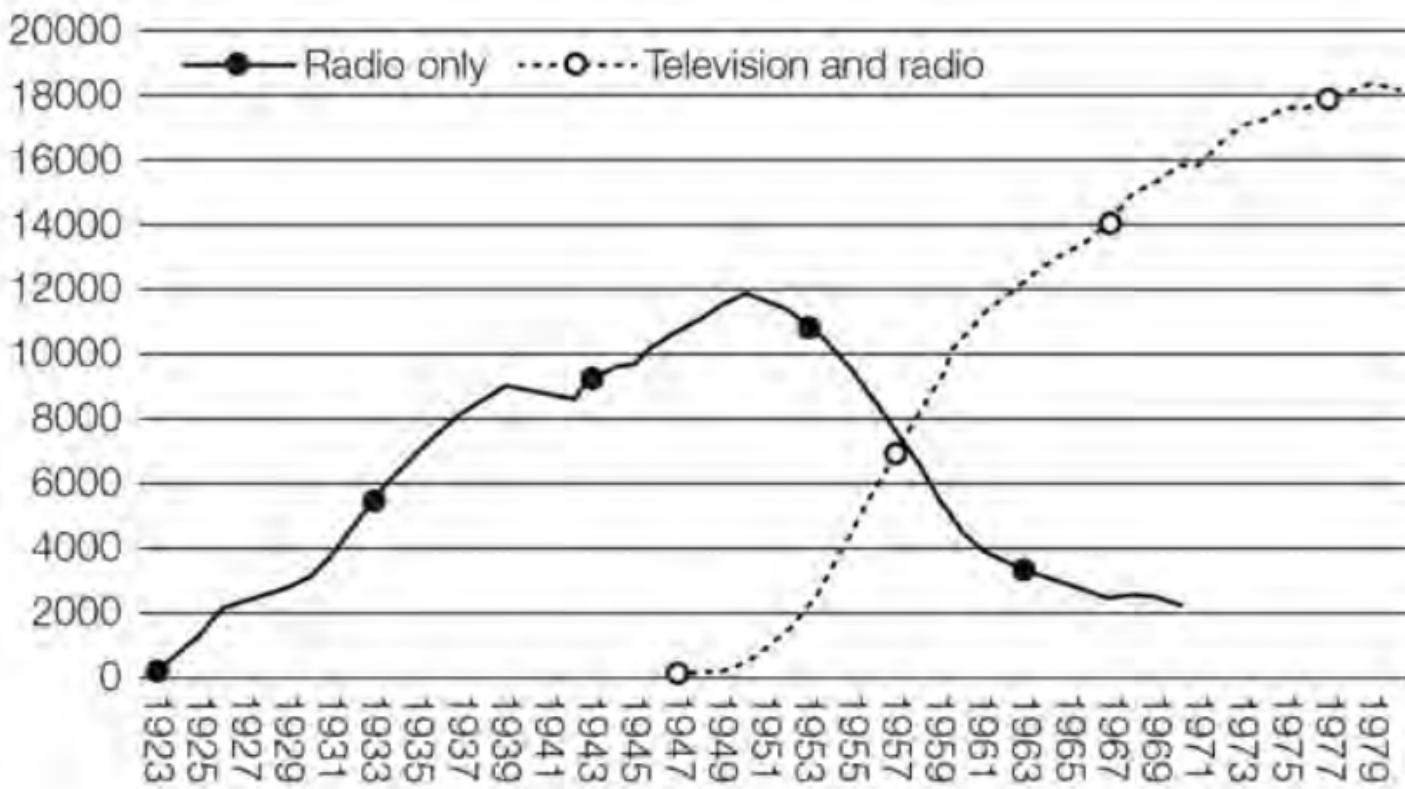


Miles of railway track in operation in UK and Ireland 1825–1940²





Life expectancy at birth in England, France, Italy and Spain



UK radio and television licences purchased annually (thousands)¹⁵

Century	Population (millions)	Military casualties	Military casualties relative to millions of population	Percentage change
12th	13	29,940	2,303	—
13th	18	68,440	3,802	65%
14th	25	166,729	6,669	75%
15th	35	285,000	8,143	22%
16th	45	573,020	12,734	56%
17th	55	2,497,170	45,403	257%
18th	90	3,622,140	40,246	-11%
19th	171	2,912,771	17,034	-58%
1901–25	305	16,147,500	52,943	211%

Pitirim Sorokin's estimate of military casualties for England, France, Russia and Austria-Hungary

Country	1750	1800	1850	1900	1950	2000
Sweden	37.3	36.5	43.3	54.0	70.3	79.75
Italy	32	30	32	42.8	66.0	79.2
France	27.9	33.9	39.8	47.4	66.5	79.15
England	36.9	37.3	40.0	48.2	69.2	77.35
Spain	(28)	28	29.8	34.8	63.9	78.85
Average (unweighted mean)	32.42	33.14	36.98	45.44	67.18	78.86
Changes in the mean	—	0 years 9 months	3 years 10 months	8 years 6 months	21 years 9 months	11 years 8 months

Life expectancy at birth in five European countries⁹

Country	1500	1600	1700	1820	1913	1998
UK	714	974	1,250	1,707	4,921	18,714
France	727	841	986	1,230	3,485	19,558
Italy	1,100	1,100	1,100	1,117	2,564	17,759
Germany	676	777	894	1,058	3,648	17,799
All western Europe	774	894	1,024	1,232	3,473	17,921

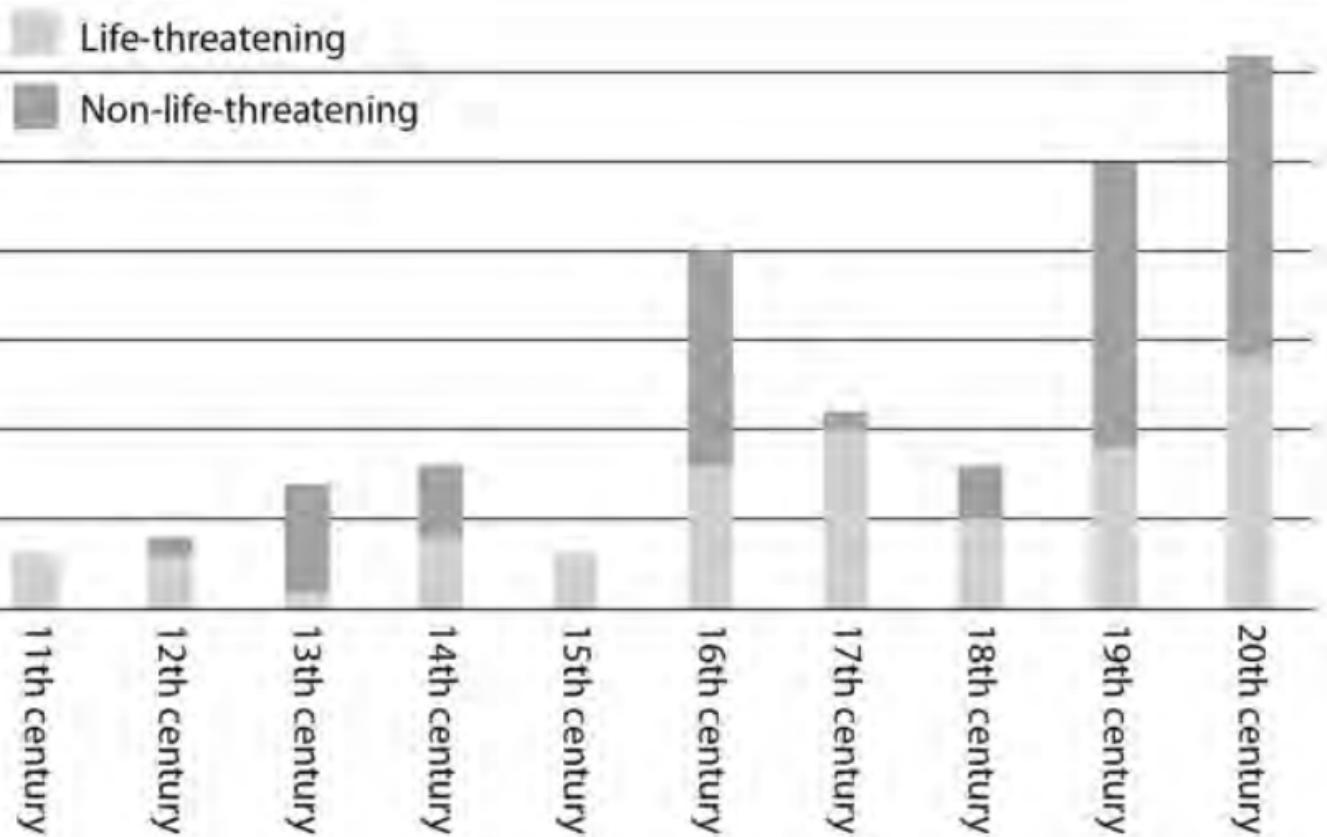
GDP per capita (1990 international dollars)¹²

Country	1300	1400	1500	1600	1700	1800	1850
England (GB after 1700)	727	1,096	1,153	1,077	1,509	2,125	2,718
Holland (Netherlands 1850)		1,195	1,454	2,662	2,105	2,408	2,371
Belgium			929	1,073	1,264	1,497	1,841
Italy	1,644	1,726	1,644	1,302	1,398	1,333	1,350
Spain			1,295	1,382	1,230	1,205	1,487
Germany			1,332	894	1,068	1,140	1,428
Average (mean)	1,186	1,339	1,301	1,398	1,429	1,618	1,866
Change		13%	-3%	7%	2%	13%	15%

GDP per capita (1990 international dollars)¹³

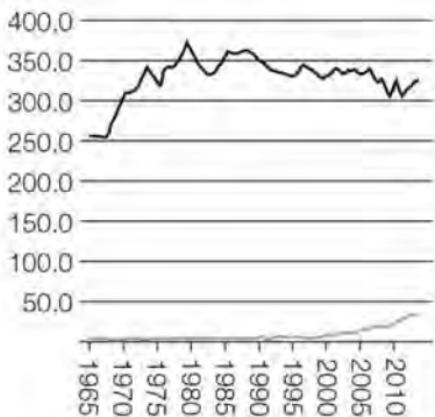
Need	Measurement	1st	2nd	3rd	4th	5th
Physiological needs	Population growth	19th	20th	18th	12th	13th
War	A measure of casualties relative to population, supplemented with qualitative assessment	20th	17th	11th	16th	14th
Law and order	Homicide rate, supplemented with qualitative assessment	16th	17th	15th	18th	12th
Health	Life expectancy at birth, supplemented with qualitative assessment	20th	19th	14th	17th	16th

Need	Measurement	1st	2nd	3rd	4th	5th
Ideology	Qualitative	16th	19th	18th	20th	17th
Community support	Qualitative	20th	19th	16th	14th	12th
Personal enrichment	Partly qualitative assessment, supplemented with per capita GDP & number of markets founded	20th	19th	13th	16th	14th
Community enrichment	As above	20th	19th	13th	16th	14th

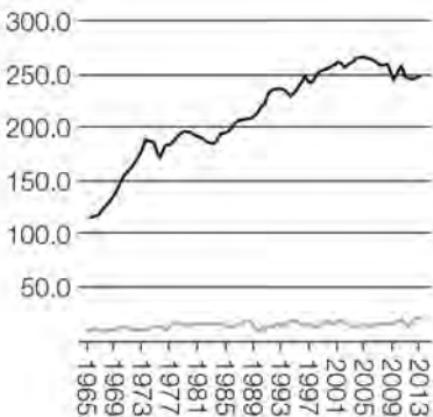


Aspects of change described in this book related to the scale of needs

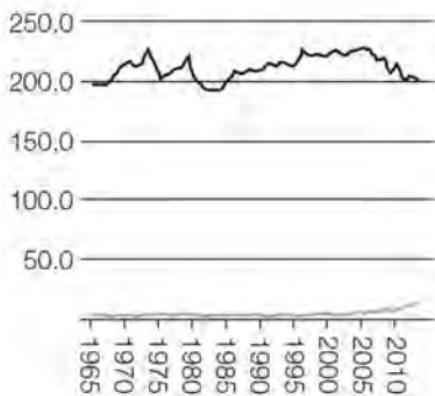
Germany



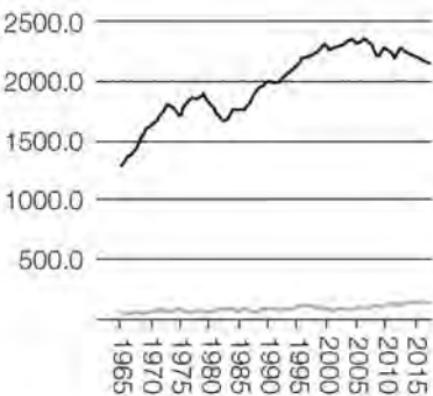
France



United Kingdom



United States



— Total primary energy consumption
— Energy from renewable sources

Total energy consumption in relation to total consumption of energy from renewable sources, 1965–2013 (millions of tonnes of oil equivalent)¹⁸