

Abramson, S., 168

Index

Boiannes, 24-26

Acemoglu, D., 10, 11, 60, 168 Boix, C., 168 Africa. See Sub-Saharan Africa Boone, M., 33 Agricultural impacts on urbanization, 9, Bosker, M., 10-11, 54, 58-60, 61, 62, 63, 59-60. (See also Geographical 66, 94, 169, 171-172, 173 endowments) Boucoyannis, D., 44, 168 Akyeampong, E., 17 Bradbury, J., 23-27, 169 Brecke, P., 26-27, 169 Allen, R., 15, 16 Bremen, war-related debt in, 20 Amatus, 24-26 Andersen, T., 168, 172, 174 Brewer, J., 168 Antwerp Brexit, 176 sack of, 41, 170 Buringh, E., 10-11, 54, 58-60, 61, 62, 63, as safe harbor, 40 66, 94, 169, 171-172 Aragon, political development in, 44 Burke, V., 168 Armagnac-Burgundy Civil War, 37 Arras, war-related debt in, 20 Calabria, warfare-to-wealth effect in, 81 Artisanal activity, 7, 43, 171 Cantoni, D., 14, 83-84 Augsburg, innovation in, 46 Cardwell's Law, 47 Carolingian Empire Bairoch, P., 46, 53-54, 171-172, 174 historical impact on urbanization, 8-9 Baldi, E., 39 political fragmentation following fall of, Bates, R., 104, 106, 168 1, 3-5, 20-21 Batou, J., 53-54, 171-172, 174 urban belt and, 8-9 Battle of Canae (1018), 24-26 urbanization following fall of, 2 Battle of White Hill (1620), 26 warfare, impact of fall on, 20-21 Becker, S., 13-14, 83 Catalonian independence movement, 176 Benedict, P., 170 Centeno, M., 168 Besley, T., 26, 106, 168 Central Europe, walls in, 72-73 Black Death, 6-7, 42-43, 170 Chaney, E., 168 Blaydes, L., 6-7, 168 Charlemagne, 20, 167. (See also Blockmans, W., 101, 168, 170-171 Carolingian Empire) Blondé, B., 32-33 Charles V (HRE), 41 Bohemia, Thirty Years' War in, 26 Chèvre, P., 53-54, 171-172, 174



China	Crop suitability, warfare-to-wealth effect
Europe compared, 16–17, 97–98,	and, 82
107–108	Crusades, 6–7
Great Divergence in, 16-17, 97	
kin-oriented morality in, 15-16	D'Amico, S., 37–38
local political institutions in, 101	Debt, war-related, 20, 169
migration in, 16-17	Dekle, R., 167
Ming Dynasty, 100	De Long, B., 10, 11
nomadic invasions in, 99	de Vries, J., 6, 9, 32, 42–43, 54
political fragmentation in, 16-17, 99-100	Diet of Prague, 26
Qing Dynasty, 100	Dincecco, M., 11-12, 93, 167
urbanization in, 100–101, 175	Dittmar, J., 13, 58-59, 83
warfare in, 16-17, 98-99	Dollinger, P., 60–61
Christian I (Anhalt-Bernburg), 26	Douai, war-related debt in, 20
Ciccone, A., 171	Downing, B., 168
Cities. See Urban centers	Dutch Revolt (1566–1587), 40, 41
Clemens, M., 6, 112	Dutch War (1672–1679), 40
Clodfelter, M., 23, 24, 26-27, 169	(/ ////
Cologne as safe harbor, 40	Eastern Europe, safe harbor effect in, 61-69
Colonialism	East Francia, 20–21
Great Divergence, effect on, 14-15	Eaton, J., 167
in sub-Saharan Africa, 17, 102–106	Economic agglomeration
Combes, P.P., 167	economic development, effect on, 14
Comparative perspective	in Italy, 95–96
overview, 18, 97–98, 107–108, 110	warfare-to-wealth effect and, 14, 48–49,
China and (See China)	95–96
Japan and, 175–176	Economic development
sub-Saharan Africa and (See Sub-Saharan	economic agglomeration, effect of, 14
Africa)	human capital accumulation, effect of,
on warfare-to-wealth effect, 106–107	13–14
Conflict. See Warfare	local political institutions, effect of, 9–11
Conflict exposure	nation-states, effect of, 9–13
in Italy, 88–90	political fragmentation, effect of, 5–6
ranking by region, 151–157	state-making and, 11–13
safe harbor effect and, 54–55	technological innovation, effect of, 13-12
in Slovak Republic, 77	urbanization, effect of, 2–3, 5, 109
warfare-to-wealth effect and, 77	Edict of Potsdam, 42
Conflict type	Education
database of, 29	in Germany, 14, 83–84
safe harbor effect and, 69	in urban belt, 46–47
warfare-to-wealth effect and, 87	urbanization and, 46–47
Contemporary implications	warfare-to-wealth effect and, 14, 83–84
overview, 18	Elias, N., 168
of migration, 111–112	"Enduring warfare" effect in sub-Saharan
of political fragmentation, 110–111	Africa, 104–106
Contradictory effects of warfare, 1	England
Córdoba, urbanization in, 31	expenditures on warfare in, 20
Correlates of conflict, 149	political development in, 44
Countryside. See Rural areas	putting-out industry in, 43–44, 171
Cox, G., 22, 167, 168	trade in, 60
Cromwell, Thomas, 22	English Civil War (1642–1651), 43–44
ULULIA TILULIA 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Liigiidii Civii wai (1044-1011/144-44



190 Index

Epstein, S., 167 Ertman, T., 168 Esselingen as safe harbor, 40 Euro Crisis, 176 European Environment Agency, 174 Eurostat Urban Audit, 174 Expenditures on warfare, 19-20 Fearon, J., 168, 169 Federico, G., 93 Ferdinand II (HRE), 26 Fires, 42 Florax, R., 168 Florence, walls of, 70 Florentine-Pisan War, 39 Formal model. See Model Fortification, safe harbor effect and, 33-34, 70-73 France. (See also specific city) expenditures on warfare in, 20 trade in, 60 walls in, 70-71, 72 Franco-Spanish War (1635–1659), 37–38 Frederick I (Bohemia), 26 Frederick II (HRE), 40 Frederick William (Prussia), 42 French Wars of Religion (1562-1598), 40 Friedrichs, C., 41, 170-171 Gat, A., 168 Gelderblom, O., 167 Geneva as safe harbor, 40 Gennaioli, N., 168, 169, 171 Geographical endowments, 7-9, 55, 80-81 Germany education in, 14, 83-84 walls in, 71-72, 173-174 (See also specific city) Gillezeau, R., 105 Glaeser, E., 1, 34, 36, 41, 46, 109, 167 Grafe, R., 167 Great Divergence overview, 14-16

Great Fire of London (1666), 42 Greenstone, M., 167 Greif, A., 15-16, 171 Gross cell product, warfare-to-wealth effect and, 85-86 Guilds, 46 Guiso, L., 171 Gutmann, M., 19, 34–35, 36, 170 Haber, S., 168 Hale, J., 19, 22, 23, 27, 34, 36, 169, 170, 173 Hannibal, 169 Hanseatic League, 60-61 Hearder, H., 96 Henry VIII (England), 22 Herbst, J., 17, 23, 102, 104, 168 Hicks, John, 48 Hobbes, Thomas, 22 Hoffman, P., 19, 22, 27, 35, 168, 169 Hohenberg, P., 7 Hondschoote, sack of, 42 Hornbeck, R., 167 Hradschin Castle, 26 Huguenots, 39-40, 42, 170 Hui, V., 169 Human capital accumulation economic development, effect on, 13-14 in Italy, 90-92 in urban belt, 83 warfare-to-wealth effect and, 13-14, 45-48, 83, 90-92 Hundred Years' War (1337-1453), 37, 70-71 Intellectual developments, effect on Great Divergence, 15 Investiture Controversy, 45 Ioannides, Y., 100 Italy. (See also specific city or region) conflict exposure in, 88-90 economic agglomeration in, 95-96 human capital accumulation in, Investiture Controversy, 45 local political institutions in, 92-95 North-South divide in, 1, 2, 88-91, 94, 96, 175 political fragmentation in, 88 technological innovation in, 90-92 unification of, 88

in China, 16–17, 97 colonialism, effect of, 14–15

to explain, 16

labor costs, effect of, 15

slavery, effect of, 14-15

morality, effect of, 15-16

failure of existing arguments

intellectual developments, effect of, 15



urban belt in, 88	Malanima, P., 96
warfare-to-wealth effect in, 87-90	Mann, M., 168
Iyigun, M., 26, 59, 169	Maré, D., 167
	Masters, W., 168
Jacques, T., 26-27, 169	Melus of Bari, 24–26
Japan, Europe compared, 175–176	Middle East, urbanization in, 31–32
Jensen, P., 168, 172, 174	Middle Francia, 20–21
Jia, R., 172	Migration. (See also Safe harbor effect)
Johnson, S., 10, 11, 60, 168	overview, 6
Jones, E., 5, 167	across generations, 41
Joshi-Ghani, A., 46, 109	in China, 16–17
J. 2001. 2.101.1, 40, 20/	contemporary implications of, 111–112
Katz, G., 167	importance of, 111–112
,,/	in Orvieto, 41
Labor costs, effect on Great Divergence, 15	permanent migration, 50–51, 171
Laitin, D., 168	in Perugia, 41
Landes, D., 5–6	rural-rural migration, 165–166
Land-labor ratio in sub-Saharan Africa, 17,	rural-urban migration, 32–33, 36–37, 110
102	in Siena, 41
Landucci, Luca, 35, 170	temporary migration, 50
La Porta, R., 171	urbanization, effect on, 32–33
Lees, L., 7	warfare-to-wealth effect and, 49–51
Leiden, walls of, 70	war-related migration, 6–7
Levi, M., 168	Milan as safe harbor, 37–38
Levy, J., 169	Military revolution
Lewis, E., 112	safe harbor effect and, 62
Liège as safe harbor, 40	statistical methodology and, 55-57
Lille, walls of, 70	in sub-Saharan Africa, 104
Livi-Bacci, M., 170	Mintzker, Y., 173
Local political institutions	Moch, L., 36
in China, 101	Model
economic development, effect on, 9-11	overview, 160–166
in Italy, 92–95	safe harbor effect, 49-51
safe harbor effect and, 63	warfare-to-wealth effect, 49-51
warfare-to-wealth effect and, 9–11,	Mokyr, J., 6, 9, 15, 16, 45–46, 47, 171
43-45, 92-95	Møller, J., 44, 169
Lombardy, warfare-to-wealth effect in, 81	Morality, effect on Great Divergence, 15-16
London, fires in, 42	Moretti, E., 167
Lopez-de-Silanes, F., 171	Morris, I., 12–13, 26, 107
Lothar I (Middle Francia), 21	Motamed, M., 168
Lothar II (Lotharingia), 21	Mumford, L., 34
Lotharingia, 20–21	7 7 7 7 1
Louis the Pious, 20	Nation-states
Louis XIV (France), 36	economic development, effect on, 9-13
Lucas, R., 171	warfare-to-wealth effect and, 9-13
Luzzati, M., 39	Natural Earth, 174
	Netherlands, trade in, 60
Machiavelli, Niccoló, 22	Nickell bias, 173
Maddison Project, 176	Nomadic invasions, 99
Magdeburg, sack of, 41-42	Nordhaus, W., 76, 77, 85
Mainz, innovation in, 46, 83	North, D., 168



192

Nunn, N., 59, 168, 172, 174 Productivity, warfare-to-wealth effect and, Nuremburg, innovation in, 46 Protestant Reformation, 13-14, 83, 91 O'Brien, P., 168 Prussia, expenditures on warfare in, 20 O'Rourke, 176 Puccinelli, I., 39 Orvieto, migration in, 41 Puga, D., 174 Osafo-Kwaako, P., 168 Putting-out industry, 43-44, 171 Paik, C., 6-7, 168 Qian, N., 59, 168, 172 Palermo, urbanization in, 31 Quest for glory, impact on warfare, 22 Papal Schism of 1378, 14, 83-84 Paris as safe harbor, 37 Ramankutty, N., 174 Parker, G., 27, 62, 70, 77 Refugees, 176 Parma as safe harbor, 40 Reid, R., 104, 106, 175 Peace of Saint Germain, 40 Religion, impact on warfare, 22 Peri, G., 112 Reynal-Querol, M., 26, 106 Permanent migration, 50-51, 171. (See also Robinson, J., 10, 11, 60, 168 Rokkan, S., 7 Migration) Persson, T., 168 Roman Empire historical impact on urbanization, 8 Perugia, migration in, 41 Piedmont, local political institutions in, political fragmentation following fall of, 92-95 167 Rome Pincus, S., 168 Pinker, S., 26, 168 sack of, 41, 42 Pirenne, H., 7, 33-34 size of, 31 Pisa walls of, 70 Romer, P., 48, 171 baptisms in, 39 Rosenthal, J.L., 7, 36, 43-44, 167, 168, 169, as safe harbor, 39 Placebo tests for target effect, 66-67 Plagues, 42–43. (See also Black Death) The Routledge Companion to Medieval Polèse, M., 168 Warfare (Bradbury), 23 Political development Rozman, G., 175-176 in Aragon, 44 Rural areas in England, 44 destruction caused by warfare, 34-35 political fragmentation, effect of, 5-6 lack of manufacturing in, 43-45 Political fragmentation lodging and feeding of soldiers during warfare, 35 Carolingian Empire, following fall of, 1, 3-5, 20-21 loss of local manpower during warfare, in China, 16-17, 99-100 contemporary implications of, 110-111 money-raising from during warfare, economic development, effect on, 5-6 rural-rural migration, 165-166 rural-urban migration, 32-33, 36-37, political development, effect on, 5-6 Roman Empire, following fall of, 167 in sub-Saharan Africa, 102 warfare, burdens inflicted in, 34-36 unintended consequences of, 110-111 Rural-rural migration, 165-166 Pomeranz, K., 14-15, 16, 175 Rural-urban migration, 32–33, 36–37, 110 Portugal, trade in, 60 Postan, M., 44 Sacks of cities, 66. (See also "Primacy of exit," 17, 102, 103 specific city) Printing press, 13, 83 Safe harbor effect



OVERVIEW T 6 18 100 110	target effect and, 65-66 (See also Target
overview, 1, 6, 18, 109–110	effect)
in Antwerp, 40	, ,
battle versus siege, 69	trade, impact of, 60–61
cities as safe harbors, 33–37	walls and, 70–73
in Cologne, 40	Sapienza, P., 171
conflict type and, 69	Scarce territory, impact on warfare, 23
in Esselingen, 40	Schueller B. 7 (2)
fortification and, 33–34, 70–73	Schweller, R., 169
in Geneva, 40	Seats of political power, safe harbor effect and, 62
geographical endowments and, 7–9	,
in Liège, 40	Seville, urbanization in, 31
local political institutions and, 63	Shapiro, J., 1, 34, 36, 41
in Milan, 37–38	Shleifer, A., 10, 11, 171
modeling, 49–51	Siena
in Paris, 37	migration in, 41
in Parma, 40	walls of, 70
in Pisa, 39	war-related debt in, 20
rural-urban migration and, 32–33,	Skovsgaard, C., 168, 172, 174
36-37	Slavery
security of urban centers from warfare	
33-34	in sub-Saharan Africa, 17, 104–106
in Strasbourg, 40	Slovak Republic, conflict exposure in, 77
target effect and, 65-66 (See also Targ	
effect)	Sovereign capitals, safe harbor effect and, 62
in Venice, 40	Spain
walls and, 33-34, 70-73	Catalonian independence movement, 176
war-related migration, 6–7	trade in, 60
Safe harbor effect—statistical analysis	Spruyt, H., 168, 169
overview, 18, 52–53, 73–74, 110	Stasavage, D., 10–11, 20, 21, 47, 63, 101,
alternative grid sizes in, 63	167, 168, 169, 171
alternative samples in, 61	State fragility in sub-Saharan Africa, 105
battle versus siege, 69	State-making, warfare-to-wealth effect and,
city populations as data, 53-54	11-13
conflict exposure as data, 54-55	Statistical analysis
conflict type and, 69	safe harbor effect (See Safe harbor
controls for observables, 60	effect—statistical analysis)
descriptive statistics, 150	warfare-to-wealth effect
in Eastern Europe, 61–62	(See Warfare-to-wealth
18th century conflicts and, 62	effect—statistical analysis)
fortification and, 70–73	Stoob, H., 72
local geographical effects and, 59-60	Strange, W., 167
local political institutions and, 63	Strasbourg as safe harbor, 40
main results, 57-59	Strayer, J., 21, 168
military revolution and, 62	Sub-Saharan Africa
modern nations, exclusion of, 63	colonialism in, 17, 102–106
Nickell bias in, 173	"enduring warfare" effect in, 104–106
non-linear effect in, 63-64	Europe compared, 17, 97–98, 103, 105,
ordered variable in, 65	107–108
robustness generally, 59, 65	land-labor ratio in, 17, 102
seats of political power and, 62	military revolution in, 104
statistical methodology, 55-57	political fragmentation in, 102



194 Index

Sub-Saharan Africa (cont.) in contemporary Europe, 2, 109 "primacy of exit" in, 17, 102, 103 education in, 46-47 slavery in, 17, 104-106 geographical advantages of, 80 state fragility in, 105 human capital accumulation in, 83 urbanization in, 17, 102-104 in Italy, 88 warfare in, 17, 98-99 urbanization and, 11 warfare and, 27-29, 77 Urban centers. (See also Urbanization) Tabellini, G., 15-16, 91, 171, 175 burdens inflicted by warfare, 41-42 Target effect overview, 41, 171 security from warfare, 33-34 alternative test for, 68 target effect and (See Target effect) lagged dependent variable and, 68-69 Urban graveyard effect, 32 placebo tests for, 66-67 Urbanization sacks of cities, 66 (See also overview, 31 specific city) agricultural impacts on, 9, 59-60 safe harbor effect and, 65-66 artisanal activity and, 43 statistical analysis and, 163-165 Carolingian Empire, impact of, 8-9 in China, 100-101, 175 urban plunders, 66 (See also specific city) cities as safe harbors, 33-37 (See also Safe Technological innovation harbor effect) economic development, effect on, 13-14 destruction caused by warfare, 41-42 in Italy, 90-92 economic development, effect on, 2-3, 5, warfare-to-wealth effect and, 13-14, education and, 46-47 45-48, 90-92 Temporary migration, 50. (See also fires and, 42 geographical endowments, effect Migration) t'Hart, M., 101, 170–171 of, 7–9 guilds and, 46 Thies, C., 168 The Third Man (film), 47-48 historical rise of, 31-32 manufacturing and, 43-45 Third War of Religion (1568-1570), 40 Thirty Years' War (1618-1648), 24-25, 26, in Middle East, 31-32 migration, effect of, 32-33 40,41-42 Thompson, W., 169 natural increase in population and, 32 Thornton, J., 102, 104 plagues and, 42-43 population patterns in Europe, 31-32 Tilly, C., 7, 11, 12, 19, 27, 99, 168, 169 Roman Empire, impact of, 8 Tong, J., 175 rural-urban migration and, 32-33, 36-37 Touring Club Italiano, 174 security of urban centers and, 33-34 Tracy, J., 70-71, 72, 173-174 Trade, impact on safe harbor effect, 60-61 in sub-Saharan Africa, 17, 102-104 Treaty of Meersen (870), 21 universities and, 46-47 Treaty of Verdun (843), 20-21 urban belt and, 11 Tserclaes, Johann, 26 urban graveyard effect and, 32 Turchin, P., 168 wages and, 45 walls and, 33-34 war-related migration, effect of, 6-7 United States, expenditures on warfare in, 20 Universities Urban plunders, 66. (See also specific city) in Germany, 14, 83-84 urbanization and, 46-47 van Bavel, B., 169 warfare-to-wealth effect and, 14, 83-84 van Damme, I., 32-33 Urban belt van Glahn, R., 175

van Leeuwen, B., 175

Carolingian Empire and, 8-9



Index 195

van Zanden, J.L., 10-11, 46-47, 54, 58-60, 61, 62, 63, 66, 94, 169, 171-172, 175 Vecchi, G., 88, 90-91, 175 Venice fires in, 42 as safe harbor, 40 walls of, 173 war-related debt in, 20 Victor Emmanuel II (Sardinia), 93 Vindigni, A., 93 Voightländer, N., 6, 169, 170, 172 Voth, H.J., 6, 168, 169, 170, 172 Wages, 45 Walls, safe harbor effect and, 33-34, 70-73 Warfare overview, 17-18, 19, 30 Carolingian Empire, impact of fall of, century, major conflicts by, 27 in China, 16-17, 98-99 correlates of conflict, 149 database of, 23-27, 110, 114-148 debt and, 20, 169 destruction caused by, 34-35, 41-42 dominant role of in Europe, 19–20 duration, major conflicts by, 30 expenditures on, 19-20 exposure to (See Conflict exposure) fall of Carolingian Empire, impact of, lodging and feeding of soldiers in, 35 loss of local manpower in, 36 money-raising in, 35-36 patterns of, 27-30 quest for glory, impact of, 22 religion, impact of, 22 rural areas, burdens inflicted on, 34-36 scarce territory, impact of, 23 security of urban centers from, 33-34 in sub-Saharan Africa, 17, 98-99 target effect (See Target effect) type of (See Conflict type) urban belt and, 27-29, 77 urban centers, burdens inflicted in, 41-42 Warfare and Armed Conflicts: A Statistical Encyclopedia of Casualties and Other Figures, 1500-2000 (Clodfelter), 23 Warfare-to-wealth effect overview, 1-2, 9, 18, 43, 49, 110

comparative perspective on, 106-107 conflict type and, 87 economic agglomeration and, 14, 48-49, 95-96 education and, 46-47, 83-84 guilds and, 46 human capital accumulation and, 13-14, 45-48, 83, 90-92 in Italy, 87-90 local political institutions and, 9-11, 43-45, 92-95 migration and, 49-51 modeling, 49-51 nation-states and, 9-13 productivity and, 50, 171 state-making and, 11-13 successful nature of in Europe, 106-107 technological innovation and, 13-14, 45-48, 90-92 universities and, 46-47, 83-84 wages and, 45 Warfare-to-wealth effect—statistical analysis overview, 18, 75-76, 96, 110 alternative economic outcomes and, 85-86 alternative samples in, 84-85 in Calabria, 81 conflict exposure as data, 77 conflict type and, 87 crop suitability and, 82 current economic activity as data, 76 descriptive statistics, 158-159 economic agglomeration and, 95-96 gross cell product and, 85-86 human capital accumulation and, 83, 90-92 in Italy, 87-90 local political institutions and, 92-95 in Lombardy, 81 main results, 80-81 non-linear effect in, 85 robustness generally, 82 spatial patterns, 77 statistical methodology, 80 technological innovation and, 90-92 War-related migration, 6-7. (See also Safe harbor effect)



More Information

196

Weber, Max, 13–14, 44, 49 Weil, D., 103 Weingast, B., 168, 169 West Francia, 20–21 Whatley, W., 105 White, L., 7, 59 Winter, A., 32–33, 100, 170 Woessmann, L., 13–14, 83 Wohlforth, W., 169 Wolfe, M., 72 Index

Wong, R.B., 7, 36, 43–44, 168, 169, 175

Xu, Y., 175

Yuchtman, N., 14, 83-84

Zhang, D., 26 Zhang, J., 100 Zingales, L., 171