Index

activities of daily living (ADLs) 53, 65, 66
Age Lab (MIT) 48
ageing in the developed world 30–31
Ageing Index 31
see also American Association of Retired Persons
American Association of Retired Persons (AARP) 31
caregiver support ratio 33–4
Public Policy Institute 34
Anmie, T. 65
Anttonen, J. 2, 43
appendix
citizen survey 148–68
interview questions by basic innovation model element 146–7
Balestat, G. 47–8, 53, 59, 64–5
Barlow, J. 60, 61
Baron, R.J. 39
Blank, R. 43
Blaschke, C.M. 70–71
Bodenheimer, T. 39
Boult, C. 39
Brown, J.W. 63–4
Brown, L. 97
Bryson, J.R. 97
Burau, V. 3, 43, 44–5, 47, 53, 58, 59, 64, 66, 67
Cameron, D. 41
Campbell, J.C. 64, 66
Care Coordination/Home Telehealth (CCHT) 38, 48, 70
Cassel, C.K. 39
Castro, D. 50, 54, 55–7, 72
Center for Information Technology Research in the Interest of Society (CITRIS) 34–5
Chesbrough, H. 80, 90
chronic disease(s) 14, 15, 23, 29, 33, 35, 38, 47, 52, 58, 63, 101
data for (US Centers for Disease Control (CDC), 2014) 32
non-communicable (NCDs) as biggest cause of death worldwide 31–2
citizen opinion 101–35
major findings/trends for see citizen opinion: major findings and trends
overview of findings see citizen opinion: overview of findings
respondent characteristics 105–9
response areas 104–5
study specifications 101–4
linking survey questions to Service Innovation Triangle 102–3
matching response patterns to key characteristics 103
target respondent characteristics 101–2
time horizons: present, near future and long-term future 102
citizen opinion: major findings and trends 109–12
care providers 111
certainty in current and future service adequacy 110
findings across countries 111–12
important issues facing seniors 110
living situation 110
payment 111
privacy 111
responsibility 109–10
technology 111
citizen opinion: overview of findings 112–33
care providers 123–5
care providers (Q10) 124–5
summary 123–4
confidence in current and future service adequacy 119–21
adequacy of current services (Q5, Q6) 120–21
summary 119–20
important issues 121–2
important issues (Q7) 121–2
summary 121, 122
living situation 122–3
current and future (Q9) 123, 124
current and past (Q8) 122–3
summary 122
payment 128–33
cross-tabulations 130–33
current payers (Q16) 129
desired future payers (Q18) 130
expected future payers (Q17) 129–30
summary 128–9
privacy 127–8
concern over (Q14) 127–8
summary 127
willingness to trade (Q15) 128
responsibility 112–19
current – for in-home care (Q1) 114–15
decision-making and influence (Q4) 118–19
desired – for in-home care (Q3) 117–18
expected – for in-home care (Q2) 116–17
summary 112–14
technology 125–7
anticipated future technology use (Q13) 126–7
current use of technology (Q11) 126
satisfaction with current technology (Q12) 126
summary 125

Competitive Advantage: Creating and Sustaining Superior Performance 79
close conclusions to chapters on citizen opinion 133–4
cultural context 73–4
in-home care services for independent living 41
initial framework 24–5
need for disruptive innovation in public services 17
Service Innovation Triangle (SIT) model 97–8
core model see models and Service Innovation Triangle (SIT) model
Coye, M.J. 2, 15, 37, 48
cultural context (and) 42–74
classifications of countries 42–5
comparisons 68–73
cultural analysis 45–6
Japan 68–71
see also cultural context: Japan
questions to explore 72–3
Scandinavia 68–72
see also cultural context: Scandinavia
the United Kingdom 68–72
see also cultural context: the United Kingdom
the United States 68–73
see also cultural context: the United States
cultural context: Japan 62–8
consumer/need 64–5
payer/business model 66–7
provider/technology 65–6
regulator/public policy 67–8
robots 65–6, 67
cultural context: Scandinavia 52–7
consumer/need 53
payer/business model 55
provider-technology 53–5
regulator/public policy 55–7

cultural context: the United
Kingdom 57–62
consumer/need 59
payer/business model 60–61
provider/technology 59–60
regulator/public policy 61–2

cultural context: the United States
46–51
consumer/need 47–8
payer/business model 49–50
provider/technology 48–9
regulator/public policy 50–51

see also legislation (US)

Cuthbertson, R. 4, 5, 16, 79, 80, 97

Daniels, P.W. 97
Darkins, A. 38, 39, 48
Dawson, W.D. 49
definition of disability (Health
Morbidity Survey) 53
Deming, W.E. 89
Denmark 41, 53–6, 70
CareNet 54
MedCom 56
telehealth 56
Djellal, F. 97
Dobni, C.B. 88
Dunnell, K. 59

Economic Co-operation and
Development, Organisation for
(OECD) 11
Ministerial Meeting:
‘Strengthening Trust in
Government’ (2005) 11
entitlement programs 15, 40–41
and ‘culture of entitlement’
(Cameron) 41
definition of (Auburn University)
40
European Commission 35

Feder, 49
Fleming, K.C. 33

Fujiwara, M. 65
Furseth, P.I. 4, 5, 16, 9, 80, 97

Gadrey, J. 42, 43
Gallouj, F. 97
Giannakouris, K. 53
Gibson, M.J. 52, 53

He, W. 30
healthcare 11, 14, 20, 22, 35–7, 40,
48, 49, 51, 54–60, 62–4, 66–8,
71–3, 105

and caregiver shortages 32–4
industry, need for transformation
of 34–5

see also Medicaid and Medicare
Hendy, J. 60, 61
human resources 29

Iacovoum, M. 52, 59
Ikegami, N. 64

implications for innovation in
public services 137–45
and future research 143–5
general 137–9

and implications for innovation
(by country) 139–42
Japan 141–2
Norway/Scandinavia 140
United Kingdom 141
United States 139–40
trends and outliers 142–3

independent living (and) 14–15
as focus of potentially disruptive,
technology-enabled services
14–15

need for services 14
slow adoption and problematic
regulation 15
social/economic consequences of
15

in-home care services for
independent living (and)
29–41

ageing in the developed world
30–31
caregiver shortages 32–4
disruptive change and health care transformation 34–5
dynamics emphasizing role and value of 29
growth of chronic disease 31–2
see also chronic disease(s)
note 41
political significance of/public debate on 40–41
technology 35–40
see also subject entry
societal need for 29
initial framework 18–25
conditions for successful innovation 20–23
delivery of services 18–20
and problematic relationships 20
linking innovation and culture 23–4
and fundamental dichotomies within society 24
stakeholders: citizens, service providers, payers, regulators 21–2
see also Service Innovation Triangle (SIT)
Japan 2, 4, 23, 41, 42, 44, 45, 58, 62–8, 105–11, 114, 118–27, 130, 141–2, 143
Automobile Research Institute 67
cultural context of see cultural context: Japan
National Institute of Advanced Industrial Science and Technology 67
robot-testing in 67
Johnson, M.W. 90
Juran, J.M. 80
Kaye, S. 47
Keeley, L. 16, 80
Kinsella, K. 30
Korpi, W. 3, 42, 43, 53
Lafortune, G. 47–8, 53, 59, 64–5
legislation (UK): National Telecare Framework Agreement 61
legislation (US)
Affordable Care Act 33
Community Living Assistance Services and Supports (CLASS) Act 51
Patient Protection and Affordable Care Act (PPACA, 2010) 51
long-term care (LTC) funding 49
Lusch, R.F. 80
Martin, S. 15, 35, 36
Mattke, S. 60
Medicaid 40, 48, 49
Medicare 40, 49
and Center for Medicare and Medicaid Innovation 51
models
Business ModelCanvas (Osterwalder and Pigneur) 80
Dublin (Keeley et al.) 80
Service Innovation Triangle (SIT) see subject entry
Mostashari, F. 51
National Health Service (NHS) (UK) 59–61
see also legislation (UK)
need for disruptive innovation in public services (and) 11–17
current theory – gaps in understanding 16
reasons to study independent living 14–15
see also independent living
reasons to study public services 11–14
Norway 11, 23, 40–41, 52–3, 55–6, 72, 84, 105–30, 140, 143
local government-centric viewpoint of 6
Index

Norwegian Board of Technology
56

Okuyama, S. 63, 64
O’Neill, T. 95
Orloff, A.S. 42, 43
Osborne, S.P. 97
Osterwalder, A. 16, 80

Parè, G. 38
Pigneur, Y. 16, 80
Porter, M.E. 79

reports (on)
non-communicable (chronic) diseases (World Health Organization, 2010) 31
population ageing (UN) 20–31
research (future) in public service innovation 143–5

Scandinavia 11, 23, 42. 44, 45, 52–7, 62, 67, 68, 70–74, 140–41, 143

cultural context of see cultural context: Scandinavia

Service Innovation Triangle (SIT) model (and) 4, 16, 18, 19, 143–4

bringing society into the 95–7
the core model 79–98
layers of the see Service Innovation Triangle (SIT) model, layers of 83–94
note 98
the original SIT model 81–2
the public SIT model 82–3
theoretical background to 79–81

Service Innovation Triangle (SIT) model, layers of 83–94
ability 88
actors: citizens, users, and suppliers 83
demand triangle 94
employing the framework in public services 91–3
financial assets 84–5
funding model 90

innovation capacity 83–4
innovation outcomes 91
intangible assets 85–7
people 87–8
service system 89–90
subsystems: value, supply, and demand 93
supply triangle 93
tangible assets 84
technology 87
user experiences 88–9
value diamond 93, 94
social alarms 35, 48, 53–5, 60, 66–7, 70

studies (on)
decline in number of dentists (Delta Dental Plans Association, US, 2010) 33
robotic pet (‘Paro’) (Tsukuba University, Japan) 66
telehealth in UK: Whole System Demonstration (WSD) 39
telehealth in US: Care Coordination/Home Telehealth (CCHT) 38–9
see also US Veterans Health Administration (VHA) 38

Sweden (and) 53–7
payer/business model 55
research and development (R&D) project: OLD@Home (Vinnova) 54
Strategy for eHealth 57
telehealth in 56

technology
rationale for adoption of new 38
’smart home’ 15, 18, 35, 36, 48–9, 52, 54, 60, 66–7, 68, 70, 71, 73
telecare 15, 18, 35–6, 39, 48, 49, 55, 59–62, 65, 68, 70–71, 73
telehealth 15, 29, 25, 36–40, 48, 60, 65, 68, 70–71, 73
Teece, D. 80
telehealth 56, 70
Theobald, H. 43
Innovation and culture in public services

Toivonen, M. 80
Tuominen, T. 80

United Kingdom (UK) 11, 23, 41, 42, 45, 68
cultural context of 57–62
see also cultural context: the United Kingdom
government initiatives 61
Healthcare Innovation Expo 60
home care policy subsystem 44
Just Checking system for dementia 35
National Health Service (NHS) 59–61
Preventative Technologies Grant 59
universal care program 61–2
Whole Systems Demonstrator Programme 59–60, 70
see also legislation (UK)
United Nations Population Division, Department of Economic and Social Affairs 30
United States (US) 11, 23, 46–51, 68
American Association of Retired Persons (AARP) see subject entry
American Geriatrics Society 33
American Hospital Association (AHA) 33
Association of American Medical Colleges (AAMC) 33
Association of Schools of Public Health (ASPH) 33
Aware Home Research Institute (Georgia Tech) 48
Census Bureau 40
cultural context of 46–51
see also cultural context: the United States
Duke Smart Home Program 49
entitlement spending in 40
health and other benefits in 40
means-testing in 40
Paraprofessional Healthcare Institute 33
personal emergency response systems (PERS) in 48
University of Florida Smart Home 49
Veterans Health Administration (VHA) 48, 71
Veterans Health Administration (VHA) CCHT program 38–9, 48, 70

Vargo, S.L. 80
Weintraub, A.R. 38
Whole Systems Demonstrator (WSD) programme 39, 59–60, 61, 69
World Assembly on Ageing 30–31
World Health Organization (WHO) 31
Zeithaml, V.A. 89