

Index

accountability	Guidance Notes 136
governance measures as to 15	investment return, allowance for additional
guidelines 15–16	148–9
of trustees 72	legislative framework 135-6
accounting	meaning 134
corporate perspective 259–60	objectives 134–5
for deficit 293	price inflation as factor 144-5
fair value approach 38	recovery period 148–9
solvency measurement 38-9	recovery plan 148
accounting objective of valuation 135	return on investment, allowance for
accounting valuations, legislative framework	additional 148–9
136	solvency objective 135
accrued rights, form of 104	solvency valuations see solvency valuations
act prudently, fiduciary duty of trustees to	statutory objective 135
55–6	summary of issues 150
active ownership of assets, fiduciary duties of	uncertainty, allowance for 149
trustees 62–3	actuaries, regulatory requirements as to
actuarial valuation	appointment 22
accounting objective 135	administration
accounting valuations 136	administration team
allowance for additional investment return	accountability 170, 172
148–9	conflicts of interests 172
allowance for uncertainty 149	culture and values 171
chapter summary 134	effectiveness 170
corporate perspective 259	organisation and management 171
deficit correction 148	responsibilities 155
discount rates as factor	staff level requirement 170-1
funding valuations 146–8	staff turnover management 170
generally 145	and stakeholders 172
documentation 150	training 171
financial assumptions 144-8	and trustees 172
funding objective 134–5	complaints log, example (Table 10.2) 168
funding valuations	data management
discount rates as factor 146–8	audits 165
legislative framework 135–6	DC unit prices 165
	-



Index

administration (cont.)	strategy
electronic data management (EDM)	insourcing v outsourcing 156
161–2	reasons for review 156
external agency data 166	review, issues 156
interface data, payroll and human	trustees' responsibilities
resources 165	generally 153
online services for members 165	interaction with administration team 172
quality 164	workflow 161–2
security 164–5	agents, alignment of goals with investment
general remarks 151	governance 181
good practice, features 151–2	annual report and accounts, regulatory
and human resources 165	requirements 22
insourcing	asset allocation (Table 3.5) 44
advantages/disadvantages (Table 10.1)	asset and liability breakdown report
156	(Tables 12.1 and 12.2) 194–7
use 156	use 194
operational risk management	asset-backed securities, corporate perspective
see operational risk management	262–3
outsourcing	asset classes, investment in alternative 42–4
advantages/disadvantages (Table 10.1) 156	asset returns (Table 3.4) 43
contract review 160	assets
due diligence 160	deficit risk analysis 194
implementation 161	measurement and risk, corporate
invitation to tender (ITT) 159-60	perspective 250–5
market 158	associations
oversight 158	governance structure 8–9
process 158	legal form 3
project planning 158	attribution of risk
request for information (RFI) 159–60	longevity risk (Figure) 207–8
selection of provider 158	risk management 194–7
shortlisting of suppliers 159	Value-at-Risk (VaR) measure 194–7
strategy 156	auditors, regulatory requirements as to
tendering process 160	appointment 22
and payroll 165	Australia
pensions management team's	governance structures 9
responsibilities 155	mandatory provision 4
performance 153, 166–7	trustees, licensing of 14
performance measures 167–8	Austria, governance structures 8–9
processes 161–2	
and regulatory bodies 165	balance sheet, company (Figures 15.1 and
reporting process 163	15.2) 246, 251
responsibilities 153	basis risk, use 219
risks relevant to (Table) 169–70	beneficial ownership of equity investment
service levels	(Table 3.1) 30
service level agreement (SLA) 167	best interests of beneficiaries, trustees' duty
setting 166–7	towards 53–5
sponsoring employer's responsibilities 154 straight through processing (STP) 166	best practice, investment governance 181
straight through processing (STF) 100	bonds see investment



Index

buy-ins	excusal from relevant discussions/decisions
advantages 229–30	93
description (Figure 14.2) 229	resignation 93
post-purchase procedures 244	conflicts of interests
purchase of 237–9	administration team 172
risk management 228–31	adviser perspective see professional
use, longevity risk 216–17	advisers
variations 230–1	avoidance, statutory obligation 88-9
buy-outs	common law as to 85
defined benefit (DB) schemes 294	confidentiality 87
description (Figure 14.3) 231	conflicted trustee see conflicted trustee
post-purchase procedures 244	duty/duty conflict
purchase of 236–7	exceptions to principle 87
settlement of liabilities 232	legal framework 87
use, longevity risk 216–17	employer perspective <i>see</i> employers
	general remarks 85
capital markets see investment	guidelines on handling 10–11, 24
chapter summaries 1–2	legal challenges and remedies 87
closed funds, fiduciary role of trustees 7	legal framework 85
closure of schemes 45–6	management of
codes of practice see also guidelines	conflicted trustee see conflicted trustee
good trusteeship 83–4	general remarks 91
operational risk management 168	guidelines 91–2
Committee for European Insurance and	independent trustee, appointment 94
Occupational Pensions Supervisors	policies for 92–3
(CEIOPS) 6	regulatory principles 91–2
common law as to conflicts of	steps to 92–3
interests 85	by sub-committees 93
communication practices, defined contribution	professional adviser perspective
schemes 285–6	see professional advisers
commutation, solvency valuations 143	self-interest conflict
company law, regulation via 3	exceptions to principle 86
compensation practices in investment	legal framework 86
governance 184	summary of issues 103
competence and expertise <i>see also</i> trustee	trustee perspective <i>see</i> trustees
knowledge and understanding (TKU)	consultations as to pension rights variation
assessment requirement 14	109–11
investment governance 270–1	consumers
regulatory requirements, strengthening 14	of defined contribution (DC) schemes,
competitive advantage	characteristics 270
from best practice 185	members as 267–9
and risk budgeting 179	contract law, regulation via 3
complaints log, example (Table 10.2) 168	contract review, outsourcing contracts 160
confidential information and conflicts of	contractual provision
interests 98–9, 102	governance structures 9
confidentiality, and conflicts of interests 87	occupational provision distinguished 6
confidentiality agreements 99–100	open funds, fiduciary role of trustees 7
conflicted trustee	responsibilities and accountability 287
Commercial district	responsionities and decodificating 207



Index

corporate perspective	investment management, defined
accounting 259–60	contribution schemes distinguished
actuarial valuation 259	265
asset-backed securities 262–3	origins 290
assets, measurement and risk 250–5	regulation, strengthening 21
balance sheet (Figures 15.1 and 15.2) 246,	risk-management approach generally 7
251	shareholder perspective 294
EBITDA, use 250–5	withdrawal of provision 293
general remarks 246	defined contribution (DC) schemes
liabilities (Figure) 254	consumer characteristics 270
management checklist 248-50	guidelines 13
management generally 248	investment governance
measurement and risk 250-5	accountability 287
main areas 246	behaviour monitoring 277
pension fund risk	behavioural and attitudinal characteristic
example 256–9	271–2
management plan (Figure) 257	benefit design and objectives 287
measurement 255–6	communication 285–6
Value-at-Risk analysis (Figure) 258	consumer-driven approach 267–9
professional advisers, working with 260-1	context 282–3
summary of issues 263–4	engagement 285–6
taxation 260–1	financial understanding, level of 270–1
trustees, working with 260-1	and investment architecture 278–82
corporate sponsor <i>see</i> employer sponsorship	knowledge and skills 270-1
corporation tax policy 292	labelling of options 286–7
corporations (providers), governance structure	membership perspective 269–70
8–9	nature of schemes 267–9
covenant risk analysis 132-3	objective setting 274–6
credit default swaps, use (Figure 12.10) 204	performance monitoring 277–8
1 ,	processes 277
data management see administration	responsibilities 287
data requirements as to solvency valuations	summary of issues 287–8
137–8	switching 283–5
death, longevity risk 208-10	investment management
decision-making	chapter summary 265
factors for effective 180	default options 265–6
in real time 185	defined benefit schemes distinguished
deficit accounting 293	265
deficit correction, actuarial valuation 148	design 265–6
deficit risk analysis, use 194	responsibilities 266
defined benefit (DB) schemes	mandatory provision 5
buy-outs 294	membership
corporate perspective <i>see</i> corporate	behaviour monitoring 277
perspective	inertia 273–4
data quality 164	mental accounting 272–3
disappearing surpluses, reasons for 38	observed behaviour 274
investment governance see investment	pinning, attitude towards 272–3
governance	risk appetite 271–2
D- :	



Index

socio-demographic characteristics 274	corporate structure as assessment factor
risk management approach generally 7	125–6
unit prices, data management 165	financial performance as assessment facto
delta ladder (Figure 12.1) 189	126
use 188	guidelines 24
Denmark, governance structures 8–9	insolvency position as assessment factor
Department of Work and Pensions	126–7
(DWP) as regulator 20	monitoring, proactive approach 131–2
dependant's benefits, solvency	strategic issues as assessment factor 127
valuations 143	employer default risk, approach generally 7
deterministic liability rate analysis	employer sponsorship
(Figures 12.2 and 12.3) 189, 190–1	administration responsibilities 154
director as trustee	corporate events, responses to 129-31
conflicts of interest 89–90, 95	covenant see employer covenant
nomination 69–71	detriment, mitigation for 130
statutory duty 54	distressed company 122, 130-1
disclosure duty	general remarks 119
and conflicts of interests 100	and insolvency 126-7, 293
regulatory requirements 22	miscellaneous issues 131–2
discount rates see actuarial valuation	mitigation for detriment due to corporate
dismissal and re-hire route for pension rights	event 130
variation 109	and pension scheme
dispute resolution, regulatory requirements	relationship 120
23	relationship (Figure) 119-33
distressed company, trustees' responsibilities	scheme as creditor 120-1
122, 130–1	and professional advisers 123-4, 133
due diligence, outsourcing contracts 160	questions asked 122
duty/duty conflict	restructuring company 130-1
exceptions to principle 87	risk analysis 132–3
legal framework 87	sponsor's relationships with owners and
	lenders 119–20
Eastern Europe, mandatory provision 5	summary of issues 133
EBITDA, use 250–5	support for trustees 80
emerging markets see longevity risk	trustee involvement see trustees
employees	employers
consent to pension rights variation 108	and conflicts of interests
termination of employment	background 94
see employment, termination	confidential information 98-9
wrongful dismissal, pension rights variation	confidentiality agreements 99-100
117	director as trustee 95
employer covenant	disclosure duty 100
assessment	fiduciary duties as trustee 95-6
analytical framework 124	finance director's role 97
key factors 125–6	key events 100
risk management 132	negotiations, conduct generally 97
business environment as assessment factor	statutory authorisation of conflict 95-6
127	trust deed and rules, authorisation
capital structure as assessment factor 126	clauses 96



Index

employers' interests, trustees' duty towards 75	financial products used in longevity risk transfer 221–2
employment, termination, pension rights variation	Financial Services Authority (FSA) CEIOPS representation 6
general remarks 113–15	as regulator 21
simplified loss approach 115–16	Finland, governance structures 8–9
substantial loss approach 117	fit and proper requirements see competence
wrongful dismissal 117	and expertise
employment consultation as to rights variation	foundations
111	governance structure 8–9
employment law, regulation via 3	legal form 3
equities see investment	Freshfields Report on fiduciary duties of
equity beneficial ownership (Table 3.1) 30	trustees 53, 58–9
European Union (EU)	FTSE 100, pension risk attribution
CEIOPS 6	(Figure 13.1) 207–8
IORP Directive 5	funding see actuarial valuation
Three-pillar model see three-pillar model of	funding valuations
pension provision	discount rates as factor 146–8
executive function, separation in investment	legislative changes 135–6
governance 183–4	legislative framework 135–6
expenses of scheme, solvency valuations 144	trust deed requirements 136
Express Variation Clause, use 107–8	•
external agency data, management of 166	Germany
	corporate schemes development 31
fair value accounting 38	governance structures 8–9
fiduciary duties of trustees	governing body/board, accountability 15
act prudently, duty to 55-6	governance see also investment governance
acting for proper purpose of trust 53	basic goal 7
acting in best interests of beneficiaries	body see governing body/board
53–5	categorisation 289
active ownership of assets 62-3	general remarks 26–7
conflicts of interests, director as trustee	good governance
95–6	aims 8
duties generally 50–2	defined 7
general remarks 48–9	focus 10
governance structures 9–10	general application 67
historical origins 48–9	research on 173-4
organic nature 56	results 295
recent developments 56	guidelines 10–13
reform proposals 64–5	and investment practice 295
as to regulation and supervision 7	problems 10
report on 53, 58–9	regulation 10, 17-20, 292
responsible investment principles	research on
see Principles of Responsible	contribution to 290
Investment (PRI)	level of 289–90
summary of issues 63-6	structures 8, 17–20
weaknesses 10-11	supervision generally 13
finance directors and conflicts of interest 97	of trustees, improvements 67



Index

governance budget	and employer sponsorship 126-7, 293
development challenge areas 180	and investment 38–9
principles 180	insourcing of scheme administration 156
resources 180	institutional funds, governance structure 8-9
governing body/board	insurance
accountability 15	additional security 243-4
assessment requirement 14	administration timeline (Figure 14.7) 244
competence and expertise 13, 184	best price 242
composition 69–71	buy-ins see buy-ins
corporate and individual structures	buy-outs see buy-outs
distinguished 68–9	capital supply 226–7
degree of delegation by, factors 78	certainty, achievement 242
guidelines 10–11, 12	comparison 241–2
operation 69–71	demand 225–6
role 8	development of market 224
selection 184	growth factors 225–6
status 8–9	lines 224–5
structure 68	market growth (Figure) 227
weaknesses 11	post-purchase procedures 244
guidelines see also codes of practice	price comparison 241–2
actuarial valuation 136	pricing 226, 233, 242
adviser conflicts 102	pricing factors 235
conflicts of interests 91–2	process 239–41
governance 10–13, 24	quotation process (Figure 14.6) 241
internal controls 15–16	reasons for use 224
	regulation 232–3
hedging	and risk management 228–31
investment risk see investment risk	risk model (Figure 14.5) 234
longevity risk 217–18	summary of issues 244–5
Her Majesty's Revenue & Customs (HMRC)	supply of capital 226–7
as regulator 20	terms of comparison 241–2
Hong Kong, governing body/board	interest rates (Figure) 199
accountability 15	internal controls
human resources and scheme administration	guidelines 12–13, 16, 24–5, 169–70
165	regulation and supervision 15–16
Hungary, governance structures 8–9	regulatory requirements 22
	International Organisation of Pension
Iceland, mandatory provision 4	Supervisors (IOPS), role and work 13
implied consent for pension rights variation	investment
108–9	alternative asset classes 42–4
independent trustees	asset allocation (Table 3.5) 44
appointment 94	asset returns (Table 3.4) 43
generally 80–1	bonds 34–7
inflation rate (Figure 12.8) 200	during bull market 31–4
inflation risk hedging (Figure 12.11) 204	equity beneficial ownership (Table 3.1) 30
innovation issues as to investment governance	equity net investment (Table 3.3) 40
181, 185	financial provision for 31
insolvency	gap in markets 46–7



Index

investment (cont.)	labelling of options 286–7
governance see investment governance	leadership issues 182
and insolvency 38–9	managers, quality of 183-4
during instability 37	membership perspective 269–70
knowledge and skills 270–1	mission clarity 181, 182
liabilities 34–7	Myners Principles 176
long-term investment 28–9	objective setting 274–6
and pension scheme closures 45–6	performance monitoring 277–8
pension schemes as actors 291–2	processes 277
post-war environment 29	responsibilities 287
Principles <i>see</i> Principles of Responsible	risk budgeting 176–80, 183
Investment (PRI); Statement of	risk-budgeting method (Figure 11.2)
Investment Principles (SIP)	177
reassessment of equities 39-41	risk-management issues as to governance
return on assets (Table 3.4) 43	budget 180
risk see investment risk	risk sharing 179
risk capital 41–2	summary of issues 185
statistics (Tables) 30	switching 283–5
strategy (Table) 35–6	time issues 181, 183
investment beliefs, importance of strong 179,	trustees' responsibilities 174
183	value creation drivers 179
investment governance	investment practice, governance influence
accountability 287	295
agents, alignment of goals with 181	investment return, allowance for additional
as basis of good decision-making 180	148–9
behaviour monitoring 277	investment risk
behavioural and attitudinal characteristics	analysis <i>see</i> risk analysis
271–2	focus 7
benefit design and objectives 287	general remarks 187–8
best practice 181	management 44–5
board selection and competence 184	reasons for taking 178–9
chapter summary 174	value creation drivers 179
communication 285–6	IORP Directive
compensation practices 184	compliance 21
competitive advantage 179, 185	standards 5
consumer-driven approach 267–9	Ireland
context 282–3	governance structures 9
decision-making in real time 185	mandatory provision 4
defined contribution schemes <i>see</i> defined	Italy, governance structures 8–9
contribution (DC) schemes	itary, governance structures 6–9
engagement 285–6	Japan, governance structures 8–9
executive function, separation 183–4	sapan, governance structures 6–9
financial understanding, level of 270–1	Kite chart
governance budget see governance budget	(Figures 12.2 and 12.3) 189, 190–1
innovation issues 181, 185	use 189
and investment architecture 278–82	knowledge <i>see</i> competence and expertise;
investment beliefs 179, 183	trustee knowledge and understanding
knowledge and skills 270–1	(TKU)
into mode and bining 270 1	(IRO)



Index

Latin America, mandatory provision 5	underlying risk 212
leadership issues as to investment governance	Luxembourg, governing body/board
182	accountability 15
leaving service rates, solvency valuations 142	
liabilities	management team, administration responsibil-
corporate perspective see corporate	ities 155
perspective	managers, quality of 183-4
deficit risk analysis 194	mandatory provision
measurement and risk (Figure) 254	national policies 4, 5
settlement, buy-outs 232	stringency of regulation 5
liability, trustees' 81–3	members see also consumers
liability breakdown report	assumptions, solvency valuations 140
(Tables 12.1 and 12.2) 194–7	behaviour monitoring 277
use 194	behavioural and attitudinal characteristics
liability driven investing (LDI)	271–2
risk management 197–206	as consumers 267–9
swaps, use (Figure) 204	online data services 165
liability profile	relationship with scheme 120
decay factor (Figure 12.5) 194	trustees as, conflicts of interests 89
(Figures) 191, 194	trustees' duty towards 74–5
use 190–1	Mexico, internal controls supervision 16
liability rate analysis (Figures 12.2 and 12.3)	Micro Factor Analysis (MFA) see risk analysis
189, 190–1	mission clarity and investment governance
licensing, regulatory requirements 14	181, 182
longevity insurance, risk management 228–31	mortality assumptions as to solvency
longevity risk	valuations
approach generally 7, 210–11	post-retirement 141
attribution of risk (Figure 13.2) 207–8	pre-retirement 141
and death 208–10	Myners Principles of investment governance
forecasting 213–14	176
future developments 221–2	170
general remarks 207–8	national policies on mandatory provision 4, 5
scheme management 211	Netherlands
summary of issues 222	alternative asset classes, investment in 45
swaps (Figure 13.2) 218	governance structures 8–9
transfer solutions 221–2	governing body/board
transfer to emerging markets	accountability 15
basis risk 219	assessment requirement 14
	New Zealand, mandatory provision 4
buy-outs and buy-ins 216–17 collateral 219–20	Norway
contract structure 218	fiduciary role of trustees 62
coverage 218–19	
	governance structures 8–9
further protection 220	mandatory provision 4
future proofing 220	4:1
general remarks 214–16	occupational pensions
hedging 217–18	accrued rights, form of 104
price structure 219–20	closed funds, fiduciary role of trustees 7
tail risk 219	deficit accounting 293



Index

occupational pensions (cont.)	provider, meaning distinguished from assets
governance see governance	3
and insurance see insurance	as risk capital providers 41–2
provision	trust see trust-based provision
book reserves 3	pension increases, solvency valuations 143
contractual provision distinguished 6	pension plan, meaning 3
regulation, approaches to 3	Pension Protection Fund (PPF)
taxation 292	levy, solvency valuations 144
OECD	as regulator 20
guidelines 10–13, 15–16, 51	pension provider, meaning 3
Recommendation 10	pension rights, variation
taxonomy 3	consultation obligations
three-pillar model see three-pillar model of	employment consultation 111
pension provision	general remarks 109
online data services for members 165	other potential obligations 111
open funds, fiduciary role of trustees 7	overlap 111
operational risk management	pension consultation 109–11
actions 169–70	dismissal and re-hire 109
code of practice 168	employees' consent 108
focus 7	Express Variation Clause 107–8
identifying risk 168	general remarks 106
internal controls guidance 169-70	implied consent 108–9
statutory requirement 168–9	methods 107
outsourcing see administration	miscellaneous commercial matters 113
	termination of employment
payroll and scheme administration 165	see employment, termination
pension consultation as to rights variation	pension schemes
109–11	actuarial valuation see actuarial valuation
pension fund governance see governance	administration see administration
pension funds	as capital market actors 291–2
administration, guidelines on quality and	closure 45–6
standards 24	corporate perspective see corporate
assets, meaning distinguished from	perspective
provider 3	as creditors
associations see associations	characteristics 120–1
bank account, regulatory requirements 22	overview 120–1
corporations (providers), governance structure 8–9	employer sponsorship <i>see</i> employer sponsorship
disclosure see disclosure duty	in employment package
dispute resolution, regulatory requirements	general remarks 104
23	termination of employment
foundations see foundations	see employment, termination
institutional funds, governance structure 8–9	variation of rights see pension rights,
internal controls see internal controls	variation
investment see investment	expenses, solvency valuations 144
legal form, types 3	funding see actuarial valuation
professional advisers see professional	insolvency 293
advisers	key relationships (Figure 8.1) 119



Index

meaning 3	appointment, regulatory requirements 22
members, relationship with 120	and conflicts of interests
real yield, example (Figure 12.9) 202	acting for employees and trustees,
risk model (Figure) 233 see also risk	practice 103
management	confidential information 102
sponsor see employer sponsorship	general remarks 100
valuation see actuarial valuation	identifying conflicts 101-2
winding-up, governance during, regulatory	regulator's guidance 102
requirements 25	corporate perspective 260–1
pensions	and employer sponsorship 123-4, 133
defined benefit see defined benefit (DB)	relations with, guidelines 24
schemes	support for trustees 78
defined contribution <i>see</i> defined contribution (DC) schemes	proper purpose of trust, trustees' duty towards 53
occupational pensions see occupational	prudence, trustees' duty to act with 55-6
pensions	prudent person principle
private pensions see private pensions	definition 55–6
public pensions see public pensions	introduction 7
three-pillar model see three-pillar model of	and trustees' duties 71
pension provision	public pensions reform 5
Pensions Advisory Service (TPAS) as	public policy
regulator 21	mandatory provision 4
pensions management team, administration responsibilities 155	regulation see regulation
Pensions Ombudsman	real-time decision-making 185
as regulator 21	recovery period, actuarial valuation
remit 72	148–9
remit 72 Pensions Regulator (TPR) 91	148–9 Recovery Plan requirement 150
remit 72 Pensions Regulator (TPR) 91 CEIOPS representation 6	148–9 Recovery Plan requirement 150 regulation <i>see also</i> supervision
remit 72 Pensions Regulator (TPR) 91 CEIOPS representation 6 Code of Practice 83–4	148–9 Recovery Plan requirement 150 regulation <i>see also</i> supervision approaches to 3
remit 72 Pensions Regulator (TPR) 91 CEIOPS representation 6 Code of Practice 83–4 guidelines	148–9 Recovery Plan requirement 150 regulation <i>see also</i> supervision approaches to 3 chapter summary 3
remit 72 Pensions Regulator (TPR) 91 CEIOPS representation 6 Code of Practice 83–4 guidelines adviser conflicts 102	148–9 Recovery Plan requirement 150 regulation <i>see also</i> supervision approaches to 3 chapter summary 3 conceptual framework 3
remit 72 Pensions Regulator (TPR) 91 CEIOPS representation 6 Code of Practice 83–4 guidelines adviser conflicts 102 conflicts of interest 91–2	148–9 Recovery Plan requirement 150 regulation <i>see also</i> supervision approaches to 3 chapter summary 3 conceptual framework 3 development of 3
remit 72 Pensions Regulator (TPR) 91 CEIOPS representation 6 Code of Practice 83–4 guidelines adviser conflicts 102 conflicts of interest 91–2 as regulator 20–1	148–9 Recovery Plan requirement 150 regulation <i>see also</i> supervision approaches to 3 chapter summary 3 conceptual framework 3 development of 3 focus 6
remit 72 Pensions Regulator (TPR) 91 CEIOPS representation 6 Code of Practice 83–4 guidelines adviser conflicts 102 conflicts of interest 91–2 as regulator 20–1 supervision by 23	148–9 Recovery Plan requirement 150 regulation <i>see also</i> supervision approaches to 3 chapter summary 3 conceptual framework 3 development of 3 focus 6 of governance 10, 17–20
remit 72 Pensions Regulator (TPR) 91 CEIOPS representation 6 Code of Practice 83–4 guidelines adviser conflicts 102 conflicts of interest 91–2 as regulator 20–1 supervision by 23 trustee knowledge and understanding,	148–9 Recovery Plan requirement 150 regulation <i>see also</i> supervision approaches to 3 chapter summary 3 conceptual framework 3 development of 3 focus 6 of governance 10, 17–20 risk based <i>see</i> risk management
remit 72 Pensions Regulator (TPR) 91 CEIOPS representation 6 Code of Practice 83–4 guidelines adviser conflicts 102 conflicts of interest 91–2 as regulator 20–1 supervision by 23 trustee knowledge and understanding, guidance as to 72	148–9 Recovery Plan requirement 150 regulation <i>see also</i> supervision approaches to 3 chapter summary 3 conceptual framework 3 development of 3 focus 6 of governance 10, 17–20 risk based <i>see</i> risk management and scheme administration 165
remit 72 Pensions Regulator (TPR) 91 CEIOPS representation 6 Code of Practice 83–4 guidelines adviser conflicts 102 conflicts of interest 91–2 as regulator 20–1 supervision by 23 trustee knowledge and understanding, guidance as to 72 performance see administration	148–9 Recovery Plan requirement 150 regulation <i>see also</i> supervision approaches to 3 chapter summary 3 conceptual framework 3 development of 3 focus 6 of governance 10, 17–20 risk based <i>see</i> risk management and scheme administration 165 self-regulation <i>see</i> fiduciary duties of
remit 72 Pensions Regulator (TPR) 91 CEIOPS representation 6 Code of Practice 83–4 guidelines adviser conflicts 102 conflicts of interest 91–2 as regulator 20–1 supervision by 23 trustee knowledge and understanding, guidance as to 72 performance see administration Poland, governance structures 8–9	148–9 Recovery Plan requirement 150 regulation see also supervision approaches to 3 chapter summary 3 conceptual framework 3 development of 3 focus 6 of governance 10, 17–20 risk based see risk management and scheme administration 165 self-regulation see fiduciary duties of trustees
remit 72 Pensions Regulator (TPR) 91 CEIOPS representation 6 Code of Practice 83–4 guidelines adviser conflicts 102 conflicts of interest 91–2 as regulator 20–1 supervision by 23 trustee knowledge and understanding, guidance as to 72 performance see administration Poland, governance structures 8–9 portfolio stress test (Figure 12.7) 197–206	148–9 Recovery Plan requirement 150 regulation see also supervision approaches to 3 chapter summary 3 conceptual framework 3 development of 3 focus 6 of governance 10, 17–20 risk based see risk management and scheme administration 165 self-regulation see fiduciary duties of trustees solutions 10–11
remit 72 Pensions Regulator (TPR) 91 CEIOPS representation 6 Code of Practice 83–4 guidelines adviser conflicts 102 conflicts of interest 91–2 as regulator 20–1 supervision by 23 trustee knowledge and understanding, guidance as to 72 performance see administration Poland, governance structures 8–9 portfolio stress test (Figure 12.7) 197–206 Principles of Responsible Investment (PRI)	148–9 Recovery Plan requirement 150 regulation see also supervision approaches to 3 chapter summary 3 conceptual framework 3 development of 3 focus 6 of governance 10, 17–20 risk based see risk management and scheme administration 165 self-regulation see fiduciary duties of trustees solutions 10–11 standards 5
remit 72 Pensions Regulator (TPR) 91 CEIOPS representation 6 Code of Practice 83–4 guidelines adviser conflicts 102 conflicts of interest 91–2 as regulator 20–1 supervision by 23 trustee knowledge and understanding, guidance as to 72 performance see administration Poland, governance structures 8–9 portfolio stress test (Figure 12.7) 197–206 Principles of Responsible Investment (PRI) adoption 56	148–9 Recovery Plan requirement 150 regulation see also supervision approaches to 3 chapter summary 3 conceptual framework 3 development of 3 focus 6 of governance 10, 17–20 risk based see risk management and scheme administration 165 self-regulation see fiduciary duties of trustees solutions 10–11 standards 5 stringency 5
remit 72 Pensions Regulator (TPR) 91 CEIOPS representation 6 Code of Practice 83–4 guidelines adviser conflicts 102 conflicts of interest 91–2 as regulator 20–1 supervision by 23 trustee knowledge and understanding, guidance as to 72 performance see administration Poland, governance structures 8–9 portfolio stress test (Figure 12.7) 197–206 Principles of Responsible Investment (PRI) adoption 56 overview 59–62	Recovery Plan requirement 150 regulation see also supervision approaches to 3 chapter summary 3 conceptual framework 3 development of 3 focus 6 of governance 10, 17–20 risk based see risk management and scheme administration 165 self-regulation see fiduciary duties of trustees solutions 10–11 standards 5 stringency 5 reporting process 163
remit 72 Pensions Regulator (TPR) 91 CEIOPS representation 6 Code of Practice 83–4 guidelines adviser conflicts 102 conflicts of interest 91–2 as regulator 20–1 supervision by 23 trustee knowledge and understanding, guidance as to 72 performance see administration Poland, governance structures 8–9 portfolio stress test (Figure 12.7) 197–206 Principles of Responsible Investment (PRI) adoption 56 overview 59–62 private pensions	Recovery Plan requirement 150 regulation see also supervision approaches to 3 chapter summary 3 conceptual framework 3 development of 3 focus 6 of governance 10, 17–20 risk based see risk management and scheme administration 165 self-regulation see fiduciary duties of trustees solutions 10–11 standards 5 stringency 5 reporting process 163 resignation of conflicted trustee 93
remit 72 Pensions Regulator (TPR) 91 CEIOPS representation 6 Code of Practice 83–4 guidelines adviser conflicts 102 conflicts of interest 91–2 as regulator 20–1 supervision by 23 trustee knowledge and understanding, guidance as to 72 performance see administration Poland, governance structures 8–9 portfolio stress test (Figure 12.7) 197–206 Principles of Responsible Investment (PRI) adoption 56 overview 59–62 private pensions development 3	Recovery Plan requirement 150 regulation see also supervision approaches to 3 chapter summary 3 conceptual framework 3 development of 3 focus 6 of governance 10, 17–20 risk based see risk management and scheme administration 165 self-regulation see fiduciary duties of trustees solutions 10–11 standards 5 stringency 5 reporting process 163 resignation of conflicted trustee 93 responsible investment principles, fiduciary
remit 72 Pensions Regulator (TPR) 91 CEIOPS representation 6 Code of Practice 83–4 guidelines adviser conflicts 102 conflicts of interest 91–2 as regulator 20–1 supervision by 23 trustee knowledge and understanding, guidance as to 72 performance see administration Poland, governance structures 8–9 portfolio stress test (Figure 12.7) 197–206 Principles of Responsible Investment (PRI) adoption 56 overview 59–62 private pensions development 3 mandatory provision, national policies 4, 5	Recovery Plan requirement 150 regulation see also supervision approaches to 3 chapter summary 3 conceptual framework 3 development of 3 focus 6 of governance 10, 17–20 risk based see risk management and scheme administration 165 self-regulation see fiduciary duties of trustees solutions 10–11 standards 5 stringency 5 reporting process 163 resignation of conflicted trustee 93 responsible investment principles, fiduciary duties of trustees 59–62
remit 72 Pensions Regulator (TPR) 91 CEIOPS representation 6 Code of Practice 83–4 guidelines adviser conflicts 102 conflicts of interest 91–2 as regulator 20–1 supervision by 23 trustee knowledge and understanding, guidance as to 72 performance see administration Poland, governance structures 8–9 portfolio stress test (Figure 12.7) 197–206 Principles of Responsible Investment (PRI) adoption 56 overview 59–62 private pensions development 3	Recovery Plan requirement 150 regulation see also supervision approaches to 3 chapter summary 3 conceptual framework 3 development of 3 focus 6 of governance 10, 17–20 risk based see risk management and scheme administration 165 self-regulation see fiduciary duties of trustees solutions 10–11 standards 5 stringency 5 reporting process 163 resignation of conflicted trustee 93 responsible investment principles, fiduciary



Index

return on investment, allowance for additional 148–9	solvency risk <i>see</i> solvency risk swaps, use (Figure 13.2) 204, 218
risk analysis	tail risk 219
delta ladder see delta ladder	and trustee knowledge and understanding
general remarks 188	(TKU) 8
Kite chart see Kite chart	
liability profile see liability profile	salary increases, solvency valuations 142
risk budgeting	Schedule of Contributions, requirement
framework, best practice 183	150
issues 176–80	securities, asset-backed, corporate perspective
method (Figure 11.2) 177	262–3
tolerance factors 178	self-interest conflict
risk capital, pension funds as providers 41–2	exceptions to principle 86
risk management	legal framework 86
approach generally 7	self regulation/supervision see fiduciary duties
asset and liability breakdown report	of trustees
see asset and liability breakdown	senior employees as trustees, conflicts of
report	interests 90–1
attribution of risk 194–7	service levels see administration
attribution report (Figure 12.6) 194-7	shareholder perspective on defined benefit
basis risk 219	schemes 294
corporate perspective 255–6	simplified loss approach to pension rights
deficit risk analysis see deficit risk analysis	variation 115–16
delta ladder <i>see</i> delta ladder	skills see competence and expertise
employer default risk see employer default	solvency objective of valuation 135
risk	solvency risk, focus on 7
employer sponsorship 132–3	solvency valuations
and governance budget 180	accounting approaches 38–9
hedging see hedging	assumptions 139
inflation risk hedging (Figure 12.11) 205	commutation 143
and insurance 228–31	data requirements 137-8
internal controls see internal controls	dependant's benefits 143
investment see investment risk	expenses of scheme 144
investment risk see investment risk	leaving service rates 142
Kite chart see Kite chart	legislative framework 136
liability driven investing (LDI) see liability	members' assumptions 140
driven investing (LDI)	method 138–9
liability profile see liability profile	mortality assumptions
liability rate analysis see liability rate	generally 140–1
analysis	post-retirement 141
longevity risk see longevity risk	pre-retirement 141
operational risk see operational risk	pension increases 143
plan progression (Figure 15.4) 257	Pension Protection Fund levy 144
portfolio stress test (Figure 12.7) 197–206	process 138
prudent person principle <i>see</i> prudent person	responsibilities 136
principle	retirement rates 142
and scheme administration 168	salary increases 142
sharing of risk 179	Spain, governance structures 9
	-



Index

sponsoring employer see employer	taxonomy 3
sponsorship	tendering for outsourcing see administration
stakeholders	termination of employment see employment,
and administration team 172	termination
fragmentation of stakeholder constituencies	three-pillar model of pension provision
125	components 3–4
relationships within employer sponsorship	recommendations 4
119–20	time issues as to investment governance 181,
trustees as representatives, conflicts of	183, 185
interests 91	tolerance factors for risk budgeting 178
trustees' duty towards 74	trust-based provision
Statement of Funding Principles, requirement	governance structure 9
150 Statement of Investment Principles (SID)	responsibilities and accountability 287 weaknesses 10–11
Statement of Investment Principles (SIP)	trust deed and rules
content 175	
regulatory requirements 22	authorisation clauses 96
statistics on investment (Tables) 30	statutory requirements 136
straight through processing (STP), use 166	trust law, regulation via 3
sub-committees, management of conflicts of	trustee knowledge and understanding (TKU)
interests by 93	as to duties and responsibilities generally 71
substantial loss approach to pension rights variation 117	, -
	regulation, strengthening 22 regulatory requirements 23
supervision see also regulation	risk management and 8
authorities <i>see</i> supervisory authorities chapter summary 3	weaknesses 10–11
	trustees see also conflicted trustee;
conceptual framework 3	
development of 3 focus 6	independent trustees accountability 72
	and administration <i>see</i> administration
of governance 13, 17–20 risk based <i>see</i> risk management	
self-supervision <i>see</i> fiduciary duties of	boards <i>see</i> governing body/board Code of Practice 83–4
trustees	composition, regulatory requirements 21
	conflicts of interests
supervisory authorities categories of governance 17	
establishment 5	
establishinent 3	duty/duty conflict 89–90
governance of 16	general remarks 88–9
governance of 16	general remarks 88–9 self-interest conflict 89
UK see Financial Services Authority (FSA);	general remarks 88–9 self-interest conflict 89 corporate perspective 260–1
UK <i>see</i> Financial Services Authority (FSA); Pensions Regulator (TPR)	general remarks 88–9 self-interest conflict 89 corporate perspective 260–1 detriment, mitigation for 130
UK <i>see</i> Financial Services Authority (FSA); Pensions Regulator (TPR) swaps, use (Figures) 204, 218	general remarks 88–9 self-interest conflict 89 corporate perspective 260–1 detriment, mitigation for 130 directors as, conflicts of interests 89–90
UK see Financial Services Authority (FSA); Pensions Regulator (TPR) swaps, use (Figures) 204, 218 Sweden, mandatory provision 4	general remarks 88–9 self-interest conflict 89 corporate perspective 260–1 detriment, mitigation for 130 directors as, conflicts of interests 89–90 and distressed company 122, 130–1
UK see Financial Services Authority (FSA); Pensions Regulator (TPR) swaps, use (Figures) 204, 218 Sweden, mandatory provision 4 Switzerland	general remarks 88–9 self-interest conflict 89 corporate perspective 260–1 detriment, mitigation for 130 directors as, conflicts of interests 89–90 and distressed company 122, 130–1 duties generally 71 see also fiduciary duties
UK see Financial Services Authority (FSA); Pensions Regulator (TPR) swaps, use (Figures) 204, 218 Sweden, mandatory provision 4 Switzerland governance structures 8–9	general remarks 88–9 self-interest conflict 89 corporate perspective 260–1 detriment, mitigation for 130 directors as, conflicts of interests 89–90 and distressed company 122, 130–1 duties generally 71 see also fiduciary duties of trustees
UK see Financial Services Authority (FSA); Pensions Regulator (TPR) swaps, use (Figures) 204, 218 Sweden, mandatory provision 4 Switzerland	general remarks 88–9 self-interest conflict 89 corporate perspective 260–1 detriment, mitigation for 130 directors as, conflicts of interests 89–90 and distressed company 122, 130–1 duties generally 71 see also fiduciary duties of trustees and employer sponsorship
UK see Financial Services Authority (FSA); Pensions Regulator (TPR) swaps, use (Figures) 204, 218 Sweden, mandatory provision 4 Switzerland governance structures 8–9 mandatory provision 4	general remarks 88–9 self-interest conflict 89 corporate perspective 260–1 detriment, mitigation for 130 directors as, conflicts of interests 89–90 and distressed company 122, 130–1 duties generally 71 see also fiduciary duties of trustees and employer sponsorship corporate events, responses to 129–31
UK see Financial Services Authority (FSA); Pensions Regulator (TPR) swaps, use (Figures) 204, 218 Sweden, mandatory provision 4 Switzerland governance structures 8–9 mandatory provision 4 tail risk, use 219	general remarks 88–9 self-interest conflict 89 corporate perspective 260–1 detriment, mitigation for 130 directors as, conflicts of interests 89–90 and distressed company 122, 130–1 duties generally 71 see also fiduciary duties of trustees and employer sponsorship corporate events, responses to 129–31 financial distress responsibilities 122
UK see Financial Services Authority (FSA); Pensions Regulator (TPR) swaps, use (Figures) 204, 218 Sweden, mandatory provision 4 Switzerland governance structures 8–9 mandatory provision 4 tail risk, use 219 taxation	general remarks 88–9 self-interest conflict 89 corporate perspective 260–1 detriment, mitigation for 130 directors as, conflicts of interests 89–90 and distressed company 122, 130–1 duties generally 71 see also fiduciary duties of trustees and employer sponsorship corporate events, responses to 129–31 financial distress responsibilities 122 need for engagement 122
UK see Financial Services Authority (FSA); Pensions Regulator (TPR) swaps, use (Figures) 204, 218 Sweden, mandatory provision 4 Switzerland governance structures 8–9 mandatory provision 4 tail risk, use 219	general remarks 88–9 self-interest conflict 89 corporate perspective 260–1 detriment, mitigation for 130 directors as, conflicts of interests 89–90 and distressed company 122, 130–1 duties generally 71 see also fiduciary duties of trustees and employer sponsorship corporate events, responses to 129–31 financial distress responsibilities 122



Index

trustees (cont.)	regulatory bodies 20
employers' interests, duty towards 75	regulatory context 17–20
fiduciary role see fiduciary duties of	structures 9
trustees	investment strategy (Table 3.2) 35-6
governance, improvements 67	IORP Directive compliance 21
independence 80–1	mandatory provision 4
investment governance responsibilities 174	occupational pensions governance 21
key issues 76–8	Ombudsman see Pensions Ombudsman
liability 81–3	regulatory and supervisory bodies
licensing of, regulatory requirements 14	see Department of Work and Pensions
meeting minutes, regulatory requirements 22	(DWP); Financial Services Authority
as members, conflicts of interests 89	(FSA); Her Majesty's Revenue &
members' interests, duty towards 74–5	Customs (HMRC); Pensions Regulator
mitigation for detriment due to corporate	(TPR)
event 130	United States (US)
of other schemes, conflicts of interests 91	alternative asset classes, investment in 42–4
persons barred, regulatory requirements 22	fiduciary role of trustees 50–2
professional advisers	fund investment value 48–9
proactive relationship 133	governance structures 9–10
support from 78	safe-harbour rules 27
and prudent person principle 71	3410 Haroout 14105 27
questions to sponsors 122	valuation see actuarial valuation
resources 175, 180	Value-at-Risk (VaR) measure
and restructuring company 130–1	asset and liability breakdown report
senior employees as, conflicts of interests	see asset and liability breakdown
90–1	report
sponsoring employer, support from 80	attribution of risk 194–7
as stakeholder representatives, conflicts of	calibration 192
interests 91	confidence level 193
stakeholders' interests, duty towards 74	critiques 192
summary of issues 83	decay factor (Figure 12.5) 193
support for 78, 131	use 193
voting, regulatory requirements 22	deficit risk analysis 194
,	models 192
unit prices for defined contribution schemes,	pension fund risk (Figure 15.5) 258
data management 165	use 190–1, 255–6, 258
United Kingdom (UK)	value creation drivers 179
advisory service see Pensions Advisory	
Service (TPAS)	winding-up, governance during, regulatory
CEIOPS representation 6	requirements 25
equity beneficial ownership (Table 3.1) 30	workflow process, use 161–2
governance	World Bank recommendations 5
general remarks 27	wrongful dismissal, pension rights variation
regulation and supervision of 17–20	117
- •	