

Index

Addison, J. T. 125	in developed countries 32
administrative controls, simulated	in developing countries 31–2
increase in 178, 180	estimation using MIMIC
agricultural sector, and informal	model 31–2
employment 56	and official statistics 158
Allingham, M. G. 80	Blades, D. 23
allocation effects 2-3, 118, 142, 144,	Blankart, C. B. 116
154–5, 181	BMA (Bundesministerium für Arbeit
waste of resources 144-6	und Sozialordnung) 163
see also market distribution	Botero, J. 125
Alm, J. 91–2	bounded rationality 70-1, 98
Andersen, P. 80	Brehm, J. 100
Andreoni, J. 10	Brennan, G. 115
Austria	Brockmeier, T. 147
demand effects of illicit working 160	Buchanan, J. M. 115
financial policy simulations to reduce	Buehn, A. 3, 31, 35, 40, 42, 44, 45
shadow economy 178, 180	business freedom, and shadow economy
	33–5
Bagachwa, M. S. D.	
Becker, G. S. 68, 78	Cagan, P. 20
behavioural control, see control theory	Canada
benefit abuse, incentives for 164	tax burden in 47-8
Bentham, J. 64	welfare contributions 47-8
Berger, H. 126	Canadian tax rule 101
Bhattacharyya, D. K. 160	capital intensity, and economic
Biedenkopf, K. H. 183	growth 146
black labour market	Caspers, A. 7, 10
in Africa 49	Cassel, D. 7, 10, 160
in Asia 49–53	centralisation, in government 173-4
in developing countries 56	Chang, G. 58, 60
in Germany 93–5	Charmes, J. 58, 60
incentives to work in 47–8	Choi, J. P. 137
in Latin and South America 53	cognitive control, see control theory
in non-agricultural sector 56	Cologne Institute for Economic
in OECD countries 60–3	Research 139, 141, 165
in transition countries 53, 58, 60	Cologne School of Fiscal Psychology
see also illicit work	103
black markets	community work 164
in centrally planned economies 32	comparative advantage 149-50

208



Index 209

competition, distortion of 146, 151 direct tax, share in shadow economy and growth of shadow economy 151 33_5 intensification of 150-1 distribution effects 155 horizontal effects 157-8 and welfare effects 172 see also government regulation, individual corrections to 156 density of lack of transparency 156 consultation, and policy 169 regressive effect 157 consumption expenditure, and illicit division of labour, and comparative work 163 advantage 149-50 control theory, and deviant behaviour Dreher, A. 137 99-100 dual economy categorisation 7 DYMIMIC model 27-29 see also reactance theory Conway, P. 122, 125 causes and indicators of shadow corruption 32 economy 27-29 and size of shadow economies 137, 172 and tax yield 172 Eastern Europe, quality of public criminal activity, in shadow economy institutions 131 12, 150 and modern technologies 147 crowding-out effect 73-4 economic freedom 33-5 currency demand, as measure of economic growth 154-5 shadow economy 19, 20-2, 30, distortion of production structure 146 - 7criticisms of 22-3 exploitation of production potential 153-4, 155 and demand deposits 22 and labour intensity 154 Danninger 126 and optimal resource allocation 148-9 de Gijsel, P. 78-80 public investment 147-8 De Grazia, R. 61 rate calculation 159 de Mandelville, B. 64 waste of resources 144-6 see also competition; innovation decision-making habits 67-8 and expectations 68 economic policy, and shadow economy influence of socio-demographic 1, 2-3, 4, 11, 142 variables 89 failure of 178, 180 income distribution 143 and preferences 76-7 sociological definitions 88-9 efficiency and social justice 155, and rational choice theory 68 and restrictions 77-8 regressive distribution effect 157 demand effects, of illicit working 160-1 positive stabilisation effects 159-60 rationality 167, 178, 180, 183 democracy and exit option 170 see also allocation effects; distribution and threat to economic order 182 effects; stabilisation policy deregulation, advantages of 135, 138 economic psychology 65, 103, 112 in Germany 134-5 education reform 135 developing countries, shadow education and training, effects of economy in shadow economy on 147 economic growth 147 education, training, and illicit innovation potential 152 working 96 efficiency, and social justice 155 labour force 49

efficiency, of Inland Revenue 105

efficiency taxation 157

deviant behaviour, reasons for 75

Dickenberger, D. 101



210 Index

electricity consumption method fiscal policy, and distortion of economic 23-6, 30 indicators 158 Elster, J. 73 Fisher's quantity equation 19 Fortin, B. 47-8 emotions, as signalling function 73 Enste, D. H. 68, 71, 93, 96, 108-9, frames, see RREEMM model 116, 121-2, 124-5, 126, 131-2, Frank, R. H. 73, 97 137, 139 Fréchette, P. 47-8 entrepreneurship 73, 152, 155 freedom, infringement of, see government regulation Erard, B. 10 Esser, H. 70, 71 freedom of movement 151-2 EU Frey, B. S. 23, 65, 68, 71, 73, 88, 97, 100, 114, 174 effect of increased centralisation in Friedman, E. 123, 124 membership of, and former Soviet states 41 Gaetani-D'Aragona, G. 61 Parliament 1 Garcia, G. 22 shadow labour force in 63 Gates, Bill 152 **EU Commission** GDP, measurement of in shadow employment strategy for combating economy 23-4, 33-5 illicit work 1, 4 German Council of Economic Experts 7 standardisation of national income Germany, shadow economy in 63, 139 accounts 7 demand effects 160 Eucken, W. 168 deregulation effects 134-5 European Central Bank 158 legalisation of 'soft' illicit work 175 European Economic and Monetary media power in 169 Union, and shadow economy 6 and minimum wage 140-1 European National Accounts 6 protection, effects of 152 evolutionary theory 112-16 punishment for illicit work 138-9 exchange theory 105 costs of 146 exit option 2, 5, 99, 138, 170, 181 reforms in 117 tax deductibility 140 decrease in attractiveness 170-2 and migration 113 and unemployment 63, 135 Giles, D. E. A. 28-29 expert opinion, on policy 169 globalisation, and exit option 170 Feige, E. L. 19-20, 22, 23, 159 Gniech, G. 101 **GNP** Feinstein, J. 10 Feld, L. P. 135 and national accounts 9, 17-18 Festinger, L. 104 and size of shadow economy 134 Fetchenhauer, D. 137, 159 and transactions approach to Financial Control Department for Illicit measurement 19-20 Work 138-9 see also economic growth efficiency improvements to 139 government effectiveness and size, and firm size, and black markets 176 shadow economy 33-5 fiscal auditing programmes 16-17 government regulation disadvantages of 17 bivariate analysis of 129-30 fiscal effects, of shadow economy 161 and 'the common good' 182 see also tax evasion; tax yield costs of 144-6 fiscal federalism 174 density 122-4 fiscal freedom, and shadow economy in OECD countries 130 33 - 5reduction of 172



Index 211

enforcement of 123, 124 gender and education effects 96 impact of 13, 22, 28, 132 in Germany 15, 93-5, 108 influence on shadow economies 124 penalties for 138-9 and labour-force participation 126 by immigrants 175 measurement of 124 income, influence of 96, 176 see also deregulation; IW regulation labour market effects 159 legalisation of 146, 174-5 index; labour market regulation; policy strategies; state and market transactions 13 intervention; tax burden and official institutions 2-3 Grabitz, H.-J. 101 opportunity for 91 Great Britain, positive effects of shadow political attitude towards reduction economy in 160 Gresser, F. 137 probability of detection 139 Gretschmann, K. 156, 159, 160, 182 public perception of 140, 176 growth rate 28, 146-7 real estate, ownership of 96 and production structure 146-7 shift in values 96 Grupp, H. 125 social environment, effect of 108-9 Gutmann, P. M. 20 socio-demographic variables, effect modification of Laffer curve 113 of 89 subjective conditions for 91 habits, see RREEMM model tax discrimination 156 tax vield 162-3 Hafemann, K. 125 Haferkamp, A. 137 and welfare loss 166 Hardege, S. 122, 124-5, 126, 131, 132 see also developing countries; Hayek, F. A. von 64 income-leisure model; labour health insurance 121 force; OECD countries; social effects of German obligatory security, burden; sociological measures 74 explanation; tax burden; tax and part-time working 164 morality; tax reform; transition Heintz, J. 58, 60 countries Hill, R. 23 income Hirschman, A. O. 73, 168 and deviant behaviour 75 Hofreither, M. F. 175, 177-9 reallocation of 117 income and expenditure statistics, Homo Oeconomicus 67-8 and income-leisure model 75 discrepancy between 17-18, 30 link with Homo Sociologicus 69-70 income-leisure model 65-7, 74 and rational choice theory 68 assumptions on preferences and Homo Sociologicus 68, 88 restrictions 75–8, 82, 83–4, link with Homo Oeconomicus 69-70 88-9 house building/buying, subsidies for 136 and illicit work and labour supply Houston, J. F. 159 78 - 80and illicit work and regulated illicit work 1, 12-15, 18, 48 working time 83–6 in Austria 15 limitations of 87-8 and choice 72-3 personal and given social and corruption 137 characteristics 91 demand effects on official sector 160-1 reasons for deviant behaviour 75 reduction in working hours 86-7 demand for 108 fiscal effects 161, 165 role of institutions 92 full-time 85-6 and tax evasion 80-1



> Index 212

> income-leisure model (cont.) Klovland, J. 23 time allocation 78-80, 81-3 Koch, L. T. 72 see also integrative model Kucera, G. 53-6 indicator approaches 17-26 indifference curves, and preferences labour, division of 149-50, 155 labour force 76-7 freedom of movement 151-2 individual behaviour, and analysis of growth rate and participation 33-5 shadow economy 65 see also income-leisure model; official and actual 18, 28 methodological individualism in services sector 147 industrial regulation 13 see also black labour market inflation rate, effect on shadow labour market regulation 47, 53-6, 75 economy 33-5 and deregulation 135 distortion in 159 and size of shadow economy 130, 132 informal employment, in developing and unemployment 126 countries 56 see also government regulation in non-agricultural sector 56 Lackó, M., and Lackó method 24-6 information control, see control theory Laffer curve 3, 67 information selection 72 modification of 113 innovation Lambsdorff, J. G. 137 Lamnek, S. 96, 106 potential for 152, 154 in social sphere 152-3 Larsen, C. 135 Institute for Management Development Latin American shadow economy, (IMD) 125 growth rate in 148 labour force 53 institutional framework, changes in 73 institutional sclerosis 2, 112 law enforcement 12 institutions, quality of 123, 131-2, 134, legality, advantages of 123 135 - 6Lemieux, T. 47-8 integrative model of deviant behaviour Leviathan theory on taxation 115-16 Lindenberg, S. 71 110 - 12International Labour Organization 4 Lindsay, M. 28-29 invisible hand 64 Lippert, O. 10 LISREL Technique 29 Isachsen, A. J. 22, 81, 84 Loayza, N. V. 123, 126, 131-2, 148 IW regulation index 124-5, 126-9, 129 - 30local exchange systems 152-3 time periods 126 location, of firms 170 variables of 125-6 Lorenz curve 156 marginal rate of substitution, and

Johnson, S. 123-4 jurisdiction, costs of 146

Kabir, M. 23 Kahneman, D. 68, 71 Kaliberda, A. 23-4 Kaufman, D. 123-4 and Kaufman-Kaliberda method 23-4 Kelley, H. H. 105 Kirchgässner 9, 68, 174, 182 Kladroba, A. 125 Klein, A. 182

indifference curve 76, 77 market distribution 117, 119 market equilibrium 118 market failure 118 see also state intervention marketing 145 maximisation rule 67, 77 McClelland, G. H. 91-2 McKenzie, R. B. 68 measurement of shadow economy 30

direct approaches 16-17



Index 213

indirect/indicator approaches 17-26 objective probabilities, in neoclassical model approach 26-29 theory 67 surveys 16, 30 **OECD 125** disadvantages of 17, 31, 92 OECD countries' shadow economy transactions approach 19-20, 30 GDP per capita 63 see also currency demand; electricity institutional quality 131 official indicators, distortion of 2-3 consumption method; indicator approaches; labour force Olbrich, G. 96, 106 media, power of 169 Olson, M. 2 Meisterbrief 152 openness, effect on shadow economy 33-5 Menger and Böhm-Bawerk 64 Merton, R. K. 96 Ordnungspolitik 118, 168 methodological individualism 64, 66 Osnabrügge, G. 100 Mill, J. 64 overtime working 83, 85 MIMIC model 3, 31 Oviedo, A. M. 123, 124, 126, 131-2 causal variables 32, 33-5 indicator variables 32, 33-5 Park, T. 22 results 33-5 pension insurance 121 minimum wage effects 140-1 pensions, and benefit abuse 164 Mogee, M. E. 125 Peruvian shadow economy 1 Petersen, H.-G. 117 monetary statistics, as measure in shadow economy; see currency Phillips curve 67 demand; electricity consumption policy strategies, to reduce shadow economy 135-7, 168 method; transactions approach legalisation of illicit work 174-5 Montenegro, C. E. 3, 31, 35, 40, 42, 44, 45 see also exit option; voice option moonlighting 1, 13, 18, 85, 96, 140 political economy explanation for moral suasion 144 shadow economy 175 cost effectiveness of combating illicit Morris, B. 25 motivation, and illicit working 73 work 177-9, 181 motivational structure, see RREEMM government interests 177 model, man component individuals' interests 176 trade unions' interests 176-7 Mückl, W. 7 Müller, K. 117 Pöll, G. Pommerehne, W. W. 9, 23, 88, Nardo, M. 125 174, 182 national accounting 17-18 preferences, in income-leisure National Income Accounts 7, 9 model 67 network assistance 9 prices, and scarcity 148-9 Neumann-Morgenstern utility product market regulation 130, 132 function 80 production market development 28 new political theory 116, 120 prospect theory 68 Nicoletti, G. 122, 125 protection, problems of 151-2 non-saturation, and indifference Pryor, F. L. 125 curves 76 public choice theory, and illicit work non-wage labour costs, see social security 175 - 9public debt, and shadow economy 1 norms and values, see Homo Sociologicus public expenditure 1 Norway, cash transactions in 22 public goods, supply of, and tax evasion



214 Index

public opinion, management of 72 services sector, liberalisation of 135 punishment, for deviant behaviour 75 shadow economies and income-leisure model 88 activities in 12 in Austria 102 questionnaires, disadvantages of 16 causes of 28, 137, 178, 180 common good, the 182 R&D, effects of low intensity 154 by continent 45, 46 random effects model, and size of in developing countries 42-5 shadow economy 132-4 differences in estimates 4-5 rational choice theory 65, 66, 68 difficulties of definition in OECD 6 rational economic policy; see economic dual economy 7 informal economic activity 7-10 policy rationality 67, 167, 178, 180, 183 division of labour 149-50 and utility maximization 77 erosion of economic order 182 see also bounded rationality evolutionary process 181, 183 reactance theory 97-8 and financial psychology 105 and control theory 98-101, 102-3 global growth in 5 and economic utility theory 101-2 GNP in Africa 49 and moral suasion 172 GNP in Asia 49-53 and tax burden 103-5, 172 GNP in Latin and South America 53 and tax reform 102 incentive problems 121 increase in OECD countries 36-41, recession, and shadow economy 1 regulation, see government regulation 178, 180 Riebel, V. 86 influences on size 106-8 international rankings of 36 Rigolini, J. 123, 124 Roncolato, L. 53-6 size and trend 37-40 RREEMM model 69 loss of control, response to 101 frames 71-2 monetary indicators 28 habits 72-3 positive effects of 143, 149, 154, 155, 159-60, 170, 182 man component 73-4 Ruesga, B. S. M. 61 shift in standards 91 rule of maximisation 67 size indicators 28, 106-8 size of 2 Sandmo, A. 80, 81 theoretical approach by social satisficing 70 scientists 3 in transition countries 41 scarcity, and freedom of choice 101-2, 148-9 and welfare state 138 Scarpetta, S. 122 see also measurement of shadow Schäfer, W. 96, 106, 165 economy; political economy Schmidt, K. 182 explanation Schmölders, G. 103, 105, 183 Shleifer, A. 123-4 Schneider, F. 3, 31, 35, 40, 42, 44, 45, Simon, H. A. 70 61, 102, 106, 121-2, 134, 137, Smith, A. 64 141, 160, 175, 177-9 social justice Schulze, W. D. 91-2 and distribution policy 156 science and technology, investment in regressive distribution effect 157 135 social security Scitovsky, T. 73 burden 2, 106, 112, 120-1, 136 self-sufficient economy 9, 12, 150 costs and benefits 120, 164-5 Servén, L. 123, 124, 126, 131-2 fiscal effects on 143, 157



Index 215

fraud 13	reduction of 135-6, 140, 170
in Germany 117	enthusiasm for 178, 180
influence of shadow economy on	simulations 178, 180
163–4	rise in 106, 112
reform 4, 138, 165, 172	and size of shadow economy 26, 42,
see also benefit abuse	45, 121–2, 132–4
societal development 182	and social insurance contributions
socio- and economic psychology, and	135–6, 181
deviant behaviour 97, 106-9,	see also currency demand; reactance
172	theory
see also reactance theory	tax deductions 136, 140
sociological explanation, for deviant	tax evasion 1, 10, 30, 103-5, 156, 181
behaviour 68, 88	and prospect theory 68
stabilisation policy 158, 168	theory of 80–1
positive effect of illicit activities	theory of labour supply 80
159–60, 181	and time allocation 81
statistical distortions in 159	and underground economy 10
Stahlberg, D. 100	tax honesty, influence of social norms on
state intervention	91–2
democratic failure 117	tax mentality 105
and market failure 117, 119	tax morale 105
and social injustice 117	tax morality 22, 28, 103–5, 111
see also government regulation	impact on shadow economy 134
stimulation, desire for 73	and public participation 174
Strom, S. 22, 81, 84	see also reactance theory
Stützel, W. 7	tax rate, correlation with tax yield
subsidiarity principle 173–4	114–15
subsidies, <i>see</i> public expenditure	tax reform 4, 136, 138, 170
Suntum, U. van 125	Austrian model 178, 180
supervision, costs of 145	in Germany 117 household services 136, 140
surveys, <i>see</i> measurement of shadow economy	increased participation in politics
Switzerland, democracy in 174	182–3
Switzeriand, democracy in 174	and reactance theory 102
Гапzi, V. 13, 20–2	tax revenue, and underground
tax burden 2, 22, 33–5, 47, 75, 87–8	activity 3
in Canada 47–8	tax yield 143, 162–3, 177
distribution of and transfer payments	taxation psychology 103
104–5	Teixeira, P. 125
in Germany 106	Thaler, R. H. 112
and government efficiency 105	theory of evolutionary taxation 103
and labour supply 81	theory of social comparison 104
individual perception of 106	Thibaut, J. W. 105
negative welfare effects 146	Thießen, V. 122
in OECD countries 47, 122	Thomas, J. J. 12, 23
perceptibility and durability of 105	Thompson, S. C. 99
primary cause of shadow economy	Thum, M. 137
28, 120	trade registration 13
public services and free-riding 157	trade unions, and illicit work 176–7
and reactance theory 102-3	transactions approach 19–20, 30



> Index 216

transfer payments, need for 172 velocity of money, and currency demand transition countries' shadow economy 23, 30 economic growth in 147 Verbeek, H. 137 voice option 2, 5, 99, 138, 168-70, 181 innovation potential 152 transparency, and distribution need for increased participation policy 156 173, 174 Tullock, G. 68 federalism Tversky, A. 68, 71 underground economy, definition of 9 Walker, M. 10 informal sector 12 irregular sector 12 WEF 125 and market transactions 13 unemployment in EU 1 insurance 164 welfare system rate calculation 159 and shadow economy 1, 80, 134, 147, 153-4, 177 US dollar, use as international security currency 23 utility functions and individual preferences 77 Wiswede, G. 101 utility maximisation, income-leisure 58-60 model 76, 77 World Bank 51, 52, 54, 55, 125 see also reactance theory World Value Survey 134 value-added tax (VAT) harmonisation in Germany 173 temporary reductions in 136

see also centralisation; fiscal Weck-Hannemann, H. 88, 114 Weizsäcker, C. C. von 155 welfare effects, of shadow economy 142 and efficiency 143 and labour supply 47-8 and social contributions 47, 75 see also income-leisure model; social welfare theory on taxation 115 Werkneh, G. 28-29 women, share in informal employment

youth employment, effect of minimum wage on 141

Zoido-Lobatón, P. 123, 124

yield 163, 181 Varian, H. R. 77