Index

ability

dependants 18–19, 23
determinants 165, 170
perceived 73, 74–5
requirements 95
unobserved 122
absolute risk aversion 61–3
age
hazard effects 99, 102
and opportunity 166–7
policy recommendations 185–6
at start-up 48, 54, 179–80
agents, types of 13–14
alertness 25–6
arbitragers 13–14
Armed Services Vocational Aptitude Battery (ASVAB), US 120, 122
Arrow–Pratt measure 61, 72–3, 75
assets
and performance 132–3, 142, 143
and start-ups 46, 54
assumptions, policy recommendations 184
asymmetric information 131, 176
banks, screening processing 173
Baumol, W.J. 17
Bayesian learning theory 105
bivariate model 38, 53–4, 166
Blackburn, M. 120
Blanchflower, D. 40, 49–50
borrowing facilities 187
‘Brabant survey’ 78
Brockhaus, R. 49
business duration see self-employment duration
business-specific determinants, survival duration 89
Cantillon, Richard 13–14, 21, 26–33
capital
borrowing 13–14, 29–30
effect on business survival 103, 105
markets 142, 176
need for 23
ownership and performance 95
policy recommendations 187
at start-up 53–4, 171–2
capital constraints 130–31, 173–4
application 136–8
empirical evidence 132–4
empirical methodology 146–50
endogeneity of 160
estimation results 138–42
model 134–6
results 150–60, 176–9
theory 131–2
capital-intensive industries 150, 151, 154
Card, D. 123, 174
Chamber of Commerce, Netherlands 138
‘circular flow’ 19–20
class position 21
classical theories on entrepreneurship 14–16, 93–5, 165
commercial contacts, exploitation of 138
competing-risks models 98–9, 99, 102, 103, 106, 108, 110
Competition and entrepreneurship (1973) 24–6
competitive advantage 180, 181
competitors 16
compulsory exits 96, 99, 102, 108, 171
control variables, human and financial capital 158–9
coordination abilities 71
Cowling, M. 134
credibility, female entrepreneurs 83–4
credit, adverse selection 131–2
data
capital constraints 138
entrepreneurship selection 78–80
human and financial capital 146–50
risk aversion 59–61

197
survival and success 95–6
willingness and opportunity 42–6
debt capital 103
decision-making 22–3
definitions
of entrepreneurship 5–6
of success 6
discovery 25–6
dissolution rates, new businesses 89–90
distribution sector 15
Dunn, T. 134
duration of self-employment 71, 91–3, 105–9
Dutch employees
capital constraints, effect on
performance 136–8, 143, 145
labour market experience 73–4, 78–80
early thoughts on entrepreneurship 13–14
earnings
as definition of success 6
as performance measure 119, 125–7
economy, contribution to 11–12, 20, 28–9, 30
Edgeworth, F.Y. 16
education
conclusions 178, 181–2
decisions 152–4
as dependent variable 80
endogeneity of 160
estimation strategies 118–19
as exogenous variable 145–6
importance for entrepreneurs 127
length of 150–52, 160
level 170, 171
policy recommendations 184, 186–7
results 172–3, 174–5
see also higher education; returns to education;
ationally education
emotional support 138
empirical analysis
distributions and specification 74–5
labour market experience 73–4
solution to model 75–8
empirical definitions of entrepreneurship 5
empirical evidence
capital constraints 132–4
human capital 117–19
empirical methodology, human and
financial capital 146
employees
incomes 120–22, 125–6
returns to education 119–20
risk attitudes 63
employment status 125
employment switches
desire for 49–50
effect on performance 120, 154–5
effect on start-ups 42–3, 48
endogenous variables
education as 145–6
human and financial capital 148–9
entrepreneurial
combinations 19–21
stock 91–3
entrepreneurship
classical thoughts on 14–16
comparison of theories 26–33
definitions of 5–6
earliest thoughts on 13–14
encouragement programmes 187
neo-Austrian thoughts on 24–6
neoclassical thoughts on 16–24
potential gains of 75–6
promotion of 186–8
returns 18–19
stimulation programmes 115
entrepreneurship selection 71–2
data 78–80
estimation results 80–84
links with recent literature 72–3
model 73–8
results 167
summary 84–7
equilibrium 16–17, 24–5, 28
equilibrium models 72–3
‘Equilibrium of the firm, The’ 71
equilibrium wage rate 86–7
equity 155, 159–60
Essai sur la nature du commerce en
général (1755) 13
estimation results
capital constraints 138–42
entrepreneurship selection 80–84
returns to education 120–27
<table>
<thead>
<tr>
<th>Survival and success</th>
<th>Hausman test 123, 150–51</th>
</tr>
</thead>
<tbody>
<tr>
<td>Willingness and opportunity</td>
<td>Hazard function model 97–8</td>
</tr>
<tr>
<td>Estimation strategies, educational outcomes</td>
<td>Health, effect on business survival 104</td>
</tr>
<tr>
<td>European Commission</td>
<td>Heertje, A. 11</td>
</tr>
<tr>
<td>European countries</td>
<td>Higher education 52, 159, 186–7</td>
</tr>
<tr>
<td>Career choices</td>
<td>Hirelings 13</td>
</tr>
<tr>
<td>Employment experience</td>
<td>Holland, risk aversion survey 59–67</td>
</tr>
<tr>
<td>Returns to education</td>
<td>Holtz-Eakin, D. 34</td>
</tr>
<tr>
<td>Evans, D. 48</td>
<td>Household characteristics 123</td>
</tr>
<tr>
<td>Exits</td>
<td>Human capital</td>
</tr>
<tr>
<td>96, 108–10, 171</td>
<td>Estimation results 82–3, 138, 140, 142</td>
</tr>
<tr>
<td>Exogenous variables, human and financial capital 149–50</td>
<td>Results 172–3</td>
</tr>
<tr>
<td>Yields, capital constraints as 145</td>
<td>Theory 116–17</td>
</tr>
<tr>
<td>Explicit knowledge 116</td>
<td>Variables 45, 48</td>
</tr>
<tr>
<td>Exploitation 25–6</td>
<td>Hurst, E. 159</td>
</tr>
<tr>
<td>External capital 131, 133, 142, 177</td>
<td>Imperfect information 131</td>
</tr>
<tr>
<td>Failure, social costs of 182, 185</td>
<td>Implications of policy recommendations 184</td>
</tr>
<tr>
<td>Family</td>
<td>Income, determinants of 120–22, 125–6, 157, 158–9, 160, 174, 178, 181</td>
</tr>
<tr>
<td>Assets 143, 177</td>
<td>Individual characteristics 74</td>
</tr>
<tr>
<td>Background 18, 120, 123, 152, 174</td>
<td>Utility 184</td>
</tr>
<tr>
<td>Businesses 146, 186</td>
<td>Industry</td>
</tr>
<tr>
<td>Father’s</td>
<td>Dummies 103–4</td>
</tr>
<tr>
<td>Education 151, 152–3</td>
<td>Evolution theory 159</td>
</tr>
<tr>
<td>Occupational status 170, 171, 179</td>
<td>Experience 102, 108, 158, 171, 182, 185</td>
</tr>
<tr>
<td>Females</td>
<td>Types 14–15, 103–4, 105, 108</td>
</tr>
<tr>
<td>Capital constraints 154</td>
<td>Inflow, entrepreneurial stock 91–3</td>
</tr>
<tr>
<td>Credibility 83–4</td>
<td>Informal education 116</td>
</tr>
<tr>
<td>Incomes 159</td>
<td>Inheritance receipts, effect on performance 133–4</td>
</tr>
<tr>
<td>Probability of entrepreneurship 180–81</td>
<td>Initial financial circumstances 149–50</td>
</tr>
<tr>
<td>Financial screening 138, 142</td>
<td>Innovations, importance of 17</td>
</tr>
<tr>
<td>Financial variables</td>
<td>Innovators, entrepreneurs as 19–21</td>
</tr>
<tr>
<td>Business survival 103</td>
<td>Inputs as definition of success 6</td>
</tr>
<tr>
<td>Start-ups 46</td>
<td>Of spouses 158</td>
</tr>
<tr>
<td>Firm size 76–7, 84</td>
<td>Intangible investments 151</td>
</tr>
<tr>
<td>Formal education 115, 116</td>
<td>Intelligence 170, 171</td>
</tr>
<tr>
<td>Gender 83–4, 154, 159, 170–71, 180–81</td>
<td>Intelligent quotient (IQ) 64, 80, 82–3, 120</td>
</tr>
<tr>
<td>General ability 18–19</td>
<td>Intergenerational correlation of entrepreneurship 134</td>
</tr>
<tr>
<td>Experience 138, 158, 167, 171, 182</td>
<td>Internal capital 131</td>
</tr>
<tr>
<td>General Advisory Council of the Dutch government 146, 47</td>
<td>International Monetary Fund (IMF) 8</td>
</tr>
<tr>
<td>Genes 179</td>
<td></td>
</tr>
</tbody>
</table>
international organizations 8
‘intrapreneurs’ 28
investments 151

Jovanovic, B. 48, 159

Kaldor, Nicholas 71, 89
Kanbur, S. 73
Kirzner, Israel 24–6, 26–33
Knight, Frank 21–4, 26–33
knowledge
application of 14–15
in decision-making 116
types of 25

labour demand 71–2, 167–71
see also entrepreneurship selection
labour market experience 102–3
and age 185–6
empirical analysis 73–8
policy measures 185–6
see also general experience; industry
experience
labour market position 172
Laffont, J. 73
landowners 13
limitations of policy recommendations 183–4
literature, entrepreneurship selection 72–3
location, effect on start-ups 54
locus-of-control beliefs 45, 46, 48, 105
log incomes 158–9
Lucas, R. 72–3
Lusardi, A. 159
Lutheran religion 45, 48

macroeconomic
indicators 96
variables 103–4
males, probability of entrepreneurship 180–81
managerial role of entrepreneurs 14–15
marital status, effect on start-ups 49, 52
Marshall, A. 16, 17–19, 26–33
MBO (Middelbaar Beroeps Onderwijs) 64
measures, risk aversion survey 61–3

Methodist religion 45, 48
microeconomic approaches 4–5, 167
Miller, R. 48
model
capital constraints 134–6
entrepreneurship selection 73–8
survival and success 96–9
willingness and opportunity 40–42
monopoly power 21
monozygotic twins, estimation of RTE 119
motivation
constraints 138, 142
factors 20, 167
hypothesis 137
for start-up 103
multiple risk attitudes 176

neo-Austrian thoughts on entrepreneurship 24–6
neoclassical theories on entrepreneurship 16–24, 95
Netherlands 167, 170, 172
samples from 5
Neumark, D. 120
new combinations 19–21
non-entrepreneurs 5

O’Farrell, P.O. 83
objectives 4
occupational choice 72–3, 76
opportunity see willingness
ordinary least squares (OLS) 118, 120,
122, 127, 155–6
organisational structure 181
Oswald, A. 40, 49–50
outgoing personalities 46, 48, 54
outline 6–10

parental background
as dependent variable 49, 104, 105,
123, 170, 171
policy recommendations 186
results 81–2, 179
Parker, S. 143
perfect information 17
performance
determinants of 3–4
explanation of 155–60
measures 6
person-specific determinants, survival duration 89

person
benefits of entrepreneurship 184
equity 155, 159–60

Pickle, A. 83
Pigou, A.C. 16
Poirier, Dale 38

policy
implications 160–61
measures 165

policy recommendations
age/experience 185–6
assumptions 184
capital constraints 187
education 186–7
limitations 183–4
parental background 186
risk 185
unemployment 187–8
positioning 4–5

Principles of Economics 17, 85
production 25
factors of 72
function 17

productive experience 158
profits 18, 23, 30

psychological
effects on business survival 104–5
approaches to entrepreneurship 4, 95
variables of start-ups 45, 46, 48
pull factors 103
push factors 103

qualities of entrepreneurs 15–16

RABO 146
rational choice 17
reference individuals 52
relevance 3–4
religious beliefs 45, 48, 50, 54
remuneration 15–16
class position as 21

research questions
answers to 30–33
selection of 12–13
residual income 16
restarts 182

results
human and financial capital 156–60
risk aversion 63–6
returns to education (RTE)
application 119–20
discussion 127–8
empirical evidence 117–19
estimation results 120–27
policy recommendations 186
results 160, 172–3, 174, 181
theory 116–17
risk attitude 60, 80, 83, 84–5, 166, 167, 170, 175–6
policy recommendations 185
risk aversion survey
data 59–61
measures 61–3
results 63–6
risk premium 126
risk funds 187

Risk, Uncertainty and Profit (1921) 21–4

risk-bearing nature of
entrepreneurship 13–14
Rotter scale 45, 46, 48, 105

Sargan’s
F-statistic 152
validity test 123
Say, Jean Baptiste 14–16, 26–33
scholars, selection of 12
Schumpeter, Joseph 19–21, 26–33
self-confidence 105
self-employment
duration 71, 91–3, 105–9
encouragement programmes 37
switches to/from 91–3, 95–6, 99, 102
self-employment experience
policy recommendations 185–6
restarts 182
results 44, 48, 52, 54, 63–4, 102
sensitivity analyses 107–9, 159–60
siblings, number of 151, 152–3
single-risk
attitudes 176
models 98, 99, 109, 110
situational variables of start-ups 45–6, 48–52
skills, enhancement of 185
### Successful entrepreneurship

<table>
<thead>
<tr>
<th>Social Capital</th>
<th>Cost of Failure</th>
<th>Returns</th>
<th>Society, Role in</th>
<th>Start-Up</th>
</tr>
</thead>
<tbody>
<tr>
<td>142</td>
<td>182, 185</td>
<td>183–4</td>
<td>3, 11</td>
<td></td>
</tr>
</tbody>
</table>

- **Start-Up**: age 48, 54, 179–80
- **Determinants**: human capital variables 45, psychological variables 45, results 170–71, 179, 181–2, situational variables 45–6

*See also* Motivation

**Statistical Abstract of the United States Databook (1992)** 6

- **Storey, D.** 83
- **Subsidies**: 186, 187
- **Success**: 171–2
- **Definitions**: of 6, determinants of 93–5
- **Indicators**: of 6, 105
- **‘Supply and Demand’**: 18–19, 23–5, 30
- **Survival**: 89–91
  - As definition of success 6
  - Determinants 91–3
  - Duration 95–6, 105–9
  - Models 96–9
  - Results 171–2
- **‘Survival of the Fittest’**: 14, 19, 37

**Sweden, Link Between Windfall Gains and Performance**: 34

**Switches to/From Self-Employment**: 91–3, 95–6, 99, 102

- **Tacit Knowledge**: 116
- **Tangible Investments**: 151
- **Tasks of Entrepreneurs**: 29, 30
- **Taxation**: 186, 187

*Theory of Economic Development, The* 19–21

- **Theory of Entrepreneurship**: 11
- **Time Constraints**: 137, 138, 142
- **Tobit Model**: 84, 87, 138

*Treatise on Political Economy or the Production, Distribution and Consumption of Wealth, A* (1803) 14–16

- **‘Triangular’ Model**: 178
- **Two-Stage Least Squares Estimation Procedure**: 146

**UK, Link Between Assets and Performance**: 133

- **Uncertainty**: 21–4, 25–6
- **Unemployment**: policy measures 187–8, and start-ups 48–9, 54, 172
  - And survival 104, 108, 110, 182–3
- **Univariate Probit Model**: 50–51
- **Unobserved Individual Characteristics**: 178
- **Unsuccessful Entrepreneurship**: 3, 11, 183–4

**US**

- **Capital Requirements**: 132, 176
- **Employment Experience**: 182
- **Policy Recommendations**: 185–6
- **Returns to Education**: 118, 119–20, 122, 127, 173
- **Samples from**: 5
  - Start-ups 166, 167
  - Unemployed Males 48–9
  - Willingness and Opportunity for Start-Ups 52–4

**US National Longitudinal Survey of Youth (NLSY79)** 38, 45, 46, 53, 95, 96, 109, 120

- **Utility Creation**: of 14
- **Entrepreneurship Selection**: 85–6
  - Expected 167, 170, 180
  - Occupations 72–3
  - Theory 59

**Van der Sluis, C.M.** 117, 119, 125

**Van Praag, C.M.** 136, 143, 177

- **Variables, Construction and Choice of**: 42–6

**Verbeek, M.** 125

- **Vocational Education**: 64, 182
- **Voluntary Exits**: 96, 99, 102, 103, 106, 108–9, 171

- **Wage Levels**: 77–8

**Wealth**

- **Distribution**: 159–60
- **Effect on Risk Attitudes**: 64, 66
- **Effect on Start-Ups**: 44–5
- **Variables**: 60–61, 63

- **Willingness and Opportunity, Start-Ups**: 37–40, 166–7, 179
<table>
<thead>
<tr>
<th>Term</th>
<th>Page(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>conclusions</td>
<td>52–7</td>
</tr>
<tr>
<td>data</td>
<td>42–6</td>
</tr>
<tr>
<td>estimation</td>
<td>46–52</td>
</tr>
<tr>
<td>model</td>
<td>40–42</td>
</tr>
<tr>
<td>windfall gains, effect on performance</td>
<td>134</td>
</tr>
<tr>
<td>World Bank</td>
<td>8</td>
</tr>
<tr>
<td>zero willingness/opportunity</td>
<td>41</td>
</tr>
<tr>
<td>‘zero-sum-game’ economy</td>
<td>11, 14</td>
</tr>
</tbody>
</table>