Index

academic entrepreneurship
in 1990s Finland 122, 124
in 1990s Russia 123–4
equity-based collaborative
interactions within 172
as important contemporary research
theme 3
theoretical perspective within 186
see also scientrepreneurs, role
identity construction
Adam, A. 148, 157
agency theory 42, 44
Ahuja, G. 96–7, 110
Ajzen, I. 146–50, 153, 158
alliances, asymmetrical
concepts and research questions 94–5
cross-case analysis
influence of proximity 104–8
limitations and future research
111–12
size asymmetry 102–4
study conclusions and implications
110–11
study discussion 108–10
methodology
research design and data collection
99
Alvarez, S.A. 96, 110
ambiguous legitimacy 22
Amit, R. 41, 77
amplified immediacy 12–13, 20–21
Anderson, B.B. 8–9
Andersson, S. 78, 80
Arthurs, J.D. 32, 44
Asheim, B.T. 108, 174
asymmetrical alliances see alliances,
asymmetrical
attitudes
towards behaviour; as determinant of
intention 148–9
towards entrepreneurship
creating index of 153
as having little effect on
entrepreneurial behaviour
150, 155–6
Audretsch, D.B. 168, 174
Autio, E. 72, 74, 88, 148–9, 185
Avdeitchikova, S. 49, 53
B2B markets to B2C markets 57–60
Balland, P.-A. 94, 97
Barr, C. 169, 176–8, 181, 184
Bathelt, H. 173–5, 184
BE Energy 181, 186
Becker, G.S. 52–3
behaviour, entrepreneurial see
intention–behaviour link of
graduates
behaviour theory 40, 44
Belderbos, R. 96, 173
Belleflamme, P. 31–4, 36–41
Berglund, K. 6–7
Bornstein, D. 8–9
Boschma, R.A. 95, 97–8, 174–6, 184,
186
Bosse, D.A. 96, 110
Bourdieu, P. 10–11, 13
Brabham, D.C. 32–3
Busenitz, L.W. 32, 44
business angels (BAs)
case narrative
from B2B markets to B2C markets
57–60

195
towards strategic cooperation
60–63
case study
analysis and discussion 63–5
findings 65–6
defining 49–51
event-driven processual approach 54–5
factors precluding investment in emerging growth companies 35
impact of crowdfunding acts 38
literature review 50–54
methodology 55–7
non-financial contributions 52–4
prior research on 49–50
as traditional investors 30, 35
unable to apply due diligence process 40
Carsrud, A. 146–7
Centre for Materials Discovery (CMD) access to, as main benefit of small firms 186–7
contribution to city-regional innovation and entrepreneurship 181–4
development of 168–9
establishment of catalytic event leading to 179–81
themes instrumental in 178
funding 178–9, 181, 185
highlighting contribution of open innovation partnerships 187
highlighting universities’ contribution to entrepreneurial efforts 186
importance of geography and physical space 184–5
individuals instrumental in establishing 177
location 176
platform technologies 185
purpose of 178
selection informed by theoretical sampling 176–7
as shared technological platform 178, 185–6
social proximity as driver of 186
Certo, S.T. 41–2
Chao, Y.-C. 94, 112
Chesbrough, H.W. 168–70, 173
Chia, R.C.H. 10–11, 14
Chreim, S. 119, 130
city-regional innovation 181–4
collaborative innovation research partnerships, developing 171–3
collaborative network approach 10
collective effort 24
as subject/actor 17
commercialization of intellectual property rights 168, 170–71, 187
commercialization of research 3, 117, 119, 123, 125, 127–8, 131, 133–5
common industry experience 105, 110–11
common technology platform see Centre for Materials Discovery (CMD)
Connelly, B.L. 32, 40, 44
ContentShare 55–66
control, in equity crowdfunding 42–3
Cooke, P. 168, 185–6
crowdfunders areas for future research 40
perspective of 36–7
 crowdfunding aims of 31
classification into models 33–4
conceptualization of 32–3
equity model 34–5
historical use of 33
research interest in 30–31
saturation of donation model 34
see also equity crowdfunding
Cumming, D. 31, 35, 38–9, 41, 43
‘cunning intelligence’ 12
Dees, J.G. 8–9
Department of Trade and Industry (DTI) 6, 180
D’Este, P. 97, 170–71, 174–5
Dezhina, I. 123–4
dowling, A. 172, 187
Du, J. 173, 184
dynamic involvement 13, 21
ecosystem-level studies 170
Eisenhardt, K.M. 15–16, 25, 99, 173, 176
Engle, R.L. 149, 151
entrepreneurial behaviour see intention–behaviour link of graduates; start-up behaviour
entrepreneurial intentions
attitude towards behaviour 148–9
categorizations of previous studies 147
intention–behaviour relationship 149–50, 156–7
limitations and future research 157–8
meaning of 146
perceived behavioural control 149–51, 153, 155–6
research methodology 151–4
results and implications 154–7
role of gender and entrepreneurial role models in 150–51, 153–5, 157
subjective norm 148–51, 153, 155–6
entrepreneurial role models 150–51, 153–5
entrepreneurs and equity crowdfunding
areas for future research 40–41
perspective 37–8
perspective on business angels 53, 56–66
science-based see scientrepreneurs, role identity construction
entrepreneurship
contributions to 181–4
educators 156–7
social 8–10
equity crowdfunding
benefits and risks 36
crowdfunder perspective 36–7
founder perspective 37–8
government perspective 38–9
as innovative method of securitization 31
research agenda for future studies
asymmetric information, investment readiness and networks 41–2
crowdfunders 40
entrepreneurs 40–41
ownership and control 42–3
regulatory environment 43
research limitations 44
research methods 31–2
risk management 39–43
vs traditional financing methods 34–5
Eriksson, P. 55–7
Etzkowitz, H. 117, 122, 125, 185, 187
European Commission 150, 157, 168, 170, 178
European Regional Development Fund (ERDF) 169, 176–8, 181, 183–4, 186
event-driven processual approach
aim of 55
analysis and discussion 63–5
case narrative 57–63
different research designs and methodologies 54–5
intensive case study strategy 55–7
main interest of 54
study conclusions 65–6
'exploding,' risk of 10
'Explosion' project 14–15, 17–18, 20
external financing
accessing
difficulties in 30
informal 30, 33
traditional methods of 30, 35–6
business angels as crucial source of 50–51
of research activities, academic institution as shell for 132
scientists competing for 117
Fayolle, A. 6, 146–8, 150, 156–8
Feldman, M.P. 168, 174
Fernandez, H. 6, 8
financial capital 9, 24–5
financial viability, urgency for 23–4
Finland
1990s academic entrepreneurship 122, 124, 130
as context for science-based entrepreneurship 121–5
economic situation in 156
entrepreneurship increasingly accepted
instrument developed in meaning of being a scientist in
scientist becoming entrepreneurs
universities in entrepreneurship
firm-level studies
franchising
as commercial expansion strategy
as method of accelerating diffusion of
social
as strategy to control risk of
Freear, J. 49, 53
Frenken, K. 175, 186
funding
academic research
in Finland
in Russia
and business angels
for university–industry collaboration
see also crowdfunding; equity crowdfunding; external financing
Gassmann, O. 70–71, 89
gender, role of
as categorical variable
in entrepreneurial behaviour
as independent variable
in literature
value in predicting start-up behaviour
geographical proximity
academic and policy focus on
benefits of, in university–industry study
case study approach
definitions and characteristics
degree of, in study firms
impact on innovation
importance for small firms
influence of
influence on transfer of knowledge and technology
limitations
and ‘local buzz’
non-spatial proximity compensating for lack of
study findings
George, G. 70, 72–3, 76
Gertler, M.S. 174–6
Ghoshal, S. 52–3
Giddens, A. 11, 17
Gimeno, J. 118, 126
government, and equity crowdfunding
graduate study see intention–behaviour link of graduates
Graebner, M.E. 99, 176
Gulati, R. 72, 97, 110
Hagedoorn, J. 171–2
Hakala, J. 117, 119, 125
Hamel, G. 94, 96
Hansen, T. 109, 111
‘hard’ task-centred activities
of business angels
as category of non-financial contributions
Harrison, R.T. 41, 50–51, 53
Henley, A. 146, 149
Henriksen, J.T. 95, 97
Hoang, H. 97, 118, 126
Holmlund, M. 108, 110
Holt, R. 10–11
Howe, J. 30, 32
HT (high-throughput) technologies
Huberman, A.M. 99–100
human capital
case demonstrating
definition
individual agency
individuals
in open innovation partnerships
as subject/actor
informal financing methods
information asymmetry 41–2
Ingram, K. 149, 156
innovation, proximity dimensions of 173–6
institutional context
  in open innovation 185
  role in scientrepreneurs study 130–33
institutional rules of action 18
intellectual property rights,
  commercialization of 168, 170–71, 187
intention–behaviour link of graduates
  context and objectives of study 146–7
  implications of study 156–7
  limitations and future research 157–8
literature review and hypotheses
  development
  entrepreneurial intentions 148–9
  intention–behaviour relationship 149–50
  role of gender and entrepreneurial
    role models 150–51
research methodology
  data collection process 151–3
  testing procedures 154
  variables 153, 164–7
  results 154–5
internationalization
  early
    areas for future research 88, 89–90
    definition 73
    discussion 86–7
    measures 76
    and resource flexibility 73–4
    results 80, 82, 84
    variables 76–9
  impact of resources
    data and methods 75–9
    limitations and future research 87–8
    previous research 70–71
    results 80–85
    study discussion and conclusions 86–90
    theory and hypotheses 72–5
    performance of new ventures
      areas for future research 88
      discussion 86–7
  Kaufmann Firm Survey (KFS) 71, 75–6
  and resource flexibility 74–5
  results 84
  study implications 89–90
  variables 76–9
Internet
  crowdfunding via 31, 35–8, 40, 42
  sales, as control variable 71, 78–83, 85
  investment readiness 41–2
Jain, S. 117–19, 128, 133
Jarzabkowski, P. 12, 18
Joensuu, S. 146, 151, 157
Johan, S. 35, 38–9, 41, 43
Johannisson, B. 11–15, 17, 19, 25
Kaufmann Firm Survey (KFS) 71, 75–6
Kaukonen, E. 121–3
Kautonen, T. 42, 149–50, 156, 158
Keupp, M.M. 70–71, 89
Kiseleva, V.V. 123–4
Knoben, J. 94–5, 97–8
Kock, S. 108, 110
Koenig, M. 148–9
Kolvereid, L. 150–51
Kovalainen, A. 55–6
Krueger, N.F. 146, 148–9
Lane, P.J. 95, 98
Langley, A. 49, 54
Larralde, B. 33–4, 37
learning advantages of newness (LAN) 72
legitimacy
  ambiguous legitimacy 22
  in asymmetrical alliances 97, 111
  awareness of social identity 18
  of entrepreneurship 131
  and social goals 9
Lehner, O.M. 31, 33–7, 40, 43
Letaifa, S.B. 95, 98, 108–9
Levinsohn, D.S. 15, 25
Li, D. 77, 97
liabilities of newness 73
liabilities of smallness 103, 108, 110–11
Libaers, D. 119, 133
Lin, W.T. 72–3
Lihnán, F. 146–7, 149–50, 158
Lissoni, F. 171, 176
Liverpool see university–industry collaboration
local adaptation 24
‘local buzz’ 174–5
lock-in 175
Loucks, D. 31, 35–6
Lubatkin, M. 95, 98
Lundvall, B. 168, 186
Lyon, F. 6, 8

Macht, S. A. 49–50, 52–4, 64
Macken Högby 13–25
Macken Växjö 13–25
Mair, J. 6, 9
Malmberg, A. 173–4
Marti, I. 6, 9
Maskell, P. 173–4
Mason, C.M. 41, 50–51, 53, 63, 65
Matlay, H. 6, 146
Mattes, J. 109, 111
Meister, C. 95, 98
mentoring role 52–3
Merseyside see university–industry collaboration
Miles, M.B. 99–100
Mollick, E. 31–4, 38, 42–3
mutual dependence 110–11

Nahapiet, J. 52–3
Nelson, R.R. 17, 19
new logic of innovation 169
Nieminen, M. 121–2
non-financial contributions
case highlighting 55–66
literature review 52–4
Nonaka, I. 10, 174
Northwest Regional Development Agency (NWDA) 177–9, 181, 183–4
Norwegian oil and gas industry see alliances, asymmetrical
OECD 76, 168
Oerlemans, L.A.G. 94–5, 97–8
open access facilities 180, 182, 186
open innovation (OI)
case illustrating evolution of 176–87
contribution of crowds 30–31
developing collaborative innovation research partnerships 171–3
ecosystem-level studies 170
firm-level studies 169–70
paradigm 169
proximity dimensions 173–6
role of university–industry collaboration 170–71
Ordanini, A. 31, 33, 35–8
organizational proximity
case study approach 99–100
definitions and characteristics 98
degree of
between alliance partners 97
method of categorizing 100
functions 95
influence of 104–8
study findings 109–11
ownership, and equity crowdfunding 42–3
Patel, P. 170–71
Pentland, B.T. 49, 54
perceived behavioural control (PBC)
creating index of 153
as determinant of intention 149
and gender effect on entrepreneurial intentions 151
role in actual entrepreneurial behaviour 156
start-up behaviour
having direct effect on 149–50
having value in predicting 155
Pérez, L. 96, 109
Perkmann, M. 168, 170–72, 186
personal relationships 105, 110–11
personal rules of action 18
Pless, N. 8–9
Polanyi, M. 14, 18
Politis, D. 49, 51–3, 63, 65–6, 117, 119
Polymer Ltd 186
Porter, M.E. 173, 185
practice theory 7, 10–12
processual character of social enterprise 6
Index

processual phenomenon, entrepreneuring as 7, 16
processual practices 12–13, 19–24
professional management approach 10
proximity
dimensions of innovation 173–6
literature, study results contributing to 111
non-spatial 100, 110–12
perspective
benefits 97
gaining central position in research streams 94, 97
see also geographical proximity; organizational proximity; social proximity; technological proximity
Pruett, M. 148, 150
Rabeau, Y. 95, 98, 108–9
Rallet, A. 95, 98, 100, 109
regional innovation systems 25, 175, 185
regulatory environment for equity crowdfunding 43
RENT Conference XXVIII 4–5
resource acquisition role
case demonstrating 55–65
as role through which non-financial contributions are delivered 52–3
resource flexibility
conceptualization of 70, 75–6
data and methods
control variables 78
dependent variables 76–7
independent variable 77–8
sample 75–6
variable definitions 79
gap in literature on role of 71–2
limitations and future research 87–8
results 80–85
study discussion and conclusions 86–90
theory and hypotheses
and early internationalization 73–4
and performance of international new ventures 74–5
slack resources 72–3
Reynolds, P.D. 123, 130
Riedl, J. 33, 36–8
risk
in equity crowdfunding 39–43
of ‘exploding’ 10
taking, and resource flexibility 72–3
Robinson, K.C. 76–7
role identity construction see scientrepreneurs, role identity construction
Russia
1990s academic entrepreneurship 123–4, 132, 134
as context for science-based entrepreneurship 121–5
discussing identity through work content 129
meaning of being a scientist in 125–6
on role determinants 134
scientist becoming entrepreneurs 118, 123, 126–8, 130–31, 134
self-identification as scientist 132
universities in entrepreneurship 122–3, 125, 132, 138–40
use of snowballing method of research 120
Sætre, A.S. 49, 53, 63
Salamonsen, K. 95, 97
Sapienza, H. 71–3, 75, 88
Sarasvathy, S.D. 18–19, 74, 117, 119
Schatzki, T.R. 10–11, 18
Schwienbacher, A. 33–4, 37
Schlaegel, C. 148–9
Schwartz, A.A. 32–5, 38–42
scientists
becoming entrepreneurs
compatibility between identities 128–30, 134
in Finland 126–8, 133–4
role conflict 118–19
in Russia 118, 123, 126–8, 130–31, 134
contemporary expectations of 117
involvement in commercial activities
adopting hybrid role identity 119, 133
Entrepreneurship, universities & resources

all-encompassing sample 135, 138–40
analysis supporting research on 133
views on 117
role of, in Finland and Russia 125–6
self-identification as 132
scientrepreneurs, role identity
construction
compatibility between identities as scientist and entrepreneur
128–30
context and objectives of study
117–18
data and methods 120–21
examples of interview codes
140–45
profiles of scientrepreneurs
138–40
Finland and Russia as contexts for science-based entrepreneurship
121–5
meaning of being a scientist in Finland and Russia 125–6
meaning of scientist as entrepreneur
126–8
role of institutional context in shaping role identities 130–33
study conclusions
limitations and future research 135
research implications 133–4
theoretical framing 118–20
Segal, G. 148–9
self-enforced heterogeneity 22–3
self-identity 18–19
Sequeira, J. 146–7, 149–50
Shane, S. 30, 50, 117, 119
Shapero, A. 148–9
Shiller, R.J. 30–31, 34, 43
Sigar, K. 31, 36
slack resources 70, 72–3, 87, 89
'smallness challenge' study see alliances, asymmetrical
social bricolage 12, 19–20
social capital
case demonstrating 55–65
definition 52
and social enterprises 24–5
substitution with financial capital 9
social enterprise
compared with commercial enterprise 6–7, 9–10
defining 6
practicing entrepreneuring as processual phenomenon 7, 16
processual character of 6
work integrating 7, 9–10, 12, 17
social entrepreneuring
field research
background and design 13–14
implications for further research
25
methodology 14–16
processual practices 19–24
structural practices 16–19
study conclusions 24–5
practice theory 10–12
previous research 12–13
social enterprises 6–7
social entrepreneurship 8–10
social franchising see franchising
social identity 18–19
social networks
mobilizing equity crowdfunding
36
and provision of information 38, 42
use in accessing start-up finance
30
social proximity
as driver in CMD development 186
and innovation 175–6
social relationships 105, 111
'soft' people-centred activities
of business angels 53
case demonstrating 55–64
as category of non-financial contributions 50
Sokol, L. 148–9
Sorensen, I.E. 31–2, 36
Sørheim, R. 51–3
sounding board/strategic role
case demonstrating 55–65
as role through which non-financial contributions are delivered 52
Stam, E. 73–4
start-up behaviour
after graduation, as dependent variable 153
attitudes and subjective norm having no direct effect on 156
gender as factor influencing 151, 155
perceived behavioural control having direct effect on 149
value in predicting 155
statistical significance of intentions explaining 154
Steyaert, C. 6–7, 16, 54
structural practices 16–19
Stuart, T.E. 96, 110, 119
supervision and monitoring role
case demonstrating 55–65
as role through which non-financial contributions are delivered 52
tacit knowledge 14, 173–4, 176, 184, 186
Takeuchi, H. 10, 174
Tarrazon, M.-A. 150–51
technological capabilities 180, 182, 185–7
technological proximity
case study approach 99–100
definitions and characteristics 98
degree of between alliance partners 97
method of categorizing 100
functions 95
influence of 105–8
study findings 110–11
technology, shared understanding of 105, 110–11
theory of planned behaviour (TPB) 147–50
Tödtling, F. 173, 175
Torre, A. 94–5, 98, 100, 109
traditional financing methods 30, 35–6
triple helix 181, 185, 187
Trippl, M. 173, 175
Unilever PLC 169, 171, 176–87
universities in entrepreneurship
in Finland 121–2, 124–5, 127, 132, 134, 138–40
in Russia 122–3, 125, 132, 138–40
university–industry collaboration
case study approach 100
context and objectives of study 168–9
developing research partnerships 171–3
firm-level and ecosystem-level studies 169–70
funding 169, 178–85
individual agency 175–6, 186
individuals 177, 182–3, 186
institutional context 185
main findings contexts 178–9
case demonstrating 55–65
as role through which non-financial contributions are delivered 52
### Entrepreneurship, universities & resources

<table>
<thead>
<tr>
<th>Author</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wieck, E.</td>
<td>31, 33</td>
</tr>
<tr>
<td>Wikhamn, B.</td>
<td>169–70, 173</td>
</tr>
<tr>
<td>Wikhamn, W.</td>
<td>169–70, 173</td>
</tr>
<tr>
<td>Wilson, D.C.</td>
<td>12, 18</td>
</tr>
<tr>
<td>Wilson, F.</td>
<td>149–50</td>
</tr>
<tr>
<td>Work integrating enterprises</td>
<td>7, 9–10, 12, 17</td>
</tr>
<tr>
<td>Yang, H.</td>
<td>94, 96, 108, 110</td>
</tr>
<tr>
<td>Yinenpää, H.</td>
<td>168, 186</td>
</tr>
<tr>
<td>Yordanova, D.</td>
<td>150–51</td>
</tr>
<tr>
<td>Zaheer, S.</td>
<td>74, 94</td>
</tr>
<tr>
<td>Zahra, S.A.</td>
<td>8, 36, 70, 73, 76</td>
</tr>
<tr>
<td>Zhang, Y.</td>
<td>146, 150</td>
</tr>
</tbody>
</table>