Page numbers: bold = table, italics = figure.

```
ability to, 47, 48 see whole
                                                     ascending from abstract to concrete, 20-22, 23,
abstract and concrete (dialectics), 20-22
                                                           24, 25, 27, 29, 74, 76, 78
Ackoff, R. L., 59
                                                        Anne case study, 104, 104, 105, 107, 108
action-level concepts, 18
                                                        core of expansive learning, 140
activities (Rosch), 38
                                                        dialectical theory, 79, 140
activity
                                                        embodied germ cell at work, 89
  concepts, 19
                                                        Finnish Housing First 2.0, 175-177
  oriented towards object, 18
                                                        formation of theoretical concepts, 30
  unit of analysis, 18
                                                        formative interventions, 32
activity areas, 49
                                                        germ cell, 79-81
activity in lead (collective concept formation, qv), 139
                                                        Herttoniemi Food Cooperative (qv) case, 146
activity systems, 18, 19, 30, 39
                                                        long haul, 175-177
activity theory, 35
                                                        possibilities of innovation, 30
  most important philosopher (Ilyenkov), 20
                                                        spiral-like logic, 154
activity theory (four generations), 17-20
                                                        standing up from chair, 6
  1st generation, 18
                                                        stepwise emergence of theoretical concepts
  2nd generation, 18
                                                           (Davydov), 141
  3rd generation, 18-19
                                                     ascending from abstract to concrete: model
  4th generation, 19
                                                           implementation (Anne case study), 93-101
activity-level concepts, 18, 30
                                                        trail 1: straightening back and gaining better
activity-theoretical perspective
                                                           posture, 94
  "situations" versus "activities," 38
                                                        trail 2: taking regular walks, 94
actual-empirical analysis, 26
                                                        trail 3: using sit-to-stand as diagnostic aid, 97
adhocracy: definition, 150
                                                        trail 4: teaching relatives to do mobility
agency, 16, 71, 78, 109, 114
                                                           exercises, 97
Alberta (Canada): homelessness issue, 169
                                                        trail 5: setting table, 98
Amit, R., 35
                                                        trail 6: being in better mood, taking care of
Anderson, I., 51
                                                           oneself, 98
Anderson-Baron, J. T., 169
                                                     Assertive Community Treatment (ACT) team,
anomalies, 44, 45
  turned into "categories," 45
                                                     autonomy, 85, 107, 145
anticipatory directionality (Fogel), 112
appropriate spiraling (Cussins), 9, 140
                                                     Baker, T., 159
                                                     Bal, A.: in footnote at page \rightarrow, 66
archetypes, 34
artifacts, 105, 107, 110, 184
                                                     Bartunek, J. M., 34
  planned use, 128
                                                     Bazerman, C., xiii, 57
  use (critical encounters between HCWs and
                                                     Beckett, R. C., 35
     elderly clients), 116-124
                                                     Beghetto, C. A., 154
  use (relationship with volitional action), 119
                                                     Begriff (German, 'concept'), 1
```

blackboxing, 9	classification concepts, 6, 57, 183
blood pressure, 97, 119, 122, 126, 127, 128, 135	epistemic potential, 41
Blunden, A.: in footnote, 20	classification systems, 43, 44
bodily movements, 79, 80	clinical pathways, 50
boomerang flu, 138	clock, 17
Bothello, J., 35–36	co-configuration, 68, 69, 75
boundary crossing (Engeström et al.), 112	co-creation pathways, 57
boundary problem, 124	thought of as 'plans', 58
definition, 112	cognition
Bowker, G., 2, 43, 44	"culturally situated," 3
Bratus, B. S., 112	radically distributed societal and dialogical
Brock, D. M., 34	nature, 11
Brook, C., 29	cognitive objects, 8
Brooks, R. A., 37, 41	cognitive trails (Cussins), 8–10, 105, 140
	emergence of concepts as result of density and
capitalism, 20, 27, 28	stabilization of, 142
sustainable alternatives, xiv	gaps in theory, 141
care pathways, 50	networks, 9
definition (Schrijvers et al.), 50	powerful foundation, 141
prescriptive and normative, 57	Cole, M., 2
thought of as "scripts," 58	Cole, R. E., 179
Carroll, L.: Hunting of Snark, 151	collective activity, 30, 77
Casas-Cortés, M. I., 36	collective concept formation, 32, 34, 114, 184
categories, 43–49	creation dynamics, 140
emergence, 44	essence, 83
perspectives, 44	evolution versus design, 178–181
categorization research: challenges (Delmestri	long process, 139
et al.), 43	most important challenge, 153
categorization: prototype theory (Rosch), 38	collective concept formation as creation at work,
category change, category formation: anomalies	138–155
as generative mechanisms, 44	concept formation as movement in space
causal loop diagramming, 59	(working hypothesis), 140–143
Center for Research on Activity, Development	concept formation with name in lead, 149–152 concept formation with named partial
and Learning (CRADLE), xiii	
Chamberlain, C., 51	solutions in lead, 146–149
change action, 180 definition, 112	concept formation with practice in lead,
Change Laboratories, 32, 181	food cooperative case, 146, 140
greenhouse vegetable producers, 60–66	food cooperative case, 146–149 home care case, 152–153
homelessness (city-level, Tampere, 2019),	library case, 149–152
166–167	three cases (contradictions), 143–146
homelessness (eradication in Finland),	Collins, D., 169
157	commodity: germ cell of capitalism (Marx), 20,
homelessness action plan (2020), 164–165	27
homelessness pathways, 52–57	communities, xiii, 13, 24, 36, 44, 159
knotworking in library, 66–76, 150, 180, 182	community of practice, 13, 44
surgical operating unit, 45–49	concept
Chartres cathedral, 37–38	"concrete abstraction" (Davydov), 21
chores, See daily chores	constant movement (Cussins), 10
Cicourel, A., 2	dialectical perspective, 3, 21
Clark, A., 80	dual meaning, 1
classification, 43–49	English word related to "conceiving," 1
definition (Bowker and Star), 43	expressed in movement and action, 21
definition (Merriam-Webster), 43	formal-logical understanding, 20
divide, define, fill, 49	nature (collective and evolving), 2, 3
,, 12	

concept (cont.)	first lessons, 6, 8-14
origin, 22	concepts formed in wild
qualitativelydifferent kinds, 15, 30	confrontation, contestation, negotiation,
use in studies of management fashions, 35	hybridization, 30
view of Greeno and van de Sande, 106	polyvalent, debated, dynamic, 30
concept formation, xiii, 6, 138	conceptual blending, 12
Anne case study, 86–108	conceptual change, 33, 138
dialectical theory, 105	conceptual combination, 138
dimensions, 4	conceptual history, 35
everyday work, 109–137	conceptual instrumentality, 77
everyday work (conclusion), 134–137	conceptual structure, 11
formative interventions, 181	conceptualization efforts, 111, 116, 131, 135,
four fields, 5	136, 137
historical sociology (Somers), 35	connected to restrictive and expansive artifact
horizontal dimension, 15	uses, 122
image, 36	definition, 113
interplay with double stimulation, 7	five key types, 137
lengthy process, 141	mobility-oriented, 122
long haul (homelessness), 156–177	relationship with artifact uses, 122
messy worlds of everyday life, 2, 3	conceptualization: first task (systems models), 5
new study agenda proposed, 7	conflict of motives, 17, 27, 71, 89, 98, 103, 111
organizations, 33	113, 114, 125, 126, 129, 131
pedagogical challenge, 22–25	appears in two forms, 110
reflective, 101	articulation (Anne case study), 90–92
transcendent process (Cussins), 10	articulation data, 90
uncertainty, change, and future-orientation,	critical encounters, 112
13	surface between key actors in work activity,
work activity (Bay of Bengal fishing boats),	109
39-42	trigger for double stimulation processes, 109
Concept Formation and Volition in	contradictions, 12, 13, 19, 27, 31, 112, 143–146
Collaborative Work (research project), xiii	162, 163, 165, 181, 184
concept formation in wild	control, 46
advice for interventionist researchers, 181	cracks between services, 162, 165, 173
characteristics, 13	creativity, 138
collective creation, 5	Big-C versus little-c, 154, 155
consequences, 178–184	Pro-c, 154
educational implications, 183–184	work-related (new angle), 155
first lessons, 14	critical auxiliary artifact, 63
fluid, multifaceted, 36	critical encounters
guiding study ideas, 30–31	conceptual model, 110
identification as research challenge, 33	conflict of motives, 112
intertwined with generation of transformative	definition, 111
agency, 31	Engeström, 110
movement along two dimensions, 143	explanatory potential, 137
processes, 7	"not linear events," 111
Concept Formation in Wild	structure, III
book focus, 5, 22	target of two actors, 112, 113, 114
book point of view, 32	use of artifacts (incidental versus planned),
meaning of "in wild," 6	116, 119, 135
concept formation in wild (locating), 1-7	use of artifacts (restrictive versus expansive),
	_
putting concept formation in wild on map, 3–6	critical encounters between home care workers
sources of inspiration and insight, 2-3	and elderly clients, 114–137
concept formation in wild (theorizing ~)	artifacts (incidental versus planned use), 117
cultural-historical activity theory, 6, 15–32	artifacts (restrictive and expansive use), 117
carraia indicate activity theory, 0, 1) - 12	artifacto (restrictive and expansive use), 11/

artifact-use (overview), 116–124	debate, 141
home care visits (five profiles), 116	decontextualization, 54
methods of analysis, 115–116	Deerfoot (Nopsajalka) mobile homelessness
setting and data, 115	service, 166–177
volitional action connected to restrictive and	Deerfoot novels (Ellis), 166
expansive uses of artifacts, 122	degrowth, <i>See</i> expansive degrowth
critical encounters between home care workers	Deguine, J. P., 60
and elderly clients (four case studies),	deliberate non-action (Brook), 29
124–134	Delmestri, G., 44
case (1), 124–126, 135, 136	diagnosis, 66, 76
case (2), 126–128, 136	Diagnostic and Statistical Manual (DSM-5), 44
case (2) summary of components, 128	dialectics, 6, 30, 34
case (3), 129, 133, 136	abstract and concrete, 20-22
case (3): taking out trash bag together, 130	concept formation as pedagogical challenge,
case (4), 131–134, 136	22-25
case (4) analysis, 134	concepts as theoretical generalizations, 107
different ways of using artifacts, 135	germ cell concept, 158
expansive uses of artifacts (cases 3 and 4),	dialogical triad, 10
129-134	distributed cognition, 13
restrictive uses of artifacts (cases 1 and 2),	"doing for" versus "doing together," 131
124-128	domesticated mind (Goody), 6
criticism of past failures, 54	double stimulation, 15–17, 31, 98, 108, 147
cultural-historical activity theory, 3, 6, 7, 14,	construction and functioning (lengthy iterative
15-32, 34	process), 131, 133, 136
ascending from abstract to concrete, 20-22	formative interventions, 32
concept formation as pedagogical challenge,	"idea of central importance," 16
22-25	interplay with concept formation, 7
double stimulation, 15–17	phase structure model (Sannino), 16, 109,
everyday and scientific concepts, 15	110, 114, 131
formative interventions, 31–32	true test, 17
four generations of activity theory, 17–20	double stimulation and concept formation in
from classroom into wild, 23–27	everyday work, 109–137
from dichotomy to diversity, 27–32	conclusion, 134–137
germ cell, 27–29	setting and data, 114–115
guiding ideas for study of concept formation	theoretical framework, 111–114
in wild, 30–31	Duijn, S. van, 165
culturally-novel concepts, 5, 17, 26	Dunlop, T., 157
collective creation, 5	Durand, R., 43
Cussins, A., 11, 12, 105, 140–142, 154	dwelling: apt characterization, 42
theory of cognitive trails, 8–10, 140, <i>142</i>	
	ego-alter-object: dynamic semiotic triangle, 10
daily chores, 82, 87–88 , 91 , 131, 132, 145	elderly people, 78–108
integration of mobility exercises, 81, 83, 103,	critical encounters with HCWs, 114–137
107, 114, 122, 131, 133, 146	safety versus autonomy, 84
Davydov, V. V., 2, 15, 21, 25, 30, 78, 80,	embedded librarianship concept, 150
140–142, <i>141</i> , 154	embodied cognition, 8, 79, 80, 140
concept formation as pedagogical challenge,	embodied germ cell, 78–108
22-25	embodied social interaction, 81, 105
concept formation viewed as vertical process,	embodied thinking and acting, 81
141	emerging concepts, 75, 137, 142, 146
learning activity (ideal sequence), 25, 26	practical enactment but only partial naming
powerful foundation for further work, 141	and stabilization, 29
theory of formation of theoretical concepts, 30	
Types of Generalization in Instruction (1990	(gap/discrepancy), 139
[1972]), 2, 22, 23	empirical concepts, 2, 23, 30, 32

energy efficiency, 158 "motherhood concept" (Dunlop), 157	Finland: Ministry of Environment, 167 Finland: Ministry of Social Affairs, 167
Engosträm V % 10% 11% 15% 15%	
Engeström, Y., 83, 108, 115, 154, 167 activity theory (fourth generation), 19	Finland: National Audit Office, 106 Finnish Housing First (FHF), 160, 162, <i>See also</i>
environmentalism, 35, 36	Housing First
evolution as transnational process, 35	basic principle, 169
envisioning, 74	contradictions between substances and home
form of transformative agency, 74	(solution), 165
epistemic actions: ideal-typical sequence, 80	germ cell concept, 162–164
epistemic potential, 33	key differences from Pathways Housing First,
classification concepts, 49	161–162
germ cell concepts, 76	principle, 164
process concepts, 57–58	Finnish Housing First 2.0, 7, 181, 183, 184
prototype concepts, 41–42	ascending from abstract to concrete (long
systems concepts, 66	haul), 175–177
escorted transfer, 172, 173–177	germ cell, 167, 173–175
elements, 174	new contradiction (solution), 173
service integration, 173	new contradiction (to be faced), 168–172
Evans, J., 159	Finnish Housing First 2.0 (winding road),
everyday cognition, 5	164–168
everyday concepts, 15, 23	foundational principle (germ cell) not yet
everyday thinking, 22	formulated, 165
"inconvenient object of logical analysis"	key steps, 169
(Ilyenkov), 22	six sections (36 recommended actions), 165
everyday work: double stimulation and concept	first stimulus (mirror data), 71, 113, 114
formation, 109–137	Knotworking in Library project, 69
evolution and design, 178-181	fishing boats, 6, 39–42
fluid interplay and hybridization, 179	Fitzpatrick, S., 51
germ cell concepts, 180	Fogel, A., 112
expansive concepts: building ~, 78–108	food cooperative, See Herttoniemi Food
expansive cycle, 26, 80	Cooperative
expansive degrowth, 7, 29, 66, 146, 147, 153, 175	formal concepts (Greeno), 3, 4, 138
strong evolution, weak design, 179	formative interventions, xiv, 7, 31–32, 108
expansive learning, 3, 27, 28, 154, 184	epistemological and methodological principles
epistemic actions (typical sequence of seven),	32
25–26	in concept formation, 181
expansion of Davydov's work, 25	frailty, 84, 94, 108, 145, 181
generates tangible solutions, 147	biological basis, 82
leads to integrative conceptualizations,	clinical features, 82
147	Frasergunj (Bay of Bengal), 39, 42
14/	fishing boats, 40
Faces: Stories of Homelessness (Pyyvaara and	functional concepts, 6, 111, 113, 139
Timonen, 2017), 52	approaches and attempts, 34–37
facial expressions, 103, 105	basic types (identification), 33
falls, 82, 107, 129, 145	characteristics, 76
family caregiver (Finnish context), 132	definition, 33
Fauconnier, G., 37	formation, 34
fear, 46, 92	future research, 183
FeedNavigator, 69, 70, 71, 74	future-making devices, 183
Finland, 159	Greeno, 3
national program for prevention of	interplay, 181–183
homelessness (2016–2019), 156	most demanding but most impactful type
social welfare services (siloed character), 162, 165	(germ cells), 162
success in reducing homelessness (2008–),	organized productive activities, 33–77
156, 161	pyramid, 182

germ cell concepts, 66–76 process concepts, 58–74 prototype concepts, 37–42 systems concepts, 59–66 future-orientation, 13, 54, 115, 116 , 139, 184 germ cell, 21, 24, 30, 140, 146, 153 ascending from abstract to concrete, 79–81 characteristics, 27 core of concept (dialectical perspective), 158 criteria, 84 crucial role (ascent from abstract to concrete), 27, 80 expansive degrowth (qv), 147 Finnish Housing First, 162–164 Finnish Housing First 2.0, 167, 173–175 formation, 89 formation (Anne case study), 92 formation (Anne case study), 92 multi-directional expansion, 101 standing up from chair, 124 standing up from chair (home care), 81–85 starting point of theoretical concept, 27 germ cell concepts, 67, 66–76, 172, 175, 181, 183 epistemic potential, 76 evolution and design, 180 Herttoniemi Food Cooperative, 66, 140, 143–144, 181 activity systems (developmental concept formation with named partial solutions in lead, 146–149, 153 discrepancy between income and expenditure, 148 illustration of "germ cell" idea, 27–30 limiting number of members, 148, 149 membership turnover problem, 147 movement towards expansive degrowth concept, 149 hierarchy, 74, 182 historical-genetic analysis: purpose, 26 historicity, 181 Holzkamp, K.: in footnote, 182 home care, 6, 110, 140, 145–146, 180, 181 activity systems (developmental contradictions), 144 concept formation with named partial solutions in lead, 146–149, 153 discrepancy between income and expenditure, 148 illustration of "germ cell" idea, 27–30 limiting number of members, 148, 149 membership turnover problem, 147 movement towards expansive degrowth concept, 149 hierarchy, 74, 182 historical-genetic analysis: purpose, 26 historicial-genetic analysis: purpose, 26 concept formation with practice in lead, 152–153 cost-efficiency versus long-term effectiveness, 145 mobility challenge, 81–85 paradox, 82 physical mobility, 78–108	functional concepts (types)	Helsinki Health Centre Strategy and Balanced
process concepts, \$8-74 prototype concepts, \$7-42 systems concepts, \$7-42 systems concepts, \$7-66 future-orientation, 13, 54, 115, 116, 139, 184 germ cell, 21, 24, 30, 140, 146, 153 ascending from abstract to concrete, 79-81 characteristics, 27 core of concept (dialectical perspective), 158 criteria, 84 criteria, 84 criteria, 84 promish Housing First, 162–164 Finnish Housing First, 162–164 Finnish Housing First, 20, 167, 173–175 formation, 89 formation data, 93 Herttoniemi Food Cooperative, 27-29 multi-directional expansion, 101 standing up from chair, 124 standing up from chair (home care), 81–85 starting point of theoretical concept, 27 germ cell model examination (Anne case study), 92 evolution and design, 180 germ cell model examination (Anne case study), 92 examination (Anne, 28 germ cell model examination (Anne, 28 estures, 80, 89, 103, 105, 115 Goodwin, Chuck, 2 Goodwin, Chu	classifications and categories, 43-49	Score Card document for 2011–2013, 106
prototype concepts, 37–42 systems concepts, 59–66 future-orientation, 13, 54, 115, 116, 139, 184 germ cell, 21, 24, 30, 140, 146, 153 ascending from abstract to concrete, 79–81 characteristics, 27 core of concept (dialectical perspective), 158 criteria, 84 crucial role (ascent from abstract to concrete), 27, 80 expansive degrowth (qv), 147 Finnish Housing First, 162–164 Finnish Housing First, 20, 167, 173–175 formation (Anne case study), 92 formation (Anne case study), 92 formation data, 93 Herttoniemi Food Cooperative, 27–29 multi-directional expansion, 101 standing up from chair, 124 standing up from chair, 124 standing up from chair, 126 germ cell model examination (Anne case study), 92 examination data, 92 Goodwin, Chuck, 2 Goodwin, Chu		Herttoniemi Food Cooperative, 66, 140,
contradictions), 1,4 germ cell, 21, 24, 30, 140, 146, 153 ascending from abstract to concrete, 79–81 characteristics, 27 core of concept (dialectical perspective), 158 criteria, 84 crucial role (ascent from abstract to concrete), 27, 80 expansive degrowth (qv), 147 Finnish Housing First, 162–164 Finnish Housing First, 20, 167, 173–175 formation, 89 formation (Anne case study), 92 formation data, 93 Herttoniemi Food Cooperative, 27–29 multi-directional expansion, 101 standing up from chair, 124 standing up from chair (home care), 81–85 starting point of theoretical concept, 27 germ cell concepts, 6, 7, 66–76, 172, 175, 181, 183 episternic potential, 76 evolution and design, 180 germ cell model examination (Anne case study), 92 examination (Anne case study), 92 german Democratic Republic, 2 german Democratic Republic, 2 german Democratic Republic, 2 german Democratic Republic, 2 germer, 1, R., 112 Goodwin, Chuck, 2 Goo	process concepts, 58–74	143-144, 181
future-orientation, 13, 54, 115, 116, 139, 184 germ cell, 21, 24, 30, 140, 146, 153 ascending from abstract to concrete, 79–81 characteristics, 27 core of concept (dialectical perspective), 158 criteria, 84 crucial role (ascent from abstract to concrete), 27, 80 expansive degrowth (qv), 147 Finnish Housing First, 162–164 Finnish Housing First, 162–164 Finnish Housing First 2.0, 167, 173–175 formation, 83 Herttoniemi Food Cooperative, 27–29 multi-directional expansion, 101 standing up from chair (home care), 81–85 starting point of theoretical concept, 27 germ cell model examination (Anne case study), 92 examination data, 92 German Democratic Republic, 2 gestures, 80, 89, 103, 105, 115 Goodwin, Chuck, 2 Goodyin, Chuck, 2 Goodyin, Chuck, 2 Goodyin, Chuck, 2 Goodyin, Chock, 2 Goodyin, Chock, 2 Goodyin, Chock, 3 Greeno, J. G., Xiii, 2, 3, 33, 106, 138 "formal concepts, 33 Greenstein, D., 66–67 Griesemer, J. R., 112 Gromyko, Y., 24 Hannan, M. T., 36 HCWs, Sze home-care workers heedful interrelating (Weick and Roberts), 42 Hegel, G. W. F., 11, 83 Helsinki, 27, 52, See also University of Helsinki library Helsinki City municipal home care, See home	prototype concepts, 37–42	activity systems (developmental
future-orientation, 13, 54, 115, 116, 139, 184 germ cell, 21, 24, 30, 140, 146, 153 ascending from abstract to concrete, 79–81 characteristics, 27 core of concept (dialectical perspective), 158 criteria, 84 crucial role (ascent from abstract to concrete), 27, 80 expansive degrowth (qv), 147 Finnish Housing First, 162–164 Finnish Housing First, 162–164 Finnish Housing First 2.0, 167, 173–175 formation, 83 Herttoniemi Food Cooperative, 27–29 multi-directional expansion, 101 standing up from chair (home care), 81–85 starting point of theoretical concept, 27 germ cell model examination (Anne case study), 92 examination data, 92 German Democratic Republic, 2 gestures, 80, 89, 103, 105, 115 Goodwin, Chuck, 2 Goodyin, Chuck, 2 Goodyin, Chuck, 2 Goodyin, Chuck, 2 Goodyin, Chock, 2 Goodyin, Chock, 2 Goodyin, Chock, 3 Greeno, J. G., Xiii, 2, 3, 33, 106, 138 "formal concepts, 33 Greenstein, D., 66–67 Griesemer, J. R., 112 Gromyko, Y., 24 Hannan, M. T., 36 HCWs, Sze home-care workers heedful interrelating (Weick and Roberts), 42 Hegel, G. W. F., 11, 83 Helsinki, 27, 52, See also University of Helsinki library Helsinki City municipal home care, See home	systems concepts, 59–66	contradictions), 144
germ cell, 21, 24, 30, 140, 146, 153 ascending from abstract to concrete, 79–81 characteristics, 27 core of concept (dialectical perspective), 158 criteria, 84 criteria, 84 criteria, 84 Finnish Housing First, 162–164 Finnish Housing First, 162–164 Finnish Housing First, 2.0, 167, 173–175 formation, 89 formation (Anne case study), 92 formation data, 93 Herttoniemi Food Cooperative, 27–29 multi-directional expansion, 101 standing up from chair, 124 standing up from chair, 124 standing up from chair, 16me care), 81–85 starting point of theoretical concept, 27 germ cell model examination (Anne case study), 92 cexamination data, 92 German Democratic Republic, 2 gestures, 80, 89, 103, 105, 115 Goodwin, Candy, 2 Goody, J., 6 Google, 33, 71 Goodwin, Chuck, 2 Goody, J., 6 Google, 33, 71 gorbic cathedrals, 37–38 greenehouse vegetable producers (seasonal versus year-round -), 60–66 Greeno, J. 6, xiii, 2, 3, 33, 106, 138 "formal concepts," 33, 33 Greenstein, D., 66–67 Griesemer, J. R., 112 Gromyko, Y., 24 Hannan, M. T., 36 HCWs, See home-care workers heedful interrelating (Weick and Roberts), 42 Hegel, G. W. F., 11, 83 Helsinki, 27, 52, See also University of Helsinki library Helsinki City municipal home care, See home	future-orientation, 13, 54, 115, 116 , 139, 184	concept formation with named partial
ascending from abstract to concrete, 79–81 characteristics, 27 core of concept (dialectical perspective), 158 criteria, 84 crucial role (ascent from abstract to concrete), 27, 80 expansive degrowth (qv), 147 Finnish Housing First, 162–164 Finnish Housing First, 2.0, 167, 173–175 formation, 89 formation (Anne case study), 92 formation (Anne case study), 92 multi-directional expansion, 101 standing up from chair, 124 standing up from chair, 124 standing up from chair (home care), 81–85 starting point of theoretical concept, 27 germ cell concepts, 6, 7, 66–76, 172, 175, 181, 183 epistemic potential, 76 evolution and design, 180 germ cell model examination (Anne case study), 92 gestures, 80, 89, 103, 105, 115 Goodwin, Candy, 2 Goodwin, Candy, 2 Goodwin, Candy, 2 Goodwin, Candy, 2 Gremsan Democratic Republic, 2 gestures, 80, 89, 103, 105, 115 Goodwin, Chuck, 2 Greenstein, D., 66–66 Greeno, J. G., xiii, 2, 3, 33, 106, 138 "formal concepts," 33 Greenstein, D., 66–67 Griesemer, J. R., 112 Gromyko, Y., 24 Hannan, M. T., 36 HCWs, See home-care workers heedful interrelating (Weick and Roberts), 42 Hegel, G. W. F., 11, 83 Helsinki, 27, 52, See also University of Helsinki library Helsinki City municipal home care, See home	germ cell, 21, 24, 30, 140, 146, 153	
characteristics, 27 core of concept (dialectical perspective), 158 criteria, 84 crucial role (ascent from abstract to concrete), 27, 80 expansive degrowth (qp), 147 Finnish Housing First, 162–164 Finnish Housing First 2.0, 167, 173–175 formation, 89 formation (Anne case study), 92 formation data, 93 Herttoniemi Food Cooperative, 27–29 multi-directional expansion, 101 standing up from chair, 124 standing up from chair (home care), 81–85 starting point of theoretical concept, 27 germ cell concepts, 67, 766–76, 172, 175, 181, 183 epistemic potential, 76 evolution and design, 180 germ cell concepts, 67, 766–76, 172, 175, 181, 183 epistemic potential, 76 evolution and design, 180 germ cell concepts, 67, 766–76, 172, 175, 181, 183 epistemic potential, 76 evolution and design, 180 germ cell model examination (Anne case study), 92 examination data, 93 German Democratic Republic, 2 gestures, 80, 89, 103, 105, 115 Goodwin, Candy, 2 Goody, J., 6 Google, 33, 71 goothic cathedrals, 37–38 greenhouse vegetable producers (seasonal versus year-round -), 60–66 Greeno, J. G., xiii, 2, 3, 33, 106, 138 "formal concepts," 33 Greenstein, D., 66–67 Griesemer, J. R., 1112 Gromyko, Y., 24 Hannan, M. T., 36 HCWs, See home-care workers heedful interrelating (Weick and Roberts), 42 Hegel, G. W. F., 11, 83 Helsinki, 27, 52, See also University of Helsinki library Helsinki City municipal home care, See home		
core of concept (dialectical perspective), 158 criteria, 84 criteria,	• · · · · · · · · · · · · · · · · · · ·	
criteria, 84 crucial role (ascent from abstract to concrete), 27, 80 expansive degrowth (qv), 147 Finnish Housing First, 162–164 Finnish Housing First, 2.0, 167, 173–175 formation, 89 formation (Anne case study), 92 formation data, 93 Herttoniemi Food Cooperative, 27–29 multi-directional expansion, 101 standing up from chair, 124 standing up from chair (home care), 81–85 starting point of theoretical concept, 27 germ cell concepts, 6, 7, 66–76, 172, 175, 181, 183 epistemic potential, 76 evolution and design, 180 germ cell model examination (Anne case study), 92 examination data, 92 German Democratic Republic, 2 gestures, 80, 89, 103, 105, 115 Goodwin, Candy, 2 Goodwin, Chuck, 2 Goodwin, Chuck, 2 Goodwin, Chuck, 2 Goodwin, Chuck, 2 Goody, J., 6 Google, 33, 71 gothic cathedrals, 37–38 greenhouse vegetable producers (seasonal versus year-round -), 60–66 Greeno, J. G., xiii, 2, 3, 33, 106, 138 "formal concepts, 33 Greenstein, D., 66–67 Griesemer, J. R., 112 Gromyko, Y., 24 Hannan, M. T., 36 HCWs, See home-care workers Heedful interrelating (Weick and Roberts), 42 Hegel, G. W. F., 11, 83 Helsinki, 27, 52, See also University of Helsinki library Helsinki City municipal home care, See home		
crucial role (ascent from abstract to concrete), 27, 80 expansive degrowth (qv), 147 Finnish Housing First, 162–164 Finnish Housing First 2.0, 167, 173–175 formation, 89 formation (Anne case study), 92 formation data, 93 Herttoniemi Food Cooperative, 27–29 multi-directional expansion, 101 standing up from chair, 124 standing up from chair (home care), 81–85 starting point of theoretical concept, 27 germ cell concepts, 6, 7, 66–76, 172, 175, 181, 183 epistemic potential, 76 evolution and design, 180 germ cell model examination (Anne case study), 92 examination data, 92 German Democratic Republic, 2 gestures, 80, 89, 103, 105, 115 Goodwin, Chuck, 2 Goody, J., 6 Google, 33, 71 gorbic cathedrals, 37–38 greenhouse vegetable producers (seasonal versus year-round -), 60–66 Greeno, J. G., xiii, 2, 3, 33, 106, 138 "formal concepts," 33 Greenstein, D., 66–67 Griesemer, J. R., 112 Gromyko, Y., 24 Hegel, G. W. F., 11, 83 Helsinki, 27, 52, See also University of Helsinki library Helsinki City municipal home care, See home		
concept, 149 hierarchy, 74, 182 historical-genetic analysis: purpose, 26 historicity, 181 Holdzkamp, K.: in footnote, 182 home care, 6, 110, 140, 145–146, 180, 181 activity systems (developmental contradictions). 146 concepts, 67, 66–76, 172, 175, 181, 183 epistemic potential, 76 evolution and design, 180 germ cell concepts, 67, 66–76, 172, 175, 181, 183 epistemic potential, 76 evolution and design, 180 germ cell model examination (Anne case study), 92 examination data, 92 German Democratic Republic, 2 gestures, 80, 89, 103, 105, 115 Goodwin, Chuck, 2 Goodwin, Chuck, 2 Goodwin, Chuck, 2 Goodwin, Chuck, 2 Goody, J., 6 Google, 33, 71 gothic cathedrals, 37–38 greenhouse vegetable producers (seasonal versus year-round -), 60–66 Greeno, J. G., xiii, 2, 3, 33, 106, 138 "formal concepts," 33 Greenstein, D., 66–67 Griesemer, J. R., 112 Gromyko, Y., 24 Hegel, G. W. F., 11, 83 Helsinki, 27, 75, 28e also University of Helsinki library Helsinki City municipal home care, See home- home-care workers heedful interrelating (Weick and Roberts), 42 Heglishki City municipal home care, See home- home-care workers heedful interrelating (Weick and Roberts), 42 Heglishki City municipal home care, See home- hierarchy, 74, 182 historical-genetic analysis: purpose, 26 historicity, 181 Holzkamp, K.: in footnote, 182 home care, 6, 110, 140, 145–146, 180, 181 activity systems (developmental contradictions), 146 concept formation with practice in lead, 152–153 cost-efficiency versus long-term effectiveness, 145 mobility challenge, 81–85 paradox, 82 physical mobility, concept, 754 home-care workers (HCWs), 107, 145 critical encounters with elderly clients, 114–137 high turnover, 86 Tina (Anne case study), 89, 90–103, 104, 105, 106, 108 homelessness, 7 concept formation over long haul, 156–177 permanence versus mobility, 170 prevalence, 156 security versus independence, 170 traditional approach ('staircase model'), 156, 163 homelessness action plan (Finland, 2020), 164–165 aim, 165 "possibility" (keyword), 165 homelessness pathways, 50–58, 18		
expansive degrowth (<i>qv</i>), 147 Finnish Housing First, 162–164 Finnish Housing First, 2.0, 167, 173–175 formation, 89 formation (Anne case study), 92 formation data, 93 Herttoniemi Food Cooperative, 27–29 multi-directional expansion, 101 standing up from chair, 124 standing up from chair, 124 standing up from chair (home care), 81–85 starting point of theoretical concept, 27 germ cell concepts, 6, 7, 66–76, 172, 175, 181, 183 epistemic potential, 76 evolution and design, 180 germ cell model examination (Anne case study), 92 examination data, 92 German Democratic Republic, 2 gestures, 80, 89, 103, 105, 115 Goodwin, Chuck, 2 Goody, J., 6 Google, 33, 71 gothic cathedrals, 37–38 greenhouse vegetable producers (seasonal versus year-round ~), 60–66 Greeno, J. G., xiii, 2, 3, 33, 106, 138 "formal concepts," 33 Greenstein, D., 66–67 Griesemer, J. R., 112 Gromyko, Y., 24 Hegel, G. W. F., 11, 83 Helsinki, 27, 52, See also University of Helsinki library Helsinki City municipal home care, See home-		
Finnish Housing First, 162–164 Finnish Housing First 2.0, 167, 173–175 formation, 89 formation (Anne case study), 92 formation data, 93 Herttoniemi Food Cooperative, 27–29 multi-directional expansion, 101 standing up from chair, 124 standing up from chair, 124 standing up from chair (home care), 81–85 starting point of theoretical concept, 27 germ cell concepts, 6, 7, 66–76, 172, 175, 181, 183 epistemic potential, 76 evolution and design, 180 germ cell model examination (Anne case study), 92 examination data, 92 German Democratic Republic, 2 gestures, 80, 89, 103, 105, 115 Goodwin, Chuck, 2 Goody, J., 6 Google, 33, 71 gorbic cathedrals, 37–38 greenhouse vegetable producers (seasonal versus year-round -), 60–66 Greeno, J. G., xiii, 2, 3, 33, 106, 138 "formal concepts, 33 Greenstein, D., 66–67 Griesemer, J. R., 112 Gromyko, Y., 24 Hegel, G. W. F., 11, 83 Helsinki, 27, 52, See also University of Helsinki library Helsinki City municipal home care, See home		
Finnish Housing First 2.0, 167, 173–175 formation, 89 formation (Anne case study), 92 formation data, 93 Hertteniemi Food Cooperative, 27–29 multi-directional expansion, 101 standing up from chair, 124 standing up from chair (home care), 81–85 starting point of theoretical concept, 27 germ cell concepts, 6, 7, 66–76, 172, 175, 181, 183 epistemic potential, 76 evolution and design, 180 germ cell model examination (Anne case study), 92 examination data, 92 German Democratic Republic, 2 gestures, 80, 89, 103, 105, 115 Goodwin, Candy, 2 Goodwin, Chuck, 2 Goody, J., 6 Goody, J., 6 Google, 33, 71 gothic cathedrals, 37–38 greenhouse vegetable producers (seasonal versus year-round –), 60–66 Greeno, J. G., xiii, 2, 3, 33, 106, 138 "formal concepts," 33 Greenstein, D., 66–67 Griesemer, J. R., 112 Gromyko, Y., 24 Hegel, G. W. F., 11, 83 Helsinki, 27, 52, See also University of Helsinki library Helsinki City municipal home care, See home		
formation, 89 formation (Anne case study), 92 formation data, 93 Herttoniemi Food Cooperative, 27–29 multi-directional expansion, 101 standing up from chair, 124 standing up from chair, 125 starting point of theoretical concept, 27 germ cell concepts, 6, 7, 66–76, 172, 175, 181, 183 epistemic potential, 76 evolution and design, 180 germ cell model examination (Anne case study), 92 examination (Anne case study), 93 examination (Anne case study), 94 examination (Anne case study), 89, 90–103, 104, 105, 106, 108 homelessness, 7 concept formation with practice in lead, 152–153 cost-efficiency versus long-term effectiveness, 145 mobility, 78–108 sustainable mobility, 78–108 sustainab		·
formation (Anne case study), 92 formation data, 93 Herttoniemi Food Cooperative, 27–29 multi-directional expansion, 101 standing up from chair, 124 standing up from chair (home care), 81–85 starting point of theoretical concept, 27 germ cell concepts, 6, 7, 66–76, 172, 175, 181, 183 epistemic potential, 76 evolution and design, 180 germ cell model examination (Anne case study), 92 examination (Anne case study), 92 examination data, 92 German Democratic Republic, 2 gestures, 80, 89, 103, 105, 115 Goodwin, Candy, 2 Goodwin, Chuck, 2 Goodwin, Chuck, 2 Goody, J., 6 Google, 33, 71 gothic cathedrals, 37–38 greenhouse vegetable producers (seasonal versus year-round -), 60–66 Greeno, J. G., xiii, 2, 3, 33, 106, 138 "formal concepts," 33 Greenstein, D., 66–67 Griesemer, J. R., 112 Gromyko, Y., 24 Hannan, M. T., 36 HCWs, See home-care workers heedful interrelating (Weick and Roberts), 42 Hegel, G. W. F., 11, 83 Helsinki, 27, 52, See also University of Helsinki library Helsinki City municipal home care, See home		
formation data, 93 Herttoniemi Food Cooperative, 27–29 multi-directional expansion, 101 standing up from chair, 124 standing up from chair (home care), 81–85 starting point of theoretical concept, 27 germ cell concepts, 6, 7, 66–76, 172, 175, 181, 183 epistemic potential, 76 evolution and design, 180 germ cell model examination data, 92 German Democratic Republic, 2 gestures, 80, 89, 103, 105, 115 Goodwin, Chuck, 2 Google, 33, 71 gothic cathedrals, 37–38 greenhouse vegetable producers (seasonal versus year-round -), 60–66 Greeno, J. G., xiii, 2, 3, 33, 106, 138 "formal concepts," 33 Greenstein, D., 66–67 Griesemer, J. R., 112 Gromyko, Y., 24 Hannan, M. T., 36 HCWs, See home-care workers heedful interrelating (Weick and Roberts), 42 Hegel, G. W. F., 11, 83 Helsinki, 27, 52, See also University of Helsinki library Helsinki City municipal home care, See home		
Herttoniemi Food Cooperative, 27–29 multi-directional expansion, 101 standing up from chair, 124 standing up from chair (home care), 81–85 starting point of theoretical concept, 27 germ cell concepts, 6, 7, 66–76, 172, 175, 181, 183 epistemic potential, 76 evolution and design, 180 germ cell model examination (Anne case study), 92 examination data, 92 Gordam, Candy, 2 Goodwin, Candy, 2 Goodwin, Candy, 2 Goodwin, Chuck, 2 Goody, J., 6 Google, 33, 71 gothic cathedrals, 37–38 greenhouse vegetable producers (seasonal versus year-round -), 60–66 Greeno, J. G., xiii, 2, 3, 33, 106, 138 "formal concepts," 33 Greenstein, D., 66–67 Griesemer, J. R., 112 Gromyko, Y., 24 Growth, 165 (amplitude), 112 Gromyko, Y., 24 (heglel, G. W. F., 11, 83 Helsinki, 27, 52, See also University of Helsinki library Helsinki City municipal home care, See home-care workers (here with practice in lead, 152–153 cost-efficiency versus long-term effectiveness, 152–153 cost-efficiency versus long-term effectiveness, 145 mobility challenge, 81–85 paradox, 82 physical mobility, 78–108 sustainable mobility concept, 154 home-care workers (HCWs), 107, 145 critical encounters with elderly clients, 114–137 high turnover, 86 Tina (Anne case study), 89, 90–103, 104, 105, 106, 108 homelessness, 7 concept formation over long haul, 156–177 permanence versus mobility, 170 prevalence, 156 security versus independence, 170 traditional approach ('staircase model'), 156, 163 homelessness action plan (Finland, 2020), 164–165 aim, 165 "possibility" (keyword), 165 homelessness pathways, 50–58, 183 categorization (examples), 51 change laboratory, 52–57 definition (Anderson and Tulloch), 51 descriptive (rather than normative), 57 notational template, 53 representations, 55		
multi-directional expansion, 101 standing up from chair, 124 standing up from chair, 124 standing up from chair (home care), 81–85 starting point of theoretical concept, 27 germ cell concepts, 6, 7, 66–76, 172, 175, 181, 183 epistemic potential, 76 evolution and design, 180 germ cell model examination (Anne case study), 92 examination data, 92 German Democratic Republic, 2 gestures, 80, 89, 103, 105, 115 Goodwin, Candy, 2 Goodwin, Candy, 2 Goodwin, Chuck, 2 Goody, J., 6 Google, 33, 71 gorthic cathedrals, 37–38 greenhouse vegetable producers (seasonal versus year-round -), 60–66 Greeno, J. G., xiii, 2, 3, 33, 106, 138 "formal concepts," 33 Greenstein, D., 66–67 Griesemer, J. R., 112 Gromyko, Y., 24 Hegel, G. W. F., 11, 83 Helsinki, 27, 52, See also University of Helsinki library Helsinki City municipal home care, See home		
standing up from chair, 124 standing up from chair, 124 standing up from chair (home care), 81–85 starting point of theoretical concept, 27 germ cell concepts, 6, 7, 66–76, 172, 175, 181, 183 epistemic potential, 76 evolution and design, 180 germ cell model examination (Anne case study), 92 examination data, 92 German Democratic Republic, 2 gestures, 80, 89, 103, 105, 115 Goodwin, Candy, 2 Goodwin, Chuck, 2 Goody, J., 6 Google, 33, 71 gothic cathedrals, 37–38 greenhouse vegetable producers (seasonal versus year-round -), 60–66 Greeno, J. G., xiii, 2, 3, 33, 106, 138 "formal concepts," 33 Greenstein, D., 66–67 Griesemer, J. R., 112 Gromyko, Y., 24 Hegel, G. W. F., 11, 83 Helsinki, 27, 52, See also University of Helsinki library Helsinki City municipal home care, See home	Herttoniemi Food Cooperative, 27–29	
standing up from chair (home care), 81–85 starting point of theoretical concept, 27 germ cell concepts, 6, 7, 66–76, 172, 175, 181, 183 epistemic potential, 76 evolution and design, 180 germ cell model examination (Anne case study), 92 examination data, 92 German Democratic Republic, 2 gestures, 80, 89, 103, 105, 115 Goodwin, Candy, 2 Goodwin, Chuck, 2 Goody, J., 6 Google, 33, 71 gothic cathedrals, 37–38 greenhouse vegetable producers (seasonal versus year-round -), 60–66 Greeno, J. G., xiii, 2, 3, 33, 106, 138 "formal concepts," 33 Greenstein, D., 66–67 Griesemer, J. R., 112 Gromyko, Y., 24 Hegel, G. W. F., 11, 83 Helsinki, 27, 52, See also University of Helsinki library Helsinki City municipal home care, See home	multi-directional expansion, 101	concept formation with practice in lead,
starting point of theoretical concept, 27 germ cell concepts, 6, 7, 66–76, 172, 175, 181, 183 epistemic potential, 76 evolution and design, 180 germ cell model examination (Anne case study), 92 examination data, 92 German Democratic Republic, 2 gestures, 80, 89, 103, 105, 115 Goodwin, Candy, 2 Goodwin, Chuck, 2 Goody, J., 6 Google, 33, 71 gothic cathedrals, 37–38 greenhouse vegetable producers (seasonal versus year-round -), 60–66 Greeno, J. G., xiii, 2, 3, 33, 106, 138 "formal concepts," 33 Greenstein, D., 66–67 Griesemer, J. R., 112 Gromyko, Y., 24 Greenoluse, I. R., 112 Gromyko, Y., 25 Greenoluse, I. R., 112 Gromyko, Y., 25 Greenol	standing up from chair, 124	152-153
germ cell concepts, 6, 7, 66–76, 172, 175, 181, 183 epistemic potential, 76 evolution and design, 180 germ cell model examination (Anne case study), 92 examination data, 92 German Democratic Republic, 2 gestures, 80, 89, 103, 105, 115 Goodwin, Candy, 2 Goodwin, Chuck, 2 Goody, J., 6 Google, 33, 71 gothic cathedrals, 37–38 greenhouse vegetable producers (seasonal versus year-round -), 60–66 Greeno, J. G., xiii, 2, 3, 33, 106, 138 "formal concepts," 33 Greenstein, D., 66–67 Gresemer, J. R., 112 Gromyko, Y., 24 Helsinki, 27, 52, See also University of Helsinki library Helsinki City municipal home care, See home	standing up from chair (home care), 81–85	cost-efficiency versus long-term effectiveness,
epistemic potential, 76 evolution and design, 180 germ cell model examination (Anne case study), 92 examination data, 92 German Democratic Republic, 2 gestures, 80, 89, 103, 105, 115 Goodwin, Candy, 2 Goodwin, Chuck, 2 Goody, J., 6 Google, 33, 71 gothic cathedrals, 37–38 greenhouse vegetable producers (seasonal versus year-round -), 60–66 Greeno, J. G., xiii, 2, 3, 33, 106, 138 "formal concepts," 33 Greensein, D., 66–67 Griesemer, J. R., 112 Gromyko, Y., 24 Gromyko, Y., 24 Helsinki, 27, 52, See also University of Helsinki library Helsinki City municipal home care, See home	starting point of theoretical concept, 27	145
evolution and design, 180 germ cell model examination (Anne case study), 92 examination data, 92 German Democratic Republic, 2 gestures, 80, 89, 103, 105, 115 Goodwin, Candy, 2 Goodwin, Chuck, 2 Goody, J., 6 Google, 33, 71 gothic cathedrals, 37–38 greenhouse vegetable producers (seasonal versus year-round -), 60–66 Greeno, J. G., xiii, 2, 3, 33, 106, 138 "formal concepts," 33 Greenstein, D., 66–67 Griesemer, J. R., 112 Gromyko, Y., 24 Helsinki, 27, 52, See also University of Helsinki library Helsinki City municipal home care, See home	germ cell concepts, 6, 7, 66-76, 172, 175, 181, 183	mobility challenge, 81–85
germ cell model examination (Anne case study), 92 examination data, 92 German Democratic Republic, 2 gestures, 80, 89, 103, 105, 115 Goodwin, Candy, 2 Goodwin, Chuck, 2 Goody, J., 6 Google, 33, 71 gothic cathedrals, 37–38 greenhouse vegetable producers (seasonal versus year-round -), 60–66 Greeno, J. G., xiii, 2, 3, 33, 106, 138 "formal concepts," 33 Greenstein, D., 66–67 Griesemer, J. R., 112 Gromyko, Y., 24 Helsinki, 27, 52, See also University of Helsinki library Helsinki City municipal home care, See home sustainable mobility concept, 154 home-care workers (HCWs), 107, 145 critical encounters with elderly clients, 114–137 high turnover, 86 Tina (Anne case study), 89, 90–103, 104, 105, 106, 108 homelessness, 7 concept formation over long haul, 156–177 permanence versus mobility, 170 prevalence, 156 security versus independence, 170 traditional approach ('staircase model'), 156, 163 homelessness action plan (Finland, 2020), 164–165 aim, 165 "possibility" (keyword), 165 homelessness pathways, 50–58, 183 categorization (examples), 51 change laboratory, 52–57 definition (Anderson and Tulloch), 51 descriptive (rather than normative), 57 notational template, 53 representations, 55	epistemic potential, 76	paradox, 82
home-care workers (HCWs), 107, 145 examination (Anne case study), 92 examination data, 92 German Democratic Republic, 2 gestures, 80, 89, 103, 105, 115 Goodwin, Candy, 2 Goodwin, Chuck, 2 Goody, J., 6 Google, 33, 71 gothic cathedrals, 37–38 greenhouse vegetable producers (seasonal versus year-round -), 60–66 Greeno, J. G., xiii, 2, 3, 33, 106, 138 "formal concepts," 33 Greenstein, D., 66–67 Griesemer, J. R., 112 Gromyko, Y., 24 Hannan, M. T., 36 HCWs, See home-care workers heedful interrelating (Weick and Roberts), 42 Hegel, G. W. F., 11, 83 Helsinki, 27, 52, See also University of Helsinki library Helsinki City municipal home care, See home	evolution and design, 180	physical mobility, 78–108
examination (Anne case study), 92 examination data, 92 German Democratic Republic, 2 gestures, 80, 89, 103, 105, 115 Goodwin, Candy, 2 Goodwin, Chuck, 2 Goody, J., 6 Google, 33, 71 gothic cathedrals, 37–38 greenhouse vegetable producers (seasonal versus year-round -), 60–66 Greeno, J. G., xiii, 2, 3, 33, 106, 138 "formal concepts," 33 Greenstein, D., 66–67 Griesemer, J. R., 112 Gromyko, Y., 24 Helsinki, 27, 52, See also University of Helsinki library Helsinki City municipal home care, See home home-care workers (HCWs), 107, 145 critical encounters with elderly clients, 114–137 high turnover, 86 Tina (Anne case study), 89, 90–103, 104, 105, 106, 108 homelessness, 7 concept formation over long haul, 156–177 permanence versus mobility, 170 prevalence, 156 security versus independence, 170 traditional approach ('staircase model'), 156, 163 homelessness action plan (Finland, 2020), 164–165 aim, 165 "possibility" (keyword), 165 homelessness pathways, 50–58, 183 categorization (examples), 51 change laboratory, 52–57 definition (Anderson and Tulloch), 51 descriptive (rather than normative), 57 notational template, 53 representations, 55	germ cell model	sustainable mobility concept, 154
critical encounters with elderly clients, 114–137 high turnover, 86 grestures, 80, 89, 103, 105, 115 Goodwin, Candy, 2 Goodwin, Chuck, 2 Goodwin, Chuck, 2 Goody, J., 6 Google, 33, 71 gothic cathedrals, 37–38 greenhouse vegetable producers (seasonal versus year-round -), 60–66 Greeno, J. G., xiii, 2, 3, 33, 106, 138 "formal concepts," 33 Greenstein, D., 66–67 Griesemer, J. R., 112 Gromyko, Y., 24 Gromyko, Y., 25, See Also University of Helsinki library Helsinki City municipal home care, See home care sexanting critical encounters with elderly clients, 114–137 high turnover, 86 Tina (Anne case study), 89, 90–103, 104, 105, 106, 108 homelessness, 7 concept formation over long haul, 156–177 permanence versus mobility, 170 prevalence, 156 security versus independence, 170 traditional approach ('staircase model'), 156, 164–165 aim, 165 "possibility" (keyword), 165 homelessness action plan (Finland, 2020), 164–165 aim, 165 "possibility" (keyword), 165 homelessness pathways, 50–58, 183 categorization (examples), 51 change laboratory, 52–57 definition (Anderson and Tulloch), 51 descriptive (rather than normative), 57 notational template, 53 representations, 55	examination (Anne case study), 92	
German Democratic Republic, 2 gestures, 80, 89, 103, 105, 115 Goodwin, Candy, 2 Goodwin, Chuck, 2 Goody, J., 6 Google, 33, 71 gothic cathedrals, 37–38 greenhouse vegetable producers (seasonal versus year-round -), 60–66 Greeno, J. G., xiii, 2, 3, 33, 106, 138 "formal concepts," 33 Greenstein, D., 66–67 Griesemer, J. R., 112 Gromyko, Y., 24 Hannan, M. T., 36 HAnnan, M. T., 36 HCWs, See home-care workers heedful interrelating (Weick and Roberts), 42 Helsinki, 27, 52, See also University of Helsinki library Helsinki City municipal home care, See home		
gestures, 80, 89, 103, 105, 115 Goodwin, Candy, 2 Goodwin, Chuck, 2 Goody, J., 6 Google, 33, 71 gothic cathedrals, 37–38 greenhouse vegetable producers (seasonal versus year-round -), 60–66 Greeno, J. G., xiii, 2, 3, 33, 106, 138 "formal concepts," 33 Greenstein, D., 66–67 Griesemer, J. R., 112 Gromyko, Y., 24 Hannan, M. T., 36 Hannan, M. T., 36 Helsinki, 27, 52, See also University of Helsinki library Helsinki City municipal home care, See home Tina (Anne case study), 89, 90–103, 104, 105, 106, 108 homelessness, 7 concept formation over long haul, 156–177 permanence versus mobility, 170 prevalence, 156 security versus independence, 170 traditional approach ('staircase model'), 156, 163 homelessness action plan (Finland, 2020), 164–165 aim, 165 "possibility" (keyword), 165 "together" (keyword), 165 "together" (keyword), 165 aim, 165 "together" (keyword), 165 thange laboratory, 52–57 definition (Anderson and Tulloch), 51 descriptive (rather than normative), 57 notational template, 53 representations, 55	German Democratic Republic, 2	• • • •
Goodwin, Candy, 2 Goodwin, Chuck, 2 Goody, J., 6 Google, 33, 71 gothic cathedrals, 37–38 greenhouse vegetable producers (seasonal versus year-round -), 60–66 Greeno, J. G., xiii, 2, 3, 33, 106, 138 "formal concepts," 33 Greenstein, D., 66–67 Griesemer, J. R., 112 Gromyko, Y., 24 Hannan, M. T., 36 Hannan, M. T., 36 HCWs, See home-care workers heedful interrelating (Weick and Roberts), 42 Hegel, G. W. F., 11, 83 Helsinki, 27, 52, See also University of Helsinki library Helsinki City municipal home care, See home		
Goodwin, Chuck, 2 Goody, J., 6 Google, 33, 71 gothic cathedrals, 37–38 greenhouse vegetable producers (seasonal versus year-round -), 60–66 Greeno, J. G., xiii, 2, 3, 33, 106, 138 "formal concepts," 33 Greenstein, D., 66–67 Griesemer, J. R., 112 Gromyko, Y., 24 Hannan, M. T., 36 HAnnan, M. T., 36 HCWs, See home-care workers heedful interrelating (Weick and Roberts), 42 Hegel, G. W. F., 11, 83 Helsinki, 27, 52, See also University of Helsinki library Helsinki City municipal home care, See home		
Goody, J., 6 Google, 33, 71 gothic cathedrals, 37–38 greenhouse vegetable producers (seasonal versus year-round -), 60–66 Greeno, J. G., xiii, 2, 3, 33, 106, 138 "formal concepts," 33 Greenstein, D., 66–67 Griesemer, J. R., 112 Gromyko, Y., 24 Hannan, M. T., 36 HANNAN, M. T., 36 HCWs, See home-care workers heedful interrelating (Weick and Roberts), 42 Hegel, G. W. F., 11, 83 Helsinki, 27, 52, See also University of Helsinki library Helsinki City municipal home care, See home concept formation over long haul, 156–177 permanence versus mobility, 170 prevalence, 156 security versus independence, 170 traditional approach ('staircase model'), 156, 163 homelessness action plan (Finland, 2020), 164–165 aim, 165 "possibility" (keyword), 165 together" (keyword), 165 homelessness pathways, 50–58, 183 categorization (examples), 51 change laboratory, 52–57 definition (Anderson and Tulloch), 51 descriptive (rather than normative), 57 notational template, 53 representations, 55		homelessness, 7
Google, 33, 71 gothic cathedrals, 37–38 greenhouse vegetable producers (seasonal versus year-round -), 60–66 Greeno, J. G., xiii, 2, 3, 33, 106, 138 "formal concepts," 33 Greenstein, D., 66–67 Griesemer, J. R., 112 Gromyko, Y., 24 Hannan, M. T., 36 HANNAN, See home-care workers heedful interrelating (Weick and Roberts), 42 Hegel, G. W. F., 11, 83 Helsinki, 27, 52, See also University of Helsinki library Helsinki City municipal home care, See home permanence versus mobility, 170 prevalence, 156 security versus independence, 170 traditional approach ('staircase model'), 156, 163 homelessness action plan (Finland, 2020), 164–165 aim, 165 "possibility" (keyword), 165 homelessness pathways, 50–58, 183 categorization (examples), 51 change laboratory, 52–57 definition (Anderson and Tulloch), 51 descriptive (rather than normative), 57 notational template, 53 representations, 55		
gothic cathedrals, 37–38 greenhouse vegetable producers (seasonal versus year-round -), 60–66 Greeno, J. G., xiii, 2, 3, 33, 106, 138 "formal concepts," 33 Greenstein, D., 66–67 Griesemer, J. R., 112 Gromyko, Y., 24 Hannan, M. T., 36 HANNAN, See home-care workers heedful interrelating (Weick and Roberts), 42 Hegel, G. W. F., 11, 83 Helsinki, 27, 52, See also University of Helsinki library Helsinki City municipal home care, See home prevalence, 156 security versus independence, 170 traditional approach ('staircase model'), 156, 163 security versus independence, 170 traditional approach ('staircase model'), 156, 164–165 aim, 165 "possibility" (keyword), 165 together" (keyword), 165 homelessness pathways, 50–58, 183 categorization (examples), 51 change laboratory, 52–57 definition (Anderson and Tulloch), 51 descriptive (rather than normative), 57 notational template, 53 representations, 55		
greenhouse vegetable producers (seasonal versus year-round -), 60–66 Greeno, J. G., xiii, 2, 3, 33, 106, 138 "formal concepts," 33 Greenstein, D., 66–67 Griesemer, J. R., 112 Gromyko, Y., 24 Hannan, M. T., 36 HCWs, See home-care workers heedful interrelating (Weick and Roberts), 42 Helsinki, 27, 52, See also University of Helsinki library Helsinki City municipal home care, See home security versus independence, 170 traditional approach ('staircase model'), 156, 163 homelessness action plan (Finland, 2020), 164–165 aim, 165 "together" (keyword), 165 homelessness pathways, 50–58, 183 categorization (examples), 51 change laboratory, 52–57 definition (Anderson and Tulloch), 51 descriptive (rather than normative), 57 notational template, 53 representations, 55		
year-round -), 60–66 Greeno, J. G., xiii, 2, 3, 33, 106, 138 "formal concepts," 33 Greenstein, D., 66–67 Griesemer, J. R., 112 Gromyko, Y., 24 Hannan, M. T., 36 Hannan, M. T., 36 HCWs, See home-care workers heedful interrelating (Weick and Roberts), 42 Hegel, G. W. F., 11, 83 Helsinki, 27, 52, See also University of Helsinki library Helsinki City municipal home care, See home traditional approach ('staircase model'), 156, 163 homelessness action plan (Finland, 2020), 164–165 aim, 165 "possibility" (keyword), 165 "together" (keyword), 165 together" (keyword), 165 tageorization (examples), 51 change laboratory, 52–57 definition (Anderson and Tulloch), 51 descriptive (rather than normative), 57 notational template, 53 representations, 55		
Greeno, J. G., xiii, 2, 3, 33, 106, 138 "formal concepts," 33 Greenstein, D., 66–67 Griesemer, J. R., 112 Gromyko, Y., 24 Hannan, M. T., 36 Hannan, M. T., 36 HCWs, See home-care workers heedful interrelating (Weick and Roberts), 42 Hegel, G. W. F., 11, 83 Helsinki, 27, 52, See also University of Helsinki library Helsinki City municipal home care, See home		
"formal concepts," 33 Greenstein, D., 66–67 Griesemer, J. R., 112 Gromyko, Y., 24 Hannan, M. T., 36 HCWs, See home-care workers heedful interrelating (Weick and Roberts), 42 Hegel, G. W. F., 11, 83 Helsinki, 27, 52, See also University of Helsinki library Helsinki City municipal home care, See home homelessness action plan (Finland, 2020), 164–165 aim, 165 "possibility" (keyword), 165 together" (keyword), 165 homelessness pathways, 50–58, 183 categorization (examples), 51 change laboratory, 52–57 definition (Anderson and Tulloch), 51 descriptive (rather than normative), 57 notational template, 53 representations, 55		
Greenstein, D., 66–67 Griesemer, J. R., 112 Gromyko, Y., 24 Hannan, M. T., 36 HCWs, See home-care workers heedful interrelating (Weick and Roberts), 42 Hegel, G. W. F., 11, 83 Helsinki, 27, 52, See also University of Helsinki library Helsinki City municipal home care, See home 164–165 aim, 165 possibility" (keyword), 165 together" (keyword), 165 together" (keyword), 165 categorization (examples), 51 change laboratory, 52–57 definition (Anderson and Tulloch), 51 descriptive (rather than normative), 57 notational template, 53 representations, 55	"formal concents." 33	
Griesemer, J. R., 112 Gromyko, Y., 24 Hannan, M. T., 36 HCWs, See home-care workers heedful interrelating (Weick and Roberts), 42 Hegel, G. W. F., 11, 83 Helsinki, 27, 52, See also University of Helsinki library Helsinki City municipal home care, See home aim, 165 "possibility" (keyword), 165 homelessness pathways, 50–58, 183 categorization (examples), 51 change laboratory, 52–57 definition (Anderson and Tulloch), 51 descriptive (rather than normative), 57 notational template, 53 representations, 55		
Gromyko, Y., 24 "possibility" (keyword), 165 "together" (keyword), 165 homelessness pathways, 50–58, 183 categorization (examples), 51 change laboratory, 52-7 definition (Anderson and Tulloch), 51 descriptive (rather than normative), 57 notational template, 53 representations, 55		
"together" (keyword), 165 Hannan, M. T., 36 HCWs, See home-care workers heedful interrelating (Weick and Roberts), 42 Hegel, G. W. F., 11, 83 Helsinki, 27, 52, See also University of Helsinki library Helsinki City municipal home care, See home "together" (keyword), 165 homelessness pathways, 50–58, 183 categorization (examples), 51 change laboratory, 527 definition (Anderson and Tulloch), 51 descriptive (rather than normative), 57 notational template, 53 representations, 55		
Hannan, M. T., 36 HCWs, See home-care workers heedful interrelating (Weick and Roberts), 42 Hegel, G. W. F., 11, 83 Helsinki, 27, 52, See also University of Helsinki library Helsinki City municipal home care, See home homelessness pathways, 50–58, 183 categorization (examples), 51 change laboratory, 52–57 definition (Anderson and Tulloch), 51 descriptive (rather than normative), 57 notational template, 53 representations, 55	Giolilyko, 1., 24	"together" (keyword) 165
HCWs, See home-care workers heedful interrelating (Weick and Roberts), 42 Hegel, G. W. F., 11, 83 Helsinki, 27, 52, See also University of Helsinki library Helsinki City municipal home care, See home categorization (examples), 51 change laboratory, 52–57 definition (Anderson and Tulloch), 51 descriptive (rather than normative), 57 notational template, 53 representations, 55	Hannan M.T. 26	
heedful interrelating (Weick and Roberts), 42 Hegel, G. W. F., 11, 83 Helsinki, 27, 52, See also University of Helsinki library Helsinki City municipal home care, See home change laboratory, 52–57 definition (Anderson and Tulloch), 51 descriptive (rather than normative), 57 notational template, 53 representations, 55		
Hegel, G. W. F., 11, 83 Helsinki, 27, 52, See also University of Helsinki library Helsinki City municipal home care, See home definition (Anderson and Tulloch), 51 descriptive (rather than normative), 57 notational template, 53 representations, 55		
Helsinki, 27, 52, <i>See also</i> University of Helsinki descriptive (rather than normative), 57 notational template, 53 representations, 55		definition (Anderson and Tulleah)
library notational template, 53 Helsinki City municipal home care, See home representations, 55		
Helsinki City municipal home care, See home representations, 55		
		•
thought of as stories, 58		
	care	thought of as stories, 58

new contradiction, 168–172 posspice, 90, 92 Housing First, See also Pathways Housing First fundamental step, 159 inception of concept (early 1990s), 156 "motherhood concept," 158 Housing First 2.0, 158 Concept formation process "lengthy and far from linear," 157 emerging concept, 157 link, 157 moving towards stronger design and stronger colution, 180 Cognition in Wild (1995), 5–6 evolution and design, 178–179 material anchors, 11–12, 16 hybridization, 30, 141, 179 identity, 18, 46, 47 ideologies, 10, 50, 141 ideol of stability (Toulmin), 2 illness, 2, 78, 88, 91 llyenkov, E. V., 23, 30, 78, 148 dialectics of abstract and concrete, 20–22 "general notion" (differentiated from "concept"), 20, 23 "Robinson Crusoe epistemology," 20 implementation, 80, 89, 157 Indigenous social movements, 36 Ingold, T., 42, 105 in footnote, 8 institutions, 1, 5, 6, 10, 68, 141, 178 integrated pest management (IPM), 6, 60, 66 interactive physical enartement, 105 interruptions, 44, 45, 171, 174, intervention research: methodological challenges, 108 interventionist researchers, 181 interventionist researchers, 180 Jensen, U. J., 2 Johnson, G., 51	homelessness work	Johnston, E. R., 44
permanence versus mobility, 170 hospice, 90, 92 Housing First, See also Pathways Housing First fundamental step, 159 inception of concept (early 1990s), 156 "motherhood concept," 158 Housing First 2.0, 158 concept formation process "lengthy and far from linear," 157 emerging concept, 157 link, 157 moving towards stronger design and stronger evolution, 180 Hunter, B., 58 (Cognition in Wild (1995), 5–6 evolution and design, 178–179 material anchors, 11–12, 16 hybridization, 30, 141, 179 material anchors, 11–12, 16 hybridization, 30, 141, 179 metidol of stability (Toulmin), 2 illness, 2, 78, 88, 91 llyenkov, E. V., 23, 30, 78, 148 dialectics of abstract and concrete, 20–22 "general notion" (differentiated from "concept"), 20, 23 "Robinson Crusoe epistemology," 20 implementation, 80, 89, 157 lndigenous social movements, 36 lngold, T., 42, 105 in foornote, 8 institutional paths, 36 four mechanisms of lateral interaction, 51 intercuptions, 44, 45, 171, 174 intervention researchers, 181 interventions tresearchers, 180 formative interventions intraventions, 179, 180 Joursenlaht, S., 170 Jutel, A., 45 Nopsajalka model, 167–168, 171–172 No	new contradiction, 168-172	
hospice, 90, 92 Housing First, See also Pathways Housing First fundamental step, 159 inception of concept (early 1990s), 156 "motherhood concept," 158 Housing First 2.0, 158 concept formation process "lengthy and far from linear," 157 emerging concept, 157 link, 157 moving towards stronger design and stronger evolution, 180 Hunter, B., 158 Hunter, B., 158 Hutchins, E., xiii, 2, 8, 12, 80 Cognition in Wild (1995), 5–6 evolution and design, 178–179 material anchors, 11–12, 16 hybridization, 30, 141, 179 material anchors, 11–12, 16 hybridization, So, 88, 191 llyenkov, E. V., 23, 30, 78, 148 dialectics of abstract and concrete, 20–22 "general notion" (differentiated from "concept"), 20, 23 "Robinson Crusoe epistemology," 20 implementation, 80, 89, 157 Indigenous social movements, 36 four mechanisms of lateral interaction, 35 institutional paths, 36 four mechanisms of lateral interaction, 35 institutional paths, 36 four mechanisms of lateral interaction, 35 institutions, 1, 5, 6, 10, 68, 141, 178 intervention research: methodological challenges, 108 interventions seeds and sement (IPM), 6, 60, 66 interactive physical enactment, 105-103 interconnected instrumentality, 77 internet, 64, 67, 71, 72, 73, 90 interpretive scheme, 34, 35 interventions, 44, 45, 171, 174, 174 intervention research: methodological challenges, 108 interventionis tresearchers, 181 interventions, 179, 180 Jensen, U. J., 2 Jutel, A., 45 Nopsajalka model, 167–168, 171–172 Nopsajalka model (transformation), 172 Kaakinen, J., 167 Kaakienal (Itansicular), 150 Kaakienal, A., xiii, 173 Kappi		
Housing First, See also Pathways Housing First fundamental step, 159 inception of concept (early 1990s), 156 "motherhood concept," 158 concept formation process "lengthy and far from linear," 157 emerging concept, 157 link, 157 moving towards stronger design and stronger evolution, 180 Hunter, B., 58 Hutchins, E., xiii, 2, 8, 12, 80 Cognition in Wild (1995), 5–6 evolution and design, 178–179 material anchors, 11–12, 16 hybridization, 30, 141, 179 identity, 18, 46, 47 ideologies, 10, 50, 141 idol of stability (Toulmin), 2 illness, 2, 78, 88, 91 Illyenkov, E. V., 23, 30, 78, 148 dialectics of abstract and concrete, 20–22 "general notion" (differentiated from "concept"), 20, 23 "Robinson Crusoe epistemology," 20 infootnote, 8 institutional paths, 36 four mechanisms of lateral interaction, 35 institutions, 1, 5, 6, 10, 68, 141, 178 intervention research: methodological challenges, 108 intervente setheme, 34, 35 interruptions, 44, 45, 171, 174, intervention research: methodological challenges, 108 interventions treasurchers, 181 interventions researchers, 181 interventions, 179, 180		
fundamental step, 159 inception of concept (early 1990s), 156 "motherhood concept," 158 Housing First 2.0, 158 concept formation process "lengthy and far from linear," 157 emerging concept, 157 link, 157 moving towards stronger design and stronger evolution, 180 Hunter, B., 58 Hutchins, E., xiii, 2, 8, 12, 80 Cognition in Wild (1995), 5-6 evolution and design, 178-179 material anchors, 11-12, 16 hybridization, 30, 141, 179 identity, 18, 46, 47 ideologies, 10, 50, 141 idol of stability (Toulmin), 2 illness, 2, 78, 88, 91 Illyenkov, E. V., 23, 30, 78, 148 dialectics of abstract and concrete, 20-22 "general notion" (differentiated from "concept"), 20, 23 "Robinson Crusce epistemology," 20 implementation, 80, 89, 157 Indigenous Social movements, 36 Ingold, T., 42, 105 in footnote, 8 institutional paths, 36 four mechanisms of lateral interaction, 35 institution, 1, 5, 6, 10, 68, 141, 178 intervention research methodological challenges, 108 intervention research: methodological challenges, 108 interventions researchers, 181 interventions, 26, 68, 157, 171, 174, 175, 25e also formative interventions intraventions, 179, 180 Nopsajalka model, (transformation), 172 Nopsajalka model, (transformation), 172 Kaghima, J., 167 Kajamaa, A., xiii, 115 Katevala (Finnish national epic), 151 Karppinen, J., 170 Kagiman, J., 170 Kaguman, J. Co., 154 definition (Engeström), 150 potential germ cell, 151 knotvorking, 6, 7, 149-152, 175, 182 characteristics, 150 definition (Engeström), 150 potential germ cell, 151 knotvorking, 6, 7, 149-152, 175, 182 characteristics, 150 definition (Engeström), 150 potential germ cell, 151 knotvorking, 6, 7, 149-152, 175, 182 characteristics, 150 definition (Engeström), 150 potential germ cell, 151 knotvorking, 6, 7, 149-152, 175, 182 characteristics, 150 definition (Engeström), 150 potential germ cell, 151 knotvorking, 6, 7, 149-152, 175, 182 characteristics, 150 definition (Engeström), 150 potential germ cell, 151 knotvorking, 6, 7, 149-152, 175, 182 characteristics, 150 definition (Engeström), 150		
inception of concept (early 1990s), 156 "motherhood concept," 158 Housing First 2.0, 158 concept formation process "lengthy and far from linear," 157 emerging concept, 157 link, 157 moving towards stronger design and stronger evolution, 180 Hunter, B., 58 Huttchins, E., xiii, 2, 8, 12, 80 Cognition in Wild (1995), 5–6 evolution and design, 178–179 material anchors, 11–12, 16 hybridization, 30, 141, 179 idenlogies, 10, 50, 141 ideologies, 10, 50, 141 ideologies, 10, 50, 141 ideologies, 10, 50, 142 ideologies, 10, 50, 143 ideologies of abstract and concrete, 20–22 "general notion" (differentiated from "concept"), 20, 23 "Robinson Crusoe epistemology," 20 implementation, 80, 89, 157 Indigenous Energy Justice (IEJ), 36 indigenous social movements, 36 Ingold, T., 42, 105 in footnore, 8 institutional paths, 36 four mechanisms of lateral interaction, 35, institutional paths, 36 four mechanisms of lateral interaction, 15 intergrated pest management (IPM), 6, 60, 66 interactive physical environment, 101–103 interconnected instrumentality, 77 internet, 64, 67, 71, 72, 73, 99 interpretive scheme, 34, 43, 51 interruptions, 44, 45, 171, 174 intervention research: methodological challenges, 108 interventionist researchers, 181 interventionist researchers, 181 interventions researchers, 181 interventions researchers, 181 interventions, 179, 180 Nopsajalka model (transformation), 172 Kaakinen, J., 16 Kaakinen, J., 170 Kaugman, J. C., 154 kackuala (Finnish national epic), 151 Karppinen, J., 170 Kaugman, J. C., 154 kackuala (Finnish ational epic), 151 Karppinen, J., 170 Kaugman, J. C., 154 kackuala (Finnish ational epic), 151 Karppinen, J., 170 Kaugman, J. C., 154 kackuala (Finnish ational epic), 151 Karppinen, J., 170 Kaugman, J. C., 154 kackuala (Finnish, 1, 150 kackuala (Finnish ational epic), 151 Karppinen, J., 10 Kaugman, J. C., 154 kackuala (Finnish, 1,	fundamental step, 159	
"motherhood concept," 158 Housing First 2.0, 158 concept formation process "lengthy and far from linear," 157 emerging concept, 157 link, 157 moving towards stronger design and stronger evolution, 180 Hunter, B., 58 Hutchins, E., xiii, 2, 8, 12, 80 Cognition in Wild (1995), 5–6 evolution and design, 178–179 material anchors, 11–12, 16 hybridization, 30, 141, 179 identity, 18, 46, 47 ideologies, 10, 50, 141 idol of stability (Toulmin), 2 illness, 2, 78, 88, 91 llyenkov, E. V., 23, 30, 78, 148 dialectics of abstract and concrete, 20–22 "general notion" (differentiated from "concept"), 20, 23 "Robinson Crusoe epistemology," 20 implementation, 80, 89, 157 Indigenous Energy Justice (IEJ), 36 indigenous social movements, 36 Ingold, T., 42, 105 in footnote, 8 institutional paths, 36 four mechanisms of lateral interaction, 35 institutions, 1, 5, 6, 10, 68, 141, 178 intercartive physical enactment, 105 interactive physical enactment, 105 intervention researcher methodological challenges, 108 intervention researchers methodological challenges, 108 intervention researchers methodological challenges, 108 interventions researchers, 181 interventionist researchers, 181 interventions, 179, 180 Kaakinen, J., 167 Kaipmana, A., xiii, 115 Katevala (Finnish national epic), 151 Katevala (Finnish national epic), 151 Katevalau (Finnish national epic), 151 Katevalua (Finnish national epic), 15 Aben, 7, 37, 149–152, 175, 182 cdefinition (Engeström), 150 more		
Housing First 2.0, 158 concept formation process "lengthy and far from linear," 157 emerging concept, 157 link, 157 moving towards stronger design and stronger evolution, 180 Hutchins, E., xiii, 2, 8, 12, 80 Cognition in Wild (1995), 5–6 evolution and design, 178–179 material anchors, 11–12, 16 hybridization, 30, 141, 179 identity, 18, 46, 47 ideologies, 10, 50, 141 ideologies, 10, 50,	"motherhood concept," 158	
concept formation process "lengthy and far from linear," 157 emerging concept, 157 link, 157 moving towards stronger design and stronger evolution, 180 Hunter, B., 58 Hutchins, E., xiii, 2, 8, 12, 80 Cognition in Wild (1995), 5–6 evolution and design, 178–179 material anchors, 11–12, 16 hybridization, 30, 141, 179 identity, 18, 46, 47 ideologies, 10, 50, 141 idol of stability (Toulmin), 2 illpenkoy, E. V., 23, 30, 78, 148 dialectics of abstract and concrete, 20–22 "general notion" (differentiated from "concept"), 20, 23 "Robinson Crusoe epistemology," 20 implementation, 80, 89, 157 Indigenous Energy Justice (IEJ), 36 indigenous Social movements, 36 Ingold, T., 42, 105 in footnote, 8 institutional paths, 36 four mechanisms of lateral interaction, 35 institutions, 1, 5, 6, 10, 68, 141, 178 intergrated pest management (IPM), 6, 60, 66 interactive physical enactment, 105 interconnected instrumentality, 77 internet, 64, 67, 71, 72, 73, 90 interpretive scheme, 34, 35 interruptions, 44, 45, 171, 174 intervention researchers methodological challenges, 108 interventions researchers, 181 interventions it researchers, 181 interventions of the definition, (Engeström), 150 befentition		Kaakinen, J., 167
from linear," 157 emerging concept, 157 link, 157 moving towards stronger design and stronger evolution, 180 Hunter, B., 58 Hutchins, E., xiii, 2, 8, 12, 80 Cognition in Wild (1995), 5–6 evolution and design, 178–179 material anchors, 11–12, 16 hybridization, 30, 141, 179 idenlogies, 10, 50, 141 ideologies, 10, 50,		
emerging concept, 157 link, 157 moving towards stronger design and stronger evolution, 180 Hunter, B., 58 Hutchins, E., xiii, 2, 8, 12, 80 Cognition in Wild (1995), 5–6 evolution and design, 178–179 material anchors, 11–12, 16 hybridization, 30, 141, 179 identity, 18, 46, 47 ideologies, 10, 50, 141 idol of stability (Toulmin), 2 illness, 2, 78, 88, 91 llyenkov, E. V., 23, 30, 78, 148 dialectics of abstract and concrete, 20–22 "general notion" (differentiated from "concept"), 20, 23 "Robinson Crusoe epistemology," 20 implementation, 80, 89, 157 Indigenous Energy Justice (IEJ), 36 indigenous social movements, 36 Ingold, T., 42, 105 in footnote, 8 institutions, 1, 5, 6, 10, 68, 141, 178 integrated pest management (IPM), 6, 60, 66 interactive physical enactment, 105 interconnected instrumentality, 77 internet, 64, 67, 71, 72, 73, 90 interpretive scheme, 34, 35 interruntions researche: methodological challenges, 108 interventionist researchers, 181 interventions, 26, 68, 157, 171, 172, See also formative interventions intraventions, 179, 180 Katppinen, J., 170 Kaugman, J. C., 154 knotvorking, 6, 7, 149–152, 175, 182 characteristics, 150 edinition (Engeström), 150 potential germ cell, 151 knotworking, 6, 7, 149–152, 175, 182 characteristics, 150 definition, 68 germ cell concept (University of Helsinki library), 76 movement towards, 152 use of term (frequency), 71 Knotworking in Library project, 66–76, 150 weak evolution, strong design, 180 Kostainen, E., 51 Lave, J., 2 learning actions, 79 loops, repetitions, gaps, 26 sequence of six, 25 learning rentral aspect of all activity, 20 Leon'ev, A. N., 30, 83, 138, 153, 175, 184 activity theory (second generation), 18 "motive goal" notion, 18 Lévi-Strauss, C.: pensée sauvage, 6 Lindgren, A., 138, 139 linear residential treatment (LRT), 156, 163 Linell, P., 11 Lishin, O. V., 112 Lishin		
link, 157 moving towards stronger design and stronger evolution, 180 Hunter, B., 58 Hutchins, E., xiii, 2, 8, 12, 80 Cognition in Wild (1995), 5–6 evolution and design, 178–179 material anchors, 11–12, 16 hybridization, 30, 141, 179 identity, 18, 46, 47 ideologies, 10, 50, 141 idol of stability (Toulmin), 2 illness, 2, 78, 88, 91 Illyenkov, E. V., 23, 30, 78, 148 dialectics of abstract and concrete, 20–22 "general notion" (differentiated from "concept"), 20, 23 "Robinson Crusoe epistemology," 20 implementation, 80, 89, 157 Indigenous Energy Justice (IEJ), 36 indigenous social movements, 36 Ingold, T., 42, 105 in footnote, 8 institutional paths, 36 four mechanisms of lateral interaction, 35 institutions, 1, 5, 6, 10, 68, 141, 178 integrated pest management (IPM), 6, 60, 66 interactive physical enactment, 105 interconnected instrumentality, 77 internet, 64, 67, 71, 72, 73, 90 interpretive scheme, 34, 35 interryuptions, 44, 45, 171, 174 intervention research: methodological challenges, 108 interventionist researchers, 181 interventions, 26, 68, 157, 171, 172, See also formative interventions intraventions, 179, 180 Kaugman, J. C., 154 knotovcking, 6, 7, 149–152, 175, 182 characteristics, 150 definition (Engeström), 150 potential germ cell, 151 knotworking, 6, 7, 149–152, 175, 182 characteristics, 150 definition, 68 germ cell concept (University of Helsinki libray), 76 movement towards, 152 use of term (frequency), 71 Konotworking in Library), 76 movement towards, 152 use of term (frequency), 71 Konotworking in Library), 76 movement towards, 152 use of term (frequency), 71 Konotworking in Library), 76 movement towards, 152 use of term (frequency), 71 Konotworking in Library), 76 movement towards, 152 use of term (frequency), 71 Konotworking in Library), 76 movement towards, 152 use of term (frequency), 71 Konotworking in Library), 76 movement towards, 152 use of term (frequency), 71 Konotworking in Library), 76 movement towards, 152 use of term (frequency), 71 Konotworking in Library), 76 movement towards, 152 use		
moving towards stronger design and stronger evolution, 180 Hunter, B., 58 Hutchins, E., xiii, 2, 8, 12, 80 Cognition in Wild (1995), 5–6 evolution and design, 178–179 material anchors, 11–12, 16 hybridization, 30, 141, 179 identity, 18, 46, 47 ideologies, 10, 50, 141 idol of stability (Toulmin), 2 illpenkov, E. V., 23, 30, 78, 148 dialectics of abstract and concrete, 20–22 "general notion" (differentiated from "concept"), 20, 23 "Robinson Crusoe epistemology," 20 implementation, 80, 89, 157 Indigenous Energy Justice (IEJ), 36 indigenous social movements, 36 Ingold, T., 42, 105 in footnote, 8 institutional paths, 36 four mechanisms of lateral interaction, 35 institutions, 1, 5, 6, 10, 68, 141, 178 intergrated pest management (IPM), 6, 60, 66 interactive physical enactment, 105 interactoreed instrumentality, 77 internet, 64, 67, 71, 72, 73, 90 interpretive scheme, 34, 35 interventionist researchers, 181 interventions researchers methodological challenges, 108 interventions researchers, 181 interventions, 26, 68, 157, 171, 172, See also formative interventions intraventions, 179, 180 knot. 73, 74 definition (Engeström), 150 potential germ cell, 151 knotworking, 6, 7, 149–152, 175, 182 characteristics, 150 definition, 68 germ cell concept (University of Helsinki library), 76 movement towards, 152 use of term (frequency), 71 Knotworking in Library), 76 movement towards, 152 use of term (frequency), 71 Knotworking in Library), 76 movement towards, 152 use of term (frequency), 71 Knotworking in Library), 76 movement towards, 152 use of term (frequency), 71 Knotworking in Library), 76 movement towards, 152 use of term (frequency), 71 Knotworking in Library), 76 movement towards, 152 use of term (frequency), 71 Knotworking in Library, 76 movement towards, 152 use of term (frequency), 71 Knotworking in Library, 76 movement towards, 152 use of term (frequency), 71 Knotworking in Library project, 66–76, 150 weak evolution, strong design, 180 Kostialen, E., 51 Lave, J., 2 learning actions, 79 loops, repetitions, gaps, 26		
evolution, 180 Hunter, B., 58 Hutchins, E., xiii, 2, 8, 12, 80 Cognition in Wild (1995), 5–6 evolution and design, 178–179 material anchors, 11–12, 16 hybridization, 30, 141, 179 identity, 18, 46, 47 ideologies, 10, 50, 141 idol of stability (Toulmin), 2 illness, 2, 78, 88, 91 Illyenkov, E. V., 23, 30, 78, 148 dialectics of abstract and concrete, 20–22 "general notion" (differentiated from "concept"), 20, 23 "Robinson Crusoe epistemology," 20 implementation, 80, 89, 157 Indigenous Energy Justice (IEJ), 36 indigenous social movements, 36 Ingold, T., 42, 105 in footnote, 8 institutional paths, 36 four mechanisms of lateral interaction, 35 institutions, 1, 5, 6, 10, 68, 141, 178 integrated pest management (IPM), 6, 60, 66 interactive physical enactment, 105 interconnected instrumentality, 77 internet, 64, 67, 71, 72, 73, 90 interpretive scheme, 34, 35 intervention research: methodological challenges, 108 intervention research: methodological challenges, 108 interventions t researchers, 181 interventions, 26, 68, 157, 171, 172, See also formative interventions intraventions, 179, 180 definition (Engeström), 150 potential germ cell, 151 knotworking, 6, 7, 149–152, 175, 182 characteristics, 150 definition, 68 germ cell concept (University of Helsinki library), 76 movement towards, 152 use of term (frequency), 71 Knotworking, 6, 7, 149–152, 175, 182 characteristics, 150 definition, 68 germ cell concept (University of Helsinki library), 76 movement towards, 152 use of term (frequency), 71 Knotworking, 6, 7, 182 characteristics, 150 definition, 68 germ cell concept (University of Helsinki library), 76 movement towards, 152 use of term (frequency), 71 Knotworking, 6, 7, 182 characteristics, 150 definition, 68 germ cell concept (University of Helsinki library), 76 movement towards, 152 use of term (frequency), 71 Knotworking, 6, 7, 184 ibrary), 76 movement towards, 152 use of term (frequency), 71 Knotworking, 6, 7, 180 Kostianen, E., 51 Lave, J., 2		
Hunter, B., 58 Hutchins, E., xiii, 2, 8, 12, 80 Cognition in Wild (1995), 5–6 evolution and design, 178–179 material anchors, 11–12, 16 hybridization, 30, 141, 179 identity, 18, 46, 47 ideologies, 10, 50, 141 ideologies, 10, 50 illerancy, 76 movement towards, 152 use of term (frequency), 71 Knoworking, 67, 149 ilbrary, 76 movement towards, 152 use of term (frequency), 71 Knoworking, 60, 60, 60 ilbrary, 76 movement towards, 152 use of term (frequency), 71 knoworking, 60, 60, 60 ilbrary, 76 movement towards, 152 use of term (frequency), 70 ilorequency), 71 knoworing in Library project, 66–76, 150 was		
Hutchins, E., xiii, 2, 8, 12, 80 Cognition in Wild (1995), 5–6 evolution and design, 178–179 material anchors, 11–12, 16 hybridization, 30, 141, 179 ideologies, 10, 50, 141 ilbrary), 76 movement towards, 152 use of term (firequency), 71 Knotworking in Library project, 66–76, 150 weak evolution, strong design, 180 Kostiainen, E., 51 Lave, J., 2 learning actions, 79 loops, repetitions, gaps, 26 sequence of six, 25 learning laboratories, 59 learning reentral aspect of all activity, 20 Leont'ev, A. N., 30, 83, 138, 153, 175, 184 activity theory (second generation), 18 "motive goal" notion, 18 Lévi-Straus, C.: pensée sauvage, 6 Lindgren, A., 138, 139 linear residential treatment (LRT), 156, 163 Linell, P., 11 Lishin, O. V., 112 Löwy, I.: "strength of loose concepts," 37 marchial anchors (Hutchins), 11–12, 16, 80 Mead, G. H., 177–178, 181 media, 3, 43, 47 mediaing artifacts, 111, 114, 115, 1137 performance of volitional actions, 113	Hunter, B., 58	
Cognition in Wild (1995), 5–6 evolution and design, 178–179 material anchors, 11–12, 16 hybridization, 30, 141, 179 identity, 18, 46, 47 ideologies, 10, 50, 141 ilibrary), 76 movement towards, 152 use of term (frequency), 71 Knotworking in Library project, 66–76, 150 weak evolution, strong design, 180 Kostiainen, E., 51 Lave, J., 2 learning actions, 79 loops, repetitions, gaps, 26 sequence of six, 25 learning laboratories, 59 learning processes, 25, 28 learning reentral aspect of all activity, 20 Leont'ev, A. N., 30, 83, 138, 153, 175, 184 activity theory (second generation), 18 "motive goal" notion, 18 Lévi-Strauss, C.: pensée sauvage, 6 Lindlgren, A., 138, 139 linear residential treatment (LRT), 156, 163 Linell, P., 11 Lishin, O. V., 112 Löwy, I.: "strength of loose concepts," 37 interruptions, 44, 45, 171, 174 intervention research: methodological challenges, 108 interventionist researchers, 181 interventions, 26, 68, 157, 171, 172, See also formative interventions intraventions, 179, 180 Marchand, T. H., 42 Marková, I., xiii, 8, 17 social representations, 10–11 Marx, K., 20 Marxism, 3 material anchors (Hutchins), 11–12, 16, 80 Mead, G. H., 177–178, 181 media, 3, 43, 47 mediaing artifacts, 111, 114, 115, 137 performance of volitional actions, 113		
evolution and design, 178–179 material anchors, 11–12, 16 hybridization, 30, 141, 179 identity, 18, 46, 47 ideologies, 10, 50, 141 idol of stability (Toulmin), 2 illness, 2, 78, 88, 91 Illyenkov, E. V., 23, 30, 78, 148 dialectics of abstract and concrete, 20–22 "general notion" (differentiated from "concept"), 20, 23 "Robinson Crusoe epistemology," 20 implementation, 80, 89, 157 Indigenous Energy Justice (IEJ), 36 indigenous social movements, 36 Ingold, T., 42, 105 in footnote, 8 institutional paths, 36 four mechanisms of lateral interaction, 35 institutions, 1, 5, 6, 10, 68, 141, 178 intergrated pest management (IPM), 6, 60, 66 interactive physical enactment, 105 interactive physical environment, 101–103 interconnected instrumentality, 77 internet, 64, 67, 71, 72, 73, 90 interpretive scheme, 34, 35 interruptions, 44, 45, 171, 174 intervention research: methodological challenges, 108 interventionist researchers, 181 interventions, 179, 180 definition, 68 germ cell concept (University of Helsinki library), 76 movement towards, 152 use of term (frequency), 71 Knotworking in Library project, 66–76, 150 weak evolution, strong design, 180 Kostiainen, E., 51 Lave, J., 2 learning actions, 79 loops, repetitions, gaps, 26 sequence of six, 25 learning laboratories, 59 learning processes, 25, 28 learning: central aspect of all activity, 20 Leont'ev, A. N., 30, 83, 138, 153, 175, 184 activity theory (second generation), 18 Lévi-Strauss, C.: pensée sauvage, 6 Lindgren, A., 138, 139 linear residential treatment (LRT), 156, 163 Linell, P., 11 Lishin, O. V., 112 Löwy, I.: "strength of loose concepts," 37 material anchors (Hutchins), 11–12, 16, 80 Mead, G. H., 177–178, 181 media, 3, 43, 47 mediating artifacts, 111, 114, 115, 137 performance of volitional actions, 113	Cognition in Wild (1995), 5–6	
material anchors, 11–12, 16 hybridization, 30, 141, 179 identity, 18, 46, 47 ideologies, 10, 50, 141 ideologies, 10, 50 ideologies, 10, 50, 141 ideologies, 10, 50 ideologies, 10, 50 ideologies, 10, 50, 141 ideologies, 10, 50 ideologies, 10 ideologies,		
hybridization, 30, 141, 179 identity, 18, 46, 47 ideologies, 10, 50, 141 idol of stability (Toulmin), 2 illness, 2, 78, 88, 91 Illyenkov, E. V., 23, 30, 78, 148 dialectics of abstract and concrete, 20–22 "general notion" (differentiated from "concept"), 20, 23 "Robinson Crusoe epistemology," 20 implementation, 80, 89, 157 Indigenous Energy Justice (IEJ), 36 indigenous social movements, 36 Ingold, T., 42, 105 in footnote, 8 institutional paths, 36 four mechanisms of lateral interaction, 35 institutions, 1, 5, 6, 10, 68, 141, 178 intergrated pest management (IPM), 6, 60, 66 interactive physical enactment, 105 interactive physical enactment, 105 interractive physical environment, 101–103 interconnected instrumentality, 77 internet, 64, 67, 71, 72, 73, 90 interpretive scheme, 34, 35 interruptions, 44, 45, 171, 174 intervention research: methodological challenges, 108 interventionist researchers, 181 interventions, 179, 180 identity, 18, 46, 47 intorvorking in Library project, 66–76, 150 weak evolution, strong design, 180 Kostiainen, E., 51 Lave, J., 2 learning actions, 79 loops, repetitions, gaps, 26 sequence of six, 25 learning processes, 25, 28 learning recentral aspect of all activity, 20 Leont'ev, A. N., 30, 83, 138, 153, 175, 184 activity theory (second generation), 18 "motive goal" notion, 18 Lévi-Strauss, C.: pensée sauvage, 6 Lindgren, A., 138, 139 linear residential treatment (LRT), 156, 163 Linell, P., 11 Lishin, O. V., 112 Löwy, I.: "strength of loose concepts," 37 Marchand, T. H., 42 Marková, I., xiii, 8, 17 social representations, 10–11 Marx, K., 20 Marxism, 3 material anchors (Hutchins), 11–12, 16, 80 Mead, G. H., 177–178, 181 mediai, 3, 43, 47 mediating artifacts, 111, 114, 115, 137 performance of volitional actions, 113		germ cell concept (University of Helsinki
identity, 18, 46, 47 ideologies, 10, 50, 141 ideologies, 2, 78, 88, 91 Illyenkov, E. V., 23, 30, 78, 148 dialectics of abstract and concrete, 20–22 "general notion" (differentiated from "concept"), 20, 23 "Robinson Crusoe epistemology," 20 implementation, 80, 89, 157 Indigenous Energy Justice (IEJ), 36 indigenous social movements, 36 Ingold, T., 42, 105 in footnote, 8 institutional paths, 36 four mechanisms of lateral interaction, 35 institutions, 1, 5, 6, 10, 68, 141, 178 integrated pest management (IPM), 6, 60, 66 interactive physical enactment, 105 interactive physical enactment, 105 interconnected instrumentality, 77 internet, 64, 67, 71, 72, 73, 90 interpretive scheme, 34, 35 interruptions, 44, 45, 171, 174 intervention research: methodological challenges, 108 interventionist researchers, 181 interventions, 179, 180 movement towards, 152 use of term (frequency), 71 Knotworking in Library project, 66–76, 150 weak evolution, strong design, 180 Kostiainen, E., 51 Lave, J., 2 learning actions, 79 loops, repetitions, gaps, 26 sequence of six, 25 learning partions, 29 learning processes, 25, 28 learning rectorses, 59 learning rocesses, 25, 28 learning processes, 25, 28 learning processes, 25, 28 learning rocesses, 25, 28 learning processes, 25, 28 learning rocesses, 25, 28 learning processes, 25, 28 learning rocesses, 25, 28 learning processes, 25, 28 learning actions, 79 loops, repetitions, gaps, 26 sequence of six, 25 learning actions, 79 loops, repetitions, gaps, 26 sequence of six, 25 learning actions, 79 loops, repetitions, gaps, 26 sequence of six, 25 learning actions, 79 loops, repetitions, gaps, 26 sequence of six, 25 learning actions, 79 loops, repetitions, gaps, 26 sequence of six, 25 learning actions, 79 loops, repetitions, gaps, 26 sequence of six, 25 learning actions, 79 loops, repetitions, gaps, 26 sequence of six, 25 learning actions, 79 loops, repetitions, 99 learning actions, 79 loops, repetitions, 4, 3, 18, 139 interontones, 4, 4, 11, 17, 18 "motive goal" notion, 18 Marchal, T. H., 42 Mark	hybridization, 30, 141, 179	
identity, 18, 46, 47 ideologies, 10, 50, 141 idol of stability (Toulmin), 2 illness, 2, 78, 88, 91 Ilyenkov, E. V., 23, 30, 78, 148 dialectics of abstract and concrete, 20–22 "general notion" (differentiated from "concept"), 20, 23 "Robinson Crusee epistemology," 20 implementation, 80, 89, 157 Indigenous Energy Justice (IEJ), 36 indigenous social movements, 36 Ingold, T., 42, 105 in footnote, 8 institutional paths, 36 four mechanisms of lateral interaction, 35 institutions, 1, 5, 6, 10, 68, 141, 178 integrated pest management (IPM), 6, 60, 66 interactive physical environment, 101–103 interactive physical environment, 101–103 interronnected instrumentality, 77 interrone, 64, 67, 71, 72, 73, 90 interpretive scheme, 34, 35 interruptions, 44, 45, 171, 174 intervention researchers, 181 intervention researchers, 181 interventions, 179, 180 use of term (frequency), 71 Knotworking in Library project, 66–76, 150 weak evolution, strong design, 180 Kostiainen, E., 51 Knotworking in Library project, 66–76, 150 weak evolution, strong design, 180 Kostiainen, E., 51 Lave, J., 2 learning actions, 79 loops, repetitions, gaps, 26 sequence of six, 25 learning laboratories, 59 learning rocesses, 25, 28 learning rocesses, 25, 28 learning rocesses, 25, 28 learning actions, 79 loops, repetitions, qaps, 26 sequence of six, 25 learning laboratories, 59 learning laboratories, 59 learning actions, 79 loops, repetitions, qaps, 26 sequence of six, 25 learning actions, 79 loops, repetitions, qaps, 26 sequence of six, 25 learning actions, 79 leops, repetitions, 99 learning actions, 79 loops, repetitions, 19, 18 member of sequence of six, 25 learning actions, 79 leops, repetitions, 99 learning actions, 79 leops, repetitions, 19, 18 member of sequence of six, 25 learning actions, 79 leops, repetitions, 99 learning laboratories, 29 learning laboratories, 29 learning laboratories, 29 learning laboratories, 29		movement towards, 152
ideologies, 10, 50, 141 idol of stability (Toulmin), 2 illness, 2, 78, 88, 91 Ilyenkov, E. V., 23, 30, 78, 148 dialectics of abstract and concrete, 20–22 "general notion" (differentiated from "concept"), 20, 23 "Robinson Crusoe epistemology," 20 implementation, 80, 89, 157 Indigenous Energy Justice (IEJ), 36 indigenous social movements, 36 Ingold, T., 42, 105 in footnote, 8 institutional paths, 36 four mechanisms of lateral interaction, 35 institutions, 1, 5, 6, 10, 68, 141, 178 integrated pest management (IPM), 6, 60, 66 interactive physical enactment, 105 interactive physical environment, 101–103 interconnected instrumentality, 77 internet, 64, 67, 71, 72, 73, 90 interpretive scheme, 34, 35 interruptions, 24, 45, 171, 174 intervention research: methodological challenges, 108 interventionist researchers, 181 interventions, 179, 180 Mead, G. H., 177–178, 181 media, 3, 43, 47 mediating artifacts, 111, 114, 115, 137 performance of volitional actions, 113	identity, 18, 46, 47	
idol of stability (Toulmin), 2 illness, 2, 78, 88, 91 Ilyenkov, E. V., 23, 30, 78, 148 dialectics of abstract and concrete, 20–22 "general notion" (differentiated from "concept"), 20, 23 "Robinson Crusoe epistemology," 20 implementation, 80, 89, 157 Indigenous Energy Justice (IEJ), 36 indigenous social movements, 36 Ingold, T., 42, 105 in footnote, 8 institutional paths, 36 four mechanisms of lateral interaction, 35 institutions, 1, 5, 6, 10, 68, 141, 178 intergrated pest management (IPM), 6, 60, 66 interactive physical enactment, 105 interactive physical environment, 101–103 interconnected instrumentality, 77 internet, 64, 67, 71, 72, 73, 90 interpretive scheme, 34, 35 interryention research: methodological challenges, 108 interventionist researchers, 181 interventions, 26, 68, 157, 171, 172, See also formative interventions intraventions, 179, 180 weak evolution, strong design, 180 Kostiainen, E., 51 Lave, J., 2 learning actions, 79 loops, repetitions, gaps, 26 sequence of six, 25 learning laboratories, 59 learning rocesses, 25, 28 learning rocesses, 25, 28 learning actions, 79 loops, repetitions, gaps, 26 sequence of six, 25 learning actions, 79 loops, repetitions, gaps, 26 sequence of six, 25 learning actions, 79 loops, repetitions, gaps, 26 sequence of six, 25 learning actions, 79 loops, repetitions, gaps, 26 sequence of six, 25 learning actions, 79 loops, repetitions, gaps, 26 sequence of six, 25 learning actions, 79 loops, repetitions, gaps, 26 sequence of six, 25 learning actions, 79 loops, repetitions, gaps, 26 sequence of six, 25 learning actions, 79 loops, repetitions, gaps, 26 sequence of six, 25 learning actions, 79 loops, repetitions, gaps, 26 sequence of six, 25 learning actions, 79 loops, repetitions, gaps, 26 sequence of six, 25 learning actions, 79 loops, repetitions, gaps, 26 sequence of six, 25 learning actions, 79 loops, repetitions, gaps, 26 sequence of six, 25 learning actions, 79 le		Knotworking in Library project, 66-76, 150
Ilyenkov, E. V., 23, 30, 78, 148 dialectics of abstract and concrete, 20–22 "general notion" (differentiated from "concept"), 20, 23 "Robinson Crusoe epistemology," 20 implementation, 80, 89, 157 Indigenous Energy Justice (IEJ), 36 indigenous social movements, 36 Ingold, T., 42, 105 in footnote, 8 institutional paths, 36 four mechanisms of lateral interaction, 35 institutions, 1, 5, 6, 10, 68, 141, 178 integrated pest management (IPM), 6, 60, 66 interactive physical enactment, 105 interractive physical environment, 101–103 interconnected instrumentality, 77 interrent, 64, 67, 71, 72, 73, 90 interpretive scheme, 34, 35 interruptions, 44, 45, 171, 174 intervention research: methodological challenges, 108 interventionist researchers, 181 interventions, 26, 68, 157, 171, 172, See also formative interventions intraventions, 179, 180 Iave, J., 2 learning actions, 79 loops, repetitions, gaps, 26 sequence of six, 25 learning laboratories, 59 learning processes, 25, 28 learning: central aspect of all activity, 20 Leont'ev, A. N., 30, 83, 138, 153, 175, 184 activity theory (second generation), 18 "motive goal" notion, 18 "motive goal" notion, 18 Lévi-Strauss, C.: pensée sauvage, 6 Lindgren, A., 138, 139 linear residential treatment (LRT), 156, 163 Linell, P., 11 Lishin, O. V., 112 Löwy, I.: "strength of loose concepts," 37 Marchand, T. H., 42 Marková, I., xiii, 8, 17 social representations, 10–11 Marx, K., 20 Marxism, 3 material anchors (Hutchins), 11–12, 16, 80 Mead, G. H., 177–178, 181 media, 3, 43, 47 mediating artifacts, 111, 114, 115, 137 performance of volitional actions, 113		
dialectics of abstract and concrete, 20–22 "general notion" (differentiated from "concept"), 20, 23 "Robinson Crusoe epistemology," 20 implementation, 80, 89, 157 Indigenous Energy Justice (IEJ), 36 indigenous social movements, 36 Ingold, T., 42, 105 in footnote, 8 institutional paths, 36 four mechanisms of lateral interaction, 35 institutions, 1, 5, 6, 10, 68, 141, 178 integrated pest management (IPM), 6, 60, 66 interactive physical enactment, 105 interactive physical environment, 101–103 interconnected instrumentality, 77 interrent, 64, 67, 71, 72, 73, 90 interpretive scheme, 34, 35 interruptions, 44, 45, 171, 174 intervention research: methodological challenges, 108 interventionist researchers, 181 interventions, 26, 68, 157, 171, 172, See also formative interventions intraventions, 179, 180 Lave, J., 2 learning actions, 79 loops, repetitions, gaps, 26 sequence of six, 25 learning laboratories, 59 learning processes, 25, 28 learning recerses, 5 learning actions, 79 loops, repetitions, gaps, 26 sequence of six, 25 learning laboratories, 59 learning processes, 25, 28 learning laboratories, 59 learning rocesses, 25, 28 learning roc	illness, 2, 78, 88 , 91	Kostiainen, E., 51
"general notion" (differentiated from "concept"), 20, 23 "Robinson Crusoe epistemology," 20 implementation, 80, 89, 157 Indigenous Energy Justice (IEJ), 36 indigenous social movements, 36 Ingold, T., 42, 105 in footnote, 8 institutional paths, 36 four mechanisms of lateral interaction, 35 institutions, 1, 5, 6, 10, 68, 141, 178 integrated pest management (IPM), 6, 60, 66 interactive physical enactment, 105 interactive physical environment, 101–103 interconnected instrumentality, 77 internet, 64, 67, 71, 72, 73, 90 interpretive scheme, 34, 35 interruptions, 44, 45, 171, 174 intervention research: methodological challenges, 108 interventionist researchers, 181 interventions, 26, 68, 157, 171, 172, See also formative interventions intraventions, 179, 180 learning actions, 79 loops, repetitions, gaps, 26 sequence of six, 25 learning laboratories, 59 learning laboratories, 59 learning laboratories, 59 learning aboratories, 59 learning laboratories, 59 learning laboratories, 59 learning aboratories, 59 learning laboratories, 29 learning laboratories, 59 learning laboratories, 29 learning laborato	Ilyenkov, E. V., 23, 30, 78, 148	
"concept"), 20, 23 "Robinson Crusoe epistemology," 20 implementation, 80, 89, 157 Indigenous Energy Justice (IEJ), 36 indigenous social movements, 36 Ingold, T., 42, 105 in footnote, 8 institutional paths, 36 four mechanisms of lateral interaction, 35 institutions, 1, 5, 6, 10, 68, 141, 178 integrated pest management (IPM), 6, 60, 66 interactive physical enactment, 105 interactive physical environment, 101–103 interconnected instrumentality, 77 internet, 64, 67, 71, 72, 73, 90 interpretive scheme, 34, 35 interventionis researchers, 181 interventionist researchers, 181 interventions, 26, 68, 157, 171, 172, See also formative interventions intraventions, 179, 180 loops, repetitions, gaps, 26 sequence of six, 25 learning laboratories, 59 learning processes, 25, 28 learning rocesses, 25, 28 learning processes, 25, 28 learning rocental abertority, 20 Leon'ev, A. N., 30, 83, 138, 153, 175, 184 activity		
"Robinson Crusoe epistemology," 20 implementation, 80, 89, 157 Indigenous Energy Justice (IEJ), 36 indigenous social movements, 36 Ingold, T., 42, 105 in footnote, 8 institutional paths, 36 four mechanisms of lateral interaction, 35 institutions, 1, 5, 6, 10, 68, 141, 178 intergrated pest management (IPM), 6, 60, 66 interactive physical enactment, 105 interconnected instrumentality, 77 internet, 64, 67, 71, 72, 73, 90 interpretive scheme, 34, 35 interventionis researchers, 181 interventions, 26, 68, 157, 171, 172, See also formative interventions intraventions, 179, 180 sequence of six, 25 learning laboratories, 59 learning processes, 25, 28 learning processes, 25, 28 learning laboratories, 59 learning laboratories, 25, 28 learning laboratories, 25, 26 learning laboratories, 25, 26 learning laboratories, 25, 26 learning lab		
implementation, 80, 89, 157 Indigenous Energy Justice (IEJ), 36 indigenous social movements, 36 Ingold, T., 42, 105 in footnote, 8 institutional paths, 36 four mechanisms of lateral interaction, 35 institutions, 1, 5, 6, 10, 68, 141, 178 integrated pest management (IPM), 6, 60, 66 interactive physical enactment, 105 interactive physical environment, 101–103 interconnected instrumentality, 77 internet, 64, 67, 71, 72, 73, 90 interpretive scheme, 34, 35 interruptions, 44, 45, 171, 174 intervention research: methodological challenges, 108 interventionist researchers, 181 interventions, 26, 68, 157, 171, 172, See also formative interventions intraventions, 179, 180 indigenous Social movements, 36 learning laboratories, 59 learning laboratories, 25, 28 learning locatral aspect of all activity, 20 Leon'ev, A. N., 30, 83, 138, 153, 175, 184 activit beory (second generation), 18 "motive goal" notion, 18 Lévi-Strauss, C.: pensée sauvage, 6 Lindgren, A., 138, 139 linear residential treatment (LRT), 156, 163 Linell, P., 11 Lishin, O. V., 112 Löwiy, I.: "strength of loose concepts," 37 Marková, I., xiii, 8, 17 social representations, 10–11 Marx, K., 20 Marxism, 3 material anchors (Hutchins), 11–12, 16, 80 Mead, G. H., 177–178, 181 media, 3, 43, 47 mediating artifacts, 111, 114, 115, 137 performance of volitional actions, 113		
Indigenous Energy Justice (IEJ), 36 indigenous social movements, 36 Ingold, T., 42, 105 in footnote, 8 institutional paths, 36 four mechanisms of lateral interaction, 35 institutions, 1, 5, 6, 10, 68, 141, 178 integrated pest management (IPM), 6, 60, 66 interactive physical enactment, 105 interactive physical environment, 101–103 interconnected instrumentality, 77 internet, 64, 67, 71, 72, 73, 90 interpretive scheme, 34, 35 interruptions, 44, 45, 171, 174 intervention research: methodological challenges, 108 interventions, 26, 68, 157, 171, 172, See also formative interventions intraventions, 179, 180 Iearning processes, 25, 28 learning: central aspect of all activity, 20 Leont'ev, A. N., 30, 83, 138, 153, 175, 184 activit theory (second generation), 18 "motive goal" notion, 18 Lévi-Strauss, C.: pensée sauvage, 6 Lindgren, A., 138, 139 linear residential treatment (LRT), 156, 163 Linell, P., 11 Lishin, O. V., 112 Löwy, I.: "strength of loose concepts," 37 Marchand, T. H., 42 Marková, I., xiii, 8, 17 social representations, 10–11 Marx, K., 20 Marxism, 3 material anchors (Hutchins), 11–12, 16, 80 Mead, G. H., 177–178, 181 media, 3, 43, 47 mediating artifacts, 111, 114, 115, 137 performance of volitional actions, 113		
indigenous social movements, 36 Ingold, T., 42, 105 in footnote, 8 institutional paths, 36 four mechanisms of lateral interaction, 35 institutions, 1, 5, 6, 10, 68, 141, 178 integrated pest management (IPM), 6, 60, 66 interactive physical enactment, 105 interactive physical environment, 101–103 interonnected instrumentality, 77 internet, 64, 67, 71, 72, 73, 90 interpretive scheme, 34, 35 interruptions, 44, 45, 171, 174 intervention research: methodological challenges, 108 interventions, 26, 68, 157, 171, 172, See also formative interventions intraventions, 179, 180 interventions, 179, 180 intervention research: methodological challenges, 101 interventions, 179, 180 interventions, 179, 180 learning: central aspect of all activity, 20 Leont'ev, A. N., 30, 83, 138, 153, 175, 184 activit theory (second generation), 18 "motive goal" notion, 18 Lévi-Strauss, C.: pensée sauvage, 6 Lindgren, A., 138, 139 linear residential treatment (LRT), 156, 163 Linell, P., 11 Lishin, O. V., 112 Lishin, O. V., 112 Lishin, O. V., 112 Lishin, O. V., 112 Marková, I., xiii, 8, 17 social representations, 10–11 Marx, K., 20 Marxism, 3 material anchors (Hutchins), 11–12, 16, 80 Mead, G. H., 177–178, 181 media, 3, 43, 47 mediating artifacts, 111, 114, 115, 137 performance of volitional actions, 113		
Ingold, T., 42, 105 in footnote, 8 institutional paths, 36 four mechanisms of lateral interaction, 35 institutions, 1, 5, 6, 10, 68, 141, 178 integrated pest management (IPM), 6, 60, 66 interactive physical enactment, 105 interactive physical environment, 101–103 interconnected instrumentality, 77 internet, 64, 67, 71, 72, 73, 90 interpretive scheme, 34, 35 interruptions, 44, 45, 171, 174 intervention research: methodological challenges, 108 interventionist researchers, 181 interventions, 26, 68, 157, 171, 172, See also formative interventions intraventions, 179, 180 Leoni'ev, A. N., 30, 83, 138, 153, 175, 184 activity theory (second generation), 18 "motive goal" notion, 18 Lévi-Strauss, C.: pensée sauvage, 6 Lindgren, A., 138, 139 Linell, P., 11 Lishin, O. V., 112 Löwy, I.: "strength of loose concepts," 37 Marchand, T. H., 42 Marková, I., xiii, 8, 17 social representations, 10–11 Marx, K., 20 Marxism, 3 material anchors (Hutchins), 11–12, 16, 80 Mead, G. H., 177–178, 181 media, 3, 43, 47 mediating artifacts, 111, 114, 115, 137 performance of volitional actions, 113		
in footnote, 8 institutional paths, 36 four mechanisms of lateral interaction, 35 institutions, 1, 5, 6, 10, 68, 141, 178 integrated pest management (IPM), 6, 60, 66 interactive physical enactment, 105 interactive physical environment, 101–103 interconnected instrumentality, 77 internet, 64, 67, 71, 72, 73, 90 interpretive scheme, 34, 35 interruptions, 44, 45, 171, 174 intervention research: methodological challenges, 108 interventionist researchers, 181 interventions, 26, 68, 157, 171, 172, See also formative interventions intraventions, 179, 180 activity theory (second generation), 18 "motive goal" notion, 18 Lévi-Strauss, C.: pensée sauvage, 6 Lindgren, A., 138, 139 linear residential treatment (LRT), 156, 163 Linell, P., 11 Lishin, O. V., 112 Löwy, I.: "strength of loose concepts," 37 Marchand, T. H., 42 Marková, I., xiii, 8, 17 social representations, 10–11 Marx, K., 20 Marxism, 3 material anchors (Hutchins), 11–12, 16, 80 Mead, G. H., 177–178, 181 media, 3, 43, 47 mediating artifacts, 111, 114, 115, 137 Jensen. U. J., 2		
institutional paths, 36 four mechanisms of lateral interaction, 35 institutions, 1, 5, 6, 10, 68, 141, 178 integrated pest management (IPM), 6, 60, 66 interactive physical enactment, 105 interactive physical environment, 101–103 interconnected instrumentality, 77 internet, 64, 67, 71, 72, 73, 90 interpretive scheme, 34, 35 interruptions, 44, 45, 171, 174 intervention research: methodological challenges, 108 interventionist researchers, 181 interventions, 26, 68, 157, 171, 172, See also formative interventions intraventions, 179, 180 interventions, 179, 180 "motive goal" notion, 18 Lévi-Strauss, C.: pensée sauvage, 6 Lindgren, A., 138, 139 linear residential treatment (LRT), 156, 163 Linell, P., 11 Lishin, O. V., 112 Löwy, I.: "strength of loose concepts," 37 intervention, T. H., 42 Marková, I., xiii, 8, 17 social representations, 10–11 Marx, K., 20 Marxism, 3 material anchors (Hutchins), 11–12, 16, 80 Mead, G. H., 177–178, 181 media, 3, 43, 47 mediating artifacts, 111, 114, 115, 137 performance of volitional actions, 113		
four mechanisms of lateral interaction, 35 institutions, 1, 5, 6, 10, 68, 141, 178 integrated pest management (IPM), 6, 60, 66 interactive physical environment, 101–103 interconnected instrumentality, 77 internet, 64, 67, 71, 72, 73, 90 interpretive scheme, 34, 35 interruptions, 44, 45, 171, 174 intervention research: methodological challenges, 108 interventionist researchers, 181 interventions, 26, 68, 157, 171, 172, See also formative interventions intraventions, 179, 180 interval interventions, 179, 180 interval intervention of volitional actions, 113		activity theory (second generation), 18
institutions, 1, 5, 6, 10, 68, 141, 178 integrated pest management (IPM), 6, 60, 66 interactive physical enactment, 105 interconnected instrumentality, 77 interconnected instrumentality, 77 interpretive scheme, 34, 35 interruptions, 44, 45, 171, 174 intervention research: methodological challenges, 108 interventionist researchers, 181 interventions, 26, 68, 157, 171, 172, See also formative interventions intraventions, 179, 180 Lindgren, A., 138, 139 linear residential treatment (LRT), 156, 163 Linell, P., 11 Lishin, O. V., 112 Löwy, I.: "strength of loose concepts," 37 Marchand, T. H., 42 Marková, I., xiii, 8, 17 social representations, 10–11 Marx, K., 20 Marxism, 3 material anchors (Hutchins), 11–12, 16, 80 Mead, G. H., 177–178, 181 media, 3, 43, 47 mediating artifacts, 111, 114, 115, 137 performance of volitional actions, 113		motive goal notion, 18
integrated pest management (IPM), 6, 60, 66 interactive physical enactment, 105 interactive physical environment, 101–103 interconnected instrumentality, 77 internet, 64, 67, 71, 72, 73, 90 interpretive scheme, 34, 35 interruptions, 44, 45, 171, 174 intervention research: methodological challenges, 108 interventionist researchers, 181 interventions, 26, 68, 157, 171, 172, See also formative interventions intraventions, 179, 180 intervention, 171, 172, 172, 173, 174 intervention, 174, 175, 175, 175, 177 intervention, 174, 175, 175, 175, 175, 175, 177 intervention, 174, 175, 175, 175 intervention, 170, 174 intervention, 170, 170 intervention		
interactive physical enactment, 105 interactive physical environment, 101–103 interconnected instrumentality, 77 internet, 64, 67, 71, 72, 73, 90 interpretive scheme, 34, 35 interruptions, 44, 45, 171, 174 intervention research: methodological challenges, 108 interventionist researchers, 181 interventions, 26, 68, 157, 171, 172, See also formative interventions intraventions, 179, 180 Ichnell, P., 11 Lishin, O. V., 112 Löwy, I.: "strength of loose concepts," 37 Marchand, T. H., 42 Marková, I., xiii, 8, 17 social representations, 10–11 Marx, K., 20 Marxim, 3 material anchors (Hutchins), 11–12, 16, 80 Mead, G. H., 177–178, 181 media, 3, 43, 47 mediating artifacts, 111, 114, 115, 137 Jensen. U. J., 2		
interactive physical environment, 101–103 interconnected instrumentality, 77 internet, 64, 67, 71, 72, 73, 90 interpretive scheme, 34, 35 interruptions, 44, 45, 171, 174 intervention research: methodological challenges, 108 interventionist researchers, 181 interventions, 26, 68, 157, 171, 172, See also formative interventions intraventions, 179, 180 Lishin, O. V., 112 Löwy, I.: "strength of loose concepts," 37 Marchand, T. H., 42 Marková, I., xiii, 8, 17 social representations, 10–11 Marx, K., 20 Marxism, 3 material anchors (Hutchins), 11–12, 16, 80 Mead, G. H., 177–178, 181 media, 3, 43, 47 mediating artifacts, 111, 114, 115, 137 Jensen. U. J., 2		
interconnected instrumentality, 77 internet, 64, 67, 71, 72, 73, 90 interpretive scheme, 34, 35 interruptions, 44, 45, 171, 174 intervention research: methodological challenges, 108 interventionist researchers, 181 interventions, 26, 68, 157, 171, 172, See also formative interventions intraventions, 179, 180 Icwy, I.: "strength of loose concepts," 37 Marchand, T. H., 42 Marková, I., xiii, 8, 17 social representations, 10–11 Marx, K., 20 Marxism, 3 material anchors (Hutchins), 11–12, 16, 80 Mead, G. H., 177–178, 181 media, 3, 43, 47 mediating artifacts, 111, 114, 115, 137 performance of volitional actions, 113		
internet, 64, 67, 71, 72, 73, 90 interpretive scheme, 34, 35 interruptions, 44, 45, 171, 174 intervention research: methodological challenges, 108 interventionist researchers, 181 interventions, 26, 68, 157, 171, 172, See also formative interventions interventions, 179, 180 Marx, K., 20 Marxism, 3 material anchors (Hutchins), 11–12, 16, 80 Mead, G. H., 177–178, 181 media, 3, 43, 47 mediating artifacts, 111, 114, 115, 137 Jensen. U. J., 2		
interpretive scheme, 34, 35 interruptions, 44, 45, 171, 174 intervention research: methodological challenges, 108 interventionist researchers, 181 interventions, 26, 68, 157, 171, 172, See also formative interventions intraventions, 179, 180 Marchand, T. H., 42 Marková, I., xiii, 8, 17 social representations, 10–11 Marx, K., 20 Marxism, 3 material anchors (Hutchins), 11–12, 16, 80 Mead, G. H., 177–178, 181 media, 3, 43, 47 mediating artifacts, 111, 114, 115, 137 Jensen. U. J., 2		Lowy, 1.: strength of loose concepts, 3/
interruptions, 44, 45, 171, 174 intervention research: methodological challenges, 108 interventionist researchers, 181 interventions, 26, 68, 157, 171, 172, See also formative interventions intraventions, 179, 180 Jensen. U. J., 2 Marková, I., xiii, 8, 17 Marx, K., 20 Marxism, 3 material anchors (Hutchins), 11–12, 16, 80 Mead, G. H., 177–178, 181 media, 3, 43, 47 mediating artifacts, 111, 114, 115, 137 performance of volitional actions, 113		Marchand T H 42
intervention research: methodological challenges, 108 social representations, 10–11 Marx, K., 20 interventionist researchers, 181 Marxism, 3 material anchors (Hutchins), 11–12, 16, 80 formative interventions Mead, G. H., 177–178, 181 media, 3, 43, 47 mediating artifacts, 111, 114, 115, 137 Jensen. U. J., 2 performance of volitional actions, 113		
interventionist researchers, 181 interventions, 26, 68, 157, 171, 172, See also formative interventions intraventions, 179, 180 Jensen. U. J., 2 Marx, K., 20 Marxism, 3 material anchors (Hutchins), 11–12, 16, 80 Mead, G. H., 177–178, 181 media, 3, 43, 47 mediating artifacts, 111, 114, 115, 137 performance of volitional actions, 113		
interventionist researchers, 181 interventions, 26, 68, 157, 171, 172, See also formative interventions intraventions, 179, 180 Jensen. U. J., 2 Marxism, 3 material anchors (Hutchins), 11–12, 16, 80 Mead, G. H., 177–178, 181 media, 3, 43, 47 mediating artifacts, 111, 114, 115, 137 performance of volitional actions, 113		
interventions, 26, 68, 157, 171, 172, See also formative interventions intraventions, 179, 180 material anchors (Hutchins), 11–12, 16, 80 Mead, G. H., 177–178, 181 media, 3, 43, 47 mediating artifacts, 111, 114, 115, 137 Jensen. U. J., 2 performance of volitional actions, 113	_	
formative interventions Mead, G. H., 177–178, 181 intraventions, 179, 180 media, 3, 43, 47 mediating artifacts, 111, 114, 115, 137 Jensen. U. J., 2 performance of volitional actions, 113		
intraventions, 179, 180 media, 3, 43, 47 mediating artifacts, 111, 114, 115, 137 Jensen. U. J., 2 performance of volitional actions, 113		
mediating artifacts, 111, 114, 115, 137 Jensen. U. J., 2 performance of volitional actions, 113		_
Jensen. U. J., 2 performance of volitional actions, 113		
	Jensen. U. J., 2	

Mehan, B., 2	one-sided expressions of will, 119, 125, 127
Melville, H.: Moby Dick, 151	one-way lecturing, 74, 75
mental health problems, 156, 163, 166	organization studies, 34
mental models (Senge), 59	Organization Studies (special issue, 2020), 43
Mind, Culture, and Activity (special issue), xiii	organizational activity games (Gromyko), 24
mirror data, 62, 69, 71	organizational archetypes, 34
mobility, 126, 127	organizational categorization, 43
dominant cultural images, 81	three types of action (Durand et al.), 43
home care, 78–108	organizational change effort, 34
mobility agreement, 78, 86, 88 , 89, 105, 106,	organizational environmentalism, 35
110, 114, 116, 145	organizations, 6, 25, 33, 36, 37, 43, 50, 109,
expansive use, 117	112, 139, 155, 157, 182
passim, 119–136	concept formation, 3
mobility challenge: home care, 81–85	ostensive definition, 41
mobility exercise booklet, 83, 117, 122, 124,	Ostrobothnia (Finland), 60
132, 133, 136	Cotrobotima (Financi), 00
mobility exercises, 78, 115, 127, 153, See also	partial solutions, 146–149
daily chores	pathway concepts: three types, 57
model consolidation, 26	pathway representations, 54–58
model examination, 26, 89	pathways, 50
model implementation, 26	Pathways Housing First (PHF), 158–160, 171,
	See also Y-Foundation
model-based reasoning (Nersessian), 12–13	contradictions between substances and home
modeling, 26, 30, 80, 89	
modes of collaboration (Engeström et al.), 112	163
Moscovici, S., 8	key differences from Finnish Housing First,
semiotic triangle, 10, 11	161–162
social representations, 10–11	original model (New York) of Housing First,
motherhood concept, 157	158
notion "too vague," 158	principles, 158
Mukhopadhyay, S., xiii, 39	scattered-site housing, 159, 160
multimodal concepts: versus single-mode	perspective-dependence (PD): key concept
representations, 80	(Cussins), 8–10
. 1 1/ 11 .:	perspective-dependence ratio, 8, 9, 140, 154
name in lead (collective concept formation), 139,	perspective-independence, 8
149-152	pest management (whitefly), 60–66
narratives, 50	physical actions, 41, 80, 90, 115, 119, 122, 13
need state (Bratus and Lishin), 112, 137	physical exercises, 81, 83, 105
negotiated knotworking (Engeström), 174	plans, 50, 58, 119
Nelson, K., 49	Pleace, N., 52
Nersessian, N. J., xiii, 5, 8	possibility knowledge (Engeström), 32, 165
model-based reasoning, 12–13	possibilization, 53, 54
"source domain concept," 42	post-traumatic stress disorder (PTSD), 44
network of cooperatives, 147	pragmatic concept: definition, 33
New York, 158	Prinz, J., 80
homelessness (prevalence), 160	problem-solving, 13, 16, 24, 30, 73, 109
Nopsajalka (Deerfoot) mobile homelessness	process concepts, 6, 58–74
service, 166–177	epistemic potential, 57–59
elements, 174	production: experimental aspect (Davydov), 24
Nummijoki, J., xiii, 78, 83, 115, 180	productive activities (functional concepts),
researcher (Anne case study), 89, 90–103, 106,	33-77
108	prototype concepts, 6, 37–42, 181, 183
	Chartres cathedral, 38
object-orientation, 181	epistemic potential, 41–42
objects, 1, 2, 11, 20, 21, 32, 49, 80, 145	primary function, 42
objet trouvé, 113	prototype theory of categorization (Rosch), 38

prototypes	Sawyer, R. K.: Explaining Creativity (2012), 138
definition, 37	school instruction, 32
mental experience (Rosch), 38	Davydov's critique, 23
Pyyvaara, U., 52	Schrijvers, G., 50
	science: "superior form of human cognition," 24
Querol, M.P., xiii, 60	scientific concepts, 5, 15, 23
questioning, 25, 26, 80, 89	scientific laboratories, 13
first learning action (great importance),	scientific theoretical thought, 22
27	scripts, 50–74, 116, 116 , 117, 119, 125, 126
	second stimulus, 7, 63, 66, 71, 73, 75, 98, 110,
Radford, L., 24	113, 114
Rantavuori, J., xiii, 28	function of counting, 128
Rasmussen, E. B., 45	passim, 125–136
real conflict of stimuli, 17, 131	turned into germ cell, 74
realized activity, 138, 153, 175	Segrott, J., 58
recontextualization, 54	Senge, P. M., 59
reflection, 80, 89, 101	service integration, 165, 173
reflective consciousness, 178, 181	service learning, 184
regularity of movement, 126, 131, 133	shared object, 19, 111, 112, 146
rental agreements, 160, 164	situated cognition, 5
representational modality, 7, 142	situations (Rosch), 38
Research Engagement for Sustainable and	snirkels, 138, 139, 150
Equitable Transformations (RESET), xiii,	social housing, 159
157	social interaction, 49, 81, 97, See also embodied
research groups, 149, 150, 151	social interaction
researchers and research groups (Knotworking in	social knowledge theory, 10
Library project), 68–76	social media, 64
resource extraction, 36	social movements, xiii, 3, 22
responsibility, 46, 47, 49, 62, 66, 73, 87 , 110	social representations, 10-11
restaurant script, 50	somatic anchors (for concepts), 80
RISE (Criminal Sanction Agency), 171	Somers, M. R.: historical sociology of concept
Rissanen, P., 165	formation, 35
Roberts, K. H., 42	source domains (Nersessian), 42, 113, 124, 137
Rogalski, J., 33	stabilization, 7, 11, 140, 142, 151, 153
Rosch, E., 38	definition, 9
runaway objects, 19	key concept (Cussins), 8, 9–10
Ryle, G., 3	staircase model, See linear residential treatment
	(LRT)
saattaen vaihdettava, <i>See</i> escorted transfer	standing up from chair, 82, 122, 126, 132
safety, 85, 107, 126, 129, 145	candidate germ cell, 81–85, 103
Salles-Djelic, M. L., 35–36	data and method, 85-90
Sande, C. van de, 106	germ cell of sustainable mobility, 6, 103-105
Sannino, A., xiii, 16, 17, 108, 109, 112	124, 137, 152, 153, 183
activity theory (fourth generation), 19	home-care-visit evidence (2008-2009),
change laboratory (homelessness), 52	86
leader of RESET research group (Tampere	interactive physical enactment, 101-103, 105
University), 157	internally contradictory germ cell of
mediating artifacts (dynamic sense), 113	sustainable mobility, 84
model (2020) of transformative agency by	longitudinal follow-up and analysis, 86
double stimulation, 16	procedure, 84
professional agency among homelessness	standing up from chair: concept formation (Anne
workers, 167	case study), 86–108
work on TADS, 27	1: articulating conflict of motives, 90–92
Sannino's research group (homelessness), 167,	2: forming germ cell, 92
168, 173, 174, 176	3: examining germ cell model, 92
	, , , , , , , , , , , , , , , , , , , ,

4: implementing model by ascending to	Moscovici, Marková and social
concrete, 93–101	representations, 10–11
5: reflecting on process and outcomes, 101	Nersessian and model-based reasoning, 12–13
Jaana Nummijoki (researcher), 89, 90–103,	summary, 13–14
106, 108	Timonen, A., 52
Tina (home-care worker), 89, 90–103, 104,	Toulmin, S., 2
105, 106, 108	transformations, 10, 26, 30
Star, S. L., 2, 43, 44, 112	transformative action, 114, 180
statistics, 51, 58, 64, 160	transformative agency, 17, 20, 31, 73, 74, 111,
Sterman, J. D., 59	128
Stewart, J., 41	definition, 112
stories, 50, 58	transformative agency by double stimulation
Strauss, A. L.: in footnote, 66	(TADS), 27
substance use, 156, 162, 163, 166, 170	trust, 89, 166, 170, 172, 176
Suchman, L., 2	Tsemberis, S., 158–163, 171
Sunikka, S., 51	Tulloch, D., 51
surgical operating unit (university hospital in	Turnbull, D.: on Chartres cathedral, 37
Finland), 45–49	Turner, M., 37
organization chart (new), 48	. 1
organization chart (old), 46	unexpected, 49, 70, 165, 177
sustainability, 35, 36	United States, 2, 52, 159
sustainable mobility, 7, 107, 131, 137, 154, 175,	homelessness (prevalence 2015–2020), 160
176, 183	unity in diversity, 21, 30
emerging concept, 107, 122	university hospital (transformation of surgical
expansive concept, 146	operating unit), 45–49
germ cell, 6 standing up from chair "germ cell action,"	change laboratory, 45–49
standing up from chair germ cen action,	University of Helsinki, xiii University of Helsinki library, 140, 181
strong design strong evolution 180	
strong design, strong evolution, 180 Swain, G., 43	activity systems (developmental contradictions), 145
systems concepts, 6, 59–66	chain of actions (germ cell concept formation),
systems concepts; epistemic potential, 66	75
systems concepts. epistemic potential, oo	change laboratory, 66–76
Tampere, 157	collective concept formation with name in
city-level homelessness change laboratory	lead, 149–152, 153
(2019), 166–167	germ cell concept of knotworking, 76
Tampere Action Program for Halving	movement towards knotworking concept, 152
Homelessness (2020–2022), 166–167	researchers versus academic librarians
Tampere University, xiii	(emerging gap), 144–145
tangible solutions, 146–149	(
generated by expansive learning, 147	Vänninen, I., xiii, 60
target, 88 , 111, 137	Vasilyuk, F., 112
tensions, 12, 13, 17, 69	Vergne, J. P., 43
and conflicts (centrality), 11	Vidal-Gomel, C., 33
testing, 80, 131, 139, 167	videotape, 7, 86, 110, 115
theoretical concepts, 30, 32	virtuous representational activity (Cussins), 9, 10
dialectical movement from abstract to	volitional actions, 16, 17, 111, 114, 116, 125,
concrete, 80	127, 128, 130, 132, 136, 137
initial production, 79	"core of transformative agency," 112
theoretical concepts (Davydov), 2	double stimulation (Vygotsky) "foundational
theoretical thought: origins (Davydov), 23	mechanism," 109
theorizing concept formation in wild (first	pave way for conceptualization efforts, 114
lessons), 6, 8–14	relationship with artifact use, 119
Cussins and cognitive trails, 8–10	vulnerable and fragile nature, 122
Hutchins and material anchors, 11-12	Vygotsky, 112

volitional change actions: emergence, 109
Vulnerability Index, 160
Vygotsky, L. S., 30, 112, 128
activity theory (first generation), 18
culturally-mediated action "prime unit of
analysis," 18
distinction between scientific and everyday
concepts, 15, 22–24
double stimulation, 15–17, 109
experiment of meaningless situation, 17
mediating artifacts (dynamic sense), 113
Thinking and Speech (1987[1934]), 15
volitional action concept, 112
waiting experiment, 17

waiting list, 47
Wartofsky, M. W.
activity theory (third generation), 18–19
"secondary artifacts," 18
"tertiary artifacts," 18
wayfaring (Ingold), 105

Weick, K. E., 42
whitefly (T. vaporariorum), 60–66
systemic model, 65
Wiesel, I., 51
Wittgenstein, L., 38
words: as material anchors, 16
work activities, 3, 22, 109, 112, 133, 135, 136, 137, 139
work: concept formation, 3
working hypothesis, 85, 142, 143, 149, 177
working together, 174
workplaces, xiii, 24, 25, 31
World Economic Forum, 156

Y-Foundation, 167, *See also* Finnish Housing First Y-Foundation: Housing First Development Network, 168

Zinchenko, V. P., 18 Zott, C., 35