

Index

- 2030 Agenda, 6, 22
- accelerator, 289, 292, 311, 355
- actor-oriented model, 13
- agent computing, 13, 27
- agent-based modelling, 13
- aid data, 240
- aid effectiveness, 231
- aid-to-government-expenditure ratio, 240
- Akamatsu, Kaname, 151
- allocation profile, 26, 111
- Arthur, Brian, 8
- Axelrod, Robert, 14, 150
- Axtell, Robert, 13, 14
- behavioural rules, 30
- benchmark analysis, 85
- big push theory, 291
- bottleneck, 25, 189, 289, 311, 352
- idiosyncratic bottleneck, 189
- systemic bottleneck, 313
- bottom-up multi-agent models, 13
- Boudon, Raymond, 30
- 390
- budgetary frontier, 190
- bureaucrat, 110
- calibration, 130
- Carley, Kathleen, 144
- causal inference, 34
- central authority, 117
- Coleman's boat, 31
- Coleman, James, 30
- collateral indicator, 56, 106
- collective action, 210
- complexity science, 24
- computable general equilibrium, 89
- computational social science, 367
- confidence interval, 140
- contribution (agent choice), 111
- contribution (federal transfer), 268
- corruption, 25, 207
- counterfactual, 34, 153, 310
- data-generating process, 27
- dependency account of causation, 27, 35, 38
- deprivation, 324, 356

- development gap, 169, 171, 351
devolved government, 265
difference-in-differences, 39
differential evolution, 279
disbursement schedule, 117
downward causation, 33

Elster, Jon, 30
ENIGH, 335
Epstein, Joshua, 14

feasibility, 167
Fiscal Coordination Act, 268
fiscal federalism, 267
fiscal imbalance, 268
flying geese, 151
fungibility, 232

gap closure, 170, 176
gapping, 119
Gaussian process, 250
general equilibrium model, 88
generative account of causation, 27, 35, 42
generative causation, 30
goal, 22
goodness of fit, 137
government expenditure, 23, 72–74, 97, 216, 233, 336, 346
government official, 110
gradient descend, 132
growth diagnostics, 291

Heckman, James, 34
Hedström, Peter, 30
horizontal mechanism, 35
Human Development Index, 277
hypothesis testing, 142, 248

impact evaluation, 34
impact metric, 51, 244
individual-based model, 13
inefficiency, 111
instrumental indicator, 56, 106
international aid, 231, 354

lateral causation, 33
learning, 114, 116

Merton, Robert, 30
microdata, 28
Millennium Development Project, 119
Monsiváis, Carlos, 3
Monte Carlo simulation, 44, 108, 131, 135, 153
multi-agent system, 13
multidimensional poverty, 324

natural experiment, 38, 49
neoclassical, 13, 26
network analysis, 92, 101, 160
network topology, 23
null model, 142

392 INDEX

- Open Government, 5, 70
Oportunidades, 271
overfitting, 158
- parameter recovery, 154
participation (federal transfer), 268
Pearl, Judea, 34
policy guidelines, 357
policy landscape, 223
policy prioritisation, 23
Policy Priority Inference, 10, 26
principal-agent, 25, 111, 209
Procampo, 271
production account of causation, 27, 35
public functionary, 110
public governance, 207, 353
public servant, 110
- randomised controlled trial, 84
rational-equilibrium model, 13
regression analysis, 86, 233
remittances, 325, 335, 356
rule of law, 25, 75, 207
- Schelling, Thomas, 150
Simon, Herbert, 366
social mechanisms, 30
social norm, 113, 116, 210
- socioeconomic rights, 324
spillovers, 24, 87, 104, 108, 145, 160
spline, 226
strategic planning, 359
structural causal models, 28
structural factor, 108
subnational central governments, 267
subnational development, 265, 357
surrogate model, 129
Sustainable Development Goals, 6, 56
Sustainable Development Report, 55
Swedberg, Richard, 30
synergy, 23, 167
system dynamics, 91
systemic bottleneck, 289
systems thinking, 24, 210
- trade-off, 23, 167
- United Nations, 6
United Nations Development Programme, 10
- validation, 144, 256
external validation, 144
internal validation, 147
soft validation, 150
stakeholder validation, 151