Contents

| List | of boxes, figures and tables | vii |
|------|--|--------------------------|
| List | of contributors | $\mathcal{X}\mathcal{V}$ |
| List | of acronyms and abbreviations | xvii |
| Ack | nowledgements | xxi |
| Intr | oduction | 1 |
| Rati | bin Roy, Antoine Heuty and Francisco Rodríguez | |
| 1 | Investing in Development: The Millennium Development Goals, Aid and Sustainable Capital Accumulation <i>Rathin Roy and Antoine Heuty</i> | 15 |
| 2 | Fiscal Space for What? Analytical Issues from a Human Development Perspective <i>Rathin Roy, Antoine Heuty and Emmanuel Letouzé</i> | 31 |
| 3 | Fiscal Space for Public Investment: Towards a Human Development Approach <i>Rathin Roy, Antoine Heuty and Emmanuel Letouzé</i> | 67 |
| 4 | The Fiscal Space Conjecture: Theoretical Reflections <i>Sanjay G. Reddy</i> | 93 |
| 5 | Understanding Fiscal Expansions Francisco Rodríguez | 105 |
| 6 | A Review of Four Case Studies on Fiscal Space: Morocco, Senegal, Thailand and Venezuela <i>Indira Rajaraman</i> | 133 |

vi FISCAL SPACE

| 7 | Guaranteeing Fiscal Space for Human Development in Morocco Jean-François Brun, Gérard Chambas and Fouzi Mourji | 165 |
|-----|--|-----|
| 8 | Securing Fiscal Space for the Millennium Development Goals in Senegal Adama Diam, Samuel Guérineau and Sylviane Guillaumont Jeanneney | 249 |
| 9 | The Fiscal Space of Thailand: An Historical Analysis Karel Jansen and Choedchai Khannabha | 325 |
| 10 | Plenty of Room? Fiscal Space in a Resource-Abundant Economy: The Case of Venezuela María Antonia Moreno and Francisco Rodríguez | 399 |
| Арр | endix: Selected Economic Indicators (2006) for Morocco, Senegal, Thailand and Venezuela | 483 |

List of Boxes, Figures and Tables

Boxes

| 2.1 | The fiscal space diamond | 37 |
|-----|---|-----|
| 2.2 | The case of Thailand's developmental transformation | 40 |
| 7.1 | A methodology for assessing tax effort | 182 |
| 7.2 | Shocks, management of government finances and fiscal space | 183 |
| 7.3 | The treasury bond auction market | 201 |
| 7.4 | FEC sectoral programmes | 214 |
| 7.5 | Mobilizing additional resources without creating economic distortions | |
| | that penalize growth | 227 |
| 7.6 | Opportunities for mobilizing additional resources while reducing | |
| | inequalities | 228 |
| 7.7 | Prospects for expanding budgetary space without compromising the | |
| | sustainability of public finances | 235 |

FIGURES

| 1.1 | Regime of accumulation and development outcomes | 20 |
|------|--|-----|
| 2.1. | The fiscal space diamond | 37 |
| 2.2 | 'Scenario 2 country' – exit from aid and scaling up | 53 |
| 2.A1 | The fiscal space diamond: Sierra Leone | 61 |
| 3.1 | Public investment in developing countries, 1970–2000 | 69 |
| 3.2 | Public investment in Argentina, Brazil and Mexico, 1970–2000 | 69 |
| 3.3 | Public investment by developing region, 1970–2000 | 70 |
| 3.4 | Public expenditure 1980–2001 for 11 African countries | 71 |
| 3.5 | Public capital formation by income group, 1980–2005 | 79 |
| 5.1 | (a) Expenditures and revenues; (b) deficit and debt to GDP ratios; | |
| | (c) hazard rate of fiscal expansion | 111 |
| 5.2 | Smoothed hazard function, by region | 119 |
| 5.3 | Conditional hazard functions | 126 |

| 5.4 | Evolution of covariates during fiscal expansions | 128 |
|-------|--|-----|
| 7.1 | Trends in public revenues as a percentage of GDP | 178 |
| 7.2 | Changes in the balance of government finances | 182 |
| 7.3 | Changes in the levels of government spending as a percentage of GDP, | |
| | 1980–2005 | 185 |
| 7.4 | Changes in tax structure as a percentage of GDP, 1980–2006 | 186 |
| 7.5 | Trends in the real effective exchange rate | 201 |
| 7.6 | Trend in the average cost of internal debt | 205 |
| 8.1 | Changes in rate of public taxation in Senegal, 1970–2003 | 268 |
| 8.2 | Changes in the structure of public revenues in Senegal, 1986–2002 | 269 |
| 8.3 | Index of real rate of exchange in Senegal and comparison with other | |
| | member countries of WAEMU, 1994–September 2005 | 297 |
| 9.1 | Revenue and expenditure ratios for Thailand | 332 |
| 9.2 | Revenue ratio and economic development | 334 |
| 9.3 | Revenue structure, 1970–2003 | 337 |
| 9.4 | State enterprise debt | 358 |
| 9.5 | Budget balance | 364 |
| 9.6 | Seignorage in Thailand | 366 |
| 9.7 | Inflation, 1970–2005 | 366 |
| 9.8 | Government debt | 368 |
| 9.9 | Accumulation balances: (a) Private sector saving investment balance; | |
| | (b) government saving investment balance; (c) state enterprises saving | |
| | investment balance | 371 |
| 9.10 | External and internal balance | 372 |
| 9.11 | Thai and global interest rates | 383 |
| 9.12 | Private credit expansion | 383 |
| 9.13 | Real exchange rate index | 385 |
| 10.1 | Budget surpluses and oil dependence | 401 |
| 10.2 | Poverty and oil dependence | 401 |
| 10.3 | Consolidated central government surplus, Venezuela, 1972–2003 | 403 |
| 10.4 | Poverty and per capita GDP, official estimates, Venezuela, 1998–2005 | 403 |
| 10.5 | Real per capita fiscal oil revenues, 1998–2005 | 404 |
| 10.6 | Transfers as a percentage of sub-national government revenues | 409 |
| 10.7 | Fraction of employees in public sector employment, Latin America, | |
| | 1990–2005 | 411 |
| 10.8 | Public infrastructure investment in Venezuela and Latin America, | |
| | 1981–1985 | 412 |
| 10.9 | Central government expenditures, 1990–1999 | 413 |
| 10.10 | Composition of central government revenue, 1996–2004 | 413 |
| 10.11 | Central government and consolidated public sector debt, exchange gains | |
| | and public debt, 1962–2004 | 417 |

| 10.12 | Transfers to public enterprises, 1984–2004 | 417 |
|-------|--|-----|
| 10.13 | Revenue composition and consolidated public sector revenue results | 419 |
| 10.14 | Oil fiscal revenues | 422 |
| 10.15 | Petroleum taxes and investments, 1947–2003 | 422 |
| 10.16 | OPEC world market share and Venezuelan oil price, 1938–2004 | 423 |
| 10.17 | Tax collection on domestic consumption of gasoline and oil products, | |
| | 1962–2004 | 423 |
| 10.18 | Tariff revenue and effective rate (collection/imports) | 433 |
| 10.19 | Payroll taxes and salaries and social security, 1970–2003 | 435 |
| 10.20 | Growth rate of the informal sector, 1990-2001 | 436 |
| 10.21 | Budget law and approved changes | 440 |
| 10.22 | Public sector deposits and credits with the private financial system | 445 |
| 10.23 | Per capita fiscal oil revenues in constant US\$, 1943-2001 | 449 |
| 10.24 | Composition of public spending, 1978–2000 | 450 |
| 10.25 | Public capital stock per worker, 1950–2001 | 451 |
| 10.26 | Test scores for scholastic aptitude tests in Venezuela, 1987–2003 | 452 |
| 10.27 | Historical and simulated per worker GDP: Scenario of no decline in | |
| | infrastructure investment | 455 |
| 10.28 | Simulated effect of infrastructure investment on budget deficit | 458 |
| 10.29 | Venezuelan adult literacy rate, 1975–2004 | 463 |
| 10.30 | Mercal intensity and change in quality of walls | 465 |
| 10.31 | Mercal intensity and change in quality of ceilings | 466 |
| 10.32 | Mercal intensity and change in quality of floors | 466 |
| 10.33 | Mercal intensity and change in rate of improvement of quality of walls | 467 |
| 10.34 | Mercal intensity and change in trend of quality of ceilings | 468 |
| 10.35 | Mercal intensity and change in trend of quality of floors | 468 |
| | | |

TABLES

| 2.1 | Savings in France and the UK, 1946–1960 | 39 |
|-----|---|-----|
| 2.2 | Socio-economic indicators by income group | 39 |
| 5.1 | Summary statistics of fiscal expansions by region | 118 |
| 5.2 | Tests for equality of survival functions | 121 |
| 5.3 | Expansion characteristics by source of expansion | 122 |
| 5.4 | Weibull duration regression, structural controls | 123 |
| 5.5 | Weibull duration regressions, expansion characteristic controls | 124 |
| 5.6 | Stratified Cox duration regressions | 127 |
| 6.1 | Basic indicators: Morocco, Senegal, Thailand and Venezuela | 137 |
| 6.2 | Progress towards MDGs in Morocco, Senegal, Thailand and Venezuela | 141 |
| 6.3 | Ratios of tax revenues to GDP in Morocco, Senegal, Thailand | |
| | and Venezuela | 147 |
| | | |

| 6.4 | Composition of own revenue – ratios of taxes to GDP in Morocco, | |
|-------|---|-----|
| | Senegal, Thailand and Venezuela | 148 |
| 6.5 | Public debt levels in Morocco, Senegal, Thailand and Venezuela | 152 |
| 6.6 | Contribution of external savings to national investment in Morocco | |
| | and Thailand | 155 |
| 7.1 | Poverty, vulnerability and HDI, 1985–2004 | 170 |
| 7.2 | Illiteracy rate and net primary school enrolment, 1994–2004 | 171 |
| 7.3 | Infant and under-5 mortality rates, 1982–1991 and 1994–2003, and | |
| | maternal mortality rates, 1987–1991 and 1999–2003 | 172 |
| 7.4 | Morocco's tax effort and tax potential: International comparisons, | |
| | 1980–2003 | 179 |
| 7.5 | Econometric equation for determining developing country tax potential | 181 |
| 7.6 | Tax effort of selected countries | 181 |
| 7.7 | Overall trends in government finances in Morocco, 2002–2006 | 184 |
| 7.8 | Estimate of losses resulting from the implementation of the EU | |
| | Association Agreement, 2003–2009 | 186 |
| 7.9 | Public debt indicators | 200 |
| 7.10 | Coverage of the government's borrowing need | 203 |
| 7.11a | Changes in nominal interest rates | 204 |
| 7.11b | Changes in real interest rates | 204 |
| 7.12 | Changes in savings and investment ratios | 206 |
| 7.13 | Structure of gross national savings | 206 |
| 7.14 | Seignorage and inflation rate | 208 |
| 7.15 | Criteria for determination of the overall VAT grant | 210 |
| 7.16 | Sectoral changes in disbursements | 213 |
| 7.17 | Changes in disbursements by type of client | 213 |
| 7.18 | Trends in expenditure as a percentage of GDP (2002–2006) | 224 |
| 7.19 | Estimates of loss of state revenue deriving from a tax rate of 7% instead | |
| | of 20% | 228 |
| 7.20 | Estimates of loss of state revenues deriving from a tax rate of 10% | |
| | instead of 20% | 228 |
| 7.A1 | List of the major categories used for the breakdown of local government | |
| | revenue and expenditure | 237 |
| 7.A2 | Significant ratios for analysis of the structure of local government | |
| | revenue and expenditure | 238 |
| 7.A3 | Breakdown of revenue and expenditure items for urban municipalities, | |
| | provinces and prefectures, and regions | 239 |
| 7.A4 | Ratios for analysis of revenue and expenditure items for urban | |
| | municipalities, provinces and prefectures, and regions | 240 |
| 8.1 | Main strategic approaches of the Senegal PRSPs | 251 |
| 8.2 | Macroeconomic indicators of Senegal, 2000–2006 | 252 |

| 8.3 | Savings-investment balance, 2003-2006 | 253 |
|-------|--|-----|
| 8.4 | Selected indicators associated with the MDGs | 254 |
| 8.5 | Changes in financing during the first phase of the PRSP | 260 |
| 8.6 | Projected financing requirements linked to actions under the PRSP | 261 |
| 8.7 | Projections of average annual flows from several external donors, | |
| | 2006–2010 | 263 |
| 8.8 | Structure and trends in tax revenues of Senegal, 1996–2003 | 268 |
| 8.9 | Resources transferred by the central state to local governments | 272 |
| 8.10 | Free reserves of banks and foreign reserves of the Central Bank | 279 |
| 8.11 | Trends in selected indicators of external public debt | 285 |
| 8.12 | Structure of bank credits in Senegal and in WAEMU, 2003–2005 | 289 |
| 8.13 | Nominal and real effective exchange rate in Senegal, 1994–2004 | 297 |
| 8.A1 | Balance of payments of Senegal | 300 |
| 8.A2 | Table of TOFE in Senegal | 301 |
| 8.A3 | Local and national governments' direct tax receipts, 2000–2006 | 303 |
| 8.A4 | Estimate of the impact of reduction in the corporate tax rate | 303 |
| 8.A5 | Summary accounts of the Central Bank at 31 December 2003–2005 | 304 |
| 8.A6 | Central Bank interventions | 304 |
| 8.A7 | Changes in Central Bank intervention rates | 305 |
| 8.A8 | Summary accounts of commercial banks at 31 December 2003–2005 | 305 |
| 8.A9 | Summary of West African Monetary Union inter-bank market | |
| | transactions, 31 May–6 June 2006 | 306 |
| 8.A10 | Breakdown of West African Monetary Union inter-bank market | |
| | operations, 31May–June 2006 | 306 |
| 8.A11 | Monetary survey of Senegal at 31 December 2003–2005 | 307 |
| 8.A12 | Net foreign assets of Senegal at 31 December 2003–2005 | 308 |
| 8.A13 | Net government position vis-à-vis banking system at 31 December | |
| | 2003–2005 | 308 |
| 8.A14 | Market issuance of negotiable securities | 310 |
| 8.A15 | Public savings bond market issuance | 310 |
| 8.A16 | Breakdown of active public savings securities or securitized instruments | 311 |
| 8.A17 | Size of public debt | 312 |
| 8.A18 | Structure of foreign public debt | 313 |
| 8.A19 | Structure of foreign public debt of Senegal | 313 |
| 8.A20 | Loan conditions of donors | 314 |
| 8.A21 | Trends of selected foreign public debt indicators | 315 |
| 8.A22 | Probability of a debt crisis | 315 |
| 8.A23 | Rescheduling of foreign debt and HIPC debt cancellations | 316 |
| 9.1 | Main economic indicators | 327 |
| 9.2 | Poverty and income distribution | 328 |
| 9.3 | Structure of government expenditures – period averages | 336 |

| 9.4 | Revenue structure – period averages | 338 |
|-------|---|-----|
| 9.5 | Comparative tax structure | 339 |
| 9.6 | Decomposition of changes in the revenue ratio | 341 |
| 9.7 | Categories of Thai local governments | 347 |
| 9.8 | Financial transactions of local governments | 349 |
| 9.9 | Operations of non-financial state enterprises | 356 |
| 9.10 | Employment in state enterprises, 1996–1999 | 360 |
| 9.A1 | Government expenditure and revenue at constant 1988 prices | 393 |
| 9.A2 | Decomposition of the changes in revenue | 394 |
| 9.A3 | Local governments' revenue structure (2005) | 394 |
| 10.1 | \$1 and \$2 a day poverty indicators, 1995–2004, CPI based | 405 |
| 10.2 | Source of revenues for Venezuelan entidades federales | 410 |
| 10.3 | Indicators of fiscal performance | 418 |
| 10.4 | Composition of central government and consolidated public sector | |
| | public revenues, 1970–2003 | 419 |
| 10.5 | Cross correlations among revenue types | 420 |
| 10.6 | Central government revenues, 1990–2003 | 420 |
| 10.7 | Central government financial results | 421 |
| 10.8 | World proven reserves of oil and natural gas, year end 2004, | |
| | for selected countries | 424 |
| 10.9 | Retail motor gasoline prices in selected countries, 1990–2004 | 425 |
| 10.10 | Taxation of gasoline consumption (simulation) | 426 |
| 10.11 | Non-oil sources of domestic taxation | 427 |
| 10.12 | Total taxes, 1990–2003 | 428 |
| 10.13 | Taxes on goods and services, 1990–2003 | 429 |
| 10.14 | Chronology of VAT tax rates | 430 |
| 10.15 | VAT simulations | 430 |
| 10.16 | Tax on income, 1990–2003 | 431 |
| 10.17 | Taxes on international trade, 1990–2003 | 433 |
| 10.18 | Social security contributions, 1990–2003 | 434 |
| 10.19 | Social security taxes and contributions | 434 |
| 10.20 | Social security pension rates | 436 |
| 10.21 | General government spending | 437 |
| 10.22 | Revenues of states and municipalities | 438 |
| 10.23 | Changes to the budget during the fiscal year | 441 |
| 10.24 | Overlapping budgets | 443 |
| 10.25 | Credits and deposits, Venezuelan banking sector | 444 |
| 10.26 | Composition of central government spending in Latin America | 447 |
| 10.27 | Gross enrolment rates by level, 1998–2002 | 448 |
| 10.28 | Changes in infrastructure investment, Venezuela and Latin America | 450 |
| 10.29 | Enrolment rates by level | 451 |

| 10.30 | FIDES execution percentages, 1998 and 2002 | 460 |
|-------|---|-----|
| 10.31 | Literacy rates and number of non-literate persons aged 25 years | |
| | or more, 1975–2004 | 464 |
| 10.A1 | Composition of spending by sectors, Ministry of Finance | 472 |
| 10.A2 | Composition of spending by economic classification, Ministry of Finance | 474 |