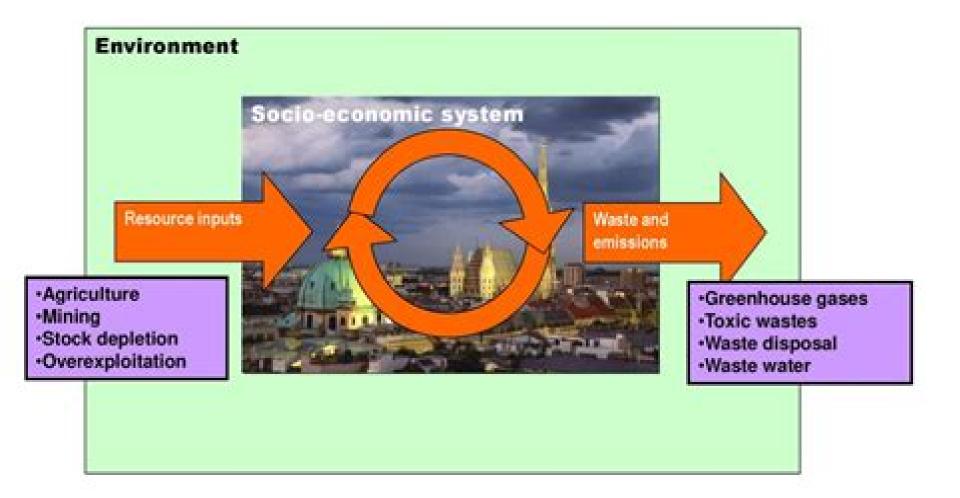


# Socio-economic metabolism



# **Economic Metabolism**

**Ruth Irwin** 

#### **Economic Metabolism:**

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Old fashioned administrators and economists have a tendency to regard economics and ecology as counter forces And many nature conservationists don t think that nature should be discussed in terms of economic utility In all honesty both visions are fairly blinkered It goes without saying that nature has a value in itself which is why Natuurmonumenten has worked in this area for more than 110 years But nature also has economic significance and needn t be an obstacle to economic development It can even be an economic multiplier The thinking around synergies between economics and ecology must be intensified to make the world a better place This book can only help Marc van den Tweel Chief Executive Natuurmonumenten Dutch conservation organisation the Netherlands Handbook of Input-Output Economics in Industrial Ecology Sangwon Suh, 2009-05-13 Industrial Ecology IE is an emerging multidisciplinary field University departments and higher education programs are being formed on the subject following the lead of Yale University The Norwegian University of Science and Technology NTNU Leiden University University of Michigan at Ann Arbor Carnegie Mellon University University of California at Berkeley Institute for Superior Technology in Lisbon Eidgen ssische Technische Hochschule ETH Z rich and The University of Tokyo IE deals with stocks and flows in interconnected networks of industry and the environment which relies on a basic framework for analysis Among others Input Output Analysis IOA is recognized as a key conceptual and analytical framework for IE A major challenge is that the field of IOA manifests a long history since the 1930s with two Nobel Prize Laureates in the field and requires considerable analytical rigor This led many instructors and researchers to call for a high quality publication on the subject which embraces both state of the art theory and principles as well as practical applications

Handbook of the Circular Economy Miguel Brandão, David Lazarevic, Göran Finnveden, 2020-12-25 This crucial Handbook brings together the latest thinking on the circular economy an area that has increasingly caught global attention Contributors explore a broad range of themes such as recycling systems and new business models as well as consolidating the many ways in which the topic has been dealt with in research business and policy making The Handbook of the Circular Economy is not only relevant but also essential for students academics and policy makers trying to make sense of the plethora of ways in which the term has been applied and interpreted <a href="Ecological Economics from the Ground Up">Ecological Economics from the Ground Up</a> Hali Healy, Joan Martínez-Alier, Leah Temper, Mariana Walter, Julien-François Gerber, 2013-02-15 Ecological Economics from the Ground Up takes a unique and much needed bottom up approach to teaching ecological economics and political ecology using case studies that focus on a wide range of internationally relevant topics to teach the principles concepts methods and tools of these fields which are seen as increasingly important in the context of the current triple social economic and environmental crisis This book provides learning materials which are grounded in the experience of Civil Society Organisations CSOs with case studies chosen by CSOs and developed collaboratively with leading ecological economists The case studies come from Europe India Latin America and Africa and are presented thematically along three lines 1 social metabolism and accounting methods 2 institutions and participation and 3 valuation and environmental policy tools Core

tools concepts and glossary terms are embedded in topics chosen as a matter of urgency by activist organizations related to mining and fossil fuel extraction integrated transport infrastructure development deforestation and agro fuel production sustainable tourism waste management wetlands and water management payments for ecosystem services natural disasters and hazards and corporate accountability Ecological Economics from the Ground Up has been designed to be an accessible learning aid for students of the sustainability sciences and for those CSOs that have recognised the value that ecological economics and political ecology tools and methods hold for their research and advocacy work Research in the Social Sciences Frances Fahy, Henrike Rau, 2013-01-21 Sustainability is a key concept used by social scientists interested in interactions between human society and the environment This text offers a systematic and critical review of established and emerging methodological approaches as well as tools for the integrated investigation of sustainability questions Recognising the significance of scale for sustainability efforts and measurement its scope ranges from the local to the global Divided into five sections Part I examines the key challenges inherent to social scientific sustainability research focusing in particular on methodological questions that arise from recent efforts towards greater disciplinary integration Part II discusses methodologies aimed at the investigation of attitudes and behaviour observable at the local level from families and households to individual organisations within communities Part III focuses on comparative sustainability research across different levels of socio political organisation from cities and regions to nation states Part IV covers recent developments which recognise the significance of time for sustainability research and which offer innovative methodological approaches that focus on life events and long term outcome Part V offers a critical assessment of current and future trends in social scientific sustainability researc Bringing together contributions from international social scientists this is the resource for academics and practitioners interested in sustainability research It will be a core teaching text for undergraduate and postgraduate courses in sustainability and sustainable development geography environmental sociology and the environmental sciences The Just Economy Richard Winfield, 2022-01-26 First Published in 1988 Richard Dien Winfield's The Just Economy investigates what the economy should be undertaking a normative inquiry ignored by contemporary economists Drawing upon Hegel's Philosophy of Right Winfield's book shows how justice lies in self determination how the economy can realize social freedom and how economic relations must be regulated to uphold family welfare equal economic opportunity and political autonomy Exposing the pitfalls in past attempts to conceive economic justice including those of ancient Greek philosophers social contract thinkers the classical political economists and Marx The Just Economy settles the controversy between capitalism socialism and communism It is crucial reading for thinkers and citizens the world over Energizing Sustainable Cities Arnulf Grübler, David J. Fisk, 2013 The twenty first century will be increasingly urban Research Handbook on Global Climate Constitutionalism Jordi Jaria-Manzano, Susana Borràs, 2019-12-27 Climate change is causing traditional political and legal concepts to be revisited. The emergence of a

global polity through physical economic and social interaction demands global responses which should be founded upon new principles and which cannot simply be modelled on traditional constitutionalism centred on the nation state This Research Handbook explores how to build this climate constitutionalism at a global level starting from the narrative of Anthropocene and its implications for law It provides a critical approach to global environmental constitutionalism analysing the problems of sustainability and global equity which are entwined with the causes and consequences of climate change The Handbook explores how to develop constitutional discourses and strategies to address these issues and thereby tackle the negative effects of climate change whilst also advancing a more sustainable equitable and responsible global society Sequestration in Urban Ecosystems Rattan Lal, Bruce Augustin, 2011-12-09 Urbanization drastically alters the ecosystems structure and functions disrupts cycling of C and other elements along with water It alters the energy balance and influences climate at local regional and global scales In 2008 urban population exceeded the rural population In 2050 70% of the world population will live in urban centers The number of megacities 10 million inhabitants increased from three in 1975 to 19 in 2007 and is projected to be 27 in 2025 Rapid urbanization is altering the ecosystem C budget Yet urban ecosystems have a large C sink capacity in soils and biota Judicious planning and effective management can enhance C pool in urban ecosystems and off set some of the anthropogenic emissions Principal components with regards to C sequestration include home lawns and turfs urban forests green roofs park and recreational sports facilities and urban agriculture Pretty, 2006-06-23 This four volume set explores the locations where the environment matters most such as where people are poor where environments are under threat such as on frontiers where there are few natural resources remaining and where industrialization is rampant It will also explore these concerns at different system levels from local community to regional national and global It will also explore costs of damage to the very resources on which economies rely and the values of environmental goods and services and the controversies surrounding such valuations It is organized around environment people interactions livelihoods poverty income economic growth environment environment interactions do people matter and people people interactions collective action challenges institutions Foundations of a Sustainable Economy Umar Burki, Toseef Azid, Robert Francis Dahlstrom, 2021-07-28 This book addresses current practices related to sustainable development its challenges and the future People belonging to different genders regardless of their age social class and education should be equal as citizens and individuals and identical in their rights and responsibilities. The business sector authorities societies and religious circles have the potential to play a fundamental role in curbing social ills and the degradation of the environment in this modern world The authors of this book argue that without good governance the status of a human being is unlikely to improve They make the case that to achieve sustainability government society and the economy must ensure a platform for people to participate in decision making and benefit from the rights they are accorded By covering a range of perspectives across economic social and moral life the book will shed light on the problems and

possible solutions to sustainable development and the triple bottom line of people planet and profit under the umbrella of morals and divine law This will be a useful guide for undergraduate and postgraduate students across multiple disciplines such as economics religious studies business studies political science anthropology and sociology Industrial Ecology Roland Clift, Angela Druckman, 2015-12-11 How can we design more sustainable industrial and urban systems that reduce environmental impacts while supporting a high quality of life for everyone What progress has been made towards reducing resource use and waste and what are the prospects for more resilient material efficient economies What are the environmental and social impacts of global supply chains and how can they be measured and improved Such questions are at the heart of the emerging discipline of industrial ecology covered in Taking Stock of Industrial Ecology Leading authors researchers and practitioners review how far industrial ecology has developed and current issues and concerns with illustrations of what the industrial ecology paradigm has achieved in public policy corporate strategy and industrial practice It provides an introduction for students coming to industrial ecology and for professionals who wish to understand what industrial ecology can offer a reference for researchers and practitioners and a source of case studies for Beyond GDP Matthew Kuperus Heun, Michael Carbajales-Dale, Becky Roselius Haney, 2015-05-11 This book uses teachers the metaphor The economy is society s metabolism as a springboard to develop a rigorous theoretical framework for a better system of national accounts which goes Beyond GDP and is relevant to the age of resource depletion Society is entering a new era in which biophysical limits related to natural resource extraction rates and the biosphere s waste assimilation capacity are becoming binding constraints on mature economies Unfortunately the data needed for policy makers to understand and manage economic growth in this new era are not universally available All stakeholders need a new way to understand our economy in the context of the biosphere's ability to provide essential natural capital and we suggest that detailed information about materials energy embodied energy and energy intensity should be routinely gathered analyzed and disseminated from a centralized location to provide markets and policymakers with a more comprehensive understanding of the biophysical economy However a firm theoretical foundation is needed before proceeding along this new path which this book is intended to provide After arguing that the stock of manufactured capital is an important driver of material and energy demands imposed upon the biosphere a new accounting framework is derived from the laws of thermodynamics to reflect the fact that material and embodied energy accumulate within the capital stock of economic sectors This framework extends the Energy Input Output EI O techniques first developed by Bullard Herendeen and others to estimate energy intensity of economic products Implications from the new framework are discussed including the value of economic metrics for policy making the need for physically based rather than product based EIO formulations a re assessment of the concept of economic growth and an evaluation of recycling reuse and dematerialization The framework also provides an opportunity to assess an array of definitions for Daly's steady state economy in relation to the ideal of a

sustainable economy The book ends with a list of steps to be taken in creating a more comprehensive system of national accounts National accounting agencies worldwide should develop and maintain balance sheets of both natural and manufactured capital in addition to national income statements All stocks and inter sector flows should be provided in physical as well as financial units In the US the Bureau for Economic Analysis BEA should restart detailed Capital Labor Energy Material and Services KLEMS reporting National accounting agencies should routinely estimate the energy intensity of economic products and all of the above should be estimated and disseminated on an annual basis

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