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## Download Ebook Perspective Cycle Life A From Europe In Art The Of State The Management Asset

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### Asset Management

#### The State of the Art in Europe from a Life Cycle Perspective

Springer Science & Business Media In the past decades asset intensive companies have witnessed a number of regulatory changes and especially industry is facing ever increasing competitiveness. To overcome these challenges different asset management methods have been developed aimed to improve the asset life cycle. Especially the design phase and operation and maintenance phase have seen a rise in tools and methods. Smarter design can lead to improved operation. Likewise, improved operation and maintenance leads to lower replacement costs and may provide the basis for better design. This book brings together and coherently presents the current state of the art in asset management research and practice in Europe from a life cycle perspective. Each chapter focuses on specific parts of this life cycle and explains how the methods and techniques described are connected and how they improve the asset life cycle, thus treating this important subject from a unique perspective.

#### Perspectives from Europe and Asia on Engineering Design and Manufacture

#### A Comparison of Engineering Design and Manufacture in Europe and Asia

Springer Science & Business Media This book will be the first proceedings of a series of symposia on the exchange of best practices and research in engineering design and manufacture organized focusing on Europe and Asia by a group of researchers from European and Asian Universities working on several EU funded projects. This very first book will explore the difference and communalities of European and Asian research and practice in this very important field. With the rapid economic expansion of Asia and the gradual shift of manufacturing from Europe and the USA to Asia, this Symposium will provide a timely forum for leading researchers in the field to exchange their research findings and experience. The book covers this first symposium, and aims to give insights to these on-going changes, shows their implications from design and manufacture perspective for both Europe and Asia and identifies new research topics to improve industrial practice. The primary audience of this book are researchers in the field of engineering design and manufacture, industrialists and business persons who are interested in finding out the state of design and manufacture in Asia and Europe.

#### Human Capital Over the Life Cycle

#### A European Perspective

Edward Elgar Publishing . . . I am convinced that it should occupy a high position on the desk of policymakers. . . This book constitutes a good state-of-the-art study in this field and paves the way for further research in this direction. Marie-Claire Villeval, Economic Record This attractive publication is carried out as a clear attempt to gain access to a wider audience, relaxing formal and technical details, which makes the lecture easier. . . An international comparison of literature or educational and labour experiences is provided in every contribution in the book, helping to obtain a wider perspective of the problems tackled. Carmen García and Julio López, Education Economics This book makes a novel contribution to economics of education in several key respects. It highlights a broad number of crucial factors over the individual s life cycle that underlie inequalities in education and in the labour market. . . It is amazing how limited our knowledge is about these interactions despite their high priority in national as well as EU-level policy-making. This is a timely book concerned with topics of high policy relevance. Moreover, the authors have well succeeded in their attempt to write "in a style that makes this work accessible to a wider audience", using the editor s words. It is most important that academics as well as politicians are made aware of the considerable knowledge gaps that still prevail in our understanding of the role of education and training for the individual s success or failure in school and in working life. Rita Asplund, The Research Institute of the Finnish Economy (ETLA), Finland In the last decade, changes occurring in the demand for skills have produced significant effect on the functioning of labour markets in Europe and elsewhere. The challenge posed by a knowledge based society for sustained growth has been at the centre of the European strategy for employment and has important implications for the design of labour market policies. This book brings together a wide range of contributions written by leading experts on key issues such as: schooling systems, transition from school to work and lifelong learning, thereby providing an essential reference for both researchers and policymakers. Claudio Lucifora, Università Cattolica, Italy Human Capital Over the Life Cycle synthesises comparative research on the processes of human capital formation in the areas of education and training in Europe, in relation to the labour market. The book proposes that one of the most important challenges faced by Europe today is to understand the link between education and training on the one hand and economic and social inequality on the other. The authors focus the analysis on three main aspects of the links between education and social inequality: educational inequality, differences in access to labour markets and differences in lifelong earnings and training. Almost all the stages in the life cycle are tracked from early childhood to stages late in the working life: firstly the characteristics and effects of schooling systems, then the transitions from school to work and, finally, human capital and the working career. Academics and researchers of European studies, labour economics and the economics of education will all find this novel and analytically sound book of interest, as will sociologists and policymakers in Europe.

#### Time Use in a Life Cycle Perspective and the Role of Institutional Frameworks in the European Union

"The study aimed to provide a description of the existing time use patterns over the life cycle of men and women in the European Union countries, distinguishing by Member State and varoius individual characteristics such as age, cohort, gender, income and education ; to analyse the influence of varoius institutional frameworks on time use patterns over the life cycle; to investigate how time use patterns are likely to evolve in the future and discuss possible implications for the labour market participation, retirement patterns, education, family formation, childcare, social participation and quality of life of EU citizens; formulate recommendaions for future EU policy." -- Introduction.

#### European Integration and Inequality among Countries: a Lifecycle income Analysis

Fundacion BBVA

#### Ageing and Invisibility

IOS Press Providing an overview of the process of e-inclusion for older people and addressing the ethical, social and legal aspects of the process, this book is suitable for researchers, policy-makers, organisations and companies, as well as for those with an interest in the identification and promotion of good practice within an ageing society.

#### Asset Management

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## Rift-lines Within European Regulatory Framework for Biosimilars when Taking Heterogeneity and Variation During Lifecycle of the Reference Biologic and the Biosimilar Into Account

Anchor Academic Publishing (aap\_verlag) Biopharmaceutical medicinal products (biologics) represent a huge financial market. Thus upon patent protection expiry of the innovator (reference) biologic there is interest from industry to gain a portion of this market by launching a 'similar' biologic at a reduced development cost, thus boosting potential gains. The EMA responded to this desire and lead the guidance process with industry on the topic of biosimilars. Based on the experience gained with biosimilars in the past, the EMA started to introduce a second generation series of guidance documents, which take into account the past, current and possibly future challenges of biosimilars. Those proposals were evaluated by EMA and partially incorporated into new guidance documents. This work highlights the challenges and risks associated with biosimilar submissions for large and complex bio-molecules such antibodies. Results: There are unaddressed questions for the regulator with regard to the unsolved dynamic of heterogeneity and variations of the quality profile, which have potential implications on safety and efficacy. This is neglected and not taken into account seriously enough by the stakeholders. Solution: Further, the only (in my view) progressive way to deal with such foreseeable situations from the biosimilar developer's point of view is to incorporate a design space.

## Perspectives on International Political Theory in Europe

Springer Nature This book offers a timely exploration of the still burgeoning field of International Political Theory (IPT). IPT is approached in this volume not merely as a subfield at the margins of the discipline of International Relations (IR) but rather as a key dimension of theorising international relations that challenges disciplinary, theoretical, methodological, and geographical boundaries and insemminates other theoretical IR traditions. Chapters in this volume approach IPT as a theoretical tradition that emphasises and interrogates the philosophical, historical, ethical, normative, institutional, and aesthetic dimensions of international relations and world politics. In so doing, they explore IPT as a European theoretical tradition to stress that, paradoxically, it is only by provincializing Europe and its intellectual traditions that one may finally appreciate what is truly universal in them. This is a refreshingly different take on IPT sure to be of interest to students and scholars of IPT, IR and political theory.

## Concilier flexibilité du travail et cohésion sociale

### un défi à relever

Council of Europe Ce volume bilingue pose la question des effets des réformes institutionnelles et organisationnelles du marché du travail sur la cohésion sociale. Dans cet ouvrage, le Conseil de l'Europe recherche la conciliation entre ce qui est inévitablement imposé par la mondialisation, c'est-à-dire la réorganisation des paramètres de la concurrence, et la cohésion sociale. La conciliation doit prendre en compte une valeur politique essentielle, la sécurité démocratique, qui se trouve d'abord dans l'emploi : le coût social et sociétal élevé de la précarité le confirme. Néanmoins, sécurité ne signifie pas rigidité et doit se traduire plutôt par la reconnaissance sociale d'un "droit à la transition" qui appelle à la coresponsabilité de tous les acteurs sociaux. La conciliation est plus qu'un devoir politique : elle est le prix de la stabilité qui assure la durabilité sociale.

## Product Policy in Europe: New Environmental Perspectives

Springer Science & Business Media Product Policy in Europe: New Environmental Perspectives presents an overview and assessment of a relatively new area of environmental policy in Europe. Whereas the more 'traditional' environment policy mainly deals with individual emissions, waste and substances, product policy is a more comprehensive approach addressing the environmental impacts of products during their whole life cycle. The study reviews the current state of affairs and the prospects for product policy in the EU and Switzerland. It shows the relationship with other areas of environmental policy and the potential role of new instruments and approaches. Four case studies (on paint, batteries, public procurement and eco-labelling) illustrate the barriers and opportunities of product policy. Environmental policy makers and policy analysts will find useful information and recommendations in this book. It is also written for those who have a professional interest in reducing the environmental impact of products, including marketing managers, product developers, procurement officers and staff members of environmental and consumer organisations, standardisation and certification institutions, etc.

## From CSCW to Web 2.0: European Developments in Collaborative Design

### Selected Papers from COOP08

Springer Science & Business Media Many challenges were identified in CSCW some thirty years ago, and some of these remain problematic today. However they are being progressively transformed and this edited volume contains contributions that demonstrate how these new challenges are being dealt with in a variety of ways, reflecting the balance of rigour and creativity that has always characterised the field. Originally presented at COOP '08 which took place in Carry-le-Rouet, France in 2008, the contributions to this volume have been substantially extended and revised. New technologies, new domains and new methods are described for supporting design and evaluation. Taking a progressive and critical stance, the authors cover a variety of themes including inter-organisational working, non task-based environments, creativity, and the development of Web 2.0 (and even Web 3.0) applications, including new cooperative mechanisms and new classification possibilities.

## Life-cycle Cost Approach for Management of Environmental Resources

### A Primer

Springer This book demonstrates the application of Life-cycle Cost Approach (LCCA) in the management of infrastructure and other investment projects in the context of developing countries. The main goal is to identify potential opportunities for the adoption LCCA in developing countries, with the help of case studies and best practices. The editors observe that developing countries are plagued with poor and fluctuating service delivery which affords low or no priority for environmental protection. They seek to instill at the policy-making level an understanding of why life-cycle cost assessment is central to achieving the goals of sustainable development as well as sustainable service delivery and to influence the behavior of sector stakeholders. The editors examine the evolution of LCCA from a project appraisal tool to a more comprehensive method of incorporating sustainable development aspects in a variety of sectors. By providing a compendium of concepts, tools and practical experiences, it seeks to broaden the application of LCCA, which is often limited to specific phases of the life-cycle with little or no weight given to environmental aspects. The aim of the book is to mainstream LCCA into governance processes at institutional levels from local to national, in order to increase the ability and willingness of decision makers - both users and those involved in service planning, budgeting and delivery - to reach better informed and more relevant choices among different types and levels of products and services.

## The Challenges Facing European Society with the Approach of the Year 2000

## Strategies for the Sustainable Development of European States in the Mediterranean Basin

Council of Europe

## International Relations: A European Perspective

Ashgate Publishing, Ltd. International Relations: A European Perspective presents the main schools of international relations while underlining the added value of the European approach. Contrary to US or East Asian perspectives, a European viewpoint adopts a critical approach to traditional cleavages. The author demonstrates the added value of a European approach to international relations, taking into account both the shortcomings and achievements found within European history and current European unity. Key themes include: the evolution of state sovereignty, regional cooperation between previous enemies, political impact of economic integration, regimes building, international rule setting, institutionalization of international relations, and the weight of ideas and perceptions by transnational cooperation. This comprehensive assessment takes into consideration every school of international relations critically presented from this original perspective and as such makes the book ideal for courses on international relations.

## Portugal SB07 Sustainable Construction, Materials and Practices Challenge of the Industry for the New Millennium

IOS Press The construction industry is a vibrant and active industry. The building sector is responsible for creating, modifying and improving the living environment of humanity. This volume presents solutions that facilitate and promote the adoption of policies, methods and tools to accelerate the movement towards a global sustainable built environment.

## The Future European Energy System

### Renewable Energy, Flexibility Options and Technological Progress

Springer Nature This open access book analyzes the transition toward a low-carbon energy system in Europe under the aspects of flexibility and technological progress. By covering the main energy sectors - including the industry, residential, tertiary and transport sector as well as the heating and electricity sector - the analysis assesses flexibility requirements in a cross-sectoral energy system with high shares of renewable energies. The contributing authors - all European energy experts - apply models and tools from various research fields, including techno-economic learning, fundamental energy system modeling, and environmental and social life cycle as well as health impact assessment, to develop an innovative and comprehensive energy models system (EMS). Moreover, the contributions examine renewable penetrations and their contributions to climate change mitigation, and the impacts of available technologies on the energy system. Given its scope, the book appeals to researchers studying energy systems and markets, professionals and policymakers of the energy industry and readers interested in the transformation to a low-carbon energy system in Europe.

## Family Relations in Life Course Perspective

JAI Press(NY)

### Design for Environmental Sustainability

Springer Science & Business Media This volume is a technical and operative contribution to the United Nations "Decade on Education for Sustainable Development" (2005-2014), aiding the development of a new generation of designers, responsible and able in the task of designing environmentally sustainable products. The book provides a comprehensive framework and a practical tool to support the design process. This is an important text for those interested in the product development processes.

## Management Accounting and Control

### Tools and Concepts in a Central European Context

John Wiley & Sons Management accounting has been the basic toolbox in business administration for decades. Today it is an integral part of all curricula in business education and no student can afford not to be familiar with its basic concepts and instruments. At the same time, business in general, and management accounting in particular, is becoming more and more international. English clearly has evolved as the "lingua franca" of international business. Academics, students as well as practitioners exchange their views and ideas, discuss concepts and communicate with each other in English. This is certainly also true for management accounting and control. Management Accounting is becoming more and more international. ?Management Accounting and Control? is a new textbook in English covering concepts and instruments of management accounting at an introductory level (primarily at the Bachelor level, but also suited for general management and MBA courses due to a strong focus on practical relevance). This textbook covers all topics that are relevant in management accounting in business organizations that are typically covered in German and Central European Bachelor courses on management accounting and control. After a general introduction to the field of management accounting and control the book discusses cost management as an extension of cost accounting. Typical cost management instruments such as target costing, life cycle costing and process-based costing approaches are explained in detail. Differences between Anglo-American activity-based costing (ABC) and German process-based costing are highlighted. The book then turns to an extensive discussion of planning and budgeting tasks in management accounting with a strong focus on the practical application of the topic such as developing a budget in practice. Another chapter is dedicated to a comparison of traditional budgeting with modern /alternative budgeting approaches. A major part of the book is dedicated to the broad area of performance management. The relevance of financial statement information for performance management purposes is discussed in detail. In addition, the most widely spread financial performance indicators are illustrated using real-world examples. The book also includes detailed content on value-based management control concepts. In a consecutive chapter, performance measurement is linked with strategy while extensively discussing the Balanced Scorecard as a key tool in strategic performance management. The remaining parts of the book deal with management reporting as one of the main operative tasks in management accounting practice. The book closes with insight into new fields and developments that currently influence management accounting practices and research and promise to play an increasingly important role in the future.

## Long-Term Integration of Renewable Energy Sources into the European Energy System

Springer Science & Business Media A sustainable European energy system, mitigating climate change and solving a number of other key environmental problems, will require massive reliance on renewable energy sources combined with a sharp increase in energy productivity. Considering that most of the technologies necessary for such a development are already available, today's most important questions are: How can these technologies be integrated into the European energy system? What are the costs and benefits of such a strategy? What are the major bottlenecks and obstacles to such a development? What measures are necessary to support this development? In the book a "sustainable scenario" and a "fair-market scenario" are developed as a means to demonstrate that concepts for a sustainable future European energy supply are feasible.

## ECMLG 2016 - Proceedings of the 12th European Conference on Management, Leadership and Governance

Proceedings of the 12th European Conference on Management, Leadership and Governance

## Chinese Research Perspectives on Population and Labor, Volume 5

### Achieving Prosperity for All through Shared Development

BRILL As did previous volumes in this series, this volume reviews recent developments in population- and employment-related issues in China. Special attention is given to the universal two-child policy, and challenges facing women in the workforce and highly-educated single women.

## Ageing, Health and Pensions in Europe

### An Economic and Social Policy Perspective

Springer Providing an overview of the future research challenges for economists and social scientists concerning population ageing, pensions, health and social care in Europe, this book examines how scientific research can provide cutting-edge evidence on income security and well-being of the elderly, and labour markets and older workers.

## Old Norse Religion in Long-term Perspectives

### Origins, Changes, and Interactions : an International Conference in Lund, Sweden,

June 3-7, 2004

**Nordic Academic Press** The study of Old Norse Religion is a truly multidisciplinary and international field of research. The rituals, myths and narratives of pre-Christian Scandinavia are investigated and interpreted by archaeologists, historians, art historians, historians of religion as well as scholars of literature, onomastics and Scandinavian studies. For obvious reasons, these studies belong to the main curricula in Scandinavia but are also carried out at many other universities in Europe, the United States and Australia a fact that is evident to any reader of this book. In order to bring this broad and varied field of research together, an international conference on Old Norse religion was held in Lund in June 2004. About two hundred delegates from more than fifteen countries took part. The intention was to gather researchers to encourage and improve scholarly exchange and dialogue, and Old Norse religion in long-term perspectives presents a selection of the proceedings from that conference. The 75 contributions elucidate topics such as worldview and cosmology, ritual and religious practice, myth and memory as well as the reception and present-day use of Old Norse religion. The main editors of this volume have directed the multidisciplinary research project *Roads to Midgard* since 2000. The project is based at Lund University and funded by the Bank of Sweden Tercentenary Foundation.

Recent Advances and Future Prospects in Knowledge, Information and Creativity Support Systems

Selected Revised Papers from the Tenth International Conference on Knowledge, Information and Creativity Support Systems (KICSS 2015), 12-14 November 2015, Phuket, Thailand

**Springer** This book includes carefully selected papers presented at the 10th International Conference on Knowledge, Information and Creativity Support Systems (KICSS 2015), which was held in Phuket, Thailand, on November 12-14, 2015. Most of the papers are extended versions with the latest results added, representing virtually all topics covered by the conference. The KICSS 2015 focus theme, "Looking into the Future of Creativity and Decision Support Systems", highlighted the field's growing complexity and called for deeper, insightful discussions about the future, complemented with an exposition of current developments that have proven their value and usefulness. As such, the book addresses topics concerning future-oriented fields of research, such as anticipatory networks and systems; foresight support systems; and relevant newly emerging applications, exemplified by autonomous creative systems. It also focuses on cognitive and collaborative aspects of creativity.

Bridge Maintenance, Safety, Management, Resilience and Sustainability

Proceedings of the Sixth International IABMAS Conference, Stresa, Lake Maggiore, Italy, 8-12 July 2012

**CRC Press** Bridge Maintenance, Safety, Management, Resilience and Sustainability contains the lectures and papers presented at The Sixth International Conference on Bridge Maintenance, Safety and Management (IABMAS 2012), held in Stresa, Lake Maggiore, Italy, 8-12 July, 2012. This volume consists of a book of extended abstracts (800 pp) and a DVD (4057 pp) co

New Perspectives on Corporate Social Responsibility

Locating the Missing Link

**Springer** Providing a timely contribution to the ongoing questions surrounding topics which are by definition subject to varying stakeholder interpretations, this book addresses "the missing link" between theoretical CSR concepts and everyday management practice. It acts as a guide to awaken managers to the advantages of adopting a CSR "mindset" when developing sustainable business strategies. The book consists of three parts: 1) A theoretical realm which establishes the key concepts and rationale for the adoption of a sustainable CSR approach, 2) A practical realm which addresses putting CSR and sustainability into business practice, 3) An educational realm which proposes how to incorporate the concepts into teaching and training.

Global and Asian Perspectives on International Migration

**Springer** This volume examines key aspects of the migration process that are particularly relevant in the Asian context. It looks into established concepts and theoretical propositions that have found application in other areas, particularly in the West and explores their validity and relevance in understanding the realities of migration in Asia. *Global and Asian Perspectives on International Migration* features the perspectives of scholars from Asia and other parts of the world, as well as diverse backgrounds. It presents a variety of forms, directions, policies and institutions, including circular and temporary migration; the management of cultural diversity; the gender perspective on migration in North America, Europe and Asia; returning migrants; migration governance in the ASEAN economic community; and the determinants of migration. In conclusion, the book explores migration transition in Asia and revisits select theories in light of recent evidence. With its dialogic approach to migration in Asia by renowned authors from various regions and disciplines, this book will serve as a valuable resource to policy makers in research and academia, civil society, international organizations and the private sector.

Strategic Issues in European Aerospace

**Taylor & Francis** This book is a unique collection of perspectives provided by a mix of leading academics, industrialists and government officials on the challenges facing the European aerospace industry. The book focuses on two interrelated, daunting challenges. The consolidated American aerospace industry, which in the 1990s has undergone \$100bn worth of merger activity. The second is the compelling task of rationalization and consolidation required in the European industry itself. Through a mix of analytical perspectives and project-oriented assessments, the book provides an essential guide to the major strategic agenda for the European industry. A unique feature is the contribution of leading industry executives and project managers. These industry insiders outline the dilemmas and challenges facing the industry from the viewpoint of those at the sharp end of the business. The book is an essential guide to the technical, political and economic agenda for aerospace in the next decade and beyond.

Handbook on Complexity and Public Policy

**Edward Elgar Publishing** 'Over recent years Complexity Science has revealed to us new limits to our possible knowledge and control in social, cultural and economic systems. Instead of supposing that past statistics and patterns will give us predictable outcomes for possible actions, we now know the world is, and will always be, creative and surprising. Continuous structural evolution within such systems may change the mechanisms, descriptors, problems and opportunities, often negating policy aims. We therefore need to redevelop our thinking about interventions, policies and policy making, moving perhaps to a humbler, more 'learning' approach. In this Handbook, leading thinkers in multiple domains set out these new ideas and allow us to understand how these new ideas are changing policymaking and policies in this new era.' - Peter M Allen, Cranfield University, UK

Eurasian Business and Economics Perspectives

Proceedings of the 34th Eurasia Business and Economics Society Conference

**Springer Nature** EBES conferences have been intellectual hub for academic discussion in economics, finance, and business fields and provide network opportunities for participants to make long lasting academic cooperation. This is the 21st issue of the Eurasian Studies in Business and Economics (EBES's official proceeding series) which includes selected papers from the 34th EBES Conference - Athens. Due to the COVID-19, the conference presentation mode has been switched to "online/virtual presentation only". In the conference, 148 papers by 296 colleagues from 40 countries were presented. Both theoretical and empirical papers in this volume cover diverse areas of business, economics, and finance from many different regions. Therefore, it provides a great opportunity to colleagues, professionals, and students to catch up with the most recent studies in different fields and empirical findings on many countries and regions.

## Business Management and Communication Perspectives in Industry 4.0

IGI Global Changes in the global economy bring new dynamics, concepts, and implications that require digitalization and adaptation. The new “normal” has changed, and companies must adopt such strategies if they want to survive in the ever-changing business environments. *Business Management and Communication Perspectives in Industry 4.0* is a pivotal reference source that provides vital research on the planning, implementing, and evaluating of strategies for the new industry standards. While highlighting topics such as artificial intelligence, digital leadership, and management science, this publication theorizes about tomorrow’s business and communication environments based on the past and present of the concepts. This book is ideally designed for managers, researchers, educators, students, professionals, and policymakers seeking current research on blending managerial and communicational concepts with a multidisciplinary approach.

## Getting by in Europe's Urban Labour Markets

## Senegambian Migrants' Strategies for Survival, Documentation and Mobility

Amsterdam University Press A thesis that examines two major social changes experienced by European cities: post-industrial economic restructuring and new immigration flows. It also discusses the link between both these social changes with a variety of theoretical approaches and in many descriptive contributions.

## The family life cycle in European societies

## Le cycle de la vie familiale dans les sociétés Européennes

Walter de Gruyter GmbH & Co KG

## Sustainable tourism management and monitoring. Destination, Business and Stakeholder Perspectives

FrancoAngeli 368.7

## Yearbook of European Environmental Law

## Environmental Health Perspectives

## Supplements

## Functional Thinking for Value Creation

## Proceedings of the 3rd CIRP International Conference on Industrial Product Service Systems, Technische Universität Braunschweig, Braunschweig, Germany, May 5th - 6th, 2011

Springer Science & Business Media After the IPS2 conferences in Cranfield and Linköping in 2009 and 2010 the 3rd CIRP International Conference on Industrial Product Service Systems (IPS2) 2011 takes place in Braunschweig, Germany. IPS2 itself is defined as “an integrated industrial product and service offering that delivers value in use”. The customers expect comprehensive solutions, which are adapted to their individual needs. IPS2 offers the possibility to stand out from competition and for long-term customer loyalty. Particularly in times of economic crisis it becomes apparent which producing companies understand to satisfy the needs and requirements of their customers. Especially in this relatively new domain IPS2 it will be important to keep track of the whole context and to seek cooperation with other research fields and disciplines. The 3rd CIRP International Conference on Industrial Product Service Systems (IPS2) 2011 serves as a platform for such collaborations and the discussion of new scientific ideas.

## Electric Vehicles from Life Cycle and Circular Economy Perspectives

## TERM 2018 : Transport and Environment Reporting Mechanism (TERM) Report

Electric vehicles are anticipated to be a key future component of Europe's mobility system, helping reduce impacts on climate change and air quality. Battery electric vehicles (BEVs) comprised around 0.6 % of all new car registrations in the EU in 2017 (EEA, 2018a). By 2030, BEVs could be between 3.9 % and 13.0 % of new car registrations, depending on the EU-wide fleet average CO2 target levels set for passenger cars in the future (EC, 2017a). There is, therefore, an increasing need to understand BEVs from a systems perspective. This involves an in-depth consideration of the environmental impact of the product using life cycle assessment (LCA) as well as taking a broader 'circular economy' approach. On the one hand, LCA is a means of assessing the environmental impact associated with all stages of a product's life from cradle to grave: from raw material extraction and processing to the product's manufacture to its use in everyday life and finally to its end of life. On the other hand, the concept of a circular economy considers impacts and in turn solutions across the whole societal system. In a traditional linear economy products are made, used and then disposed of, whereas in a circular economy the value of materials and products is kept as high as possible for as long as possible (EEA, 2017b). This, in turn, helps reduce requirements for new materials and energy needs, ameliorating environmental pressures. Additional aspects that can be considered within the circular economy concept (e.g. Jackson, 2017; Kopnina, 2017; Ellen MacArthur Foundation, 2018) include the use of renewable energy and sustainable consumption, e.g. through the shared ownership of goods. Reflecting their relevance to BEVs, these additional aspects are also considered in this report. The aims of this report are to: - bring together existing evidence on the environmental impact of BEVs across the stages of their life cycle, undertaking where possible comparison with internal combustion engine vehicles (ICEVs); - consider how a move to a circular economy could reduce these impacts.