

# FORESIGHT STRATEGY RESEARCH -

# **Research Foresight**

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### **Research Foresight:**

Higher Education and Research in the Post-Knowledge Society: Scenarios for a Future World Merle Jacob, V. Lynn Meek Mary-Louise Kearney, 2022-05-04 How will higher education and research evolve in the future to produce the high level, knowledge and skilled human capital which underpin sustainable societies. This book explores challenges for the post knowledge society and economy where major socio economic change is occurring in tandem with advances in digital technologies It brings together international authors to discuss scenarios against a background of transformation including the fourth wave of globalization demographic shifts socio economic inequality and climate change Policy makers institutional leaders the academy students employers and society at large will find this book topical and thoughtful Foresight René Rohrbeck, 2010-11-04 Have you ever wondered why even large companies fail when faced with changes in their environment Would you be surprised to learn that the average life expectancy of a Fortune 500 company is below 50 years This book presents findings from 19 case studies in multinational companies such as Siemens Volkwagen General Electric Philips and Deutsche Telekom Ren Rohrbeck proposes a Maturity Model to assess how prepared a company is to respond to external disruptive change He uses data from 107 interviews with board members corporate strategists innovation managers and corporate foresight professionals to present and discuss best practices Using illustrations to show the complex interaction of corporate foresight with other units such as innovation and strategic management Ren Rohrbeck provides the reader with rich insights on how to make an organization agile and reactive towards change For scholars this book proposes multiple hypotheses and frameworks for future research Systems and Innovation Research in Transition Jakob Edler, Rainer Walz, 2024-09-25 In the last decades it has become more and more imperative for our societies and for decision makers in all areas of society to understand the dynamics through which innovation systems develop and through which socio technical systems transform themselves As both innovation and transformation are strongly intertwined it has equally become imperative to analyse their dynamics as well as their interplay This open access volume reflects on the research fields that have developed in the last five decades to do exactly that It defines and delineates research on systems and innovation as encompassing the scientific study of first the conditions dynamics and impacts associated with the generation and uptake of innovations and second the development and transformation of functional systems satisfying essential needs such as the provision of energy or water Further the area of Systems and Innovation Research SIR is characterised by problem and stakeholder oriented research We chose five decades as time frame because we noted that roughly 50 years ago a number of research institutes dedicated to SIR were founded and the SIR area started to grow significantly We present a systematic history of nine selected fields within the area of SIR Innovation policy Innovation indicators Foresight Policy Evaluation Technology Assessment Production Paradigms Renewable Energies Energy Efficiency Water Use We also present a conceptual framework to understand the processes by which the research fields have developed

This allows to draw general lessons as to what drives fields throughout their development and how their role vis vis policy businesses and societies changes over time It also allows to speculate about future challenges and trends in the SIR area This is important because if anything the need to govern transformation through innovation will further grow in the future and with it the need to understand the underlying dynamics Advanced Research on Energy Materials and Material Application Helen Zhang, David Jin, X.J. Zhao, 2012-10-08 Selected peer reviewed papers from the 2012 International Conference on Energy Materials and Material Application EMMA 2012 September 17 18 2012 Wuhan China Research Resources National Science Board (U.S.). Ad Hoc Committee on Strategic Science and Engineering Policy University Research in Transition OECD,1999-09-14 This study consolidates the most up to date data on Issues,2001 resources and structures of research activities in higher education systems and provides illustrative examples of institutional adaptations Handbook of Futures Studies Roberto Poli, 2024-07-05 This insightful Handbook emphasizes the unique contribution that Futures Studies offers when understanding and managing current situations Contributing authors argue that by learning to examine the future in the present individuals and organizations can expand their abilities to analyze assess and ultimately make better decisions This title contains one or more Open Access chapters in Transition Susan E. Cozzens, Peter Healey, Arie Rip, John Ziman, 2012-12-06 On a mountainside in sunny Tuscany in October 1989 96 people from 23 countries on five continents gathered to learn and teach about the problems of managing contemporary science The diversity of economic and political systems represented in the group was matched by our occupations which stretched from science policy practitioners through research scientists and engineers through academic observers of science and science policy It was this diversity along with the opportunities for infonnal discussion provided by long meals and remote location that made the conference a special learning experience Except at lecture time it was impossible to distinguish the students at this event from the teachers and even the most senior members of the teaching staff went away with a sense that they had learned more from this group than from many a standard conference on science policy they had attended The flavor of the conference experience cannot be captured adequately in a proceedings volume and so we have not tried to create a historical record in this book Instead we have attempted to illustrate the core problems the panicipants at the conference shared discussed and debated using both lectures delivered by the fonnal teaching staff and summaries of panel discussions which extended to other panicipants and therefore increased the range of experiences Research Foresight Ben R. Martin, John Irvine, 1989 An examination of the modeling processes used in data reponed analysis of the reserve component of the American military LC got this wrong Martin and Irvine are the authors not the editors Their study reviews the experience of eight leading industrial nations in identifying and exploiting research that is likely to yield economic and social benefits in the medium to long term They also propose a framework for making more effective use of research foresight in the policy process Distributed by Columbia U Press Annotation copyrighted by Book

News Inc Portland OR Technology Assessment Tugrul U. Daim, 2011 Understanding the technology dynamics is a required capability in today s technology driven industries This volume focuses on three areas technology assessment technology forecasting and technology diffusion It shows an introduction to different types of assessment methods and applications from different sectors including energy healthcare and communications technology forecasting and foresight and a review of conventional and emerging methods and the diffusion of technologies by exploring adoption of products and services from different sectors Back cover Trames ,2003 Research and Technology Management in the **Electricity Industry** Tugrul Daim, Terry Oliver, Jisun Kim, 2013-06-25 Technologies such as renewable energy alternatives including wind solar and biomass storage technologies and electric engines are creating a different landscape for the electricity industry Using sources and ideas from technologies such as renewable energy alternatives Research and Technology Management in the Electricity Industry explores a different landscape for this industry and applies it to the electric industry supported by real industry cases Divided into three sections Research and Technology Management in the Electricity Industry introduces a range of methods and tools including technology assessment forecasting roadmapping research and development portfolio management and technology transfer These tools are the applied to emerging technologies in this industry with case studies including data from various organizations including Bonneville Power Administration and Energy Trust of Oregon from sectors including lighting and wind energy The final section considers innovation through these technologies A product result of a collaboration between Bonneville Power Administration and Portland State University Research and Technology Management in the Electricity Industry is a comprehensive collection of methods tools examples and pathways for future innovation in the electricity industry Digital Disruption and Transformation Daniel Schallmo, Abayomi Baiyere, Frank Gertsen, Claus Andreas Foss Rosenstand, Christopher A. Williams, 2024-02-19 In an era marked by relentless digital disruption where every interaction whether it s a click a tap or a swipe shapes the structure of our interconnected world the need for transformative action becomes notably clear This collection brings together a dynamic compilation of insights carefully selected from leading experts in the field ready to navigate the uncharted waters of this digital revolution The collection comprises submissions from two ISPIM International Society for Professional Innovation Management events along with additional contributions It offers an extensive view that encompasses the various challenges and opportunities brought about by the tumultuous waves of digital disruption and transformation spanning a wide range of aspects in contemporary business and society The primary aim of this collection is to emphasize the idea that the emerging global digital economy urgently requires a comprehensive perspective on digitalization making it central for all institutions Contributions in this collection shed light on important subjects including but not limited to The Evolution of Digital Transformation Skills and Knowledge Requirements in the Era of Digital Transformations and Data Driven Foresight Within the boundaries of this scholarly endeavor a deep understanding of the

intricate network of digitalization and its consequences is nurtured As the relentless surge of digitalization continues this collection serves as an invaluable guide for discerning scholars and practitioners alike inviting them to navigate this Philosophical Frameworks and Design Processes Doctor Gjoko transformative period with wisdom and expertise Muratovski, Craig Vogel, 2019-05-22 Just as the term design has been going through change growth and expansion of meaning and interpretation in practice and education the same can be said for design research. The traditional boundaries of design are dissolving and connections are being established with other fields at an exponential rate Based on the proceedings from the IASDR 2017 Conference Re Research is an edited collection that showcases a curated selection of 83 papers just over half of the works presented at the conference With topics ranging from the introduction of design in the primary education sector to designing information for Artificial Intelligence systems this book collection demonstrates the diverse perspectives of design and design research Divided into seven thematic volumes this collection maps out where the field of design research is now Two Blind Spots in Design Thinking Estelle Berger From the 1980s design thinking has emerged in companies as a method for practical and creative problem solving based on designers way of thinking integrated into a rational and iterative model to accompany the process In companies design thinking helped valuing creative teamwork though not necessarily professional designers expertise By pointing out two blind spots in design thinking models as currently understood and implemented this paper aims at shedding light on two rarely described traits of designers self The first relies in problem framing a breaking point that deeply escapes determinism The second blind spot questions the post project process We thus seek to portray designers singularity in order to stimulate critical reflection and encourage the opening up to design culture Companies and organizations willing to make the most of designers expertise would gain acknowledging their critical heteronomy to foster innovation based on strong and disruptive visions beyond an out of date problem solving approach to design Creating Different Modes of Existence Toward an Ontological Ethics of Design Jamie Brassett This paper will address some design concerns relating to philosopher tienne Souriau s work Les diff rents modes d existence 2009 This has important bearings upon design because first this philosophical attitude thinks of designing not as an act of forming objects with identity and meaning but rather as a process of delivering things that allow for a multiplicity of creative remodulation of our very existences Secondly Souriau unpicks the concept of a being existing as a unified identity and redefines existence as a creative act of nonstop production of a variety of modes of existence In doing this he not only moves ontological considerations to the fore of philosophical discussions away from epistemological ones but does so in such a way as to align with attitudes to ethics that relate it to ontology notably the work of Spinoza This places Souriau in a philosophical lineage that leads back for example to Nietzsche and Whitehead and forward from his era to Deleuze and Guattari In thinking both ontology and ethics together this paper will introduce a different approach to the ethics of design Investigating Ideation Flexibility through Incremental to Radical Heuristics Ian Baker Daniel Sevier Seda McKilligan Kathryn

W Jablokow Shanna R Daly Eli M Silk The concept of design thinking has received increasing attention during recent years particularly from managers around the world However despite being the subject of a vast number of articles and books stating its importance the effectiveness of this approach is unclear as the claims about the concept are not grounded on empirical studies or evaluations In this study we investigated the perceptions of six design thinking methods of 21 managers in the agriculture industry as they explored employee and business related problems and solutions using these tools in a 6 hour workshop The results from pre and post survey responses suggest that the managers agreed on the value design thinking could bring to their own domains and were able to articulate on how they can use them in solving problems We conclude by proposing directions for research to further explore adaptation of design thinking for the management practice context Design Research and Innovation Model Using Layered Clusters of Displaced Prototypes Juan de la Rosa Stan Ruecker The ability of design to recognize the wicked problems inside complex systems and find possible ways to modify them has led other disciplines to try to understand the design process and apply it to many areas of knowledge not traditionally associated with design In additional design's creative solutions and ability to innovate have made designers a valuable resource in the contemporary economy Nevertheless there is still an unnecessarily constraining polemic about the meaning and model of the process of academic research in the field of design the ways in which design research should be conducted and the specific knowledge that is produced with the design research process This paper tries to broaden the discourse by describing the prototype as a basic element of the process of design since it is connected to a specific type of knowledge and based on the working skills of the designer it also proposes a model of the use of prototypes as a research tool based on four different theoretical concepts whose importance in the field of design has been strongly established by different academic communities around the world These are embodied knowledge displacement complexity and that we learn about the world through transforming it Pursuing these models we develop a process to intentionally produce designerly knowledge of complex dynamic systems using layered clusters of displaced prototypes Solution Generation Design Profiles Reflection on Reflection in Action Shoshi Bar Eli Solution generation design behavior in general and reflection in action in particular can serve to differentiate designers recognizing their personal reflecting when designing In psychology reflection is found a more robust tool to enhance task performance after feedback from a personal device that generates the process itself while interacting with visual representation Differences among students interior design processes appear in their solution generation design behavior A think aloud experiment identified solution generation behavior profiles Qualitative and quantitative methodologies showed how design characteristics unite forming patterns of design behavior A comprehensive picture of designers differences emerged The research aimed to identify individual design students solution generation profiles based on design characteristics to show how reflection in action appearing in the profiles can serve to predict how novice designers learn and act when solving a design problem to enhance the uniqueness of reflection in action for designers

as distinct from reflection in other fields Four distinct solution generation profiles emerged each showing a different type of reflective acts Identifying reflection in action type can robustly predict how designers develop design solutions and help develop pedagogical concepts strategies and tools Let's Get Divorced Pragmatic and Critical Constructive Design Research Jodi Forlizzi Ilpo Koskinen Paul Hekkert John Zimmerman Over the last two decades constructive design research CDR also known as Research through Design has become an accepted mode of scholarly inquiry within the design research community CDR is a broad term encompassing almost any kind of research that uses design action as a mode of inquiry It has been described as having three distinct genres lab field and showroom The lab and field genres typically take a pragmatic stance making things as a way of investigating what preferred futures might be In contrast research done following the showroom approach more commonly known as critical design CD speculative design or design fictions offers a polemic and sometimes also a critique of the current state embodied in an artifact Recently we have observed a growing conflict within the design research community between pragmatic and critical researchers To help reduce this conflict we call for a divorce between CD and pragmatic CDR We clarify how CDR and CD exist along a continuum We conclude with suggestions for the design research community about how each unique research approach can be used singly or in combination and how they can push the boundaries of academic design research in new collaboration with different disciplines Critical and Speculative Design Practice and Semiotics Meaning Crafting for Futures Ready Brands Malex Salamangues This article concerns the use of critical design practices within the context of commercial semiotics arguing that incorporating practices from a critical design approach is valuable for client brands but also an important means with which to incite brands to consider more deeply their role in shaping the future As an alternative to the oppositional approach frequently taken by critical design practitioners working through design practices collaboratively alongside client brands creates potential for the radical changes sought by many of the movement's vanguard A case study of recent work with a corporate client demonstrates the practical effects of using critical design practice within a commercial setting proving the complementarity between critical design practice and commercial semiotics where the confluence of the thinking brought new value to improve product design for example and points to the value of using current leading edge thinking within the design community Beyond Forecasting A Design Inspired Foresight Approach for Preferable Futures Jorn Buhring Ilpo Koskinen This paper engages with the literature to present different perspectives between forecasting and foresight in strategic design while drawing insights derived from futures studies that can be applied in form of a design inspired foresight approach for designers and interdisciplinary innovation teams increasingly called upon to help envisage preferable futures Demonstrating this process in applied research relevant examples are drawn from a 2016 Financial Services industry futures study to the year 2030 While the financial services industry exemplifies an ideal case for design inspired foresight the aims of this paper are primarily to establish the peculiarities between traditional forecasting applications and a design inspired foresight visioning approach as

strategic design activities for selecting preferable futures Underlining the contribution of this paper is the value of design futures thinking as a creative and divergent thought process which has the potential to respond to the much broader organizational reforms needed to sustain in today s rapidly evolving business environment Developing DIVE a Design Led Futures Technique for SMEs Ricardo Mejia Sarmiento Gert Pasman Erik Jan Hultink Pieter Jan Stappers Futures techniques have long been used in large enterprises as designerly means to explore the future and guide innovation In the automotive industry for instance the development of concept cars is a technique which has repeatedly proven its value However while big companies have broadly embraced futures techniques small and medium sized enterprises SMEs have lagged behind in applying them largely because they are too resource intensive and poorly suited to the SMEs needs and idiosyncrasies To address this issue we developed DIVE Design Innovation Vision and Exploration a design led futures technique for SMEs Its development began with an inquiry into concept cars in the automotive industry and concept products and services in other industries We then combined the insights derived from these design practices with elements of the existing techniques of critical design and design fiction into the creation of DIVE s preliminary first version which was then applied and evaluated in two iterations with SMEs resulting in DIVE s alpha version After both iterations in context it seems that DIVE suits the SMEs because of its compact and inexpensive activities which emphasize making and storytelling Although the results of these activities might be less flashy than concept cars these simple prototypes and videos help SMEs internalize and share a clear image of a preferable future commonly known as vision Developing DIVE thus helped us explore how design can support SMEs in envisioning the future in the context of innovation Mapping for Mindsets of Possibility During Home Downsizing Lisa Otto How can design orient people to an expanded sense of future possibility Design researchers are beginning to recognize design's potential role not solely in producing products services and strategies but instead in shifting mindsets and behaviors This shift requires a different view of the design practice from engaging users to gather insights to be implemented to that process as the actual material of the design Borrowing from the framework of practice oriented design a first step in these processes is expanding participants understanding of future possibilities. In opening future possibilities one recognizes an expanded range of futures and ideally engages in dialog with other people and their range of possibilities This paper introduces mapping activities that are intended to reframe participants perception of possible futures This study conducted pilot workshops with participants who were downsizing their home and struggling with decisions about their things and spaces This paper argues that working with people already engaged in life transitions such as downsizing presents a rich opportunity for these futuring sic methods as they are already beginning to grapple with designing for possible futures These methods provide a stake in the ground for future exploration of potential methods to engender mindsets of possibility and engage in trialing methods like living labs Storytelling Technique for Building Use Case Scenarios for Design Development Sukwoo Jang Ki young Nam Numerous studies have dealt with what kind of value narrative can have for creating a more

effective design process However there is lack of consideration of storytelling techniques on a stage by stage level where each stage of storytelling technique can draw attention to detailed content for creating use case scenarios for design development This research aims to identify the potential implications for design development by using storytelling techniques For the empirical research two types of workshops were conducted in order to select the most appropriate storytelling technique for building use case scenarios and to determine the relationship between the two methods Afterwards co occurrence analysis was conducted to examine how each step of storytelling technique can help designers develop an enriched content of use case scenario Subsequently the major findings of this research are further discussed dealing with how each of the storytelling technique steps can help designers to incorporate important issues when building use case scenarios for design development These issues are alternative and competitor s solution which can aid designers to create better design features status quo bias of user which can help the designer investigate the occurring reason of the issue and finally social political values of user which have the potential of quiding designers to create strengthened user experience The results of this research help designers and design researchers concentrate on crucial factors such as the alternative or competitor's solution the status quo bias of user and social political values of the user when dealing with issues of building use case scenarios Group Storymaking Understanding an Unfamiliar Target Group through Participatory Storytelling Hankyung Kim Soonju Lee Youn kyung Lim Based on a sound research plan qualitative user data help designers understand needs behaviors and frustrations of a target user group However when a design team attempts to design for unfamiliar target groups it is extremely difficult to accurately observe and understand them by simply using traditional research methods such as interviews and observation As a result the quality of user research data can be called into a question which leads to unsatisfying design solutions Inspired by a fiction writer s technique of generating stories together with readers we present the new method Group Storymaking that supports designers to quickly gain broad and clear understanding of an unfamiliar target group throughout a story making activity with actual users We envision Group Storymaking as a new user study method that designers can easily implement to learn about an unfamiliar target involving actual users in a research process with less time and cost commitment Animation as a Creative Tool Insights into the Complex Ian Balmain Hewitt David A Parkinson Kevin H Hilton A Design for Service DfS approach has been linked with impacts that significantly alter touchpoints services and organizational culture However there is no model with which to assess the extent to which these impacts can be considered transformational In the absence of such a model the authors have reviewed literature on subjects including the transformational potential of design characteristics of transformational design transformational change and organizational change From this review six indicators of transformational change in design projects have been identified evidence of nontraditional transformative design objects evidence of a new perspective evidence of a community of advocates evidence of design capability evidence of new power dynamics and evidence of new organizational standards These indicators along with

an assessment scale have been used to successfully review the findings from a doctoral study exploring the impact of the DfS approach in Voluntary Community Sector VCS organizations This paper presents this model as a first step to establishing a method to helpfully gauge the extent of transformational impact in design projects OECD Public Governance Reviews Centre of Government Review of Brazil Toward an Integrated and Structured Centre of Government OECD, 2022-06-22 The OECD Centre of Government Review of Brazil offers key recommendations on consolidating the strategic role of the country's centre of government CoG in managing policy priorities and improving outcomes The review examines the CoG s roles Imagining the Futures of Higher Education in Southern Africa Vicky Avinash mandates and its co ordination capacities Oojorah, Waaiza Udhin, 2024-09-16 This book showcases multiple perspectives about the futures of Higher Education from experts and other stakeholders in academia in the Southern African region with each chapter presenting a different scenario of a possible future for Higher Education It situates itself at the confluence of various fields of study such as Educational Technologies Artificial Intelligence AI Sociology of Education Sociology of the Future Sustainable Development and Climate Change It also includes various topics such as digital development in terms of AI and emerging technologies Higher Educational strategising and planning the philosophical underpinnings of Higher Education and the present day need for Sustainable Development models Through the various chapters discussing the above mentioned themes in the varied contexts of the Southern African region this book helps readers engage in imaginative thinking regarding the future world and thus be prepared to embrace the challenges ahead This book also underpins curriculum development for the new era firstly through new philosophical outlooks and secondly through ideas for novel learning areas in Higher Education and content to help shape minds for the twenty first century This book paves the way for innovation progress and adaptation to the changing needs of the Higher Education clientele It also attempts to influence policymaking support advocates for sustainability and environmental education prepare for technological advancements and improve the resilience and wellbeing of people in the region <u>Innovation Nation</u> C. Holroyd, K. Coates, 2007-11-13 This book explores Japan's efforts to promote the commercial benefits of science and technology Japan has made major scientific investments with a view to enhancing the country's medium and long term economic prospects these successful efforts have re enforced the country's reputation as a leader in the promotion of national innovation **Modernisation of Science Policy and Management Approaches in Advanced Research Methods in the Built Central and South East Europe** Edvard Kobal, Slavo Radošević, 2005 **Environment** Andrew Knight, Les Ruddock, 2009-03-16 This book provides a bridge between the introductory research methods books and the discipline specific higher level texts Its unique feature is the coverage of the detailed process of research rather than the findings of research projects Chapter authors have been carefully selected by their expertise discipline and location to give an eclectic range of perspectives Particular care has been taken to balance positivist with interpretivist approaches throughout The authors focus is on the practical consequences of research philosophies strategies

and techniques by using their own research and by evaluating the work of others Advanced Research Methods in the Built Environment addresses common topics raised by postgraduate level researchers rather than dealing with all aspects of the research process Issues covered range from the practicalities of producing a journal article to the role of theory in research The material brought together here provides a valuable resource for the training and development of doctoral and young researchers and will contribute to a new sense of shared methodological understanding across built environment research

OECD Skills Studies Supporting Entrepreneurship and Innovation in Higher Education in Ireland OECD, European Union, 2017-10-23 This report presents evidence based analysis on Ireland's higher education transformation process towards an innovative interconnected and multidisciplinary entrepreneurial system designed to empower its students and staff to demonstrate enterprise innovation and creativity in teaching

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