

R&D Work Environments 2015: Designing Physical Spaces for Innovation

Flavius Sturm and Sven Schimpf

{flavius.sturm | sven.schimpf}@iao.fraunhofer.de

Fraunhofer Institute for Industrial Engineering, University of Stuttgart, Nobelstrasse 12, D-70569 Stuttgart, Germany

Successful innovation projects are the result of a complex inter-play of many different actors and activities. A critical – but somewhat neglected – success factor for research and development (R&D) and innovation projects lies in creating the favourable spatial conditions in which employees carry out R&D activities. Research has shown that designing physical environments can encourage processes that play a vital role in product creation, such as knowledge-sharing, learning and collaboration. To shed more light on how R&D workspaces may look like in the near future, the authors have conducted 13 interviews with R&D and innovation managers of leading Swiss and German companies over the course of six months. The results have been transformed into six “R&D workspace scenarios”.

1. Introduction & Motivation

Successful innovation projects are the result of a complex inter-play of many different actors and activities. A critical – but somewhat neglected – success factor for research and development (R&D) and innovation projects lies in creating the favourable spatial conditions in which employees carry out R&D activities. Research has shown that designing physical environments can encourage processes that play a vital role in product creation, such as knowledge-sharing, learning and collaboration. For example, pioneering work done by Tom Allen from MIT, already published in the 1970ies, demonstrated that communication between individuals is of utmost importance to initiate and to develop new ideas. However, only few additional authors have given specific attention to R&D work environments (e.g. Boustellier et al., 2008) or have put an effort into integrating different research streams.

In contrast to other facilities, R&D buildings are usually highly complex and have to fulfil a wide range of functional, technical, economical and legal requirements. All eventualities that may occur over the life span of a building can be hardly predicted for ordinary buildings – let alone for research buildings (Hegger, 2005). When industry created specialised R&D facilities, back in the beginning of the 20th century, they emulated the

university system (Allen and Henn, 2007). In these organisations, departments organised around specialised areas of knowledge. This organisational structure, however, proved to be too simplistic. As products got more complex and embodied more technologies, a variety of disciplines had to be integrated, which required a significant amount of coordination. Specialists had to keep one another informed of what they were doing on a regular basis. Over the course of the last decades, R&D-intensive firms have therefore formed their own ways of organising R&D work.

In the meantime, the authors observe a growing interest from industry to know more about the design of R&D facilities. The motivations for this interest are manifold. Some companies have been able to grow steadily in recent years and simply require bigger R&D buildings. Other organisations have to deal with the growing complexity of their products, forcing them to integrate more external specialists into their R&D projects. Some want to offer the most advanced R&D work environments to attract the most talented scientists and engineers. From an academic perspective, research on the design of R&D work environments is usually limited to case studies of large, multi-national companies (e.g. Boustellier et al., 2008). There are almost no efforts to generalise the findings for a wider range of organisations, especially for mid-sized firms that have limited R&D resources, but

Technological Innovation The R D Work Environment

Kurnaz, Salim, Bieliauskaitė, Jolanta



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Technological Innovation Raghu Garud, Praveen Rattan Nayyar, Zur Shapira, Zur Baruch Shapira, 1997-04-28 This book explores how technological management can adapt and succeed in a world of inevitable oversights and foresights

Swedish-American Conference on Chemical Hazards in the Work Environment, 1980 *Driving Agribusiness With Technology Innovations* Tarnanidis, Theodore, Vlachopoulou, Maro, Papathanasiou, Jason, 2017-03-20 Modern web based applications are pertinent for businesses as they often encourage their core competencies and capabilities As such the agribusiness sector must begin to take advantage of the open networks and advances in communication and information technologies in order to grow their businesses exponentially *Driving Agribusiness With Technology Innovations* highlights innovative business models and theories that encourage the use of emerging technological advances to produce thriving enterprises Featuring extensive coverage on relevant topics including digital environments mobile agriculture supply chain platforms and internet marketing models this publication is an important reference source for business managers practitioners professionals and engineers who are interested in discovering emerging technology trends for agribusiness

Sustainable Organizations Jose C. Sánchez-García, Brizeida Hernandez-Sanchez, 2021-02-03 Given the multidisciplinary nature of our object of study sustainability we have divided this book into twelve chapters In the first four we cover the content required to learn how to start a business and create companies based on sustainability The following chapters provide guidance to help translate sustainability strategies across cultures These processes are analyzed through the Triple Bottom Line perspective which effectively describes the primary objectives of sustainability The last chapters analyze current trends in sustainable development framing education as a powerful tool to facilitate the transition to more sustainable forms of development Through these chapters the understanding of the theoretical concepts is facilitated and examples of sustainable enterprises are made available to the reader that serves as a reference and that allow the development of practical activities Economic Innovations and Technological Developments in HRM Kurnaz, Salim, Bieliauskaitė,

Jolanta, 2024-09-19 In today's rapidly evolving world the field of Human Resources Management HRM faces unprecedented challenges exacerbated by the transformative impacts of economic innovations technological advancements and the global Covid 19 pandemic Academic scholars grapple with understanding and navigating these complexities seeking comprehensive resources to illuminate the theoretical underpinnings and practical implications of modern HRM practices However amidst the vast array of studies and evolving paradigms there exists a pressing need for a consolidated source that not only elucidates the foundational principles of HRM but also delves into its contemporary applications and future trajectories *Economic Innovations and Technological Developments in HRM* emerges as a definitive solution to this pervasive problem offering a comprehensive guide and reference for scholars navigating the intricate landscape of HRM theory and practices By synthesizing existing research and examining the transformative impacts of economic innovations technological

advancements and the Covid 19 pandemic on HRM this book provides invaluable insights into the evolving nature of employee management strategies and organizational dynamics **A Handbook of Management Theories and Models for Office Environments and Services** Rianne Appel-Meulenbroek,Vitalija Danivska,2021-08-02 Although workplace design and management are gaining more and more attention from modern organizations workplace research is still very fragmented and spread across multiple disciplines in academia There are several books on the market related to workplaces facility management FM and corporate real estate management CREM disciplines but few open up a theoretical and practical discussion across multiple theories from different disciplines Therefore workplace researchers are not aware of all the angles from which workplace management and effects of workplace design on employees has been or could be studied A lot of knowledge is lost between disciplines and sadly many insights do not reach workplace managers in practice Therefore this new book series is started by associate professor Rianne Appel Meulenbroek Eindhoven University of Technology the Netherlands and postdoc researcher Vitalija Danivska Aalto University Finland as editors published by Routledge It is titled Transdisciplinary Workplace Research and Management because it bundles important research insights from different disciplinary fields and shows its relevance for both academic workplace research and workplace management in practice The books will address the complexity of the transdisciplinary angle necessary to solve ongoing workplace related issues in practice such as knowledge worker productivity office use and more strategic management In addition the editors work towards further collaboration and integration of the necessary disciplines for further development of the workplace field in research and in practice This book series is relevant for workplace experts both in academia and industry This second book in the series focuses on the role of workplace management in the organization and the tasks that workplace management needs to consider The 18 theories that are presented in this book and applied to workplace research discuss management aspects from the organization s perspective or dive deeper into issues related to people and or building management They all emphasize that workplace management is a complex matter that requires more strategic attention in order to add value for various stakeholders The final chapter of the book describes a first step towards integrating the presented theories into an interdisciplinary framework for developing a grand workplace management theory **MGMT4** Chuck Williams,Alan McWilliams,Rob Lawrence,Wahed Waheduzzaman,2019-09-09 MGMT4 is the fourth Asia Pacific edition of this innovative approach to teaching and learning the principles of management Concise yet complete coverage of the subject supported by a suite of online learning tools and teaching material equips students and instructors with the resources required to successfully undertake an introductory management course This highly visual and engaging resource is now available on the MindTap eLearning platform allowing for seamless delivery both online and in class With the Cengage Mobile app students can take course materials with them anytime anywhere New print versions of this book include access to the MindTap platform **Managing Technology Innovation** Yunus Dauda,2009 Technology in the world today has contributed to

promote organisational competitiveness and national development But most developing countries have not substantially benefited from science and technology hence their underdevelopment and poverty They could not harness and manage their scientific and technological innovations and use their human and material resources to meet basic needs of their people reduce socio economic inequalities create employment opportunities and improve national security The achievement of these is considered in this book to be dependent on provisions of conducive environments for effective human resource management for scientific and technological innovations Human resource management concepts and practices were used to evolve frameworks and processes for the generation acquisition adoption and transfer of technology depending on the objectives of different countries and organisations **Federal Organization for Technological Innovation** United States. Congress. House. Committee on Science and Technology. Subcommittee on Science, Research, and Technology,1984

Technological Change and Manpower Development D K Bhattacharyya,2008 Manpower development and HR functions are now getting highly influenced by technological changes Successful technological change requires HR support although such support areas differ from organization to organization This book is an attempt to discuss all the aspects of manpower development issues in technological era This book provides a comprehensive text for HR students It addresses the organizations requirement to practice the technology management issues focusing more on human resource functions Some key areas explained in this book are training and development Compensation performance management new skill development issues management of change etc The book deals with some new age tools like Balance Scorecard HR Scorecard Competency Mapping and Knowledge Management Areas which are commonly used in this new age technology era to track measure and develop manpower to sustain in competition In the absence of a customised textbook in this area of study this book has been developed to understand intricate technological change issues especially those which influence HR functions and manpower development aspects **Proceedings of the 3rd International Conference on Law,**

Governance, and Social Justice (ICoLGaS 2023) Abdul Aziz Nassihudin,Tedi Sudrajat,Sri Wahyu Handayani,Aryuni Yuliantiningsih,Riris Ardhanariswari,2023-12-21 This is an open access book International Conference on Law Governance and Social Justice is organized by Faculty of Law Universitas Jenderal Soedirman The conference provides a forum for scholars researchers and prationers to share their ideas results of researchs and experiences in dealing with recent issues on the challenges of law governance and social justice *Innovative Approaches for International Competitiveness Through Human Resource Management* Pawirosumarto, Suharno,2025-05-09 In an era of global interconnectedness and competition organizations utilize innovative approaches to human resource management HRM to remain competitive Effective HRM strategies include cross cultural management global workforce optimization and the integration of technology in employee development By embracing diversity fostering a culture of continuous learning and leveraging data driven insights businesses can cultivate a workforce that is adaptable to the needs of global markets Strategic HRM practices such as

flexible work models employee empowerment and leadership development programs empower organizations to respond to market shifts quickly and maintain a competitive edge across borders In this context innovative HRM approaches are a tool for operational efficiency and long term international success Innovative Approaches for International Competitiveness Through Human Resource Management explores contemporary challenges and strategies in human resource management HRM within a global context It examines digital transformation competency development cultural dynamics and best practices in HRM across different countries This book covers topics such as global business automation and talent acquisition and is a useful resource for business owners managers computer engineers educators academicians researchers and data scientists

Disability, Work and Inclusion Mainstreaming in All Policies and Practices OECD,2022-10-11 One in seven working age adults identifies as having a disability in OECD countries a share that is also substantial and growing among young people 8% in 2019 Many of them are excluded from meaningful work and have low levels of income and social engagement

Technological Innovation for Digitalization and Virtualization Luis M. Camarinha-Matos,2022-06-21 This book constitutes the refereed proceedings of the 13th IFIP WG 5.5 SOCOLNET Advanced Doctoral Conference on Computing Electrical and Industrial Systems DoCEIS 2022 held in Caparica Portugal during June July 2022 The 22 full papers presented were carefully reviewed and selected from 48 submissions The papers present selected results produced in engineering doctoral programs and focus on technological innovation for industry and service systems The papers are organized into the following topical sub headings Smart Systems Thinking Cyber physical Systems health related Digitalization Electric Systems and Machines Smart Devices and Control and Digital Platforms

The Savvy Academic Librarian's Guide to Technological Innovation Cinthya Ippoliti,2018-06-01 The Savvy Academic Librarian's Guide to Technological Innovation provides detailed plans for purposefully integrating technology into the fabric of the academic environment by utilizing examples from a variety of institutions to illustrate successful methods and best practices Included case studies and further readings emphasize everything needed to create grow and sustain a holistic plan for integrating technology within the academic library setting Highlighted features include Concentration on technology uses and applications Activities and steps needed to develop partnerships design learning outcomes and other pedagogical applications and measure the success of each of these elements Practical how to approach that is useful to four year two year and community colleges alike

Technological Innovations for Business, Education and Sustainability Allam Hamdan,2024-04-23 Fulfilling a growing need for aligning business strategy and educational curriculums with the evolving skills required for business workplaces this book presents a thorough understanding of how business education and technology can enable current and future leaders to contribute positively to digital transformation across the globe

Sustainable Management Practices for Employee Retention and Recruitment Kapoor, Tanvi, Singh, Abhishek K., Sahay, Kasturi, Kaur, Harvinder, Verma, Rahul, 2025-02-21 Artificial intelligence AI plays a transformative role in the evolution of

industry 4.0 particularly in the field of human resource management HRM AI technologies revolutionize workplace operations by automating tasks like recruitment performance management and training These innovations improve efficiency while helping organizations align employee skills with job roles enhance decision making and streamline HR processes However the rise of AI in HRM also raises concerns about job displacement and potential bias in decision making To address these issues further research into transparency accountability and human oversight are essential for ensuring AI's ethical and effective integration Sustainable Management Practices for Employee Retention and Recruitment examines the impact of sustainable management on businesses recruitment and retention practices It explores the use of computers and automation in the workplace and its impact on the financial aspects of HRM and its improvements using intelligent and autonomous systems powered by data and machine learning This book covers topics such as human capital talent development and data analysis and is a useful resource for business owners HR professionals data scientists academicians and researchers

MGMT3 Chuck Williams, Alan McWilliams, Rob Lawrence, 2017-01-01 A new approach to learning the principles of management MGMT 3 is the third Asia Pacific edition of a proven innovative solution to enhance the learning experience Concise yet complete coverage supported by a suite of online learning aids equips students with the tools required to successfully undertake an introductory management course Paving a new way to both teach and learn MGMT 3 is designed to truly connect with today's busy tech savvy student Students have access to online interactive quizzing videos podcasts flashcards case studies games and more An accessible easy to read text along with tear out review cards completes a package which helps students to learn important concepts faster MGMT 3 delivers a fresh approach to give students what they need and want in a text Digital Transformation Antonella Petrillo, Fabio De Felice, Monica Violeta Achim, Nawazish Mirza, 2022-10-05 In the business world digital transformation involves finding and developing new strategies and modernizing the information technology of private and public companies This book presents practices challenges and opportunities related to digital transformation It includes fourteen chapters that address digital transformation in a variety of industries including finance construction education marketing and more **Transdisciplinary Teaching and**

Technological Integration for Improved Learning: Case Studies and Practical Approaches Kumar, Rajendra, Ong, Eng Tek, Anggoro, Subuh, Toh, Tin Lam, Fukui, Masanori, 2024-08-14 In the modern era of research the significance of transdisciplinary and multidisciplinary approaches in enhancing higher education learning outcomes cannot be overlooked These approaches break down traditional academic silos fostering a more holistic and interconnected understanding of complex problems By integrating diverse perspectives and methodologies they promote critical thinking creativity and innovation among students Educators and institutions must embrace and implement transdisciplinary teaching and technological integration to prepare students for the demands of the future and drive meaningful advancements in education **Transdisciplinary Teaching and Technological Integration for Improved Learning Case Studies and Practical Approaches**

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