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"Cultural heritage is a significant force for 21st century Europe. Not only is it at the heart of what it means to be European,

it is being discovered by both governments and citizens as a means of improving economic performance, people's lives and living environments." "Evidence demonstrates that relatively modest investment in cultural heritage can pay substantial dividends. These can be taken economically but also in terms of improving environmental sustainability and social cohesion." The above statements are part of the findings of the Expert Group on Cultural Heritage established under the Horizon 2020 Work Programme 2014 for the Societal Challenge 'Climate action, environment, resource efficiency and raw materials'. The group, chaired by Dr Philippe Busquin, former Commissioner for Research, Science and Technology and former Member of the European Parliament, aimed at contributing to further investigating and providing input for fully developing the potential that cultural heritage holds for Europe. Further to the chair, the group comprised nine renowned experts from the private and public sector, including Professor Simon Thurley, CEO of English Heritage, who

acted as rapporteur. This report, presenting the conclusions of the Expert Group, provides the rationale for setting a renewed European Research & Innovation policy agenda on cultural heritage. It outlines the general framework about cultural heritage in Europe and the contribution it can make towards smarter, more inclusive and more sustainable development. The report further delineates three priority objectives along the economic, social and environmental side and describes recommendable actions, drawing upon successful cases where cultural heritage has been a positive driver for sustainable development. In an increasingly urbanized world, water systems must be designed and operated according to innovative standards in terms of climate adaptation, resource efficiency, sustainability and resilience. This grand challenge triggers unprecedented questions for hydro-environment research and engineering. Shifts in paradigms are urgently needed in the way we view (circular) water systems, water as a renewable energy (production

and storage), risk management of floods, storms, sea level rise and droughts, as well as their consequences on water quality, morphodynamics (e.g., reservoir sedimentation, scour, sustainability of deltas) and the environment. Addressing these issues requires a deep understanding of basic processes in fluid mechanics, heat and mass transfer, surface and groundwater flow, among others. This book introduces readers to the core principles and methodologies of product development, and highlights the interactions between engineering design and industrial design. It shows to what extent the two cultures can be reconciled, and conversely what makes each of them unique. Although the semantic aspect is fundamental in industrial design, while the functional aspect is essential for the industrial product, the interaction between the two worlds is strategically vital. Design is also a strategic problem-solving process that drives innovation, builds business success and leads to better quality of life through innovative products, systems, services and experiences. The book

connects product development with the concepts and strategies of innovation, recognizing that product design is a complex process in which invention, consumers' role, industrial technologies, economics and the social sciences converge. After presenting several examples of artifacts developed up to the conceptual phase or built as prototypes, the book provides a case study on a packaging machine, showcasing the principles that should underlie all design activities, and the methods that must be employed to successfully establish a design process. The book is primarily targeted at professionals in the industry, design engineers and industrial designers, as well as researchers and students in design schools, though it will also benefit any reader interested in product design. This open access book addresses the current debate on extended working life policy by considering the influence of gender and health on the experiences of older workers. Bringing together an international team of scholars, it tackles issues as gender, health status and job/

occupational characteristics that structure the capacity and outcomes associated with working longer. The volume starts with an overview of the empirical and policy literature; continues with a discussion of the relevant theoretical perspectives; includes a section on available data and indicators; followed by 25 very concise and unique country reports that highlight the main extended working life (EWL) research findings and policy trajectories at the national level. It identifies future directions for research and addresses issues associated with effective policy-making. This volume fills an important gap in the knowledge of the consequences of EWL and it will be an invaluable source for both researchers and policy makers. This book provides an overview of the current Internet of Things (IoT) landscape, ranging from the research, innovation and development priorities to enabling technologies in a global context. A successful deployment of IoT technologies requires integration on all layers, be it cognitive and semantic aspects, middleware components, services,

edge devices/machines and infrastructures. It is intended to be a standalone book in a series that covers the Internet of Things activities of the IERC - Internet of Things European Research Cluster from research to technological innovation, validation and deployment. The book builds on the ideas put forward by the European Research Cluster and the IoT European Platform Initiative (IoT-EPI) and presents global views and state of the art results on the challenges facing the research, innovation, development and deployment of IoT in the next years. The IoT is bridging the physical world with virtual world and requires sound information processing capabilities for the "digital shadows" of these real things. The research and innovation in nanoelectronics, semiconductor, sensors/actuators, communication, analytics technologies, cyber-physical systems, software, swarm intelligent and deep learning systems are essential for the successful deployment of IoT applications. The emergence of IoT platforms with multiple functionalities enables rapid development and lower costs

by offering standardised components that can be shared across multiple solutions in many industry verticals. The IoT applications will gradually move from vertical, single purpose solutions to multi-purpose and collaborative applications interacting across industry verticals, organisations and people, being one of the essential paradigms of the digital economy. Many of those applications still have to be identified and involvement of end-users including the creative sector in this innovation is crucial. The IoT applications and deployments as integrated building blocks of the new digital economy are part of the accompanying IoT policy framework to address issues of horizontal nature and common interest (i.e. privacy, end-to-end security, user acceptance, societal, ethical aspects and legal issues) for providing trusted IoT solutions in a coordinated and consolidated manner across the IoT activities and pilots. In this, context IoT ecosystems offer solutions beyond a platform and solve important technical challenges in the different

verticals and across verticals. These IoT technology ecosystems are instrumental for the deployment of large pilots and can easily be connected to or build upon the core IoT solutions for different applications in order to expand the system of use and allow new and even unanticipated IoT end uses. Technical topics discussed in the book include: • Introduction • Digitising industry and IoT as key enabler in the new era of Digital Economy • IoT Strategic Research and Innovation Agenda • IoT in the digital industrial context: Digital Single Market • Integration of heterogeneous systems and bridging the virtual, digital and physical worlds • Federated IoT platforms and interoperability • Evolution from intelligent devices to connected systems of systems by adding new layers of cognitive behaviour, artificial intelligence and user interfaces. • Innovation through IoT ecosystems • Trust-based IoT end-to-end security, privacy framework • User acceptance, societal, ethical aspects and legal issues • Internet of Things Applications This book examines

the unexpected convergence between the higher education systems of India and France. This has resulted due to links between higher education investment and economic growth in the light of the knowledge triangle and the Lisbon strategy, which has recently been replaced by the Horizon 2020 scheme. The current state of Indo-French cooperation is highlighted and discussed in detail, with chapter 4 co-authored by prominent Indian scholar Geeta Nair, and it is suggested that the prospective Indo-French knowledge management system will provide a competitive advantage in the contemporary knowledge economy. This book attempts to answer the question: "How can Europe 2020, the EU's new strategy for smart, sustainable and inclusive growth, lead to a stronger social EU with less poverty and greater social cohesion?" Examined in depth are achieving the EU's ambitious social objectives to lift at least 20 million people out of the risk of poverty and exclusion by 2020 and the Union's four other mutually reinforcing targets. A key objective of the book is to take a

critical look at and draw lessons from the past, 2000–2010 Lisbon Strategy. Another important objective is to explore the format and role of EU coordination and cooperation in the social field in the new EU governance framework, in a context marked by slow recovery after the global economic crisis. Finally, the book also makes proposals for the further reinforcement of this coordination and cooperation and for the improvement of the different instruments available at EU, national and sub-national levels. The Committee heard much positive feedback about the work of the UK Space Agency since its creation in 2011. The UK's space sector is one of our economy's fastest growing sectors, with an average growth rate of almost 7.5%, and it has ambitions to increase its annual turnover to £40 billion by 2030. The report welcomes recent increases in the UK's commitments to the European Space Agency, but urged the UK Space Agency to strengthen UK influence within the European Space Agency by providing support for UK candidates applying for future director-level

positions within the Agency. There are a number of exciting developments happening in the UK space sector, including the expansion of the European Space Agency's operations at Harwell, the establishment of the Satellite Applications Catapult and Major Tim Peake's upcoming mission to the International Space Station. With continued cross-party support, we hope to see this sector expand in line with its ambitions and continue to attract jobs and businesses to the UK. This report proposes a long-term management of earlier NeRN work to be utilized also in the European and OECD context, and indicators on patients and citizens' use and experiences of eHealth services. An update to prior eHealth policy analysis shows an increase on governance and stakeholder involvement in all countries. The existing NeRN indicators form a good basis for continued monitoring. Common eHealth indicators from citizens' point of view are needed. Current Nordic citizen surveys offer a good basis for this. Decisions on governance of eHealth benchmarking work and of collaboration between several

different reporting organisations are required for long-term management on eHealth benchmarking. With very similar eHealth policy goals, the EU, WHO, and OECD should join forces in defining common indicators to be collected nationally and reported internationally (e.g. by Eurostat). "The new EU research framework programme, Horizon 2020, may be implemented through public-private partnerships (PPPs) in the case of research and innovation activities of strategic importance to the Union's competitiveness and industrial leadership or to address specific societal challenges. Initially launched as part of the European economic recovery plan in 2008, the three research public-private partnerships (PPPs) on factories of the future, energy-efficient buildings and green cars have now proved that they can help the manufacturing, construction and automotive sectors, and in particular the relevant SMEs, to adapt to global competitive pressures by improving their technological base. Under Horizon 2020, the successors of these three PPPs and the

new SPIRE initiative on sustainable process industry will now become contractual public-private partnerships. The Horizon 2020 work programme for 2014-2015 already includes opportunities for research and innovation activities under those four contractual PPPs, to develop clean technologies for Europe's industrial competitiveness, in order to ensure economic growth and job creation."--Editor. The objective of this handbook is to provide information and practical advice on the daily work of a National Contact Point (NCP) within the European Horizon 2020 (H2020) Programme. NCPs play a crucial role as providers of information and assistance to potential applicants for new research and innovation projects and beneficiaries in on-going projects. The handbook is not meant to be exhaustive in terms of duties and tasks that need to be performed by an NCP, but to provide an overview of the most common tasks and challenges in the work of an NCP; and facilitate communication as well as sharing of experiences and good practice with the network. It is then up

to each NCP to pick and choose the elements that are relevant for their daily work. To facilitate the use of this booklet, the text is accompanied by a practical and user-friendly profile checklist. This first version of the EOSC Work Plan outlines the key outputs which will be delivered in this first phase of implementation. They comprise a first iteration of activities which will be handed over to a new governance structure at the end of 2020. The timelines, methods for delivery and key inputs are outlined in this document and run from mid-2019 until the end of 2020. This Work Plan will be updated periodically, at least in Q1 of 2020, but potentially more regularly if needed. This document draws from the EOSC Implementation Roadmap adopted by the Commission on 14 March 2018 and the EOSC Strategic Implementation Plan published in June 2019. The activities in the work plan include the most recently approved Horizon 2020 projects. This document has been reviewed and amended by the EOSC Executive Board in August 2019. It will be presented to the EOSC Governing Board during its

11th September 2019 meeting. Based on case studies this book offers an insight in various European activities and practices in data management and their interaction with policies and programs. The latter form the background for the following case studies, provide the conceptual framework, at the same time giving an exhaustive understanding of the specific subjects. The case studies share common themes and give a concrete insight into vital issues such as web archiving, digitization of analog archives, researchers' motivations for sharing data, and how libraries, archives and researchers can collaborate in creating research tools and services. This yearbook provides a snapshot of what Eurofound learned and shared about the lives and work of Europeans in 2020. This report marks the third edition in this series, following assessments in 2012 and 2016. It provides a comprehensive overview of the state of play in the implementation of the ten SBA principles, and monitors progress made since 2016. It also identifies remaining challenges affecting SMEs in the Eastern Partnership (EaP)

countries and provides recommendations to address them based on EU and international good practice examples. In-work poverty is a reality for too many persons in the European Union (EU). Although everyone is in agreement that poverty must be reduced, rarely is there a specific focus on the plight of those who, despite working, are poor. This important book is the first to unreservedly meet the challenge of defining, measuring, and comparing the legal regimes to combat in-work poverty in Europe, fully attending to the strengths and shortcomings of indicators and allowing the assessment of comparative best practices among the Member States. The distinguished contributors each describe and analyse this complex and multidimensional phenomenon, with its manifold and intertwined causes, in relation to such factors as the following: employment-related factors (wage, type of contract, atypical employment); worker's socio-demographic characteristics (level of education, gender, age, country of birth); size and composition of household; household work intensity; and

institutional factors (childcare, flexible work arrangements, employment protection, housing, technological change). In a major innovation, the book's methodology approaches the 'working poor' by distinctly defining four groups of vulnerable and under-represented persons (VUPs) with detailed statistical information on in-work poverty in each group. Following an in-depth introduction focusing on the definition and ramifications of the concept of in-work poverty - including a discussion of legal scholarship and relevant EU instruments - the situations in seven EU Member States (Belgium, Germany, Italy, Luxembourg, the Netherlands, Poland, and Sweden) are compared, revealing important variations. For each of the VUP groups, these chapters explain their composition at the national level and assess the impact of regulation on the incidence of in-work poverty. The last chapter highlights differences and similarities in an attempt to find patterns and identify common regulatory problems and best practices. The book's comparative perspective greatly assists in

understanding in-work poverty determinants, appraising varieties of relevant national policies, and stimulating the development of effective legal measures. With its close analysis of the limitations of existing measurement indicators, the book sheds light on the role of regulation in the prevalence and persistence of the phenomenon and equips policymakers at the EU and national levels with targeted tools to tackle this severe social problem. The sixteenth edition of Social policy in the European Union: state of play has a triple ambition. First, it provides easily accessible information to a wide audience about recent developments in both EU and domestic social policymaking. Second, the volume provides a more analytical reading, embedding the key developments of the year 2014 in the most recent academic discourses. Third, the forward-looking perspective of the book aims to provide stakeholders and policymakers with specific tools that allow them to discern new opportunities to influence policymaking. In this 2015 edition of Social policy in the European

Union: state of play, the authors tackle the topics of the state of EU politics after the parliamentary elections, the socialisation of the European Semester, methods of political protest, the Juncker investment plan, the EU's contradictory education investment, the EU's contested influence on national healthcare reforms, and the neoliberal Trojan Horse of the Transatlantic Trade and Investment Partnership (TTIP). This factsheet aims to guide the environmental and Earth observation community, including the global Group on Earth Observations (GEO), through the first Horizon Europe work programme (2021 - 2022). It covers the different topics directly or indirectly related to environmental and Earth observation and offers an overview of the different funding opportunities available. Horizon Europe will contribute to a better uptake and broader use of environmental and Earth observations, building on the work of previous R&I Framework Programmes (notably Horizon 2020). The topics related to environmental and Earth observations cover a broad array of domains. Some of

them relate to applications in specific fields, like biodiversity or health, while some focus on interoperability issues or citizen science and engagement. While this factsheet provides you with a compass to navigate the Horizon Europe work programme 2021 - 2022, we invite you to refer to the Funding and Tenders Portal for the official and applicable content and to read carefully the full topic texts before applying. Global challenges need global solutions - and environmental and Earth observations can be part these solutions! Horizon Europe, the 9th European Framework Programme for Research and Innovation (2021 - 2027), has a budget of €95.5 billion over 7 years. The first work programme (2021 - 2022) has a budget of €14.7 billion. Common European Legal Thinking emanates from the existence of a shared European legal culture as especially reflected in the existence of a common European constitutional law. It denotes a body of individual constitutional principles - written and unwritten - that represent the common heritage of the constitutions of the

Member States. Taking into account the two major European organisations, the Council of Europe and especially the European Union, the essays of this Festschrift discuss a range of constitutional principles, including the rule of law, democracy, and the exercise of political power in a multilevel system which recognises fundamental rights as directly applicable and supreme law. Other essays examine the value of pluralism, the commitment of private organisations to uphold public values, principles or rules, and the objectives and methods of a transnational science of administrative law. These articles highlight the fact that the *Ius Publicum Europaeum Commune* is “politically” in the making, which can often be seen in the shape of general legal principles. The publication recognises the role of Albrecht Weber as a forerunner of Common European Legal Thinking. Sustainable innovation (SI) is considered to be a key driver of societal progress in an era of enormous economic, environmental and societal challenges, and the uncertainties and future consequences

that come with them. This book provides evidence, insights and reflections related to specific issues of governance, the management of sustainable innovation and applying a multi-level, multi-stakeholder approach to sustainable innovation analysis. Building on the European Commission (EU) funded research project "Public Participation in Developing a Common Framework for the Assessment and Management of Sustainable innovation" (CASI), it presents tools for assessing and managing sustainable innovation, and reflects on SI-related policies as well as citizens' aspirations. The book is intended for scholars in the field of sustainable innovation, as well as to policymakers, innovators, students and citizens. Research and innovation contributes to making Europe a better place to live and work, improving Europe's competitiveness, future growth and ultimately job creation while tackling the main current and future societal challenges. Horizon 2020 is the financial instrument implementing the innovation union and directly contributing to the

aims of the Europe 2020 strategy for growth and jobs. Horizon 2020 will help to bridge the gap between research and the market by helping innovative enterprises develop their scientific and technological breakthroughs into viable products and services with real commercial potential. This brochure presents a selection of 12 examples that show how research and innovation by SMEs makes a real difference to EU citizens' everyday lives, and is changing tomorrow today -- EU Bookshop. This Open Access book builds on the experiences of one of the largest European projects in the domain of responsible Research and Innovation: NewHoRRIZon. It highlights the potential of and opportunity in responsible R&I to conduct innovation in a socially responsible way. Employing the methodology of Social Labs, the book analyses responsible R&I from an experience-based viewpoint and further explores the application of responsible R&I beyond scholarly and industrial interests. The contributors analyze the current European R&I landscape, provide reflection and reconceptualization of its

core concepts, and project future challenges in relation to responsible R&I. The book complements the readers' line of work by providing insights on how responsible R&I can be applied by the audience, for example, in their decision-making processes. The Yearbook on Space Policy, edited by the European Space Policy Institute (ESPI), is the reference publication analysing space policy developments. Each year it presents issues and trends in space policy and the space sector as a whole. Its scope is global and its perspective is European. The Yearbook also links space policy with other policy areas. It highlights specific events and issues, and provides useful insights, data and information on space activities. The first part of the Yearbook sets out a comprehensive overview of the economic, political, technological and institutional trends that have affected space activities. The second part of the Yearbook offers a more analytical perspective on the yearly ESPI theme and consists of external contributions written by professionals with diverse backgrounds

and areas of expertise. The third part of the Yearbook carries forward the character of the Yearbook as an archive of space activities. The Yearbook is designed for government decision-makers and agencies, industry professionals, as well as the service sectors, researchers and scientists and the interested public. Scientific communication (Sci-Com) is a part of information science and the sociology of science that studies researchers' use of formal and informal information channels as well as their communicative roles. It also covers the utilization of the formal publication system and similar issues. Within the scientific community, much attention has focused on improving communications between scientists, policymakers, and the public. Sci-Com is an important area of research in meeting these needs. The use of communication methods to portray information clearly, concisely, and effectively, whether that be through presentations, writing, or other approaches, is an essential area of interest within the community. Improving

Scientific Communication for Lifelong Learners seeks to improve scientific writing and speaking skills for lifelong learning researchers by developing an adaptive and responsive open and distance application according to universal design principles. The book will focus on the efforts that are centered on improving the content, substantiality, accessibility, and delivery of scientific communications, and to convey clear information to an audience, so its members can understand, use, and build on the information portrayed. The chapters highlight specific areas such as design thinking, distance learning, educational technologies, student success and motivation, and the design of educational environments and learning communities. This book is a valuable reference tool for teachers, academics, communication specialists, students, researchers, developers, and R&D professionals from various fields such as distance learning, online learning, accreditation, qualitative and quantitative research, transhumanism and learning, computer engineering, sociology,

and more. The EU has been the region of the world where the most climate policies have been implemented, and where practical policy experimentation in the field of the environment and climate change has been taking place at a rapid pace over the last twenty-five years. This has led to considerable success in reducing pollution, decoupling emissions from economic growth and fostering global technological leadership. The objective of the book is to explain the EU's climate policies in an accessible way, to demonstrate the step-by-step approach that has been used to develop these policies, and the ways in which they have been tested and further improved in the light of experience. The book shows that there is no single policy instrument that can bring down greenhouse gas emissions, but the challenge has been to put a jigsaw of policy instruments together that is coherent, delivers emissions reductions, and is cost-effective. The book differs from existing books by the fact it covers the EU's emissions trading system, the energy sector and other economic sectors,

including their development in the context of international climate policy. Set against the backdrop of the 2015 UN Climate Change conference in Paris, this accessible book will be of great relevance to students, scholars and policy makers alike. An increased demand for waste upcycling has prompted the food industry to become more efficient in its handling of waste. Efficient utilization of food waste is of concern to consumers, environmentalists, and policy makers. In the past, food waste has been used for the production of bio-gas and bio-fuels, fertilizers and animal feed. Biobased products from food sector waste: Bioplastics, biocomposites, and biocascading proposes an innovative use of food waste—as filler in a bioplastic matrix. The upcycling of food industry waste to produce new composites has a number of beneficial features, including (i) avoiding the cost of waste disposal; (ii) reducing bio-based composites price; (iii) avoiding using edible resources as a starting material for bio-based composites (to eliminate competition between biomass

use for food, feed, and material use); (iv) producing a non-food bio-based output different from existing outputs (bio-fuels or bio-energy). The production of value-added items supports the development of a circular and sustainable economy in a thriving bio-based sector via the emergence of food value chains. The authors explore the safety of bio-based products. Using an evidence-based approach, they detail the volatile profile of biobased products and underline the absence of priority air pollutants released by fossil plastics, which pose a significant public health threat. The volume also delves into socioeconomic considerations and environmental concerns related to the upcycling of food by-products. Finally, the authors address how advances in digital technology can make food waste upcycling a negative-cost process. This book explores the phenomenon of researchers at risk: that is, the experiences of scholars whose research topics require them to engage with diverse kind of dangers, uncertainties or vulnerabilities. This risk may derive from

working with variously marginalised individuals or groups, or from being members of such groups themselves. At other times, the risk relates to particular economic or environmental conditions, or political forces influencing the specific research fields in which they operate. This book argues for the need to reconceptualise - and thereby to reimagine - the phenomenon of researchers' risks, particularly when those risks are perceived to affect, and even to threaten the researchers. Drawing on a diverse and global range case studies including Aotearoa New Zealand, Australia, Balchistan, Cyprus, and Germany, the chapters call for the need to identify effective strategies for engaging proactively with these risks to address precarity, jeopardy and uncertainty. This book describes the state-of-the-art concerning the 'marine microbiome' and its uses in biotechnology. The first part discusses the diversity and ecology of marine microorganisms and viruses, including all three domains of life: Bacteria, Archaea, and Eukarya. It

discusses whether marine microorganisms exist and, if so, why they might be unique. The second part presents selected marine habitats, their inhabitants and how they influence biogeochemical cycles, while the third discusses the utilization of marine microbial resources, including legal aspects, dissemination, and public awareness. The marine microbiome is the total of microorganisms and viruses in the ocean and seas and in any connected environment, including the seafloor and marine animals and plants. The diversity of microbial life remains unquantified and largely unknown, and could represent a hidden treasure for human society.

Accordingly, this book is also intended to connect academics and industry, providing essential information for microbiologists from both fields. This book is about innovation, reflection and inclusion.

Cultural innovation is something real that tops up social and technological innovation by providing the reflective society with spaces of exchange in which citizens engage in the process of sharing their experiences while appropriating

common goods content. We are talking of public spaces such as universities, academies, libraries, museums, science-centres, but also of any place in which co-creation activities may occur. The argument starts with the need for new narratives in the history of philosophy, which can be established through co-creation, the motor of cultural innovation. The result is redefining the history of philosophy in terms of a dialogical civilization by ensuring continuous translations, individual processes of reflection and collective processes of inclusion. Readers will grasp the effectiveness of the history of philosophy in societies that are inclusive, innovative and reflective. "How to write effective EU Proposals" is a practical guide on getting funding for Horizon 2020. The book shows you how to: Develop ideas and find opportunities for funding within the Horizon 2020 programme. Start networking and make yourself a natural partner for a proposal. Use successful partner search strategies and tactics. Manage your way to EU funding,

weed out bad proposals and join successful networks. Apply a step by step approach to increase your chances of funding by guiding you through the often neglected areas of proposal positioning through excellence and urgency and writing for impact. Evaluate and improve your proposal before submission. The book describes these steps beyond the technical requirements and focuses on the lesser known - but essential - social and procedural factors for obtaining funding for your Horizon 2020 project. See <http://horizonbook.eu> for additional resources. Even as the 2013-2017 "migration crisis" is increasingly in the past, EU countries still struggle to come up with alternative solutions to foster safe, orderly, and regular migration pathways, Europeans continue to look in the rear-view mirror. This Report is an attempt to reverse the perspective, by taking a glimpse into the future of migration to Europe. What are the structural trends underlying migration flows to Europe, and how are they going to change over the next two decades? How does migration interact

with specific policy fields, such as development, border management, and integration? And what are the policies and best practices to manage migration in a more coherent and evidence-based way? One of the central engines of the current shift towards decentralization and reorientation of healthcare services is mobile healthcare (mHealth). mHealth offers unique opportunities to reduce cost, increase efficiencies, and improve quality and access to healthcare. However, the full impact of mHealth is just beginning to be felt by the medical community and requires further examination to understand the full range of benefits it contributes to medical staff and patients. *Mobile Health Applications for Quality Healthcare Delivery* explores the emergence of mHealth in the healthcare setting and examines its impact on patient-centered care, including how it has reshaped access, quality, and treatment. Highlighting topics such as patient management, emergency medicine, and health monitoring, this publication supports e-health systems designers in understanding

how mobile technologies can best be used for the benefit of both doctors and their patients. It is designed for healthcare professionals, administrators, students, health services managers, and academicians. This Open Access book provides a thorough analysis of the quality of work in the Netherlands, and suggests policy proposals to promote and facilitate good work for more people. New technology, flexibilization and the intensification of work will have significant consequences for all those who will still have jobs in the future, and – much less studied so far – for the quality of their work. Good work is essential for general well-being: for the individual's quality of life, for the economy and for society. Good work for everyone should therefore be seen as an important aspiration for companies, institutions, social partners and governments. An essential read for an international audience of academics in the field of the sociology of work, labor economics and social policy, as well as for policymakers and researchers of trade unions, and

representatives of other social movements. An innovative, internationally developed system to help advance science learning and instruction for high school students. This book tells the story of a \$3.6 million research project funded by the National Science Foundation aimed at increasing scientific literacy and addressing global concerns of declining science engagement. Studying dozens of classrooms across the United States and Finland, this international team combines large-scale studies with intensive interviews from teachers and students to examine how to transform science education. Written for teachers, parents, policymakers, and researchers, this book offers solutions for matching science learning and instruction with newly recommended twenty-first-century standards. • New York Times bestseller • The 100 most substantive solutions to reverse global warming, based on meticulous research by leading scientists and policymakers around the world "At this point in time, the Drawdown book is exactly what is needed; a credible,

conservative solution-by-solution narrative that we can do it. Reading it is an effective inoculation against the widespread perception of doom that humanity cannot and will not solve the climate crisis. Reported by-effects include increased determination and a sense of grounded hope.” –Per Espen Stoknes, Author, *What We Think About When We Try Not To Think About Global Warming* “There’s been no real way for ordinary people to get an understanding of what they can do and what impact it can have. There remains no single, comprehensive, reliable compendium of carbon-reduction solutions across sectors. At least until now. . . . The public is hungry for this kind of practical wisdom.” –David Roberts, *Vox* “This is the ideal environmental sciences textbook—only it is too interesting and inspiring to be called a textbook.” –Peter Kareiva, Director of the Institute of the Environment and Sustainability, UCLA In the face of widespread fear and apathy, an international coalition of researchers, professionals, and scientists have come

together to offer a set of realistic and bold solutions to climate change. One hundred techniques and practices are described here—some are well known; some you may have never heard of. They range from clean energy to educating girls in lower-income countries to land use practices that pull carbon out of the air. The solutions exist, are economically viable, and communities throughout the world are currently enacting them with skill and determination. If deployed collectively on a global scale over the next thirty years, they represent a credible path forward, not just to slow the earth's warming but to reach drawdown, that point in time when greenhouse gases in the atmosphere peak and begin to decline. These measures promise cascading benefits to human health, security, prosperity, and well-being—giving us every reason to see this planetary crisis as an opportunity to create a just and livable world. This important book looks at a broad spectrum of biotech research efforts and their applications to the aquaculture industry. *Aquaculture Biotechnology*

provides key reviews that look at the application of genetic, cellular, and molecular technologies to enable fish farmers to produce a more abundant, resilient, and healthier supply of seafood. Aquaculture Biotechnology is divided into seven sections and nineteen chapters that cover topics ranging from broodstock improvement to fish health and gene transfer. With chapters provided by leading researchers and skillfully edited by top scientists in the field, this will be a valuable tool to researchers, producers, and students interested in better understanding this dynamic field of aquaculture. This report presents the mid-term evaluation of the Innovation in SMEs Actions of Horizon 2020, which supports SMEs by providing both direct financial support to individual enterprises and indirectly through supporting SME and innovation agencies with the creation of a favourable ecosystem for innovation and growth. Technopolis Group conducted this evaluation on behalf of the Commission in the period June 2016 to February 2017, using the Commission's standard evaluation

methodology, in line with the “Better Regulation Package”.

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