# 2021 Call-for-Contributions of the International Institute of Administrative Sciences: “Public Administration and Industry 4.0”

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Using 4IR To Correct Mistakes of Earlier IRs

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So many of our problems are because our use of technologies of past industrial reforms have created the crises that humanity now faces. This Call for Papers focuses on how we can use the Fourth Industrial Revolution to correct the errors of the past. Our concern is not for the technologies themselves. Other forums can discuss carbon neutral technologies, climate change adaptation, and so on. We call for papers that relate to the public administration of new technologies that is needed for these new technologies to work for mankind.

Each paper should address some global problem that has been created by past and present technologies, propose or anticipate what 4IR can do to address that problem and what are the policy issues to be considered for success.

The research question may respond with abstracts for papers that address questions like the following:

1. We already witness the move away from petroleum-based energy. What are we to do with the oil and coal industry, the mines, the drilling fields, the refineries, the transportation infrastructure? Can 4IR contribute to make it easier, and how should governments regulate to assure that it does?
2. We already witness both the swing away from single use plastic, and new technologies for alternatives. How can 4IR help with the dealing with plastic in the environment, and what should we regulate to deal with it?

3. Our cities have grown because of transport technology. Over the past two decades and more we have seen a response to urban sprawl with promotion of high density. Covid-19 now has hit public transport hard. What can 4IR do to restrict expanding cities and make our transport safe? And what should governments do to guide it?

4. Transport has inherently been dangerous. What can 4IR do to make travel safer and how should governments respond?

5. Behind past industrial revolutions has been a framework of belief that has supported the technologies. Whether it is replacing current capitalism, or changing ideas about the relationship between Man and Nature, how can 4IR help change those perceptions and build a different foundation for society? And what are the public administration consequences?

6. Key religions, Christian, Islam and Hindu, are all undergoing crises related to human rights, democracy, and attitudes towards technology. For instance, religious and political radicalization in North America has caught the world off guard, with important policy and intelligence community related impacts. Religious fundamentalists are continuously using social media to expand their influence and recruit followers aided and abetted with the algorithms of the social media platforms. There are major issues in regulating such media. How can we regulate social media so that it serves the greater public interest?

7. We will recommend other topics, provided they focus on the need for 4IR to be distinct from past industrial revolutions, and overcome our problems created by them.
Governing Skills Development for Industry 4.0

Background: the European Training Foundation

The European Training Foundation (ETF) is a decentralized, specialist agency of the European Union. With a core mission of helping transition and developing countries harness the potential of their human capital through the reform of education, training, and labor market systems, in the context of EU external relations policies.

The ETF works with 29 countries bordering the EU to improve their human capital development systems, analyze emerging skills needs, and improve their labor markets. The ETF supports them to improve social cohesion and achieve more sustainable economic growth, which in turn benefits Member States and their citizens by improving economic relations.

As part of its work the ETF support seeks to strengthen system governance through coordination mechanisms, with an emphasis on legislation, institutional settings – including coordination between national, local and sectoral levels – and financing.

In 2021, the ETF is cooperating with the International Institute of Administrative Sciences (IIAS) in its Annual Conference.

The ETF will host dedicated sessions at the IIAS’s annual conference. This year the conference will focus on the governance of Industry 4.0, the challenges that may arise and emerging solutions.
Industry 4.0

Over the last decade, trends in technology, digitalization, climate change, migration and globalization have emerged as drivers of change in societies and economies.

Many observers believe that underpinning these changes is a new industrial revolution, considered to be the fourth such leap forward and frequently referred to as Industry 4.0.

The ubiquitous use of technology, communication and networks, the deployment of increasingly intelligent robots and machines – as well as increased computing power at lower cost and the development of 'big data' analytics – has the potential to transform the way goods are manufactured.

The ETF will contribute to the conference by supporting a discussion focused on emerging economies and economies in transition on the implications of Industry 4.0 for the governance of human capital.

Call-for-papers

The ETF is interested in papers and contributions from experienced professionals who would like to participate in the ETF session.

This proposed digital industrial revolution envisaged as Industry 4.0 holds the promise of increased flexibility in manufacturing, mass customization, increased speed, better quality and improved productivity. However, to capture these benefits, economies will need to invest in equipment, information and communication
technologies (ICTs) and data analysis as well as the integration of data flows throughout the global value chain.

For member states of the EU, the shift to Industry 4.0 is expected to have a major impact, with the transition being estimated to deliver annual efficiency gains in manufacturing of between 6% and 8%.

The transition to Industry 4.0 will impact not only developed economies but also developing and emerging economies where there is a need for investment, new business models, data issues, legal questions of liability and intellectual property, standards. These countries are facing significant challenges in human capital to be met if benefits are to be gained from new manufacturing and industrial technologies.

A key policy issue surrounding Industry 4.0 is how it might affect the labor market. In recent years, technology that supports on automation, remote working has become more advanced, and its application is increasing across a range of different business settings. Does it pose a threat to business and the labor market and what are the wider implications for society?

To consider these issues, the following call for papers has a specific focus on the human capital dimensions of making a transition to industry 4.0 and its implications for governance of the policies in skills, lifelong learning and job creation.

The transition will accelerate the need for adaptation of education and training systems. Whereas a consensus has emerged about the need for a paradigm shift towards lifelong learning, the structures and institutions that support human capital development in many societies appear slower to change. Although the baseline for public policies is changing, and the necessary directions are clear and the challenges
are increasingly evident, many of the practices essential for the transition have yet to be created.

That more connected economy will need new skills has been extensively researched with many studies highlighting the new types of skills that are expected in the future. However, less clear are the **changes required in how Governments organize and manage their skills development systems.** Moreover, the context for Industry 4.0 is changing with the **Covid-19 pandemic** and the need to move towards a **circular economic** has introduced new perspectives into the discussion on industry 4.0. Is the original conception of Industry 4.0 still a valid basis for thinking about public policy and the world of the future?

**Topics and Themes in the ETF call for papers.**

The ETF is therefore making a call for papers from interested experts, practitioners and researchers on the topic of “**Governing Human Capital Development in the context of Industry 4.0**”. Given its mandate the ETF has an interest in contributions that address challenges and opportunities **in the countries of South Eastern Europe, Eastern Europe, the Middle East and North Africa, and Central Asia.** However, the ETF would also welcome relevant contributions to the session from other regions of the world.

The expected contributions for authors to participate in the ETF session are following 5 areas:

- **Institutional Subsidiarity**: research and practices on how information networks are changing relationships between national, regional and community processes,
including the private, the public and community sector, in advancing the delivery of inclusive human capital development policies and services. Experiences on the impact of changes to existing stakeholders and the emergence of new influencers, including the impact of digital governance.

- **Sustainability and Inclusion in the context of Industry 4.0:** How can we expect technology, communication and networks, to impact on inclusion, including experience of workers, women and adult learners and sustainable development. How can governance support inclusive lifelong learning in the time of industry 4.0? What advantages does the “Fourth Industrial Revolution” present for women?

- **Widening the dialogue between stakeholders** to connect spatial and business strategies for the benefit of people and create skilled communities with sustainable economies. How to promote shared outcomes?

- **Public-Private Partnerships for skills development**, including financial and non-financial arrangements for employer and community engagement. What are the different types of public and private cooperation at all possible levels (international, national, local, schools, company etc.), and how can the increasing use of technology support trust-building processes and other issues such as capacities of different actors and institutions involved?

- **Co-managing the transitions:** Interacting strategies for Businesses, People and Places. What are the differences between supporting the growth of industry 4.0 in rural and urban environments?

- The changing role of stakeholders in human capital development in the context of Industry 4.0
Social Innovation, Commons and Administration

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Social innovation is one of the most interesting trends of the 21st century, and it involves many sectors of society. In fact, not only do different social actors come up with innovative and creative ideas, they also build new relationships with other stakeholders. While we have many examples of social innovation driven by private
companies and by the civil society, **this track is aimed at investigating the manifestation and effects of social innovation in the public sector**, especially when public authorities are involved. Social innovation in public administration can be interpreted as an evolution of Public Governance, which stressed the importance of networks, multilevel governance and collaborative relationships. The perspective of social innovation is aligned with these assumptions, since it is based on the **idea that innovation is most effective when it stems from cooperation between different actors**. As a natural consequence of social innovation, new relationships are created between those who participate to the innovation process, and also between the beneficiaries of the innovation. At the same time, social innovation is closely linked to innovative technological tools, for what concerns both the platforms where it takes place, and the output that it produces. **Platformization** is an especially relevant issue in this respect, along with the debate regarding the **(re)distribution of value created** through platforms and the idea of building cooperative platforms. An open issue has to do with the **legal foundations** of such a new paradigm, from the point of view of constitutional principles (e.g. subsidiarity, administrative efficiency), hard law and best practices.

Public administrations have started to include external parties in their policy-making processes, in various fields. This inclusive phenomenon regards **participation by stakeholders and populations** (especially at the local level) in administrative decisions, as well as the joint management of commons. Moreover, an important challenge for scientists nowadays is the proper definition of the concept of commons itself, whose notion may deeply influence the choice of suitable tools of use and management. The evolution of the paradigm of the commons is also relevant, with the emergence of the **“new commons”**, such as the Internet, culture and other
immaterial resources. In particular, the **access of population to knowledge** (as a commons itself) is strategic, especially in the latest years and even more in the current period of global crisis. The complex **relationship with industry** matters, in such field, at least in a double perspective: first, as the source for a broad comprehension of specific information, whose ethical use is strategic in order to reach important goals in the public interest (f.i., general well-informed access to vaccines and medical treatments); second, in order to overcome the problem of the lack for technological (and especially digital) literacy, which involves a large part of people around the world. The objective of this track is the creation of a fruitful dialogue between researchers and practitioners in different fields (e.g.: management, law, administration, political science, philosophy, etc.), as well as in their relationships with business, government and civil society.

The track welcomes contributions regarding, but not limited to, the following topics:

- Platformization and the possibility of building platforms as commons;
- Technological innovations as “new commons” and their role for public administration;
- Social innovation and participation in administrative actions and commons;
- Legal foundations and implications of social innovation in the public administration;
- Definitions of the concept of “commons” and its application in public administration;
- Inclusive governance fostered by socially innovative practices and cross-sectoral cooperation;
- Cooperative management and governance of commons.
Building the Skills for Industry 4.0: Challenges and Opportunities

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The dynamics of the rapid technological developments and increased pace of innovation have caused paradigm shifts which have been accompanied by consecutive waves of new technologies. The most recent paradigm shift of the Fourth Industrial Revolution (Industry 4.0) is transforming most industries and leading to smart manufacturing, smart homes, smart cities and smart ways of living. Digitalization of the economy and society is generating ever-increasing amounts of data and requirement the implementation of new technologies.

The term Industry 4.0 was first coined in 2011 at the Hanover Fair (Drath and Horch, 2014). Industry 4.0 is being driven by cyber physical systems (CPS) and integration of the real and digital worlds to achieve industrial development. It can be defined as “recent technological advances where the internet and supporting technologies serve as a backbone to integrate physical objects, human actors, intelligent machines, production lines and processes across organizational boundaries to form a new kind of intelligent, networked and agile value chain” Schumacher et al. (2016, p. 162).

Industry 4.0 technologies can be considered general purpose technologies (GPT) (Bresnahan and Trajtenberg, 1995; Helpman and Trajtenberg, 1998, Basu and Fernald, 2007). Interconnection among Industry 4.0 technologies is achieved through the deployment along the value chain of horizontal, vertical and end-to-end system integration tools (Ben Youssef, 2020) and is based on several principles including
interoperability, virtualization, decentralization, real-time capacity, service orientation, and modularity.

Industry 4.0 technologies cause radical transformations to jobs and economic activities and these transformations have been accelerated by the conditions surrounding and the measures put in place prevent the spread of the COVID-19 pandemic. However, business performance does not depend only on the implementation of the new technologies; it also requires specific workforce skills (Chaibi et al., 2015). Workforces need to be trained to ensure that their skills match the requirements of Industry 4.0 technologies. Increased automation and use of the artificial intelligence, robots, augmented reality, virtual reality, 3D printing, etc., continue to change both future jobs and the workforce skills required. This is leading to a transition in employment from lower-skilled to more highly-skilled jobs (Sousa and Rocha, 2018; Smith and Talent, 2018).

Education plays a critical role in the accumulation of the skills required to apply Industry 4.0 technologies. Higher education institutions especially universities should ensure their curricula provide students with the appropriate skills for entry to the labor market (Ben Youssef et al., 2012). Industry 4.0 requires transversal skills and competences adapted to digitization of production and the use of large volumes of data. However, a mix of both technical and soft skills is also required to provide the essential capabilities to enable success in the labor market.

To contribute to the ongoing debate on the skills required for Industry 4.0, this call for paper focuses on the following question: “What are the challenges and opportunities related to building the skills needed for Industry 4.0?” We welcome theoretical and practical analyses of the different levels of the capabilities needed for
Industry 4.0 skills by different actors (individuals, workers, firms, regions, countries, etc.

Potential subtopics could include, but are not limited to:

- Skills for Industry 4.0;
- Ways to build the skills for Industry 4.0;
- Skills and Jobs 4.0;
- Health 4.0 and the skills required;
- Education and Industry 4.0;
- Tourism 4.0 and the skills required;
- Industry 4.0 and COVID-19;
- Cyber criminality and Industry 4.0;
- Organizational change and the skills required for Industry 4.0;
- Soft skills and digital skills;
- Artificial intelligence and Skills 4.0;
- The Internet of Things and Skills 4.0;
- Virtual reality and Skills 4.0.
References


Chaibi, A., Ben Yousef, A. and Ben Aoun, L. (2015). "E-Skills, Brains And Performance Of The Firms: ICT And Ability Of Firms To Conduct Successful Projects In Luxembourg".


Public Administration and Industry 4.0: 
Is there a Role in and for Public Procurement?

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The Covid-19 pandemic has been a challenge for legislators around the world. In order to face the sanitarian crisis, governments have been enacting exceptional regulatory and legislative measures to speed up the public purchase of individual protection kits for civilians and sanitarian products and medical services for health care institutions and professionals. It is a fact that, due to the emergency, the absence of a necessary reflection upon normative solutions regarding exceptional public procurement regimes has been the cause of many legislative problems. Still, the pandemic can be an opportunity for legislators to learn how to address similar crises in the future by making use of flexible, yet steady rules in public procurement.

In SDG 12 Target 7, Public Procurement has been identified as an instrument to be promoted “in accordance with national policies and priorities” through sustainable practices. Many countries, benefiting from previous experiences carried out in so-called normal times may, therefore, have implemented some of those practices in this crisis. In public contracts regarding the vaccines, the European Union has been taking the lead in collective buy – in other words, in joint public procurement. This option has been a success regarding the “equal access” to vaccines from all Member
States. Still, contract execution has been showing some unexpected or unforeseen difficulties regarding the compliance with deadline delivery.

Furthermore, the general lockdown has shown the potential of dematerialized procedures and the importance of IoT, Big Data and analytics to monitor the sanitarian crises.

We want to discuss the best practices regarding public procurement procedures related to the Covid-19 sanitarian crises both inside and outside the European Union. Papers, presentations or posters are called-for, answering the following questions:

- What have we learned from the Covid-19 crisis in terms of public procurement?
- Is joint public procurement an instrument to be developed and consistently used from now on?
- Do public procurement rules need to be softened to meet crises like this one?
- Can mandatory e-procurement help achieve flexible rules more efficiently?
- Is it even possible to have flexible but sustainable public procurement or do sustainability concerns hinder automatization procedures and require human decision at all times?
- Does Industry 4.0 have a place in sustainable and circular procurement?
- Can it be considered an added value in public procurement procedures in time of crises, both in the buying process and in the contract execution?
- Is Blockchain an IT instrument relevant to public procurement procedures and monitor the public contracts execution?
- Is Industry 4.0 a new dimension of sustainable procurement for and beyond times of crises?
Adopting 4IR to Support Healthy, Active and Just Ageing:
2021 Call-for-Papers of the IIAS Study Group on
Governance and Ageing Society

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The aim of this call is to broaden our understanding regarding the impact of digital technology on ageing in the context of the fourth industrial revolution (4IR) which accelerated the coverage and depth of digitalization in both public and private domains. Increasing number of concerns have been raised regarding the dark side of ICT in perpetuating stereotypes and discrimination against the older and poor population. In other words, human rights of the older persons are at risk if such development continues without being checked.

This year’s Study Group Meeting will focus on the less visible aspect of the ageing process where maintenance of individual capacities for an independent, purposeful and engaging life have either been enhanced by ICT or have had a discriminatory effect due to ICT, unfair algorithms and other decision support applications. These challenges are present in the workplaces, such as e-HRM, in the consumer products development, such as providing clothing with low esthetic values for the older persons, or with style exclusively suited for the younger population.
The major focus is put on both the emerging age-based digital divides that are increasingly detectable in the workplace, labour market, urban design, public transport, health services, due to COVID-19 pandemic. But also the call to focus on the positive and enabling effect of ICT such as measures to reduce risk and empower older persons so that they can also reap the benefits of 4IR and maintain their autonomy and meaningful participation in their communities. At the final end, for healthy ageing, improved resilience of older persons is a key determinate where technology could make vital contributions.

Here is a list of suggested questions:

- What could be the future of population ageing in the digital economy?
- What policy instruments empower disadvantaged and vulnerable groups amongst older populations to participate in economic and social activities thanks to ICT?
- What policy measures are available and practiced to promote equitable digitalization and transition?
- What impact is there by digital technology on the progress of SDG 3 Good health and wellbeing for the older persons?
- What could be the interactional effect of Active Ageing Policy and 4IR-related industrial policies at different levels: organizational, local and national?
- What are the drivers and barriers for global, national, local digital technologies adoption for aging societies?
- How does 4IR impact intergenerational interactions in ageing societies?
- How does 4IR Impact the employability of older workforce, resilience and their job satisfaction in different countries?

600 words-maximum abstracts contributing to address this theme through these or other aspects, are called-for.
Harnessing the Transformative Potentials of Industry 4.0:
What Role for African Public Administration?

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Beyond an undoubtedly disruptive impact, Industry 4.0 or the Fourth Industrial Revolution can, according to Ndung’u & Signe (2020) also rebalance value creation in Africa: it could usher in solutions to challenges like low quality education, climate change, vulnerability and poor service delivery, and groundbreaking technology-such as artificial intelligence (AI) could, alongside with enabling empowerment policies, improve business, health care and livelihoods of all and bring about the inclusivity envisaged by the 2030 SDGs. The authors however cautioned that Africa’s large digital infrastructure and skills gap mean those who have otherwise been at the forefront of 4IR are left behind. Africa indeed still lags behind both developed and other developing countries in several indicators for the Fourth Industrial Revolution, especially in infrastructure, technology, access, and education.

The transformative potentials of Industry 4.0 in Africa include: encouraging economic growth and structural transformation; fighting poverty and inequality; increasing financial services; reinventing labor, skills and production; modernizing agriculture and agro-industries as well as improving health care and human capital. Yet, Africa cannot wish away the challenges facing the continent. It is seriously
lagging on the digital front. Even though Hafez Ghanem suggests that with its large number of imaginative and creative youth, Africa should become the start-up continent, these potentials may not be fulfilled unless Africa addresses the sizeable deficits in the digital front.

The above scenario has impact on Public administration in Africa especially as evidenced in the ongoing efforts to employ technology to keep public institutions working in the face of the challenges of COVID-19. Providing answers to the following questions become pertinent:

- How can African governments and Public Administration overcome the challenges of infrastructure, technology, access and education?
- How can Public Administration in Africa take advantage of the transformative potentials of the 4IR in the tasks of fighting poverty and inequality; increasing financial services; reinventing labor, skills and production; modernizing agriculture and agro-industries and improving health care and human capital?

Authors are invited to send in abstracts addressing how the sizeable digital and technological deficits can be overcome and secondly how African governments and Public Administration can take advantage of the transformative potentials of Industry 4.0.
References


Industry 4.0 or the Fourth Industrial Revolution (4IR) or refers to significant changes in the economic and social structures enabled by the new technologies, including: the Internet of things (IoT), Big data and analytics, Robotics, and 3-D printing (Strange & Zucchella 2017). Overall, Industry 4.0 is concerned with the automation of human work.

The measures taken to address the Covid-19 pandemic have been speeding up the ongoing transition (APEC 2020): they demonstrated that retail, education, entertainment, and white-collar work don’t require the simultaneous physical presence of individuals. They might have lasted long enough for a point of no return to be reached.

Industry 4.0 has a potentially disruptive impact on the 2030 SDGs Agenda. It could rebalance value creation and economic growth towards technology and R&D-intensive sectors, regions and individuals; transform how public goods such as education or security are produced and consumed; provide opportunities and risks for addressing wicked issues such as climate change, global security, pandemics and other disasters; achieve societal transformation.

Industry 4.0 is impacting Public Administration on two ways. Firstly, it provides a new array of tools enabling to transform or re-engineer public administrations workflows away from jurisdictional silos towards greater interaction, while at the
same time significantly increasing the steering capacity of governments over other actors of society.

Secondly, it creates new priorities or rebalance existing ones, including: the regulation of tech giants regarding antitrust and other aspects, the fiscal consolidation, the management of growing social inequalities, of evolving forms of political expression and participation, and the globalization of public governance.

In the Open Call, panel and paper submissions addressing the Conference theme in general are collected.

The review is performed by the IIAS Scientific Secretariat. Accepted panel proposals are scheduled to the program. Accepted paper proposals are forwarded to chairpersons of other tracks, including IASIA ones, to complete their own program, or clustered together in ad hoc sessions. Authors are invited to consider direct abstract submissions to Conference tracks first.