Aveiro Labour Observatory

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Technological trends, technology adoption, investment and competences in advanced technologies

The development of the professio- the new technologies with the extin- key competitors. combination of advanced, digital transversal professional and competences. The combination of different competences will not only be relevant for the future of organizations, but also for each individual, as each one of us must qualify in order to keep up with emerging technologies and address the challenges of the labour market. The competences associated with new technologies are creating new paths opportunities across all and professional areas. A professional in the area of finance, for example, can develop competences at the level of AI (Artificial Intelligence) and thus create new opportunities to improve their performance. This is an alternative vision towards the prevalent vox populi that associates

nals of the future will require a tion of some jobs and the subsitution og humans by machines..

> for new and emerging professions the number of online job ads that and competences the European Union (EU) launched the "Report on automotive sector stands out for the technological trends, technology high demand exhibited for digital adoption, investment and competences in advanced technologies", offering a discussion about the impacts of technologies on the demand for professionals and competences.

The report makes an in-depth analysis, exploring trends in the generation and uptake of advanced technologies, related business activities and competences. It brings together several data sources in order to monitor advanced technologies and their applications in industry across the EU-27 and in the economies of

The research about such advanced technologies, build on information In a recent overview of the demand from Linkedin network, monitoring require specific competences. The technologies, IoT (Internet of Things) and Micro Electronics. In engineering the demand for robotics stands out. In the banking sector, which has been a pioneer in the applications of Blockchain technology, the data confirms the current and future demand for this technology. The competencies related to data analysis (cloud and Big Data) are, as expected, highly sought after by sectors where information is an important asset, namely in banking and financial services.

Smart Cities - Concepts and benefits

the territory.

Technologies (ICT) technological systems and tools and inclusion and connectivity. their application to urban projects. The use of sensors, monitoring syswireless networks, autonotems. mous devices and mobile applications, allows data collection is taking place at an unprecedented pace, and offers immense support for the development of new solutions to address social problems to improve the quality of life of citizens.

Smart Cities encompass intelligence



The developments of new technologies has provided an increase in interactivity in the daily lives of citizens. Innovative solutions in different areas of the urban environment have been presented, with the aim of optimizing relations between the community and the ser-

Intelligent solutions optimize public

Smart Cities are the result of the use in the human and collective spheres services through the analytical manof Information and Communication through the pillars of innovation, agement of information about where through public management, sustainability, resources are being consumed. This data enables better monitoring and management by the municipality and allows citizens to make more conscious use of it, reducing operational maintenance costs and increasing the life span of existing infrastructure. A Smart City uses the technology to provide a new way of living in the city.

> vices, public and private, that exist in The success for a city to become truly intelligent lies in the importance of its inhabitants as the main sources of information.

In the next few days...

The Aveiro Labour Observatory will be present at Aveiro Tech Week conducting a Workshop that will take place October 16th between 10h30 and 12h00. The Workshop promoted by the Aveiro Labour Observatory will on take place at the Aveiro Hub, located on the 2nd floor of the Atlas Aveiro building. The session will have a limited capacity, dictated by the current circumstances, but may be followed in live stream, by Youtube and Facebook. For more information please follow the updated trough our social networks.

This will be a great opportunity to learn more about the work that the Observatory has conducted in recent months, but also to get to know a new tool that the Research Team of the Labour Observatory is developing, and to provide and collaborate in the discussion of its functionalities. In this context the work inputs in progress will be presented about the development of an innovative Dashboard that integrates different sources of recruitment, thus being an agile way to aggregate and analyzes job offers from information in on the dynamics of job offer and competences demand. real time



Have you thought about how data analysis can help your company's recruitment? We would like to know your opinion and count on your contribution in the development of this tool!



Did you know?

The Directorate General of Education and Science Statistics report, the results show a discrepancy of graduates by gender. (DGEEC) is a central service under the State's direct administra- This is a problem that not only affects Portugal. In 2015, 1.4 miltion, with administrative autonomy, whose mission is to guarantee lion people decided to follow ICT studies in the European Union, the production and analysis of statistics in the field of education but women represented only 17.2% of such students. In 2019, out and science. The information related to the "Statistics for Educa- of 6679 ICT graduates in Portugal only about 21% were women. tion 201/2019" is related to children/students, teaching staff This reality deserves the attention of policy makers. At a time and non-teaching staff, in pre-school, primary and secondary edu- when the digital economy and the technology sector are rapidly cation and higher education. The data refers to Portugal (the main- expanding and with a growing number of hiring is expected, the land and the Autonomous Regions of the Azores and Madeira). reduced number of women in the technology sector may limit the Concerning the info about to graduates in Information and Commu- existence of qualified professionals in this area, spilling over into nication Technologies (ICT) higher education presented in the the growth and development of the sector itself.



Figure 1 – Graduates in Information and Communication Technology (ICT) higher education by gender

Source: DGEEC-Statistics for Education 2018/2019

To learn more about the Aveiro Labour Observatory: http://observatoriodoemprego.web.ua.pt/ To learn more about the Urban Innovative Actions: https://www.uia-initiative.eu/en/uia-cities/aveiro To learn more about the project: https://www.aveirotechcity.pt/pt/atividades/observatorio-do-emprego Would you like to receive more information? Register and receive the newsletters: observatoriodoemprego@ua.pt

Aveiro Labour Observatory observatoriodoemprego@ua.pt @observatoriodoemprego

Municipality of Aveiro www.cm-aveiro.pt







