

Digl-VET

Project Number: 2018-1-DE02-KA202-005145

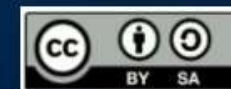
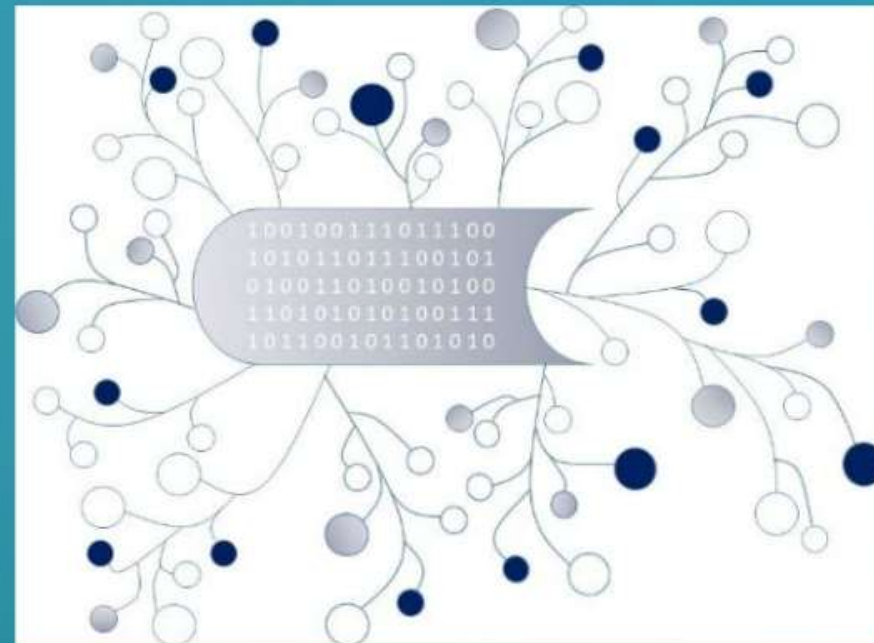
Digl-VET

FOSTERING DIGITISATION AND INDUSTRY 4.0 IN
VOCATIONAL EDUCATION AND TRAINING

Training Modules for the Learner

Module 3: General Aspects of Digitisation at
Industry

AR Vocational Education and Training Ltd., Gelija Tamulyte and Rajesh
Pathak, RiyaRaj



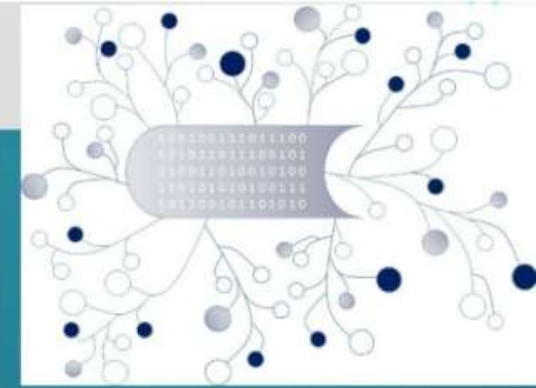
Co-funded by the
Erasmus+ Programme
of the European Union



Agenda of Module 3: Good practices of Digitisation

1. *Internet of Things*

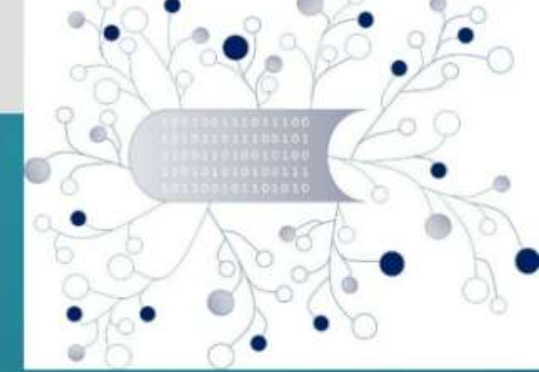
2. *Tasks*



Internet of Things

While considering the aspects of how digitisation affects the Industry, the concept of *Internet of Things* is essential. It is the connection between the Internet and the Device and the effect of this relationship towards other connected devices. E.g. self-driving cars, fitness devices measuring different aspects (e.g. heart rate, steps).

What do others say about the Internet of Things



“Industrial digitalisation has recently experienced an extreme acceleration. Whereas in the early years of Industry 4.0 or the Internet of Things (IoT), the emphasis was on "proof of concepts", today digitalization is being used extensively in supply chain and production to increase efficiency and quality and to enable completely new processes and services.”

...

ROI Management Consulting AG (2020): Retrieved from the Internet: <https://www.roi-international.com/management-consulting/competences/increased-efficiency-through-digitisation-industry-40/> Accessed on 26 June 2020. Access date: 15.07.2021

What do others say about the Internet of Things

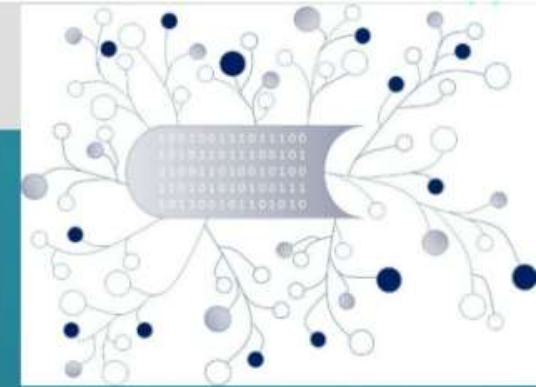
...
“Another important aspect of industrial digitization is the development of smart products and services to enable and monetize new applications. Through integrated connectivity, sensor technology and data processing capacities, smart products are able to perform tasks autonomously, coordinate centrally and decentrally via cloud platforms and adapt to changing environmental conditions and tasks. Smart products thus also form the basis for the development of smart services such as data-based business models, Smart City, Smart Agriculture or Smart Healthcare.”

ROI Management Consulting AG (2020): Retrieved from the Internet: <https://www.roi-international.com/management-consulting/competences/increased-efficiency-through-digitisation-industry-40/> Accessed on 26 June 2020. Access date: 15.07.2021

Tasks

1. How would you describe the Internet of Things?
2. How does it affect the Industry and daily casual encounters with technologies?
3. Where is mainly digitization being seen now?
4. What are the smart products and what is their impact on industry?

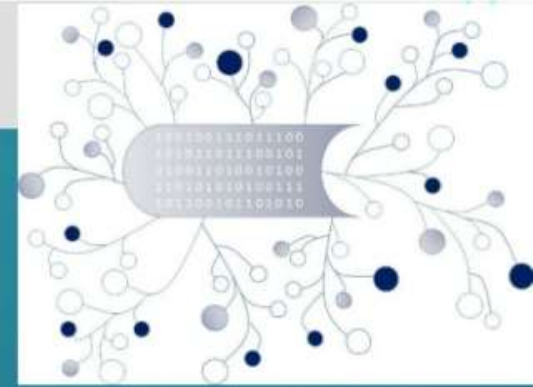
TASK



Tasks

1. The best definition of IoT is that it is a _____ that interconnects physical objects using _____ and can be dictated remotely.
2. Why do you think we need IoT?

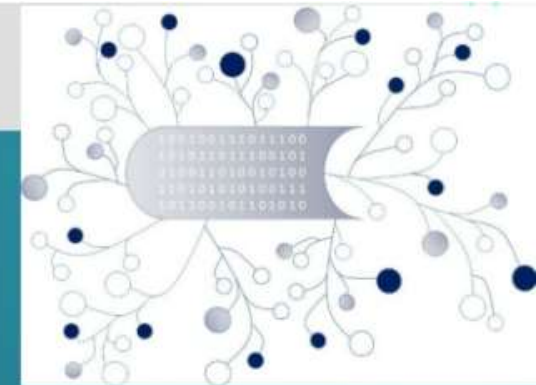
TASK



Tasks

1. Which wireless devices do you use in everyday life in U.K?
2. What are the risks and challenges you face in IoT?
3. What are the most common unauthorised IoT in business networks that increase the security burden for organisations?
Give some examples for U.K.

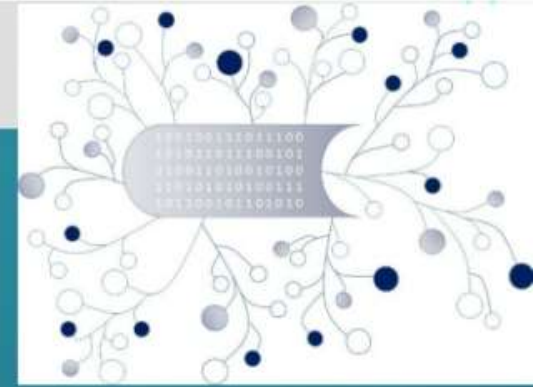
TASK



Tasks

1. How does the internet of things influence the development of smart cities in U.K?
 - a) How has IoT improved environmental conditions in U.K?
 - b) How does IoT impact the economy sector in U.K?
 - c) What is the future of IoT in U.K?

TASK



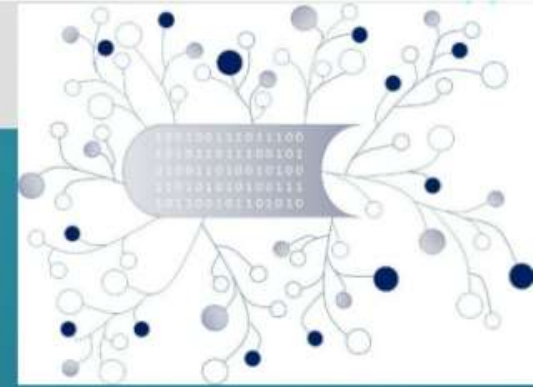
Tasks

1. What are the current trends you observe in the process of digitalization of education in U.K?

a) What are the advantages and disadvantages?

b) What measures can you suggest to speed up the digitalisation in U.K?

TASK

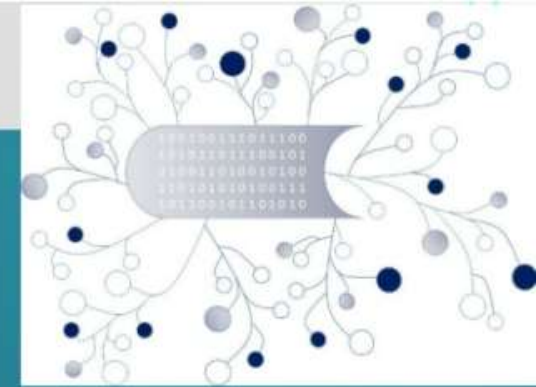


Tasks

1. In the image above (slide 3) there are 12 items mentioned under the concept of IOT
2. Pick one image (e.g. the laptop / computer) and share in details how this affects the education sector and your learning and development especially during COVID19 pandemic. Name any platforms you may have used during your class lessons.

<https://screen.cloud/blog/iot-applications-education>

TASK



Tasks

1. Is a smartphone considered an IoT device?

a) How a smartphone can be used in personal IoTs?

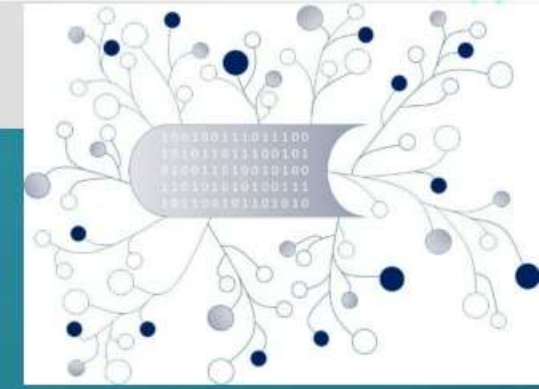
2. What are the three popular wearable devices in the U.K?

a) What are the pros and cons of wearable technology?

b) How wearable devices are benefitting healthcare system in the U.K?

TASK





Tasks

As mentioned, IoT is beneficial for business as it creates efficiency, increase competitiveness, develops new business models and provides solutions to problems. Out of these 4 benefits, place them from 1-4 according to their importance.

- 1.
- 2.
- 3.
- 4.

TASK

CONTACT

ARVET

279 Bethnal Green Road
London E2 6AH
United Kingdom

<http://elnpartner.co.uk>
<http://digivet.eduproject.eu/>

Rajesh S. Pathak

Tel: +44 792 791 1120
E-Mail: info@elnpartner.co.uk

Gelija Tamulyte

Tel: +44 754 099 3287
E-mail: gelija.tamulyte@gmail.com

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