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Challenge Title: Ensuring Data Protection in the IoT domain	
Use Case Author	Aura Tardia, RE:Lab
Topic	Manufacturing
Overview	Provide a 100-300 word introduction to the challenge. Ensure that this only introduces the challenge and does not spell out solutions. You are the DPO of IoTech SA, a medium-sized company based in Brussels. The company develops IoT solutions to provide customers with efficient and useful connected objects, while also designing smartphone apps to allow the users to control and monitor the objects. The product developers are working on a pair of smart shoes which will be able to monitor the location of the wearer, the heartbeat, and other types of data and meta- data, in order to assist the user in getting to their destination safely and efficiently, suggest routes, monitor performance, etc. The shoes will gather the data and communicate with the wearer through the smartphone app. Even when the app is not in use, the shoes keep collecting the data and sending it to the central server.
1. Engage	
Big idea	One word or sentence about the challenge. Privacy and IoT
Essential Question	The big capstone question summarising the challenge'. How can IoT solutions be designed to ensure privacy protection?
Initial resources	Any initial resources that students might use to contextualise the challenge – a video or small reading exercise for example. This should not run into the investigation stage. These initial resources can help you frame the challenge at hand: http://www.dataprotection.ro/servlet/ViewDocument?id=1088 https://techcrunch.com/2016/08/14/the-iot-threat-to-privacy/ https://www.forbes.com/sites/nikkibaird/2017/08/31/if-consumer-privacy-isnt- already-dead-iot-could-kill-it/#2e4704ba2cf8 http://www.businessinsider.com/internet-of-things-security-privacy-2016-8?IR=T
Guiding Questions	Undertake a 'situation room' or 'briefing room' exercise with the students. They are your team. Encourage them to brainstorm to de-

	velop a list of questions which break the challenge down into its constituent elements and manageable sections. And to put these in an order. The product developers are starting to work on the design of the smart shoes, and the project manager comes to you, as the company's DPO, to ask your advice and support on the topic. He knows that the new Privacy Regulation entails some changes, but he is not sure about what to do exactly in order to be compliant. Use this space to show how you will do this. And Leave space for the students to complete the questions. This box should be completed as a team by the students What questions should you ask the project manager to start to frame the task? Brainstorm a list of questions you should ask in order to get a clearer picture of the activity and of the role you could play. Draft a complete list of questions and put them in an order, prioritizing the ones you believe are more important.
Reflections	Once the students have done this. Encourage them to reflect on how well this exercise worked. How well do the questions reflect the challenge? How could a similar situation be tackled more effectively in the future? Use this space to record individual reflections on the process. Reflect on the Guiding Questions process and results: 1. How did you feel about the initial brainstorming exercise? 2. Were you happy with the list of questions you put together? Why/why not?
Other notes	
2. Investigate	
Activity Description	Encourage students to map out a process of investigation for answering the questions above. Now that you have identified the information you need from the project manager, you should collect the resources that can help you develop a good solution. The Investigation phase should lead you to the answers to your Guiding Questions.
Resources	List any reading, web or video resources here that you think would be good to 'get the students going'. The principles of Privacy by Design: https://edps.europa.eu/sites/edp/files/publication/10-10-27_jerusalem_

	resolutionon_privacybydesign_en.pdf Practical approaches in the IoT domain: https://reader.elsevier.com/reader/sd/D5781B4CBC6BE33A9F678A1F8AA9BB12797C D3071EF8BFF4EAF4925A2EE9997C9C9A9375E664C3BBA7DCFCB48DB1BAD8 Encourage students to collect and use resources to help them to address the question. Try and gather more resources that can help you address the challenge more effectively.
Synthesis	Establish a task – eg. A presentation, report, essay, video, briefing etc that students should produce to synthesise their answer to the questions. Develop a presentation illustrating your Recommendations and Guidlines for the Product Development team to follow for the development of the smart shoes. This should allow them to understand how to concretely implement the principles and requirements of the GDPR. Try to focus on what data protection/privacy functions, sections, or specific elements the final object (and relate App) should (or should not) contain. Include them in your presentation. --- Encourage students to summarise their answer.
Reflections	Students to provide a reflection on the process. Reflect on the Investigation phase: 1. What are the key problems to be overcome in this challenge? 2. How did you organize the work for the presentation? 3. How did you collect additional information and resources? How successful was the investigation process? How would you organize the work differently if you did it again?
Other notes	
3. Act	
Solution Prototypes	Provide the students with a format for presenting their solutions to the problem. This might be a report template, a real world simulated scenario – e.g. a briefing to a client or senior managers in an organisation. Develop a project proposal, including control points, tentative timing and expected results, that the product developers should follow throughout the design of the new smart shoes.

Solution	Students to provide a solution or options for different solutions in the format suggested above.
Implementation plan	Students also to provide a plan for how at least one of the solutions should be delivered. Develop a plan for the implementation of the project. How will you monitor the progresses? What indicators will you evaluate? How will you cooperate with the product developers?
Evaluate	Students to develop a journal entry to evaluate the different solutions, and how they might go about the exercise differently in future. Students might also be asked how the exercise itself could be further developed as a pedagogical process. Develop a journal entry evaluating the solution you identified: 1. What are the key challenges that your colleagues may encounter in implementing the project? 2. What were the strengths and weaknesses of your overall approach? 3. What changes would you make to your solution? What did you learn from this process?
Other notes	
4. Reflection and documentation	
Case notes	