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Challenge Title: Automation and Connectivity	
Use Case Author	Roberto Montanari, Elisa Landini, Aura Tardia, RE:Lab
Topic	Technical Area: Privacy in the Internet of things
Overview	Car manufacturers are addressing research and innovation efforts towards the development of safe and efficient autonomous vehicles. Although not fully mature, the technology for such vehicles exists already. One of the main features on board such vehicles is connectivity. Connectivity ensures that the car is not only collecting data on the passengers, the environment, the infrastructure, the other vehicles (using e.g. different types of sensors), but it is also able to share this information within the network in real time in order to provide better service. Although state-of-the-art measures are employed to ensure security of the data and of the car itself, the possibility remains for hackers to violate the system and data breaches to occur.
1. Engage	
Big idea	Privacy vs. hindering innovation
Essential Question	How to protect privacy without hindering innovation?
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. https://www.youtube.com/watch?v=MK0SrxBC1xs https://newsroom.intel.com/editorials/krzanich-the-future-of-automated- driving/
Guiding Questions	Undertake a 'situation room' or 'briefing room' exercise with the students. They are your team. Encourage them to brainstorm to develop a list of questions which break the challenge down into its constituent elements and manageable sections. And to put these in an order. The AutoMove Company, a car manufacturer based in Bologna, is leading research in the field of autonomous cars. You are their newly appointed DPO, and the Chief Innovation and Product Officer informs you they will soon come to the market with an autonomous vehicle which will also monitor the state of the driver and of the other passengers: are they awake, focused, distracted, tired, angry,

<table>
<tr><td></td><td>stressed? The CIPO explains that automation needs these data in order to establish when to sub in for the driver, when it is a good time to hand- over control, or when to provide the driver with any type of information to avoid distraction.

You are asked to analyse the product from a Data Protection perspective and ensure that the company is compliant with the GDPR.

• What other questions would you ask the CIPO to get a clearer picture of the functioning of the product?
• What other employees in AutoMove would you need to speak to?
• What features would you suggest adding to the car, that product developers might not have considered so far? (e.g. consent requests, privacy notices, privacy settings)

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.
!</td></tr>
<tr><td>Reflections</td><td>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 challenge and on your Guiding Questions. Try to put them in an order.
1. Are you happy with the list of questions you identified? Why/why not?
2. What are the interesting/challenging elements in this scenario?</td></tr>
<tr><td>Other notes</td><td>!</td></tr>
<tr><td colspan="2">2. Investigate</td></tr>
<tr><td>Activity Description</td><td>Encourage students to map out a process of investigation for answering the questions above.
Map out a process for supporting the CIPO in the definition of essential requirements.</td></tr>
<tr><td>Resources</td><td>List any reading, web or video resources here that you think would be good to ‘get the students going’.
The “Compliance Pack” drafted by the French CNIL (Commission</td></tr>
</table>

	Nationale Informatique et Libertés) can provide the initial context on the topic of GDPR and Connected/Autonomous vehicles: https://www.cnil.fr/sites/default/files/atoms/files/cnil_pack_vehicules_connec tes_gb.pdf ---- Encourage students to collect and use resources to help them to address the question. Try to collect additional resources that can help you frame and understand the specific challenge.
Synthesis	Establish a task – e.g. A presentation, report, essay, video, briefing etc that students should produce to synthesise their answer to the questions. Make a Power Point Presentation summarizing your guiding questions and the investigation process you followed to answer them. This will help you identify retrospectively whether you are satisfied with the investigation phase or wish you had acted differently. The Power Point should also describe the recommendations and suggestions for the development of a data protection and privacy-oriented autonomous car. What security measures should be implemented? What technical measures would you deem adequate for the protection of data and privacy? --- Encourage students to summarise their answer.
Reflections	Students to provide a reflection on the process. 1. How did you organize your Investigation activity? 2. What resources were most useful, and how did you collect them? 3. How successful was the Investigation process? What would you change if you could repeat the process?
Other notes	
3. Act	
Solution Prototypes	You should prepare for holding a meeting with the colleagues at AutoMove who handled the development of the autonomous car. You should draft a report for them to understand your recommendations. You can experiment different formats and determine which one is the most effective in conveying the message. You could also brief your colleagues in speaking, and then use the minutes ofvthe meeting as a supporting document.

Solution	Students to provide a solution or options for different solutions in the format suggested above. Report here the solution which is, in your opinion, the most effective.
Implementation plan	Students also to provide a plan for how at least one of the solutions should be delivered. Please develop a plan for the implementation of the solution you identified.
Evaluate	1. 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. 2. Evaluate the results and your approach to the challenge: 3. What are the key critical elements for privacy and data protection when developing an autonomous/connected vehicle? 4. Among the recommendations you provided to your colleagues, which ones are the most important? 5. Are you satisfied with the process and approach you followed throughout the challenge? Why/why not? 6. What did you learn from this process?
Other notes	
4. Reflection and documentation	
Case notes	