**Peer responses in collaborative discussion no. 1**

**Peer response no. 1**

Hi <STUDENT\_NAME>,

Thank you for your focused answers and for sharing the related insightful paper of Ivanov et al. (2018).

How can 5G connectivity and machine learning also ‘improve citizen quality of life’? Could you provide an example of this application?

Regarding the risk associated with automating manual jobs: do you think the Industry 4.0 has created the same (or similar) number of new jobs as those it has removed? If not, when will we reach breakeven on this?

Best wishes,

Marianne

**Peer response no. 2**

Hi <STUDENT\_NAME>,

Thank you for your detailed post and for sharing the insightful paper of Liu et al. (2020) that considers the opportunities of the ‘Industry 4.0’.

In the example of automation of fast-food restaurants with robots that you provided, do you think we have technologies that are adequate enough to manage the entire supply chain required to drive that automation model? If not, what else do we need to do so and when do you think this may happen?

Regarding the opportunities with automating manual jobs and supporting some jobs to reduce accidents: do you think the Industry 4.0 has created the same (or similar) number of new jobs as those it has removed? If not, when will we reach breakeven on this? Moreover, considering self-driving cars and, in future, self-driving trucks at scale, what else (whether a new process and/or a new technology) do we need to avoid accidents caused by misclassifications due to fallible AI-based systems?

Best wishes,

Marianne