Review of: "Artificial intelligence in the service of health and safety at work: Perspectives and challenges from now to 2035 - A prospective study"

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Potential competing interests: No potential competing interests to declare.

Overall comments:The article explores the implications of AI for occupational safety and health (OSH). It addresses technological, ethical, legal, and organizational aspects. The use of foresight studies, morphological analysis, and scenario-building is commendable. This approach allows for a better understanding of potential scenarios in AI and OSH. Concentrating on AI's application in OSH seems relevant, given the rapid advancement of AI in the workplace. The inclusion of diverse expertise (AI specialists, OSH experts, historians, sociologists, etc.) enriches the analysis.

Spectific comments:The four scenarios (Digital Giants Dominate, State-Guaranteed Framework, Democratic Development, and AI Winter) provide a broad spectrum of possible futures. The detailed exploration of AI in epidemiology, accidentology, working environment security, and advanced robotics offers concrete examples of AI's potential impact in OSH. The 22 key messages provide somewhat actionable insights; however, they might benefit from further summarization or prioritization for clearer takeaways.

Specific recomendations: Some sections are dense and may benefit from simplification or summarizing for a broader audience. While the article focuses on the French and EU contexts, incorporating more global perspectives (at least the potential implications for the developing countries) could enhance its relevance for the worldwide community, especially given AI's international impact. More emphasis on the latest advancements in AI, especially in areas like deep learning, natural language processing, and robotics, could provide a more current view of the technology's capabilities. Suggestions for future research would be valuable. More focus on how organizations can practically implement the insights from this research would be beneficial.