



# HEALTHY WORKPLACES SUMMIT 2025

## Safe and healthy work in the digital age

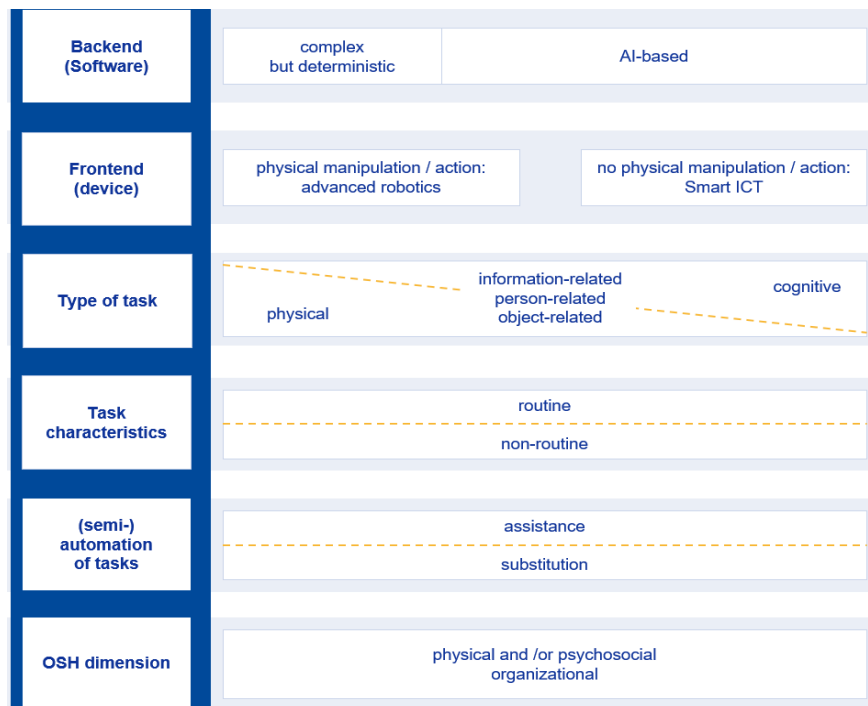
### Automation of tasks – OSH impacts of advanced robotics

Sascha Wischniewski, Federal Institute for Occupational Safety and Health (BAuA), Germany



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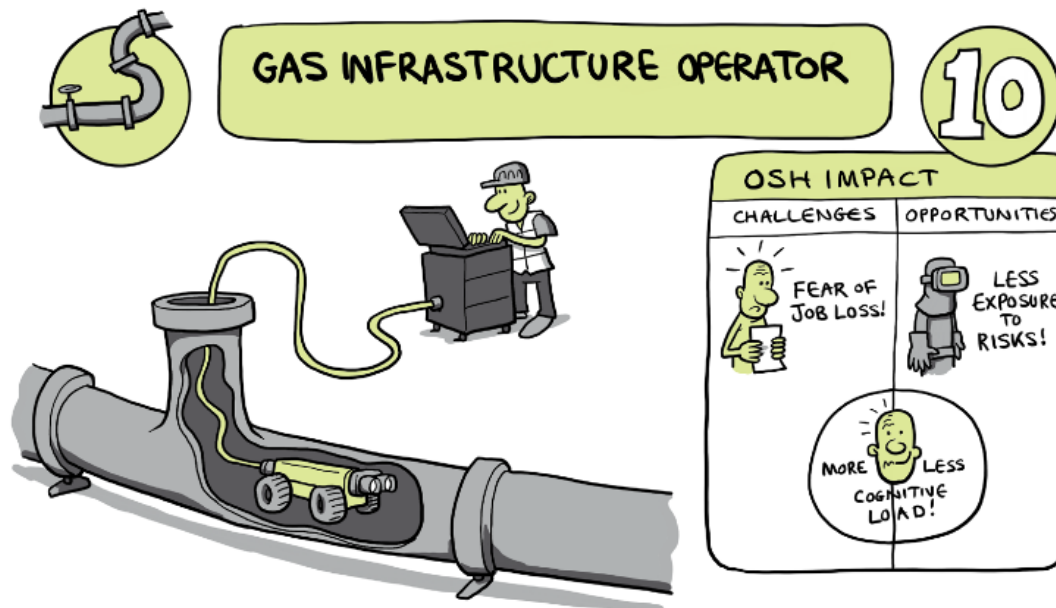
## ■ Task Taxonomy



Source: [https://osha.europa.eu/sites/default/files/2022-04/Advanced%20robotics\\_AI\\_based%20systems.pdf](https://osha.europa.eu/sites/default/files/2022-04/Advanced%20robotics_AI_based%20systems.pdf)

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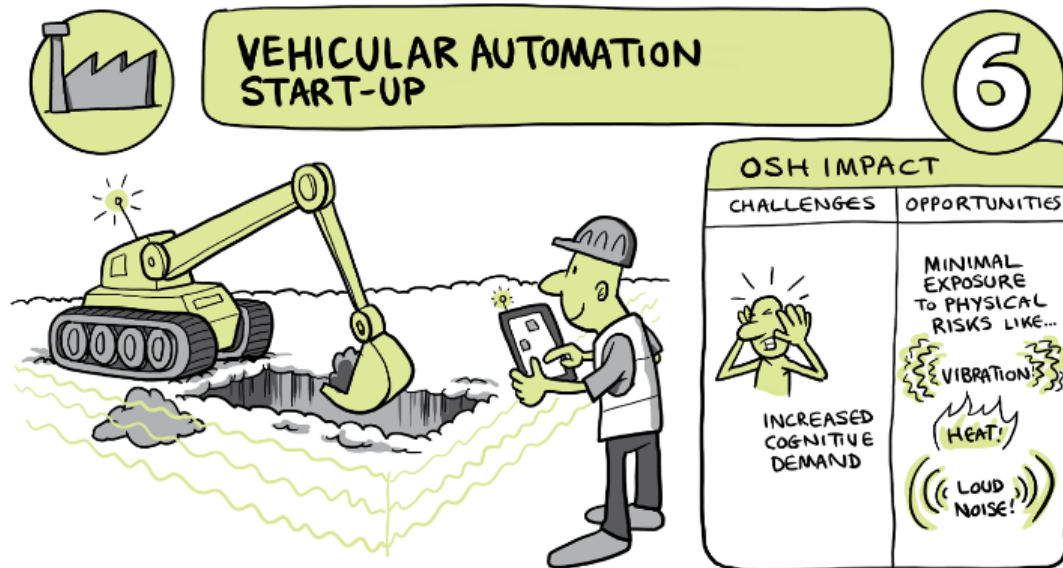
## OSH Impacts



Source: <https://osha.europa.eu/en/publications/advanced-robotic-systems-inspection-and-maintenance-gas-and-oil-infrastructure-id10>

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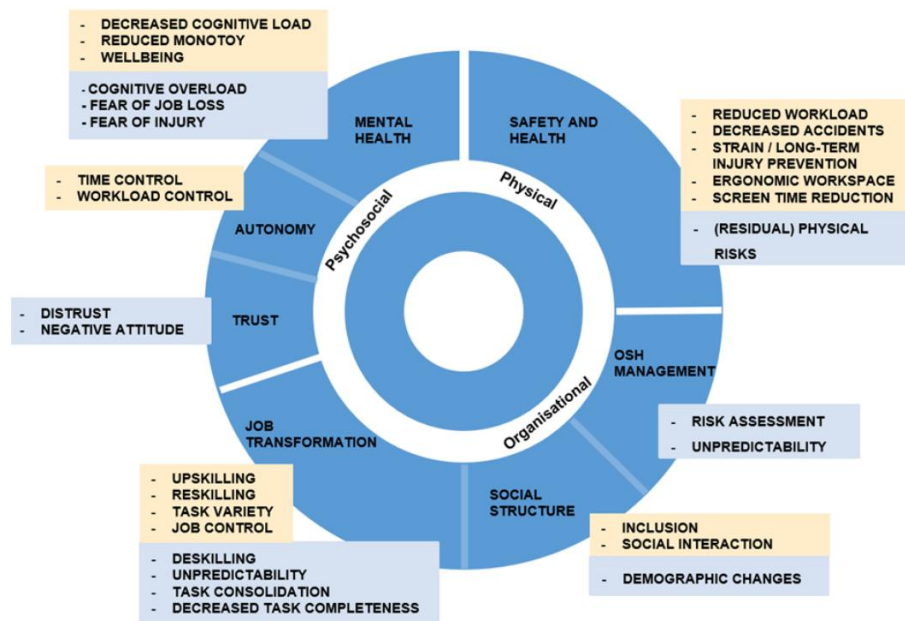
## OSH Impacts



Source: <https://osha.europa.eu/en/publications/artificial-intelligence-based-vehicular-automation-fitted-excavators-automate-trenching-id6>

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## Impacts of AI-based systems and advanced robotics on OSH from the case studies



Source: <https://healthy-workplaces.osha.europa.eu/en/publications/summary-advanced-robotic-automation-comparative-case-study-report>

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## ▪ Lessons learned on what to consider

- Early involvement of employees and provision of training
- Establishing clear and direct communication during the change process
- Consistent application of interaction design principles in system development
- Consideration of health and safety aspects from the beginning

Source: <https://healthy-workplaces.osha.europa.eu/en/publications/summary-advanced-robotic-automation-comparative-case-study-report>

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## Where do we stand / whats coming next in robotics?

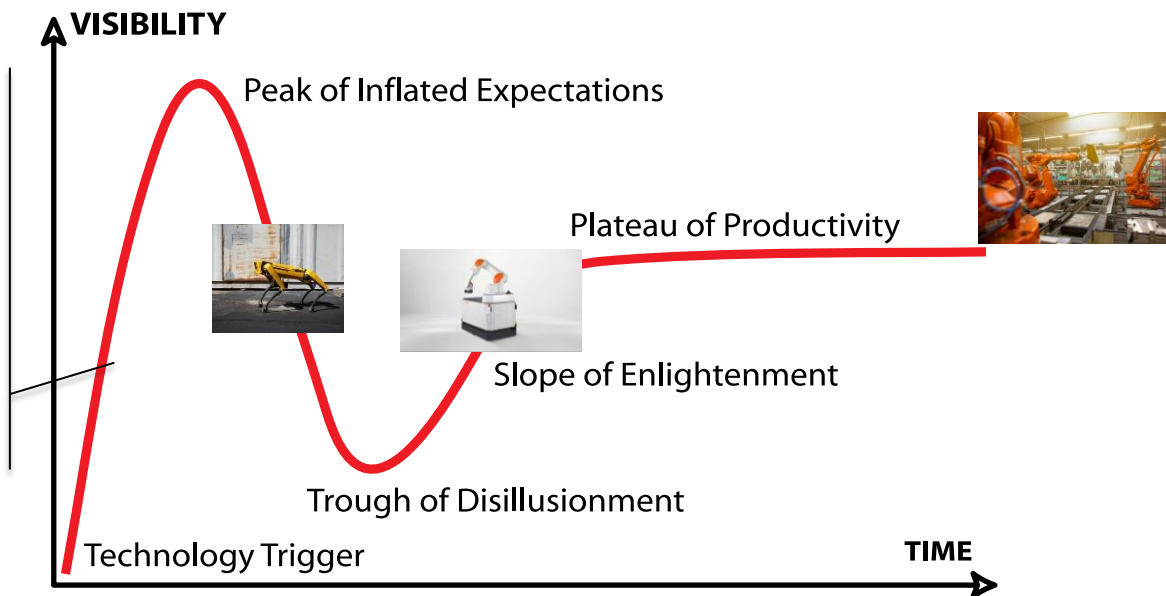
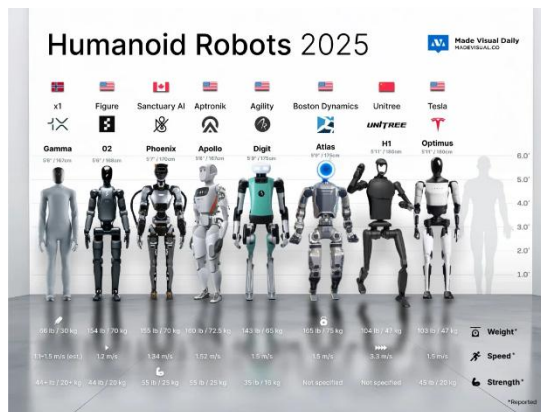


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# Automation of tasks – OSH impacts of advanced robotics

## ▪ Contact

Dr. Sascha Wischniewski  
Head of Unit Human Factors, Ergonomics  
Federal Institute for Occupational Safety and Health (BAuA), Germany

[wischniewski.sascha@baua.bund.de](mailto:wischniewski.sascha@baua.bund.de)

[www.baua.bund.de/en](http://www.baua.bund.de/en)