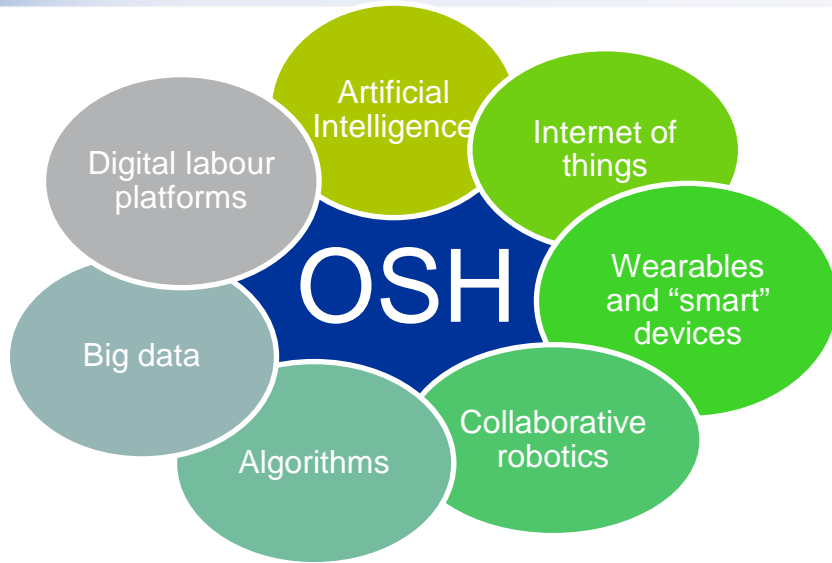




Safe and healthy work in the digital age: the Healthy Workplaces Campaign 2023-25

Maurizio Curtarelli – Senior Research Project Manager – Prevention and Research Unit – EU-OSHA
Presentation at the SAF€RA Symposium 2025 – Rome, INAIL – 11-13 March 2025

What is it about?



- Digital technologies are rapidly changing how, where and when we work
- For workers and employers in all sectors, digital technology offers increased opportunities but also presents challenges and risks in terms of safety and health



Psychosocial risks and digital technologies

EU-OSHA, OSH Pulse 2022

Would you say that the use of digital technologies in your workplace... ? (EU27, % of workers)

Determines the speed or pace of your work 52%

Results in you working alone 44%

Increase surveillance of you at work 37%

Increase your workload 33%

Reduce your autonomy at work 19%

❖ All psychosocial risk factors
❖ All work organisational problems

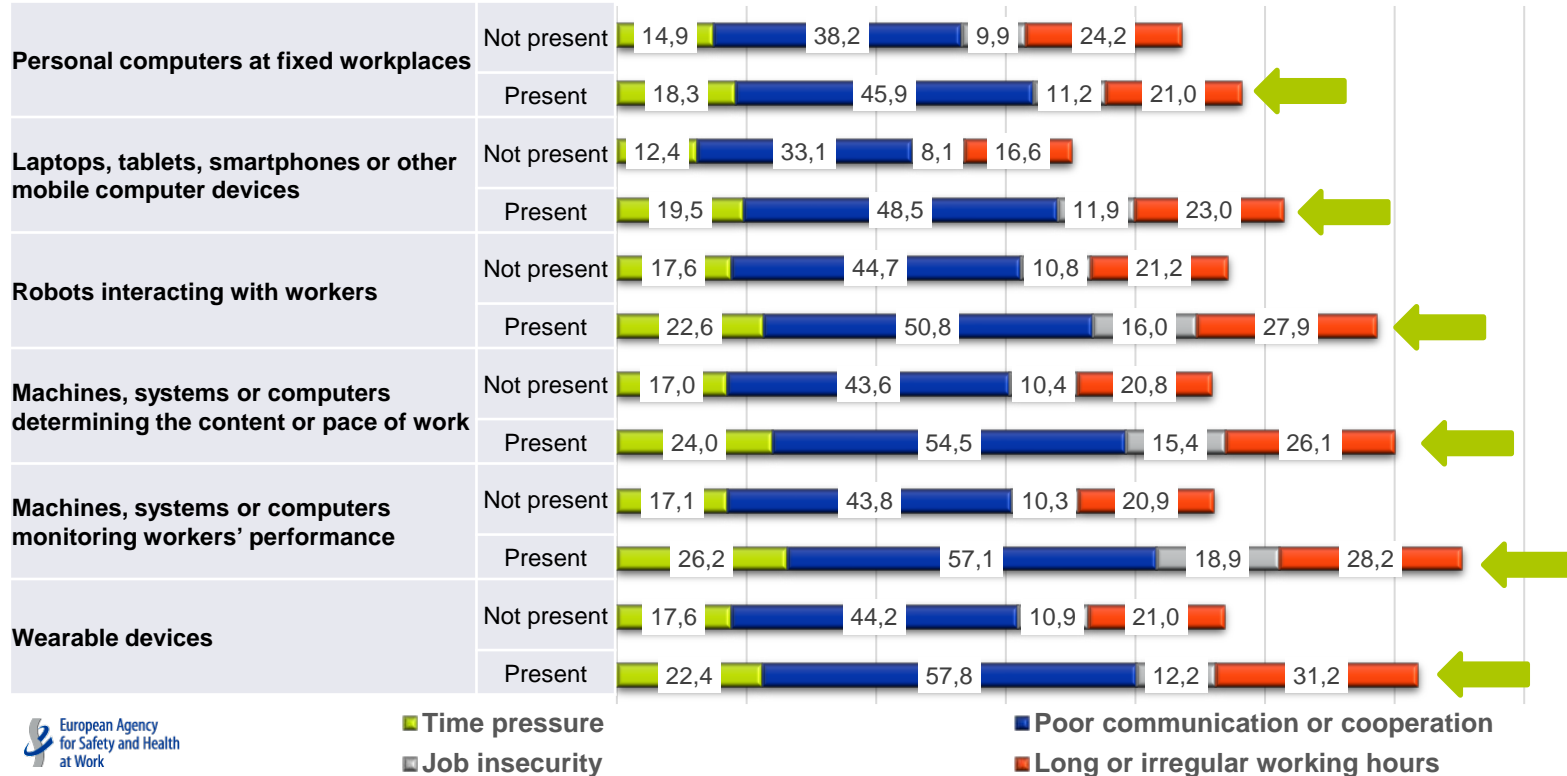
Base: all respondents, EU27 (n=25 683)

Psychosocial risks and digital technologies (workplaces)

Where technology is present, it is more probable that psychosocial risks are mentioned

EU-OSHA, ESENER 2019

Workplaces reporting psychosocial risks by presence of digital technology, EU27

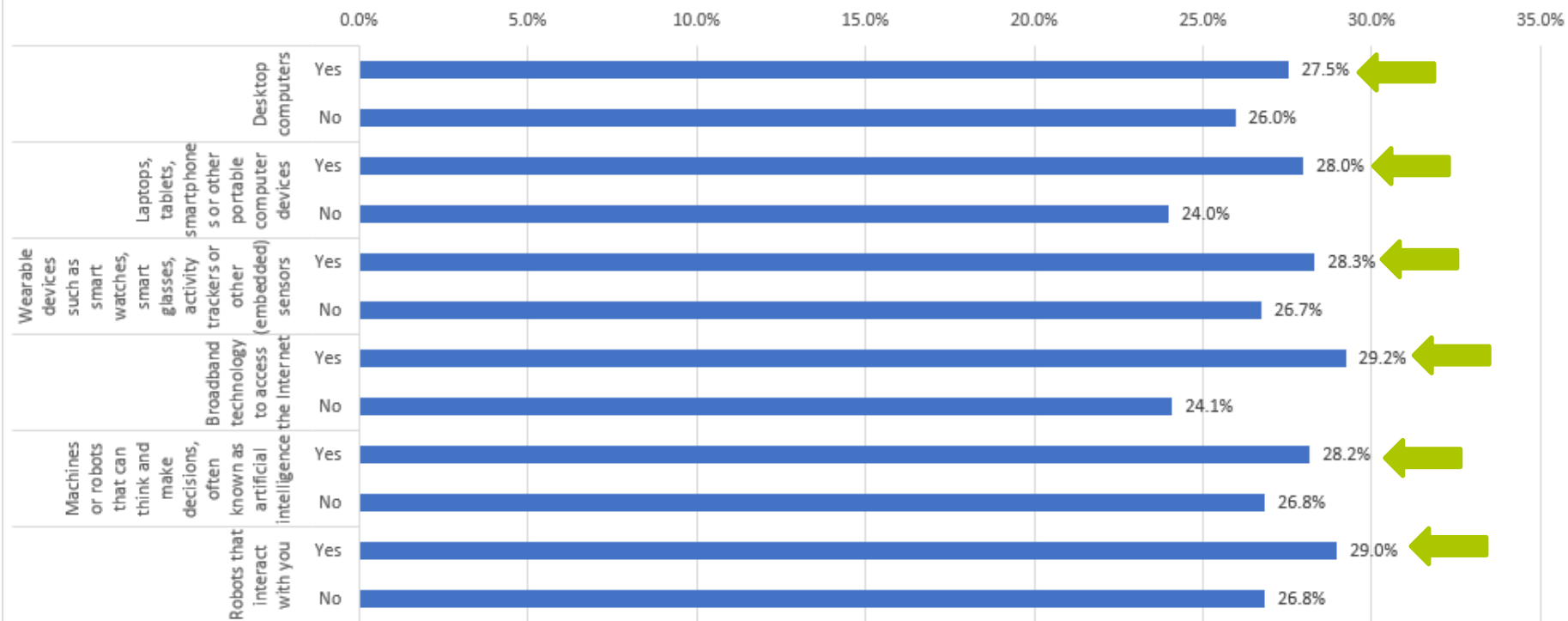


Stress, depression and anxiety and use of digital technologies

When technology is used, it is more probable that stress etc. are mentioned

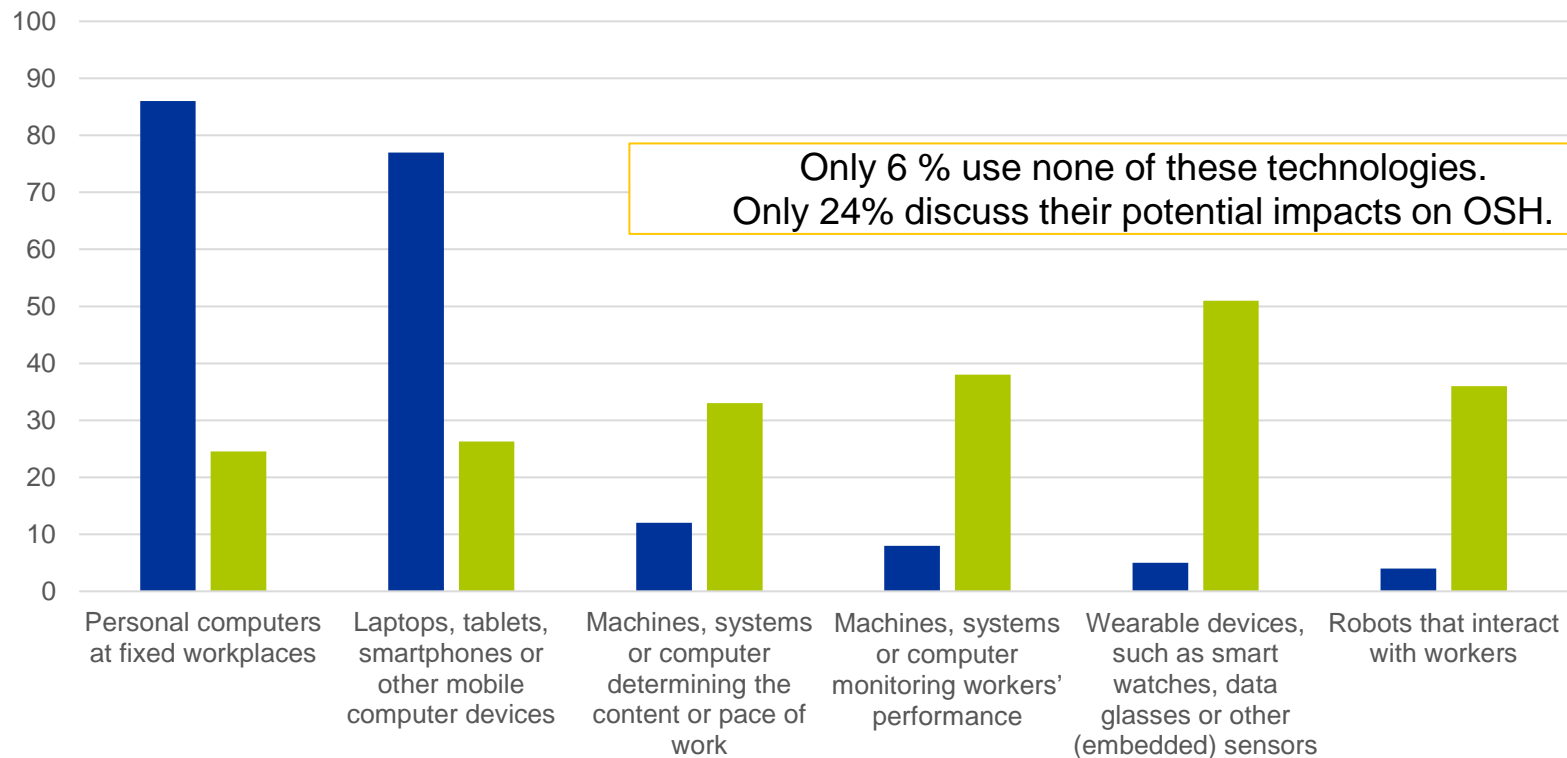
EU-OSHA, OSH-pulse 2022

Stress, depression or anxiety



Establishments (%): Using digital technologies

Discussing their impacts on OSH



Base: all establishments in the EU27_2020.

■ Use ■ Discussing potential impacts

Healthy Workplaces Campaign (HWC) 2023-25

Objectives

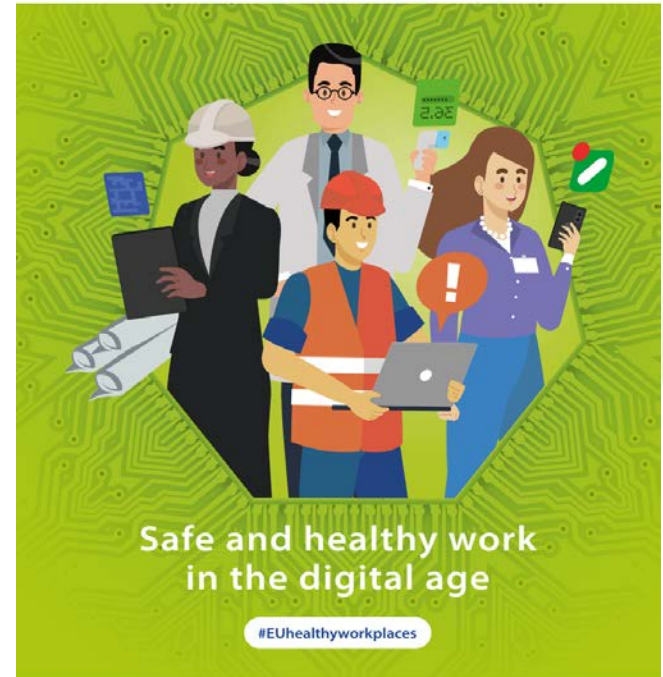
- The campaign aims to:
 - Increase knowledge about the safe and productive use of digital technologies across all sectors
 - Raise awareness of digitalisation and its OSH implications
 - Inform about emerging risks and opportunities
 - Promote risk assessment and the healthy and safe management of digital transformation of work
 - Facilitate the exchange of information and good practices

The campaign relies on research carried out by EU-OSHA and disseminates its findings

Safety and health at work is everyone's concern. It's good for you. It's good for business.

Healthy Workplaces
Campaign 2023-2025

www.healthy-workplaces.eu



EU-OSHA and campaign partners



Healthy Workplaces Campaign (HWC) 2023-25



Digital platform work
(Feb. - May 2024)



Automation of tasks
(June - Sept. 2024)



Remote and hybrid work
(Oct. 2024 – Jan. 2025)



AI for worker management
(Feb. – May 2025)



Smart digital systems
(June – Oct. 2025)

Priority areas – Digital platform work

DEFINITION

An online facility or marketplace operating on digital technologies (including the use of mobile apps) that are owned and/or operated by an undertaking, facilitating the matching between the demand for and supply of labour provided by a platform worker.

The OSH risks that platform workers face in relation to the tasks they carry out are similar outside the platform economy.

HOWEVER:

- Digital platform work frequently involves jobs typically in occupations and sectors that are at high risk and associated with poorer working conditions.
- AND some specific factors associated with the digital platform economy result in additional OSH risks and complicate OSH prevention and management



RISKS AND CHALLENGES

- Employment status and limited application of OSH regulations
- Shifting of OSH responsibilities onto workers
- Use of algorithmic management and digital surveillance
- Professional isolation, lack of social support
- Long working hours and a poor work-life balance
- Job and income insecurity

OPPORTUNITIES

- Worker autonomy
- Flexible working hours allowing to better balance work and life
- Improved access to the labour market for disadvantaged workers

Priority areas – Automation of TASKS through AI & advanced robotics

DEFINITION

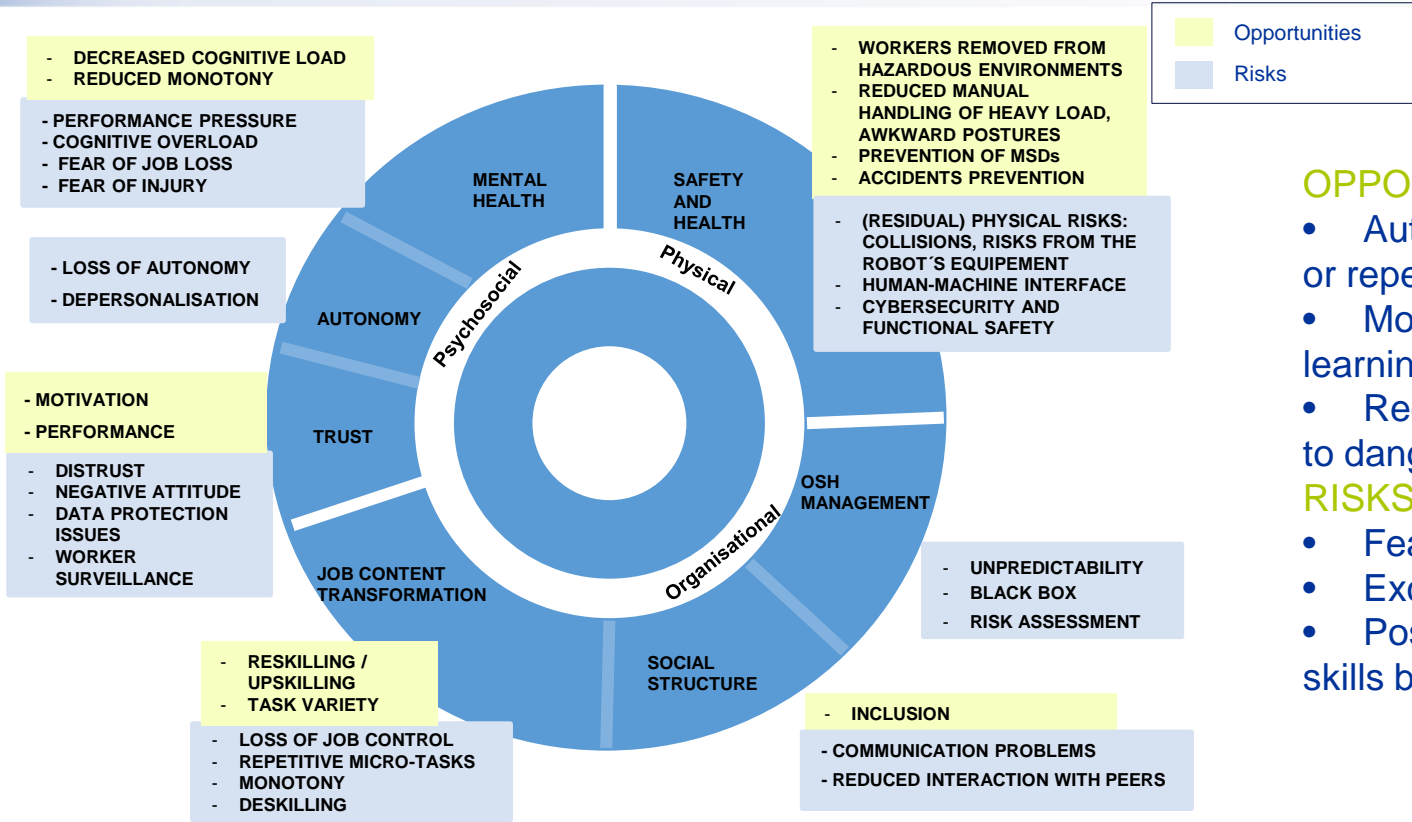
Use of smart robots or systems to execute (partially or fully) a function that was previously, or conceivably could be, carried out (partially or fully) by a human.



- **Over 30% of jobs are likely to change as individual tasks are automated (OECD)**
- **Robots are becoming mobile, intelligent and collaborative: cobots**
- **Intelligent systems are also taking over a range of not just manual but also cognitive tasks previously done by humans**
- **In many different sectors and settings**

OSH risks and opportunities of AI-based automation of tasks

EU-OSHA's OiRA tool
(Online Interactive Risk Assessment tool)
for Automation
available

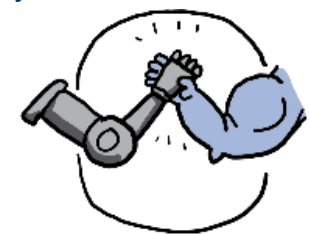


OPPORTUNITIES

- Automation of high-risk or repetitive tasks
- More time for worker learning/creativity
- Reduction of exposure to dangerous environments

RISKS

- Fear of job loss
- Excessive dependence
- Possible loss of specific skills by workers



Priority areas – Remote and hybrid work

DEFINITION

Remote work is any type of work involving the use of digital technologies (e.g. personal computers, smartphones, laptops, tablets, etc.) to work away from the employer's premises.

Telework is a common way to define home-based remote work.

The combination of telework with work at the employer's premises is also referred to as *hybrid work*.



Remote work must be included in the employer's mandatory risk assessment.

75% of EU workplaces carry out risk assessment on regular basis but only 31% of those allowing telework cover also homes (ESENER-2019)

There are tools for the prevention of risks related to telework/hybrid work for workers and employers.

EU-OSHA's OiRA tool
(Online Interactive Risk
Assessment tool)
for Telework available

Priority areas – Remote and hybrid work

OPPORTUNITIES

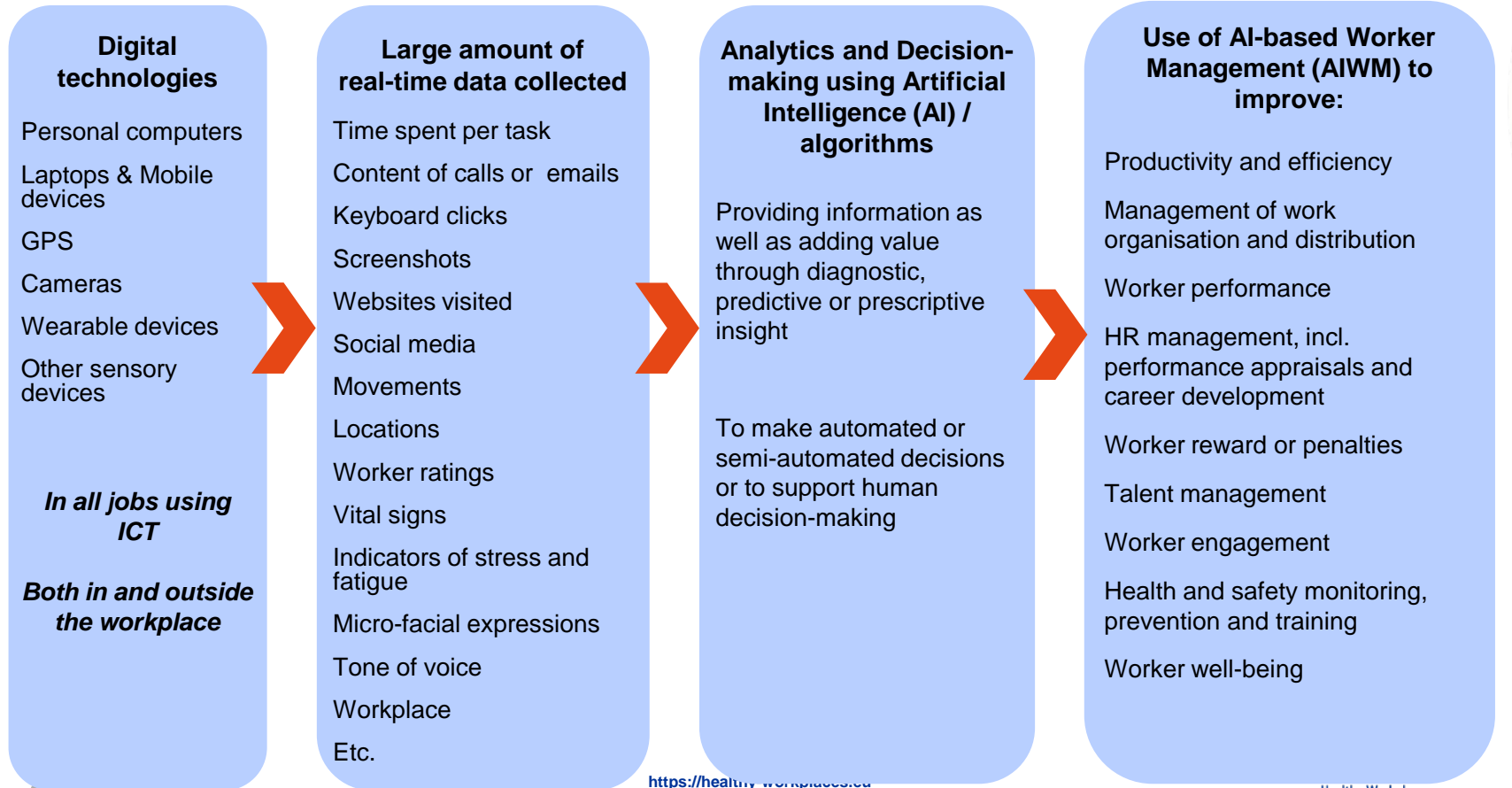
- Increased autonomy and flexibility
- Better work-life balance
- Improved motivation and productivity
- Reduced commuting time
- Safety from high-risk environments

RISKS AND CHALLENGES

- Isolation and lone working
- Work intensification, information overload
- Long/irregular working hours, constant availability
- Working while feeling unwell
- Conflicts between private and working life
- Poor ergonomics of equipment and workstation
- Communication between hybrid team members and management, partly at the employer's premises and partly remote, with frequent changes
- Transferring the risks of telework/virtual work into the employer's premises



Priority areas – Worker management through AI



Priority areas – Worker management through AI

RISKS AND CHALLENGES

- Reduced worker autonomy and job control
- Increased performance pressure
- Increased work intensity
- Reduced relationships with peers/managers
- Lack of transparency
- Information imbalance
- Privacy issues

OPPORTUNITIES

- Improved scheduling and task allocation
- Optimised work organisation
- Information to identify OSH issues



“It is essential to build trust in these systems by informing, consulting and allowing workers to participate in their design and implementation.”

Priority areas – Smart digital systems

Digital systems for monitoring and improving worker safety and health.

Examples:

- *Smart personal protective equipment (PPE)* (detecting levels of gas, toxins, noise pollution, and high-risk temperatures).
- *Wearable devices* (able to interact with workers, with sensors that can be integrated into protective helmets or safety glasses).
- *Mobile or static systems using cameras and sensors* (e.g., drones that effectively reach and monitor hazardous areas of construction sites, preventing people from being put at risk in the mining and construction industries).



«These new systems utilize digital technologies to acquire and analyze data or signals in order to identify and assess occupational safety and health (OSH) risks, thus preventing and/or minimizing damage and promoting OSH».

Priority areas – Smart digital systems

OPPORTUNITIES

- Monitor (real-time) risks, support risk assessment, help prevent and minimise harm to workers
- Digital counselling for workers
- Informed decision-making
- Input to design OSH trainings
- Support targeted OSH inspections

RISKS AND CHALLENGES

- Data inaccuracies or misinterpretation
- Overreliance on technology
- Risk of “delegating” the workplace risk assessment to technology
- Use of data for different purpose/surveillance
- Overwhelming (OSH) managers with data



Key messages for risk prevention

- **Human-centred approach**
 - Workers and managers should remain in command
 - Technology and AI to support but not replace human control and decisions
 - Preserve workers' job control and autonomy
- **Transparency about the way digital tools and digital processes operate**
- **Equal access to information of all stakeholders**
- **Worker consultation/participation in the development, implementation and use of digital technologies and systems**
- **Holistic approach to evaluating digital technologies and systems**
 - Raise OSH awareness of all actors: policy-makers, developers, workplace level
 - Specific attention to impacts on workers' mental health
 - Prevention through design
- **Proper consideration of digital technologies in the workplace Risk Assessment**
 - The workplace Risk Assessment should not be "delegated" to technology

Campaign resources



[Publications](#)



[Campaign materials](#)



[Campaign toolkit](#)



[Social media kit](#)



[Napo films](#)



[OSHwiki](#)



[Case studies](#)



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[Infographics](#)

How to get involved



European Week



Campaign partnership



Good Practice Awards



Campaign toolkit



Campaign materials



Social media kit



Events



Certificate of participation

Join us beyond the bits and bytes!

➤ All publications at: <https://osha.europa.eu/en/themes/digitalisation-work>

➤ Find out more on the campaign website:
www.healthy-workplaces.eu

➤ Subscribe to our campaign newsletter:
<https://healthy-workplaces.osha.europa.eu/en/media-centre/newsletter>

➤ Keep up to date with activities and events through social media:



#EUhealthyworkplaces

➤ Find out about events in your country from your national focal point:
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