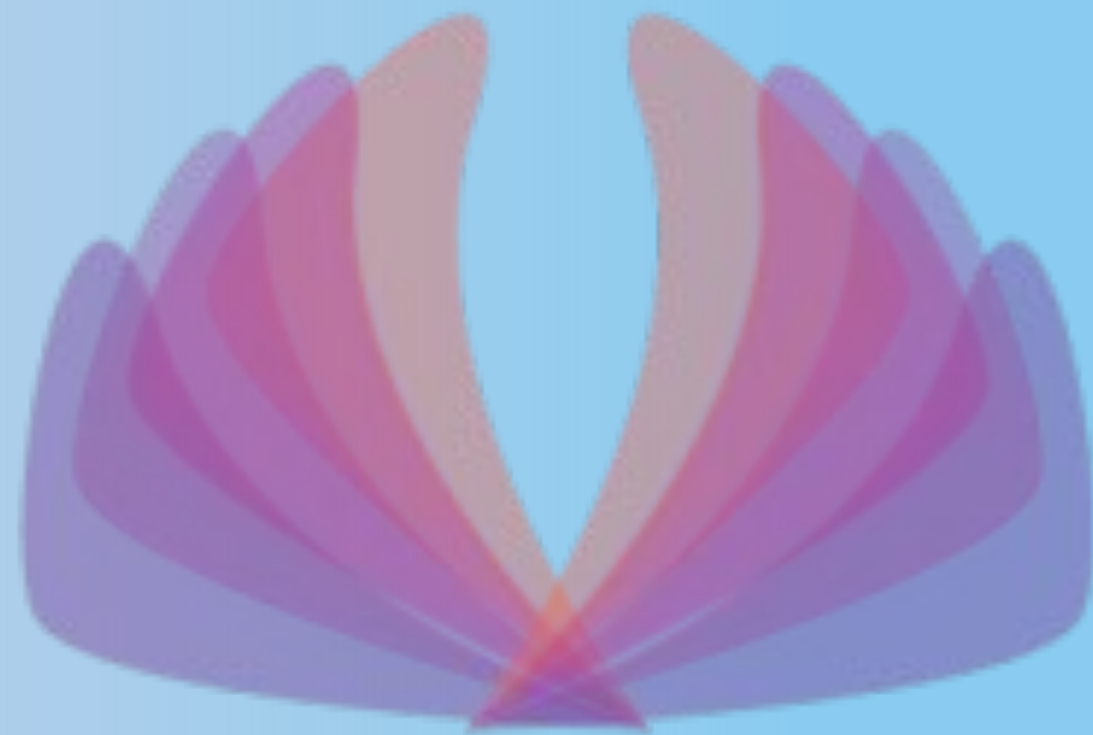


AI AND ROBOTICS AT WORK: PRIORITIZING WORKER WELL-BEING WHILE UNLOCKING THE BENEFITS OF AUTOMATION

Shalaleh Rismani
Executive Director
Open Roboethics Institute

www.openroboethics.org





WHO IS OPEN ROBOETHICS INSTITUTE (ORI)?



CANADIAN ROBOTICS COUNCIL
CONSEIL CANADIEN DE LA ROBOTIQUE



Promise Robotics

A&K ROBOTICS



CANADIAN
MANUFACTURERS
& EXPORTERS

OTTO
MOTORS

NGen

Next Generation
Manufacturing Canada

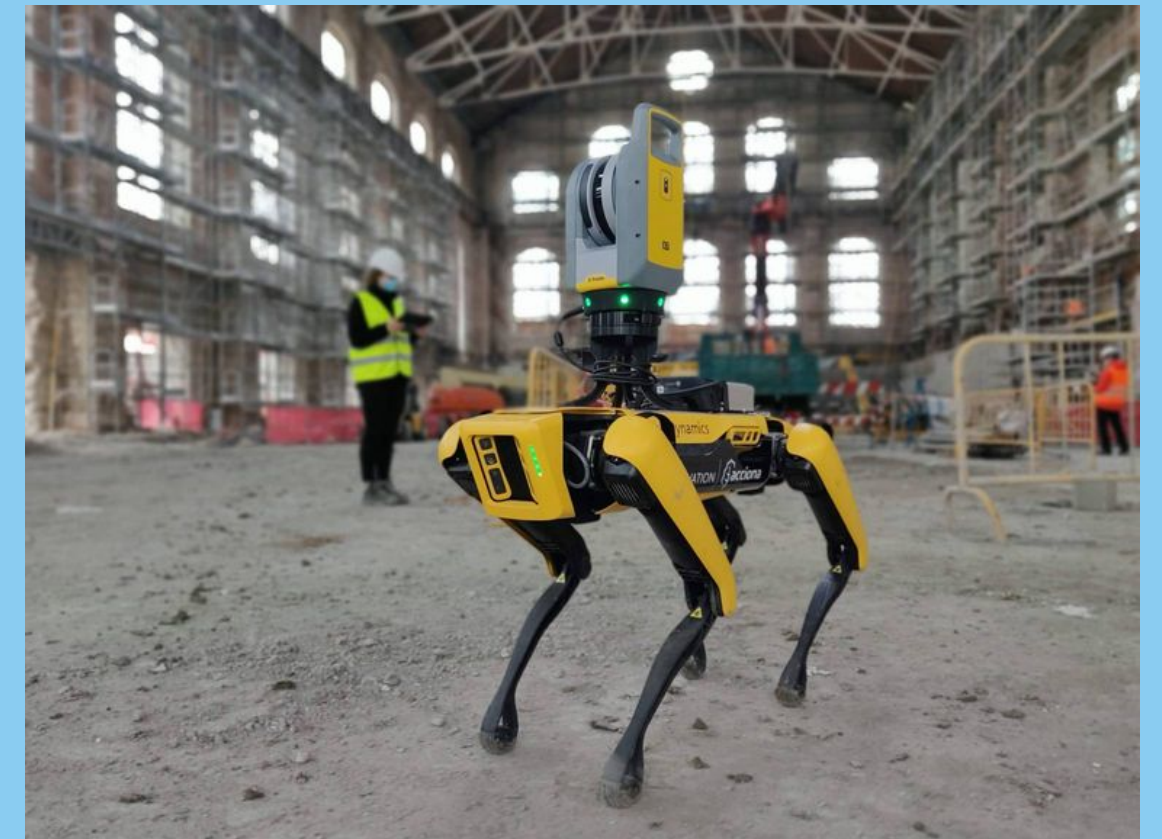
“

Integrating worker voice is currently the most consequential missed opportunity in the technological change process.

KAYLIE TIESSEN, UNIFOR RESEARCH DEPARTMENT

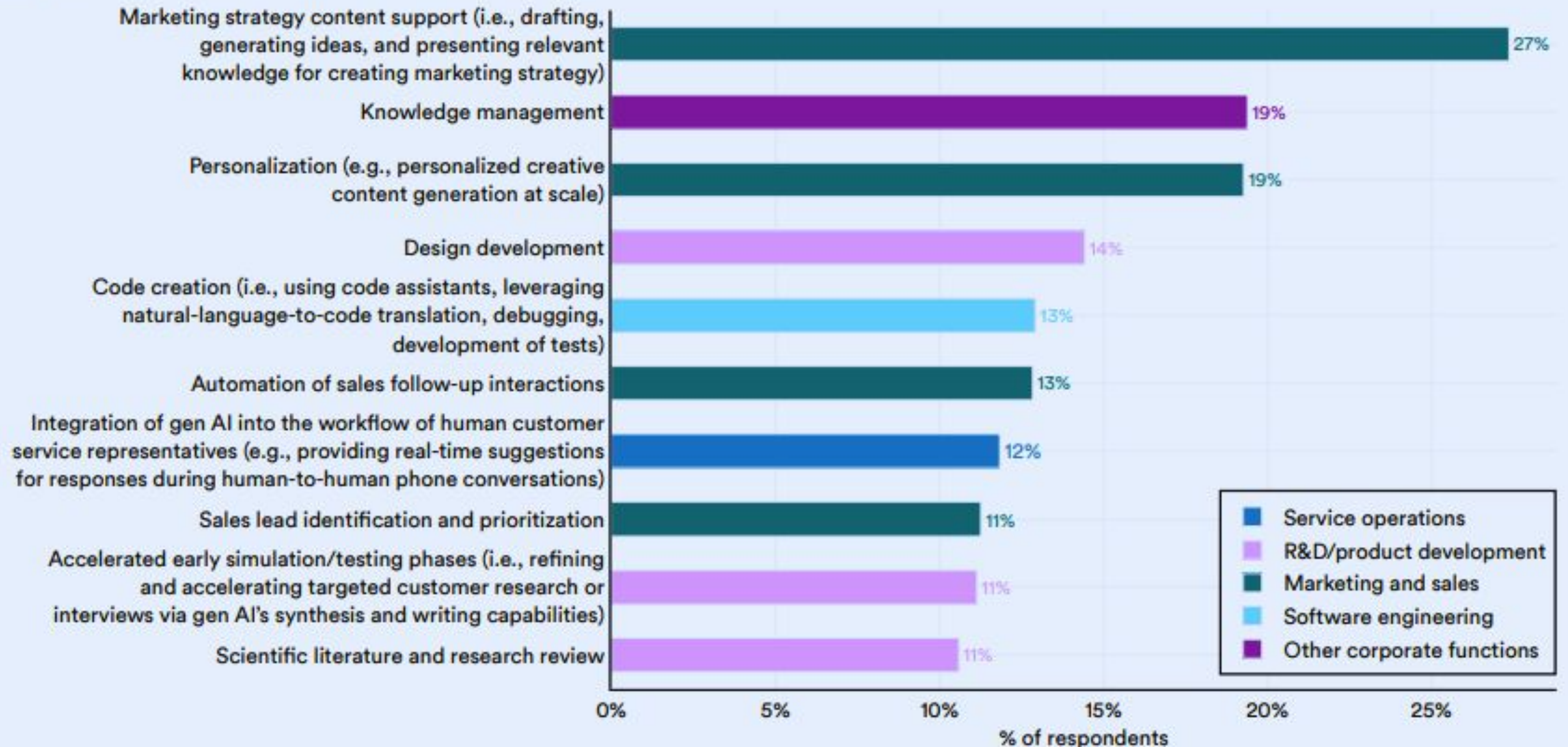
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ROBOTS AT WORK



Most common generative AI use cases by function, 2024

Source: McKinsey & Company Survey, 2024 | Chart: 2025 AI Index report

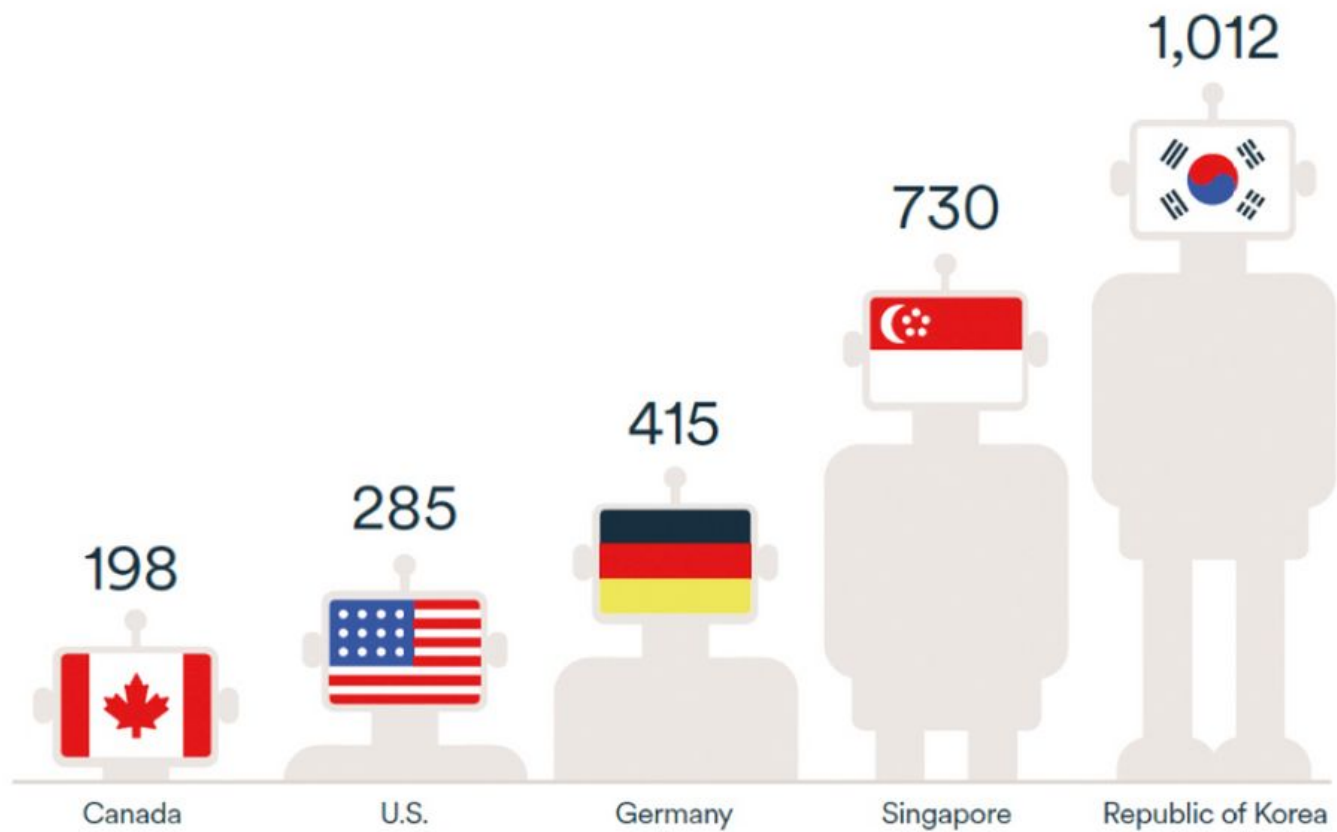




DIRTY
DULL
DANGEROUS



Robots per 10,000 employees in the manufacturing sector,
Canada and selected countries, 2022



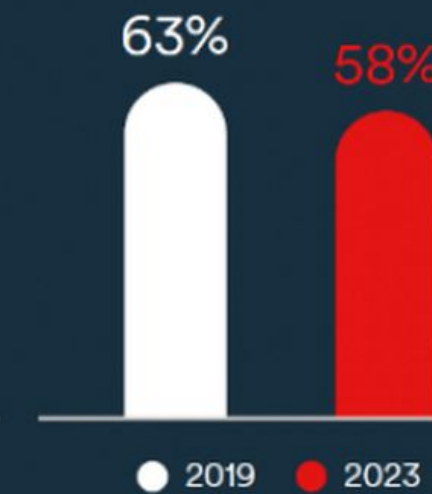
PRODUCTIVITY GAINS JOB CREATION

Canada's productivity gaps have widened since the pandemic.

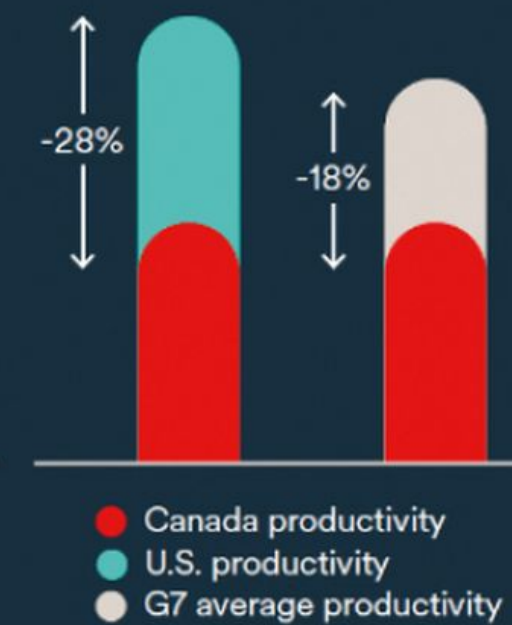
Average annual
Canadian productivity
increase



Productivity level
of SMEs compared
to large firms



Canadian vs.
international labour
productivity in 2022



● Canada productivity
● U.S. productivity
● G7 average productivity





Will integrating robotics and AI improve
work and worker's life?





TRAINING AND READINESS





INSTITUTIONAL COORDINATION



WORKER ENGAGEMENT

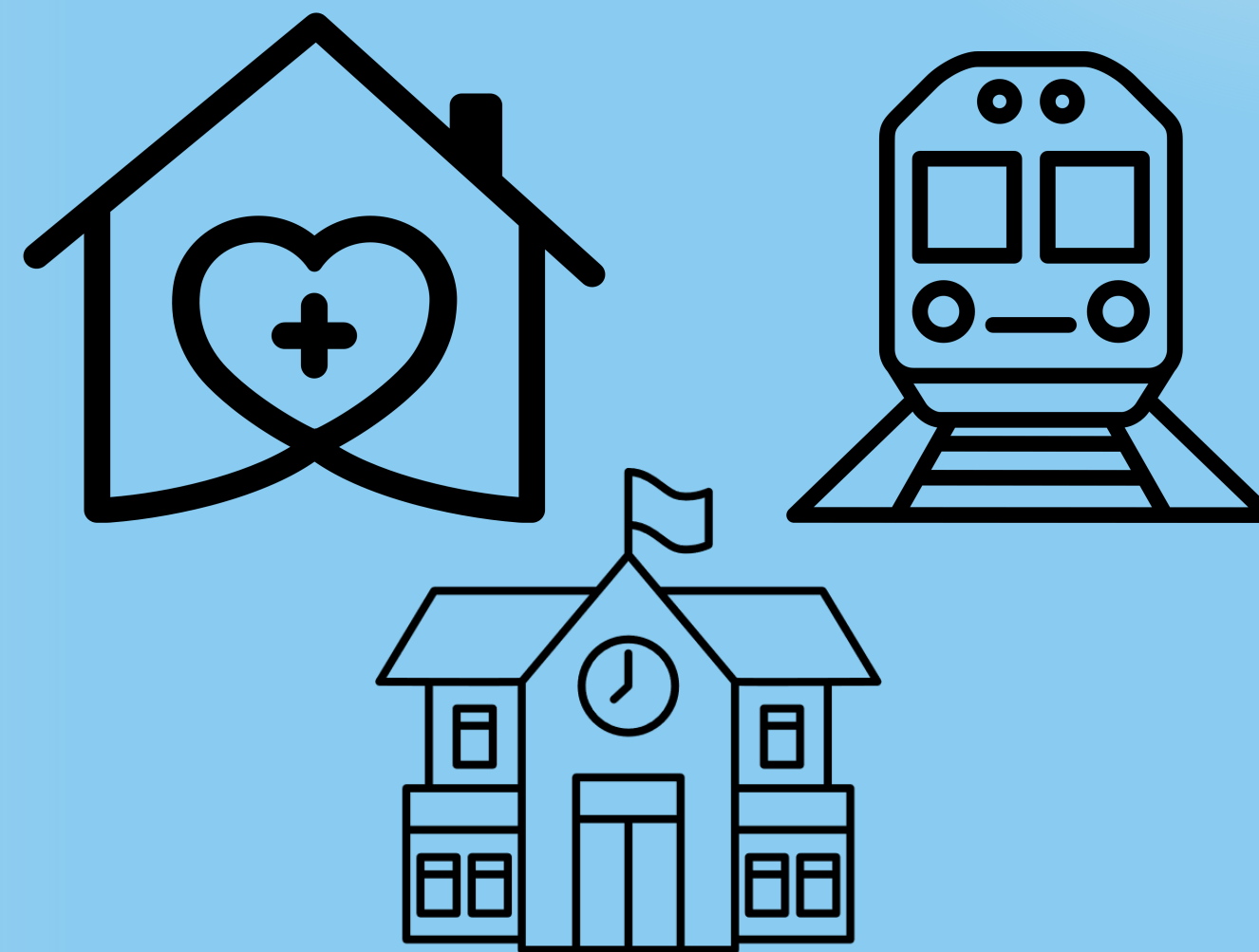


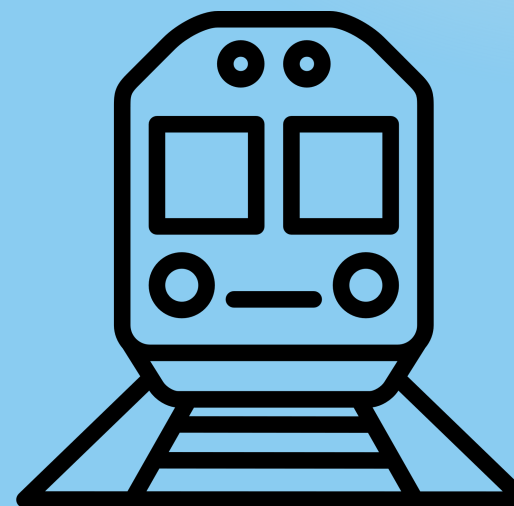
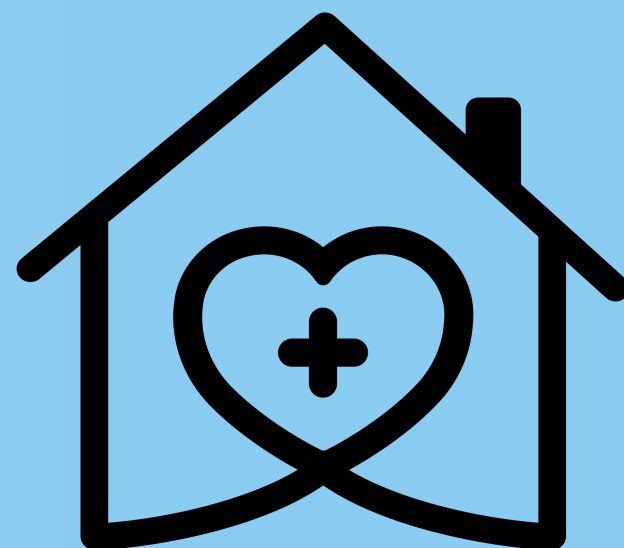
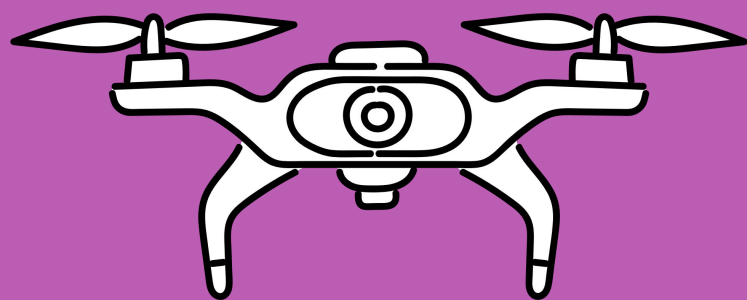
Meeting the challenge of artificial intelligence with safety in mind

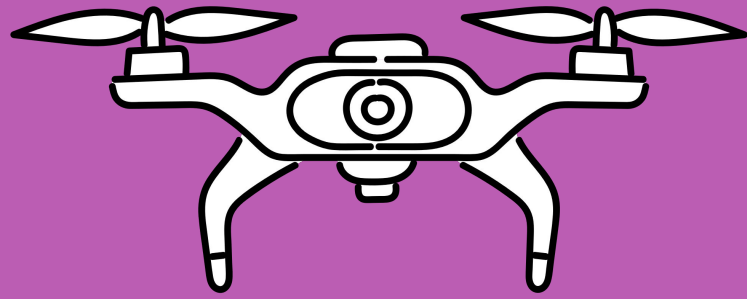


CASE: USING AI AND ROBOTICS IN INSPECTION









- Losing agency and sense of purpose
- Missing near incidents
- Learning unexpected information



- Making more timely inspections
- Having a safer work environment



The common thread

SAFETY CULTURE



Case Study: Predictive Algorithms to Support Frontline Worker Decisions



“

Worker voice can improve technology design, enhance the implementation process and mitigate instability that might otherwise go unscrutinized.

KAYLIE TIESSEN, UNIFOR RESEARCH DEPARTMENT

”



WHAT WE HEARD REPORT 2024

Canadian Robotics Council Symposium

Call to
Action

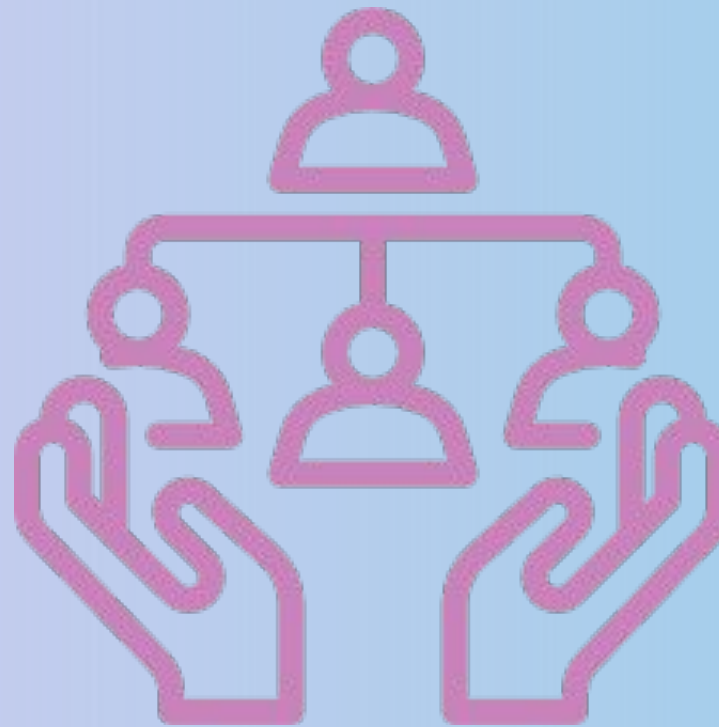




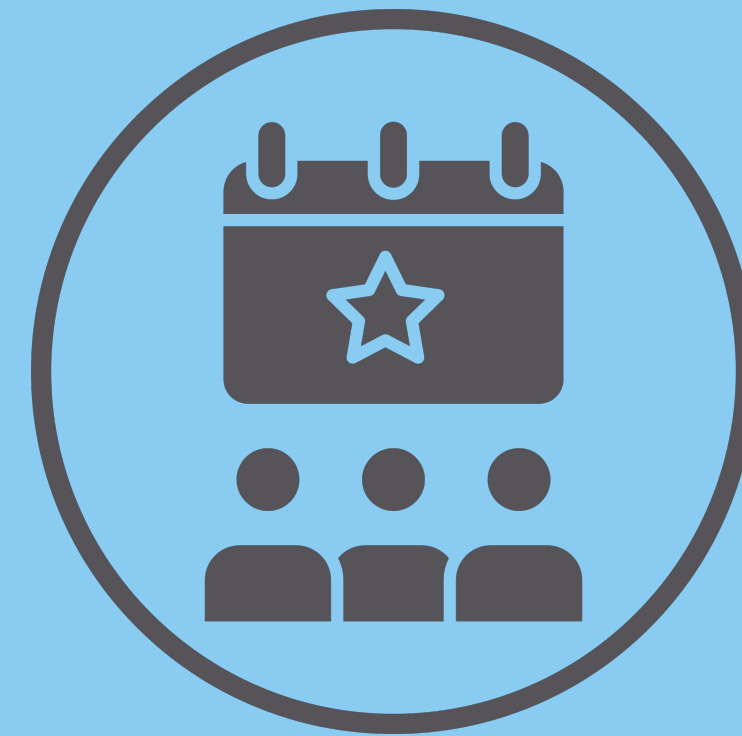
GOVERNMENT



COMPANIES



INDUSTRY LIASON



LABOUR UNIONS





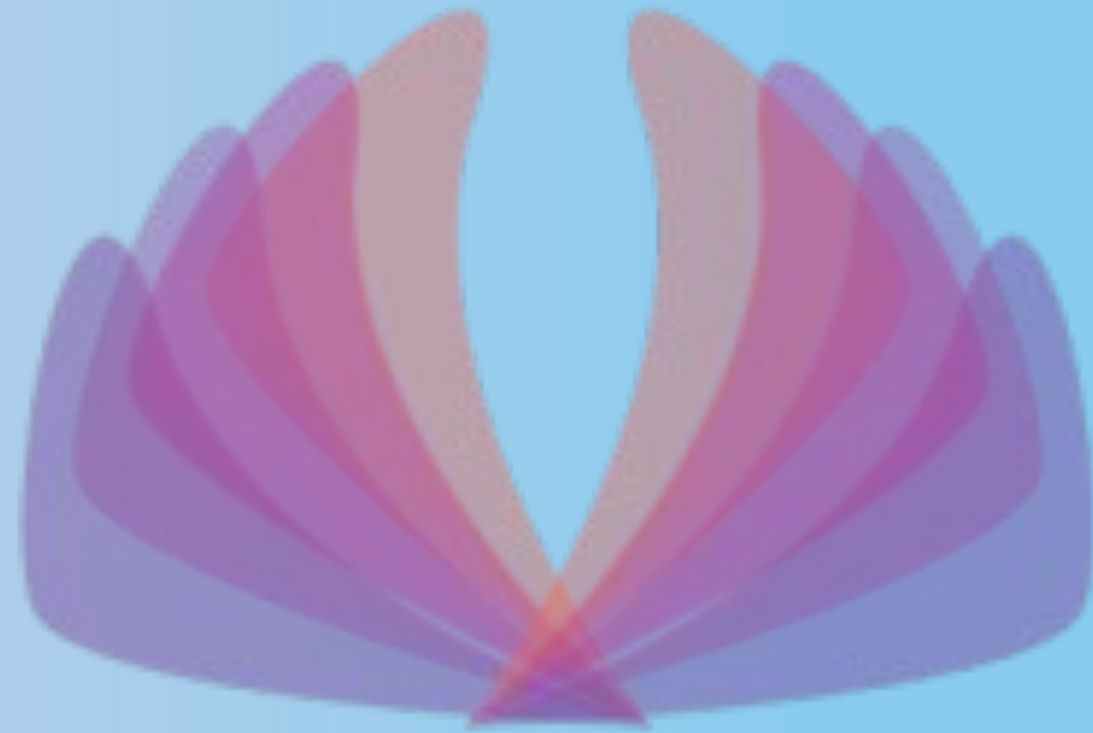
The Future of Work is Ours:

Confronting risks and seizing opportunities
of technological change



unifor
theUnion | lesyndicat





THANK YOU

Q&A

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