

Investment and People Practices for the Future of Work

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Presented by: Rosanne Horner

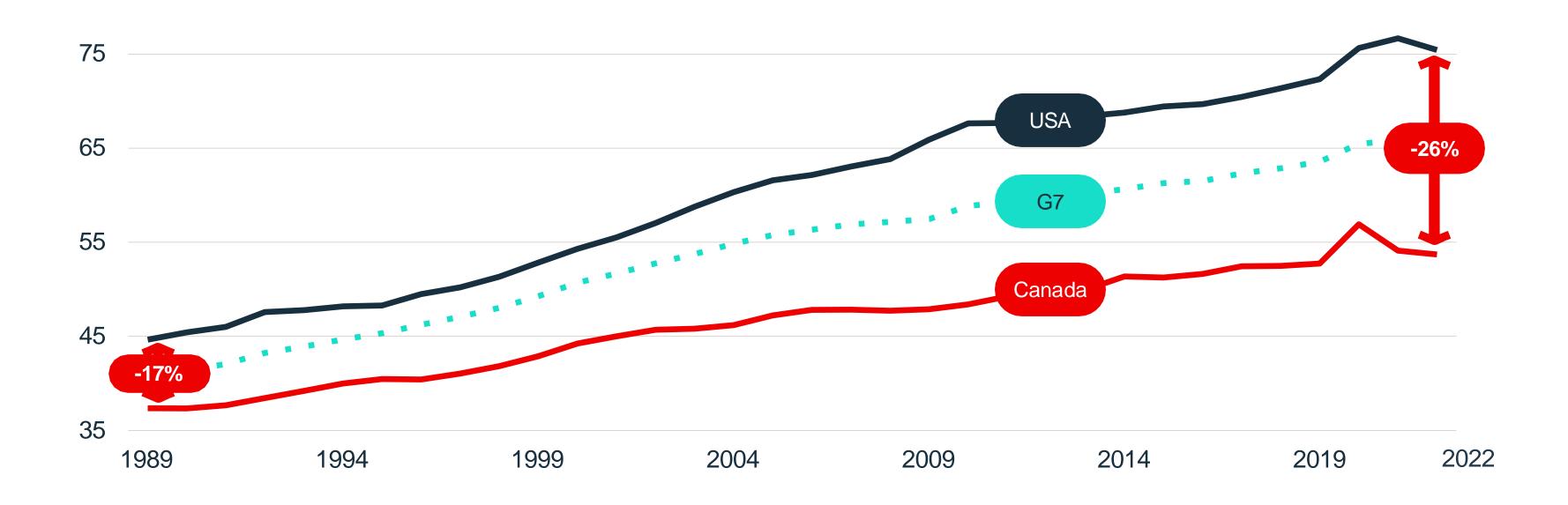




Bank of Canada says the country faces a productivity 'emergency'

Canada has fallen behind most of its G7 peers

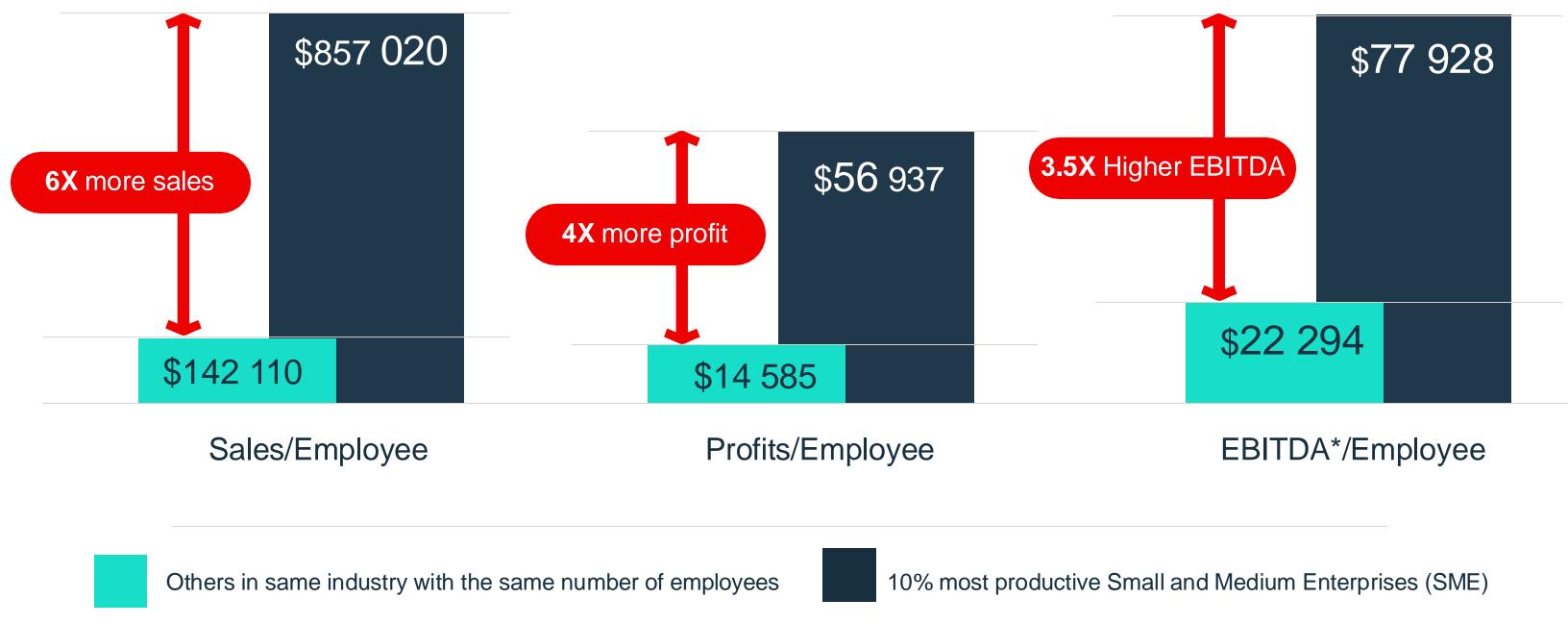
GDP per hour worked, US\$ at constant 2010 prices and with purchasing power parity



SOURCE: OECD

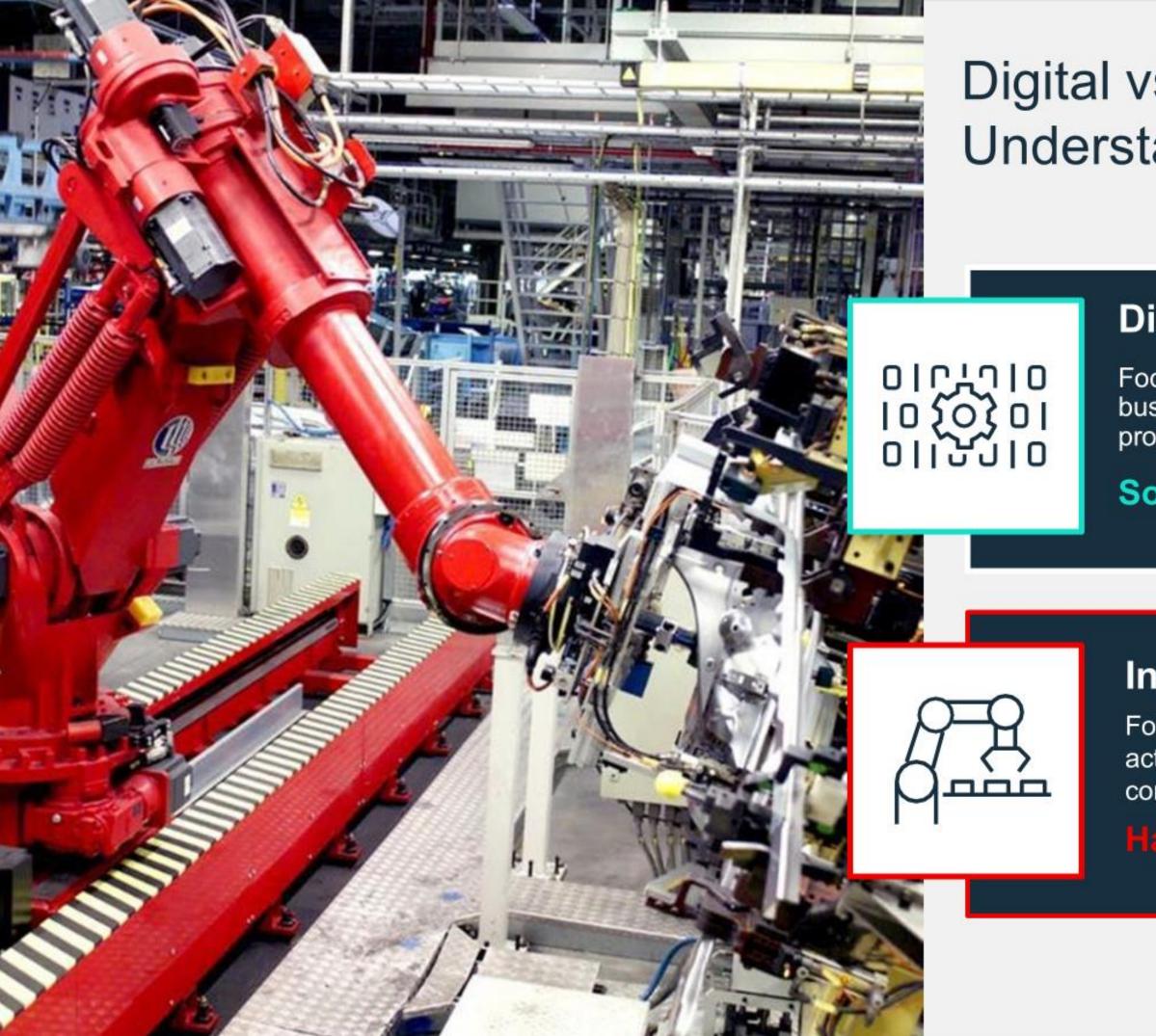


Investing in productivity sets companies apart and improve financial performance



Source: Statistics Canada, special compilation based on tax data; BDC calculations





Digital vs. Industrial Automation: Understanding the Distinction

Digital Automation

Focused on automating information flows in business processes and activities beyond the production floor.

Software-oriented

Industrial Automation

Focused on automating physical processes and activities on the factory floor, in warehouses, or on construction sites using physical equipment.

ardware-oriented

Artificial intelligence

Refers to machines or computer systems that can simulate human intelligence processes to perform tasks that, until recently, only humans could perform.

- Reasoning





Al analyzes data by simulating the neural processes responsible for: Decision making

Problem solving

Digital process automation and AI can help SMEs in many ways

Control costs	 Automating repetitive tasks Improving productivity Predicting equipment breakd
Increase sales	 Generating leads Contacting prospects Personalizing recommendati
Ease labour shortage	 Reducing number of redunda Increasing engagement Facilitating recruitment
Navigate uncertainty	 Improving forecasting Monitoring inventory Optimizing resource allocation



downs

tions

dant tasks



Benefits for a More Accurate ROI Calculation **Intangible Benefits**

Tangible Benefits

Labor Savings Increased Production Downtime Reduction Temporary Staff Costs Defect Reduction

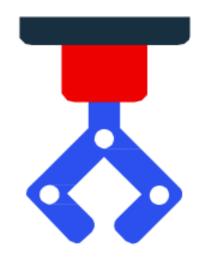
- Improved Health and Safety
- Enhanced Brand Reputation
- Supplier Relations
- Employee Satisfaction
- Reduced Fork Truck Movements
- Accurate Production Output Measurement
- Marketing and Sales Opportunities
- Quality Improvement



Manufacturing

Key productivity facts

- -0.4% average annual productivity growth since 2019
- \$67 of real GDP per hour worked vs. an average of \$59 for all firms
- Low efficiency in the use of production inputs, weak capital productivity, limited skill upgrading
- Less than 9% of manufacturers use robots.



Solutions

- Review workflow and reduce waste Identify bottlenecks

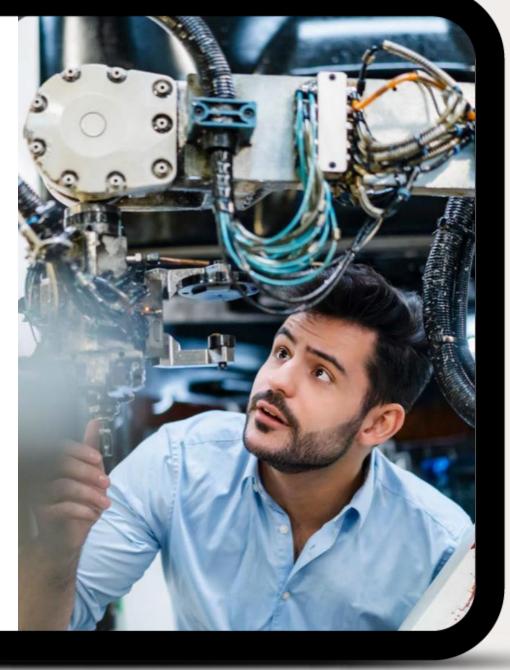
 - Implement lean manufacturing (Six Sigma)
- Leverage technology and data Implement real-time data analytics Embrace automation, digitization and robotization
- Upskill employees so that they are more productive, flexible



Harnessing the Power of Industrial Automation and Robotics

A Guide for Entrepreneurs



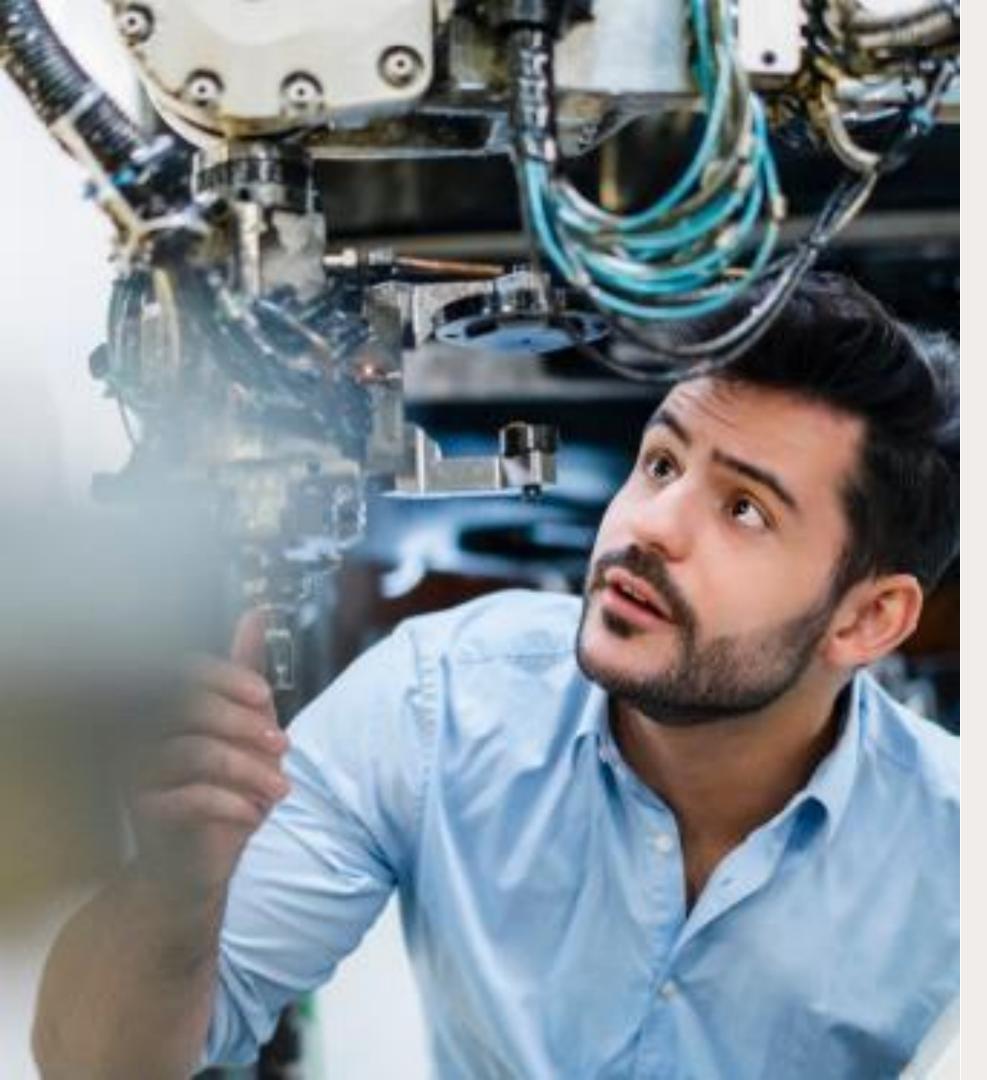




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Appendix Materials ROI Example



Cost of Robo

Annual Savin Labour Sa Quality Sa

Increased

Staffing Sa **Total Annual**

Payback Period

ROI Calc (Year 1)

=

ROI example of investing in robotics and automation

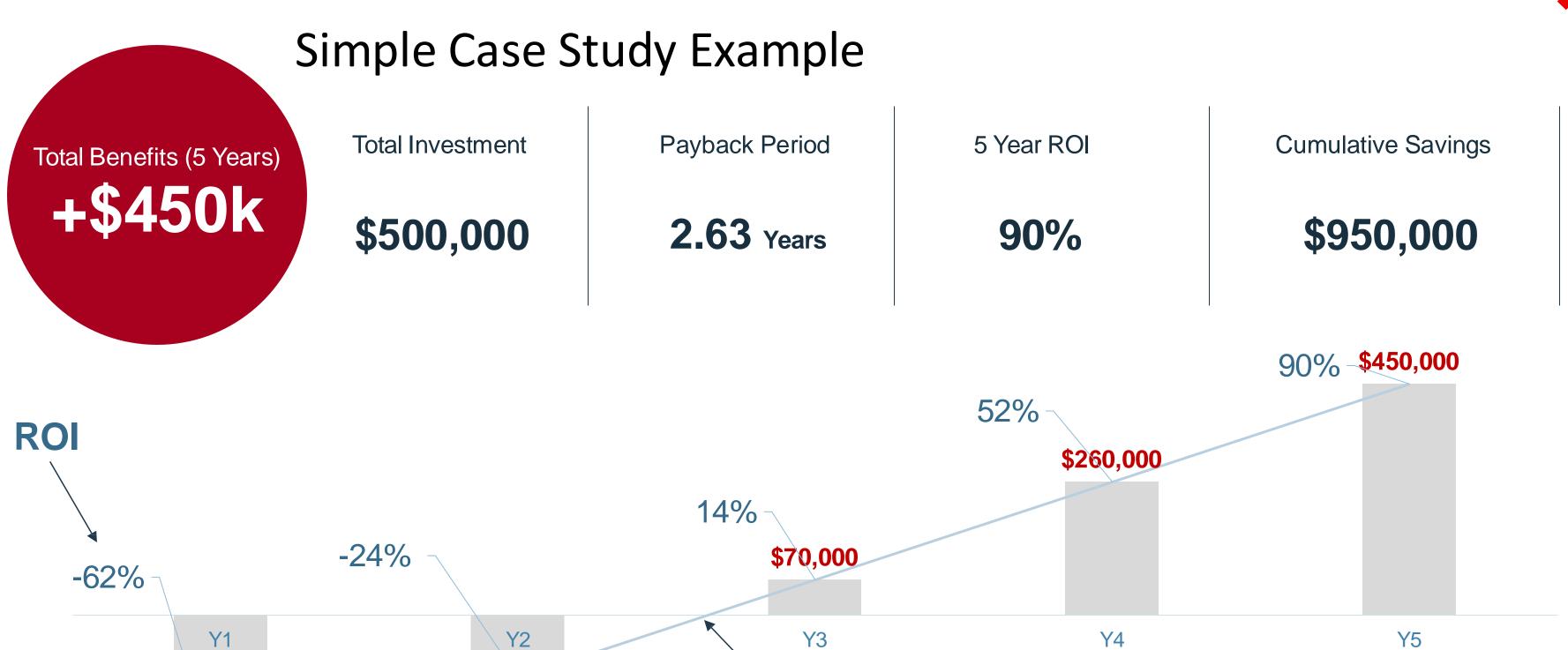
Example Metal Inc. case study:

otic System (fully loaded)	\$500,000
ngs	_
avings	\$100,000
avings	\$30,000
d Throughput	\$50,000
avings (retention)	\$10,000
Savings	<u>\$190,000</u>

Cost of System **Total Annual Savings**

Total Annual Savings – Cost of System

Cost of System







Simple Cashflow Analysis with financed equipment

			Year	Payment	Interest	Principal	Loan Balance	Annual Savings	Cashflow Impact
			[1		
Assumptions			1	-\$35.00k	-\$35.00k	-	\$500.00k	\$190.00k	\$155.00k
Loan Amount	\$500,000	_	2	-\$35.00k	-\$35.00k	-	\$500.00k	\$190.00k	\$155.00k
		1	3	-\$121.95k	-\$35.00k	-\$86.95k	\$413.05k	\$190.00k	\$68.05k
Principle Postponement 2	2 years	_/	4	-\$121.95k	-\$28.91k	-\$93.03k	\$320.02k	\$190.00k	\$68.05k
	2 youro		5	-\$121.95k	- \$22.40k	-\$99.54k	\$220.48k	\$190.00k	\$68.05k
Annual Interest Rate	7%		6	-\$121.95k	-\$15.43k	-\$106.51k	\$113.97k	\$190.00k	\$68.05k
Amortization (years)	5		7	-\$121.95k	-\$7.98k	-\$113.97k	\$.00k	\$190.00k	\$68.05k
			8	-	-	-	-	\$190.00k	\$190.00k
			9	-	-	-	-	\$190.00k	\$190.00k
		_	10	_	-	_	-	\$190.00k	\$190.00k

