



# Operations Technology Solutions

Trends in operations  
management

March 2019





# powerful forces

reshaping  
Canada's economy



**Shifting  
workforce  
dynamics**



**Emergence  
of digital  
technologies**

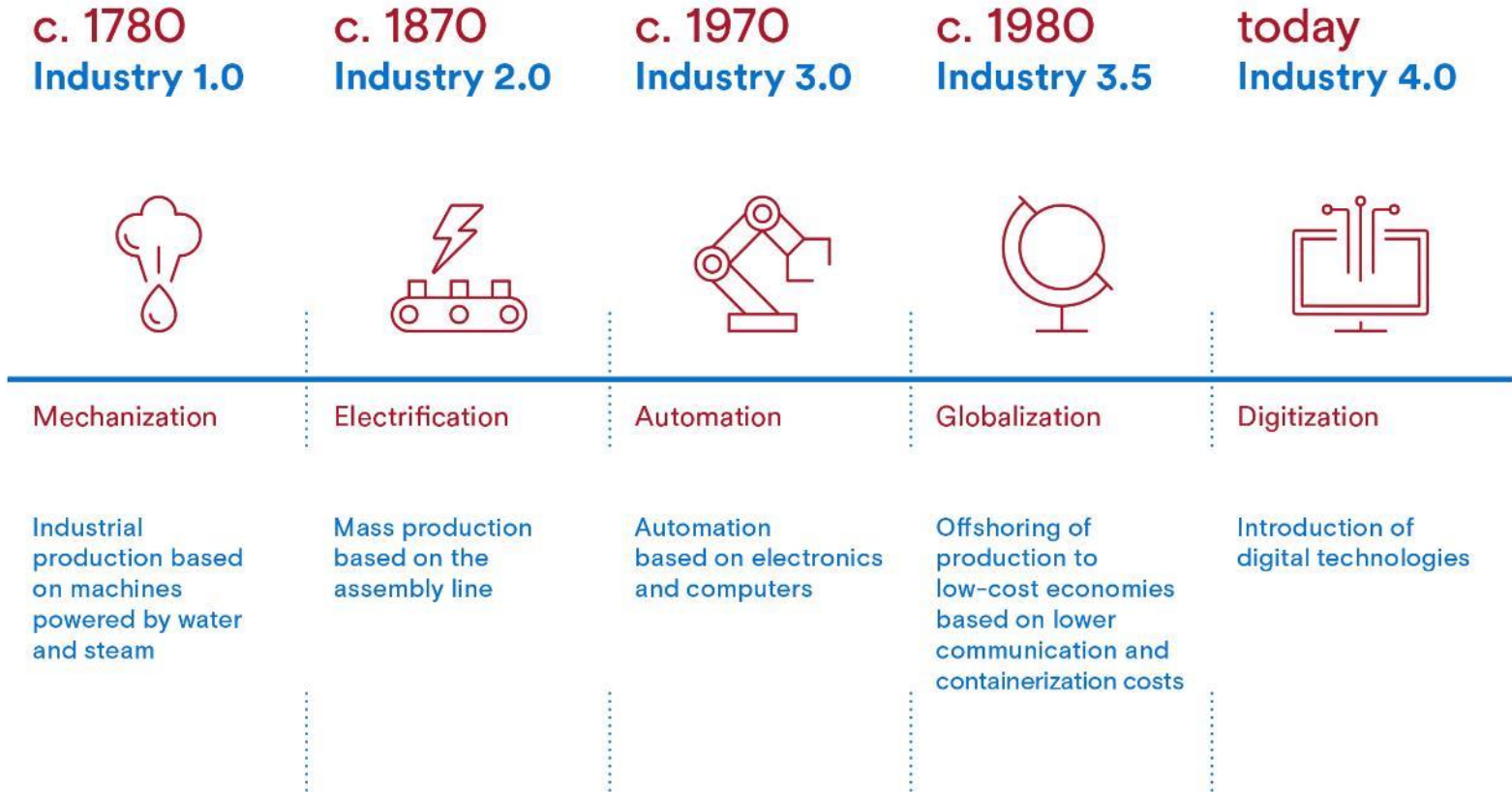




**“We’re working hard  
to adopt new  
technology and  
become more  
efficient.”**

**Nicolas and Jean-François Drouin**  
Co-CEO, Produits Matra

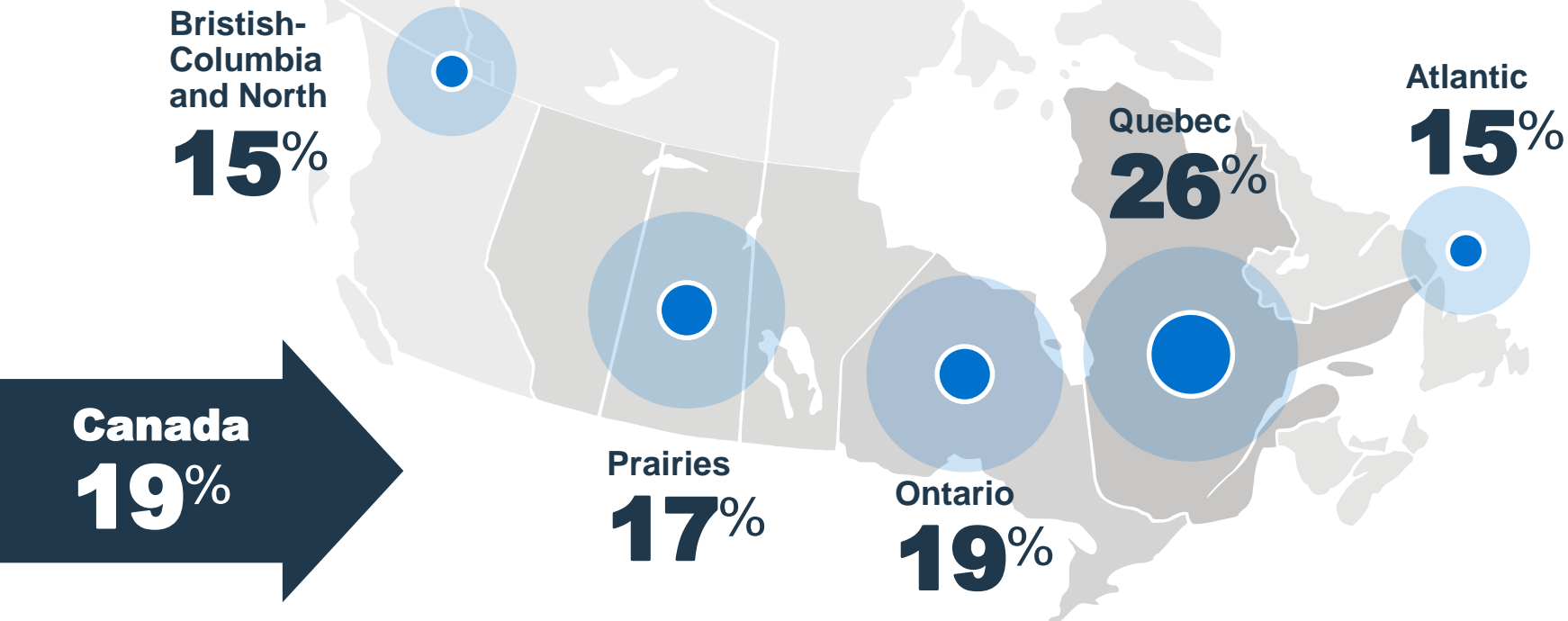
# Industrial revolutions over the ages



# Digital maturity levels in Canada

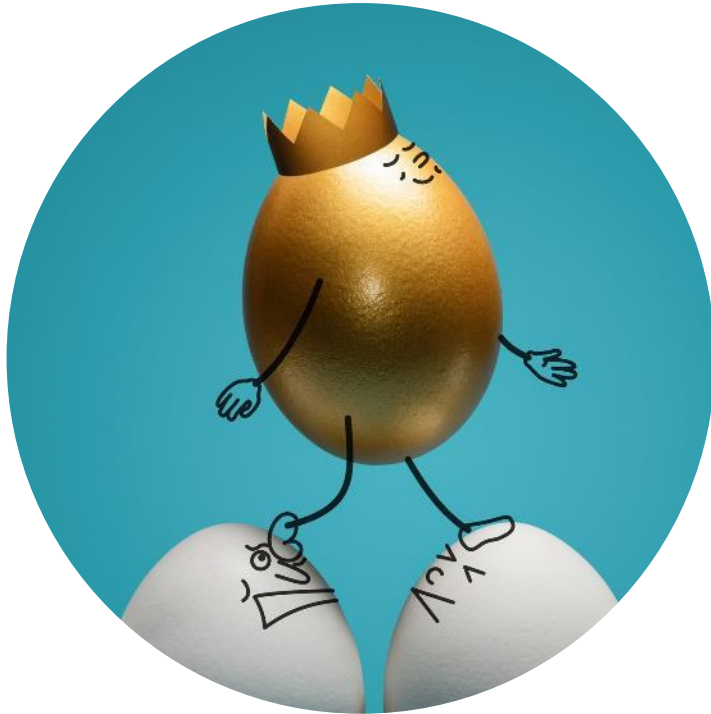


% of businesses that are digitally advanced, by province





# Digitally mature companies



**1** Higher sales

**2** Higher profits

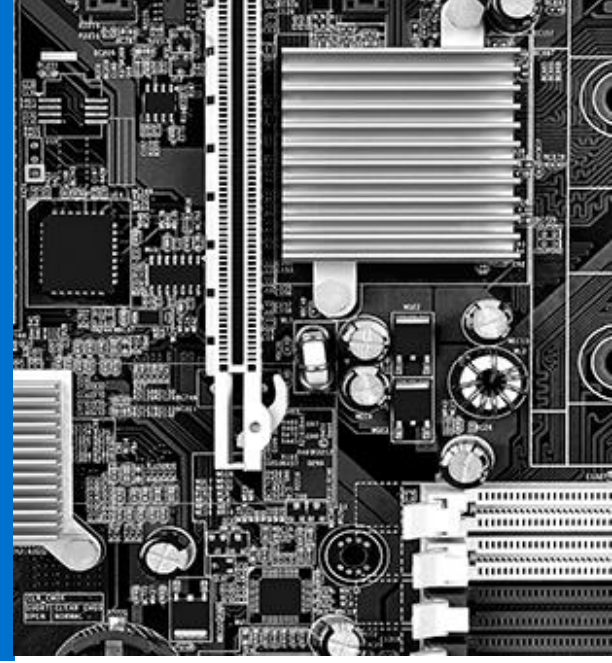
**3** More likely to export

**4** More likely to innovate





# Manufacturers who adopted Industry 4.0 saw real benefits



**60%**

Boosted their  
productivity

**50%**

Reduced  
operating costs

**42%**

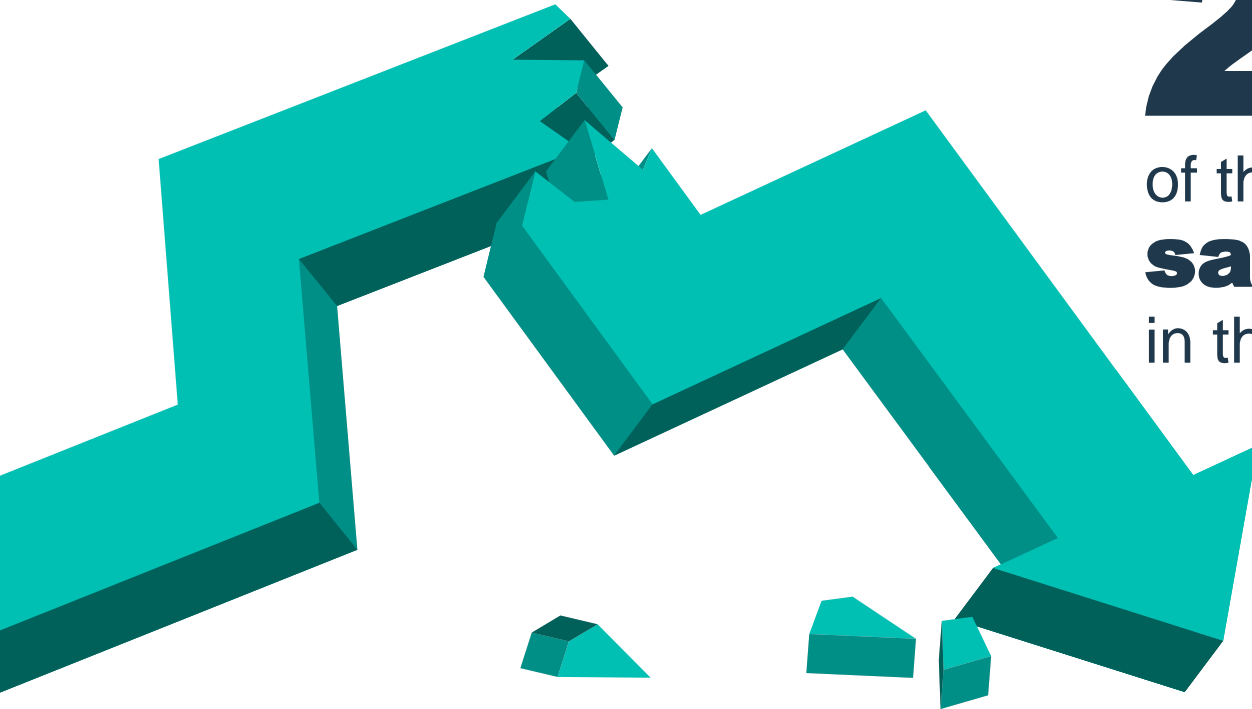
Improved overall  
product quality

# Businesses with low digital maturity



25%

of them have seen  
**sales plummet**  
in the last three years





**“If you’re dependent  
on manual, traditional  
ways of doing things,  
you can’t scale  
your business.”**

**Scott Hodson**  
President and CEO,  
Superior Cabinets





# **The power of digital technologies for operations**

# Reducing waste to add value



Through the effective management of resources, processes and information

SME

Creating value

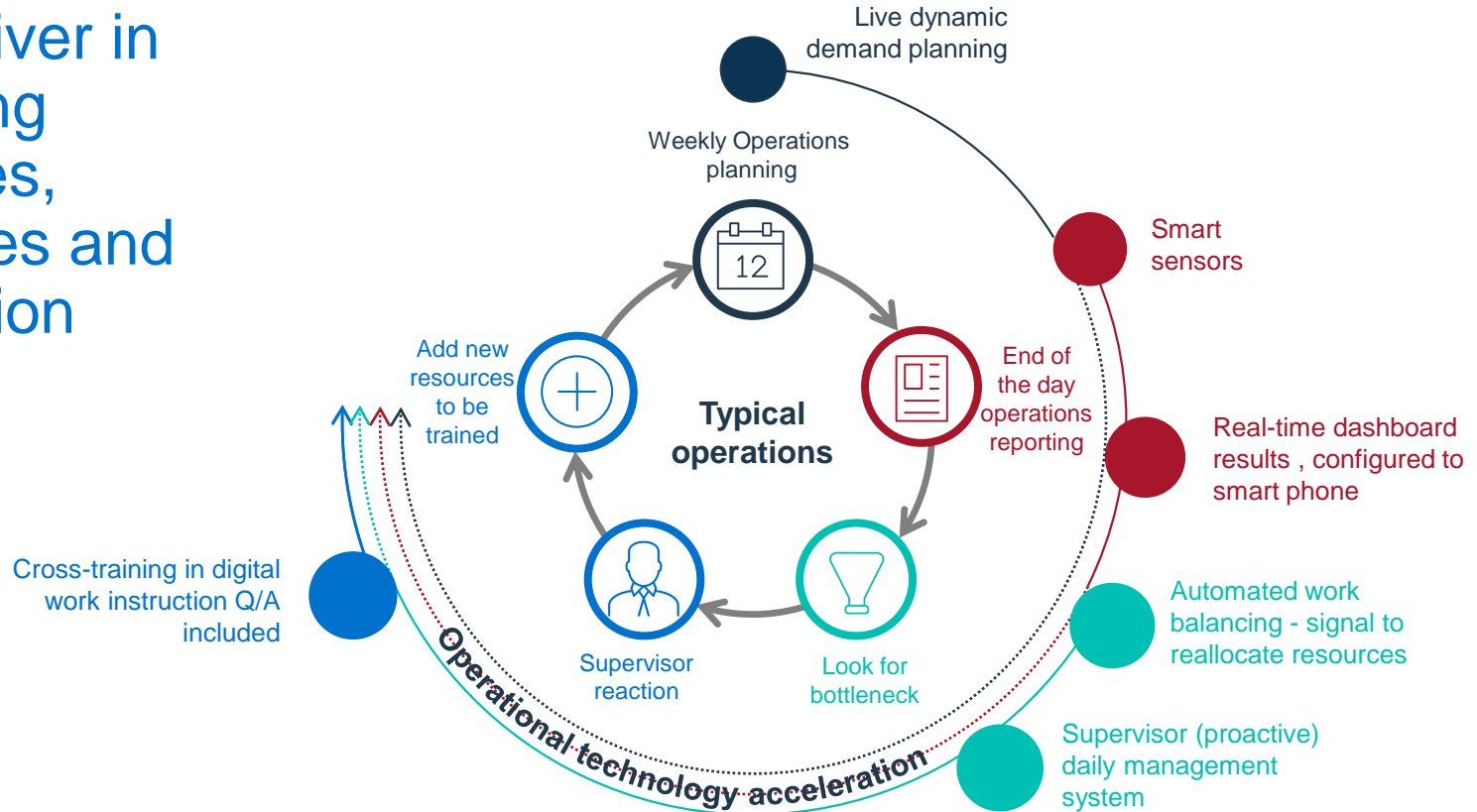
Customer





# Operations Technology Flywheel

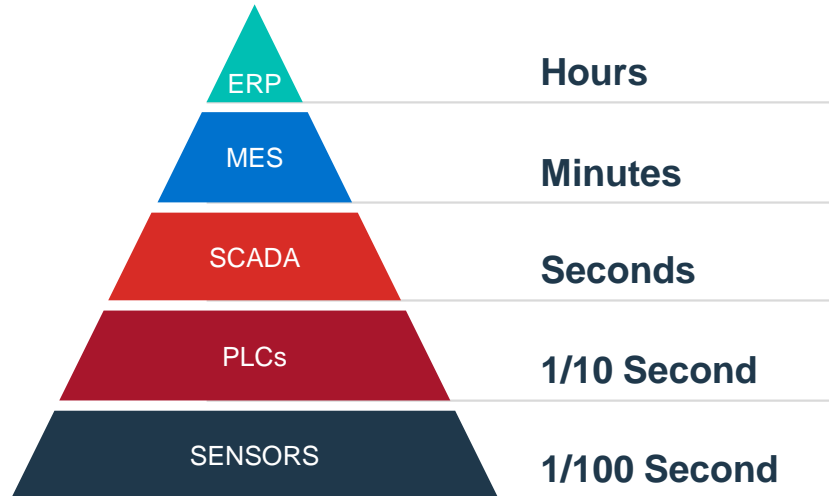
A key driver in  
optimizing  
resources,  
processes and  
information





# IoT: A good place to start

Improve your decision-making systems



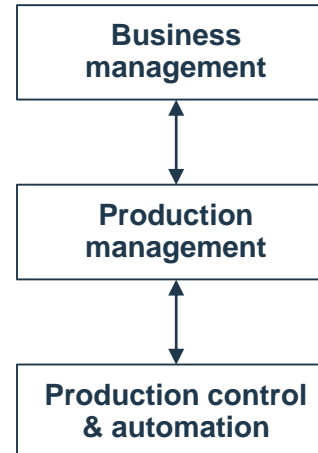
Traditional topology

## Benefits

- Affordable
- Be proactive
- Reduce delays
- Improve efficiency
- Generate more value

## Challenges

- Timeframe
- Expertise
- IT implication
- Reliance on others
- Cybersecurity

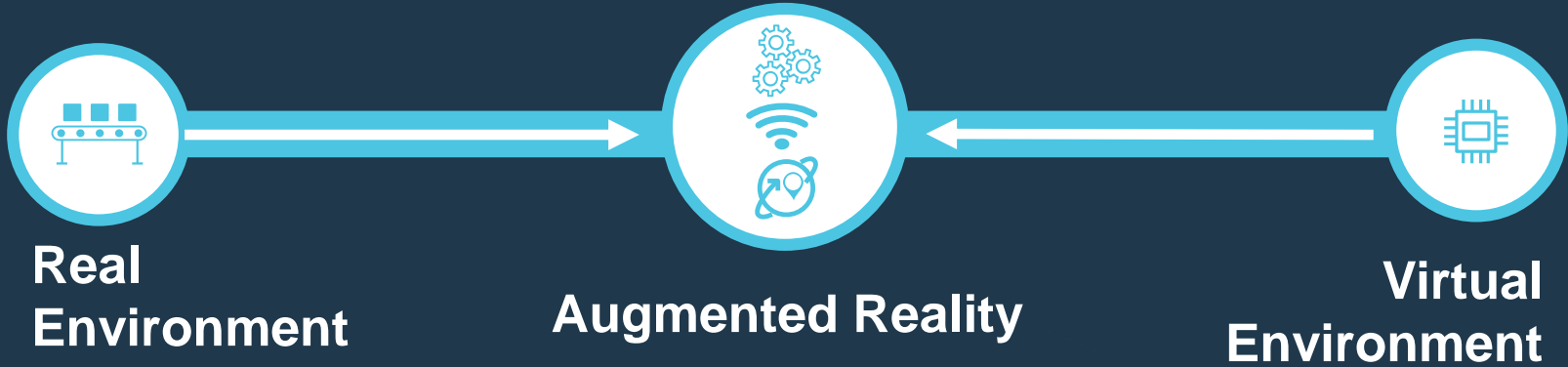


# Your data is valuable!



**Real-time dashboards**  
**Real-time decisions**

# Augmented Reality



- Complex work instructions
- Expert support & training
- Maintenance & repair
- Quality Assurance
- Automation control



# 3D Printing



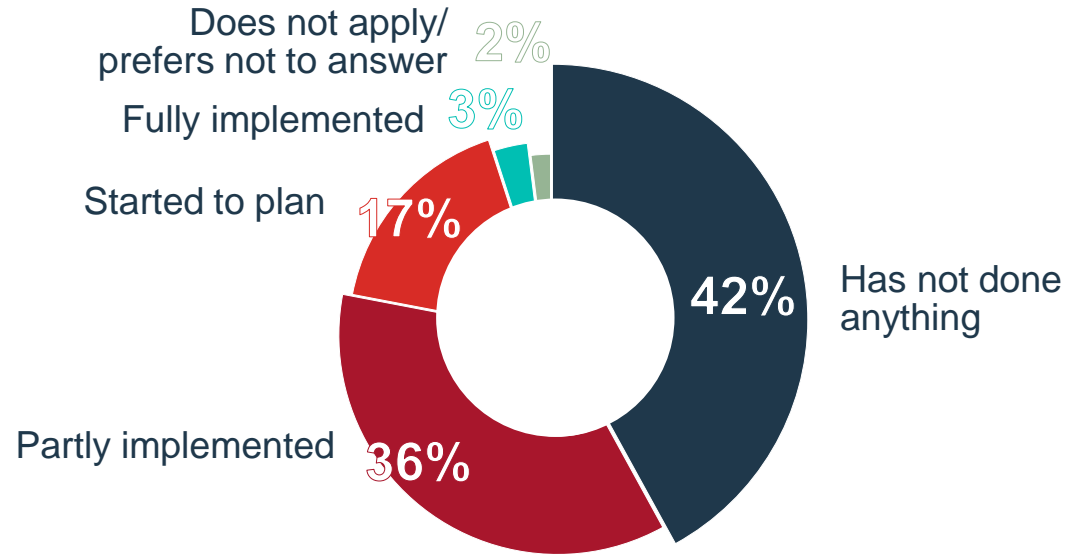


# Manufacturers are in the early stages of digital adoption



**40% of small and mid-sized manufacturers have implemented 4.0 projects.**

Q. To what extent have you implemented digital technologies (Industry 4.0 projects) in your company?



# Client story

**Vladimir and  
Natasha Bolshakov**  
Geometrik Manufacturing





# How to make the **digital shift** in your business?



# 3 ways to introduce digital technologies into your business

→ Build a digital factory

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→ Provide a digital customer experience

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→ Create digital products





①

**Build your  
strategy**

**Start small. But think big.**

A woman with dark hair, wearing a blue and white polka-dot shirt, is focused on assembling a white robotic device. She is using a blue-handled screwdriver to tighten a screw. The device has various sensors and wires attached. In the background, there are large windows and other electronic components on a table.

2

**Establish a  
culture of change.  
Make technology  
useful and fun!**





3

**Scale fast and  
never stop  
improving.**



# The bottom line

It pays to be digitally advanced.

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Embrace change and invest now  
to future-proof your business





# Digitize Now

Measure up and transform  
your business.



BDC



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