

# Si Robotics

Automation where humans are still the only option



# The Problem

Labour shortages  
make manual work  
a bottleneck

Manual assembly is slow,  
costly, and scales poorly

In many cases, traditional  
automation is simply  
impossible

2

1

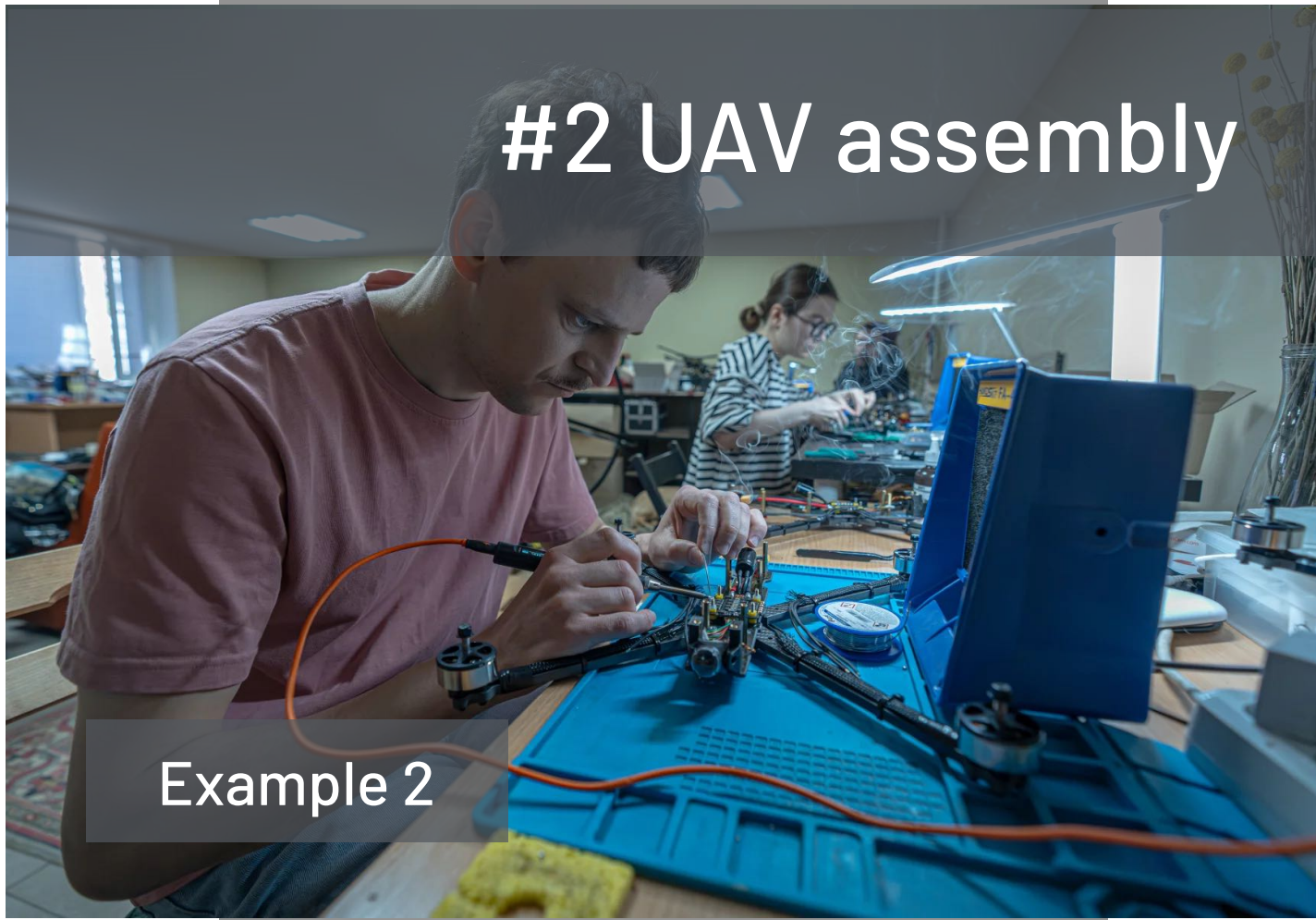
3

#1 Welding



Example 1

#2 UAV assembly



Example 2

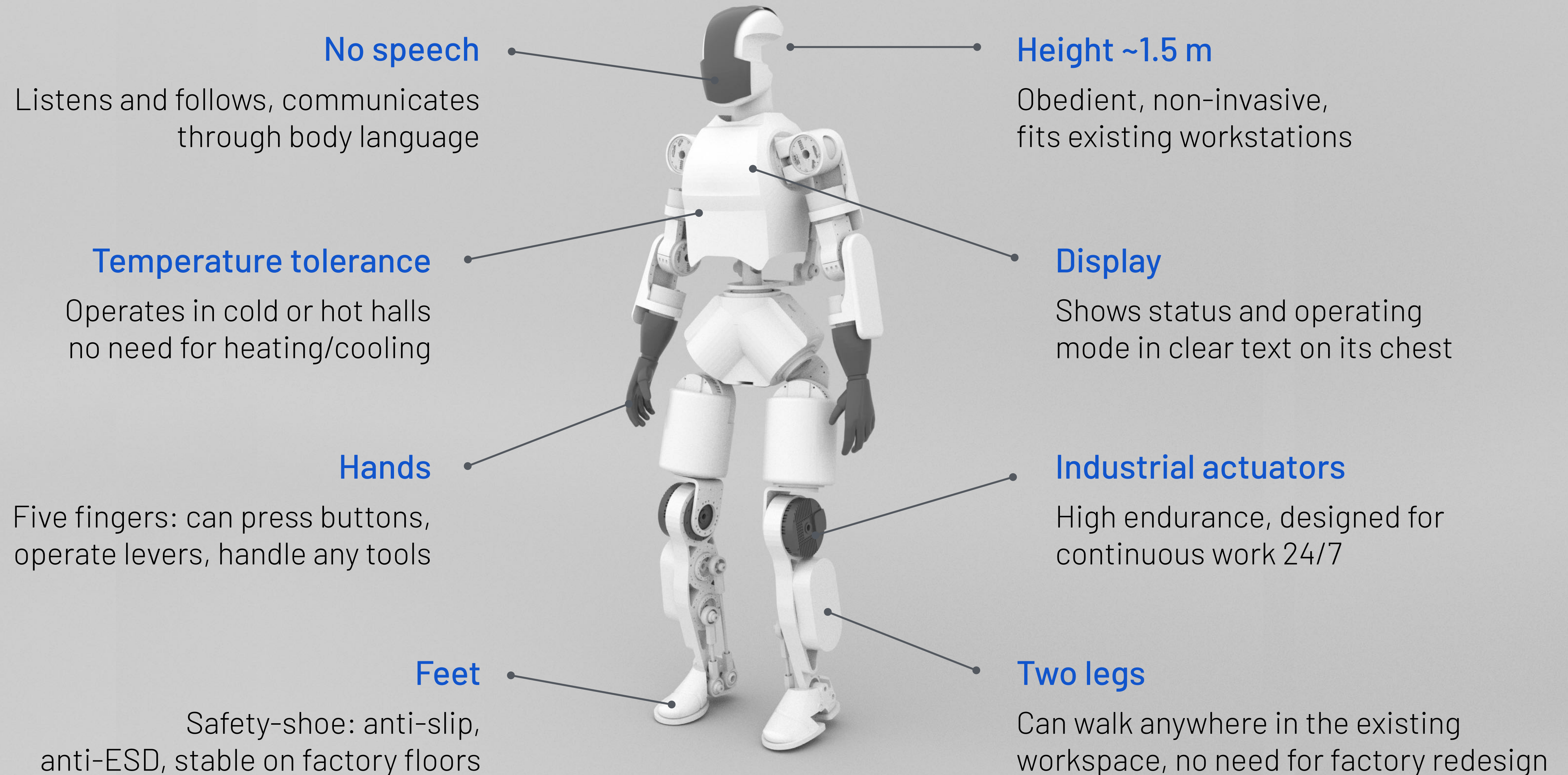
#3 Cable harness assembly



Example 3



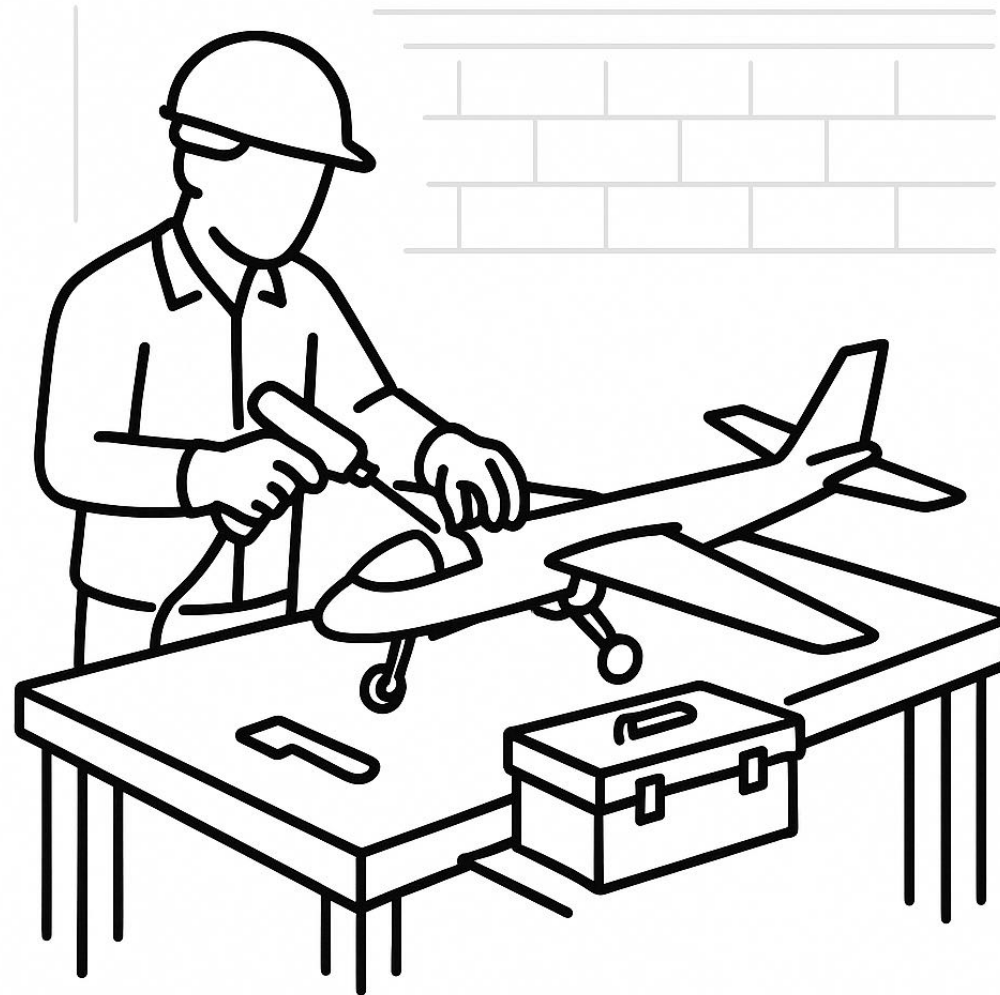
# Meet *Joule* - a worker designed for your factory





# How the robot works in your process

## Before - Manual

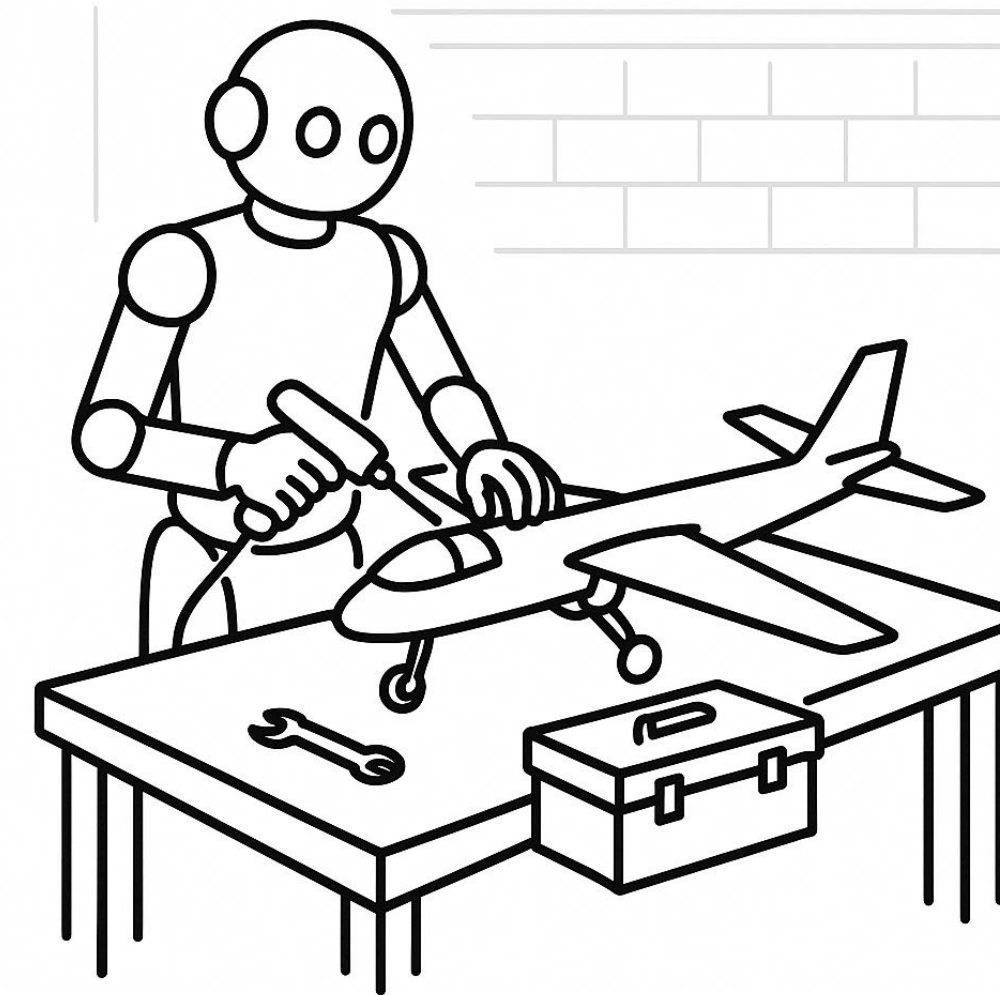


*Manual assembly*

*High fatigue, inconsistent quality*

*One shift = 6h effective work*

## After - with Joule



*Same workspace, no redesign*

*Robot handles cables and tools autonomously*

*Continuous 24/7 operation, consistent output*

Throughput: **+200–300%** | Labour cost: **–40–70%** | Error rate: **↓90%**

# From manual bottleneck to scalable throughput

<u>Criteria</u>	<u>Manual work</u>	vs	<u>With SI Robotics</u>	
Unit labour cost	100%	→	-30% to -70%	✓
Throughput	Limited by workforce	→	2-3x higher	✓
Quality	Errors, fatigue	→	Consistent, precise	✓
Risks	Absence, injuries, turnover	→	Stable, 24/7	✓
Supply security	Human-dependent	→	Made in Europe	✓



# Where we aim to deliver immediate value

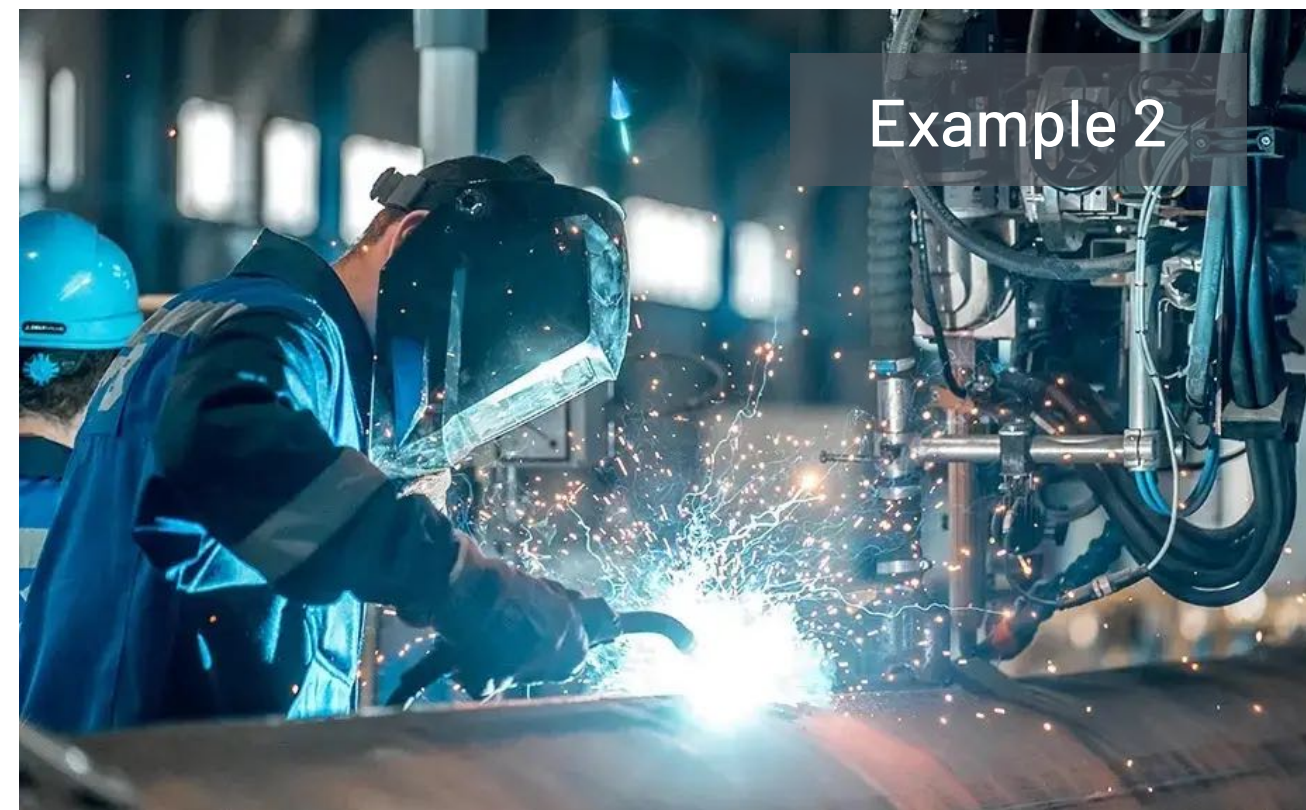
## Defence & Aerospace



Short-series production  
of military equipment

*Example: UAV assembly*

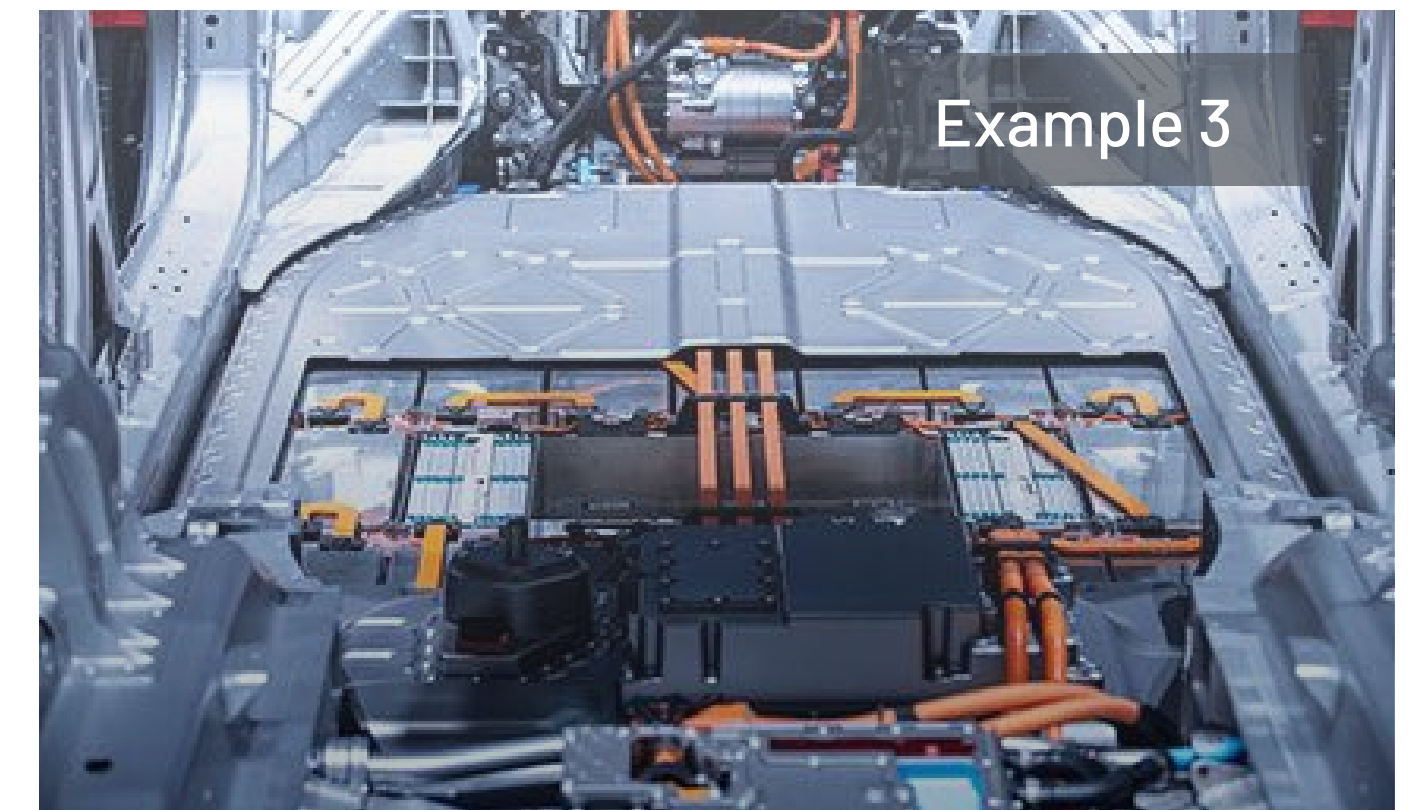
## Heavy Industry & Energy



Assembly in confined  
environments

*Example: Welding of structures*

## Recycling & End-of-Life



Recovery of components  
from machines

*Example: Dismantling EV batteries*



# EBITDA impact from day one

## 1 EBITDA impact

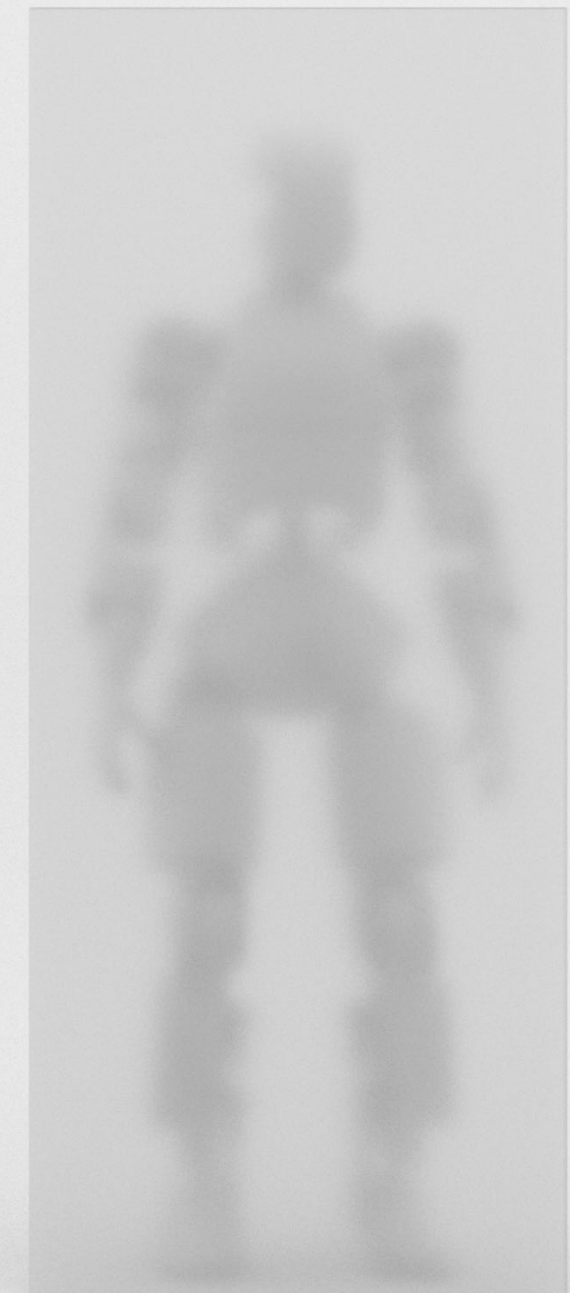
30–70% labour cost reduction

## 2 Higher throughput

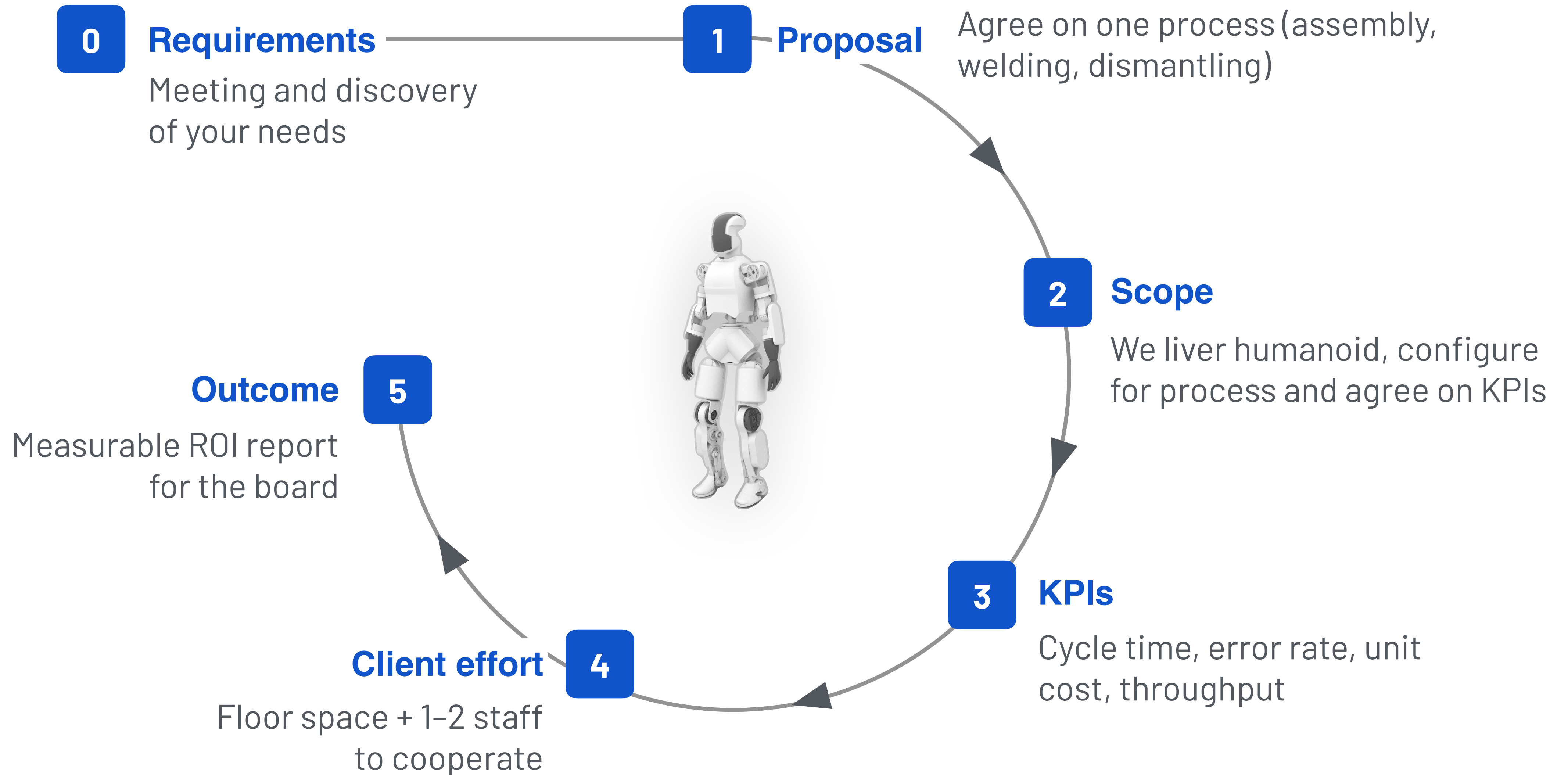
Robots work 24/7 → 2–3x throughput

## 3 Operational resilience

No strikes, no injuries, no turnover; reduced geopolitics tensions



# 3-6 months to measurable ROI





Proposal: 1-hour technical workshop  
to identify the process with the fastest ROI

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