


collective workflows

combining the individual strengths of **humans** and **robots**

presented by
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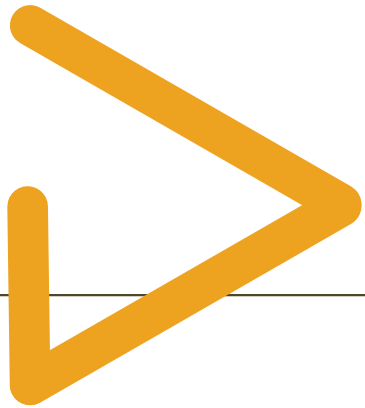
VEENA
robotics

Next week delivery became 2-day delivery
became same-day delivery... it's unstoppable



rising expectations

“the Amazon effect”



customers want →
• which means →

more options
• more SKUS

- smaller orders
- nonconveyables


faster delivery
• higher throughput

- faster cycle times
- more locations

24/7 service
• realtime updates

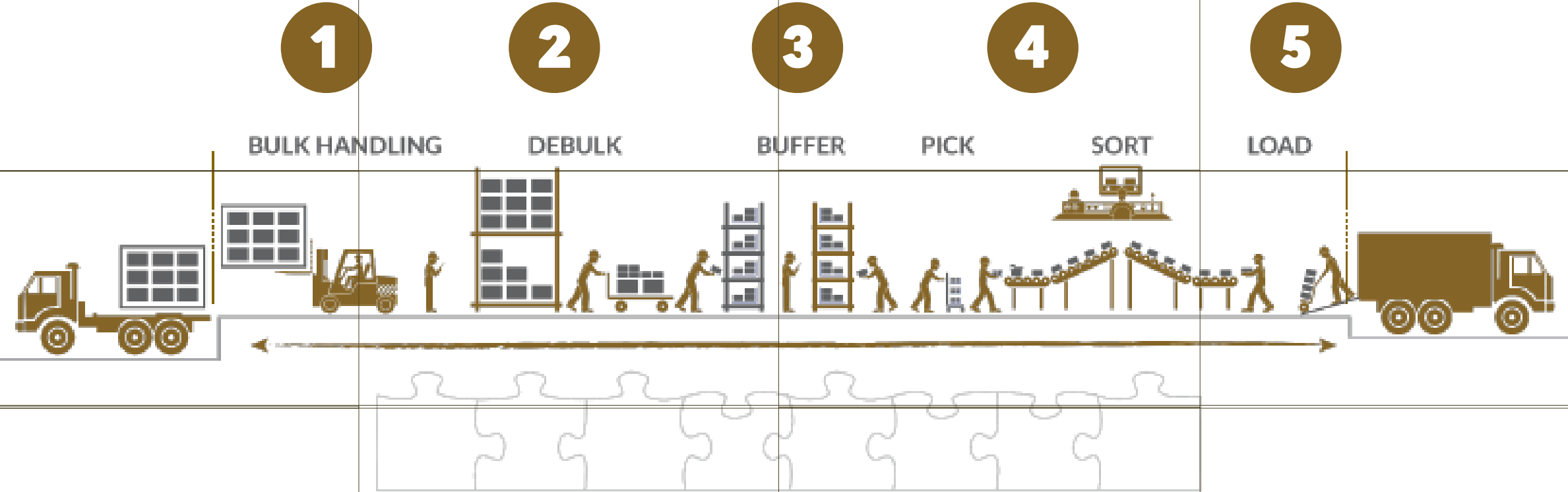
- higher uptime
- automation

automating each process independently is a
good idea... but it'll cost you



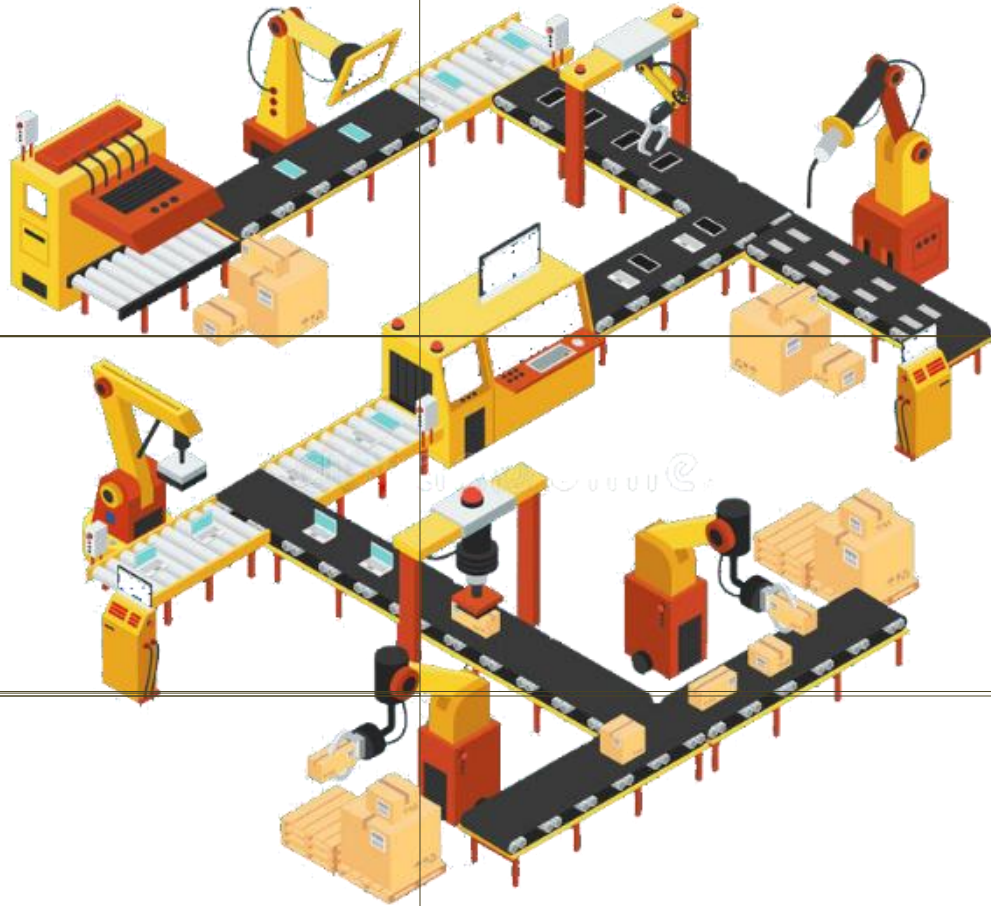
today's workflows

static, rigid, manually engineered



today's workflows

inflexible



changes to workflow
or market demand
require **re-engineering**
and **re-building**

what if automated workflows could
adapt to ever-changing environments?



improved workflows

embrace flexibility

1

2

3

4

5

BULK HANDLING

DEBULK

BUFFER

PICK

SORT

LOAD



200%

increase in productivity

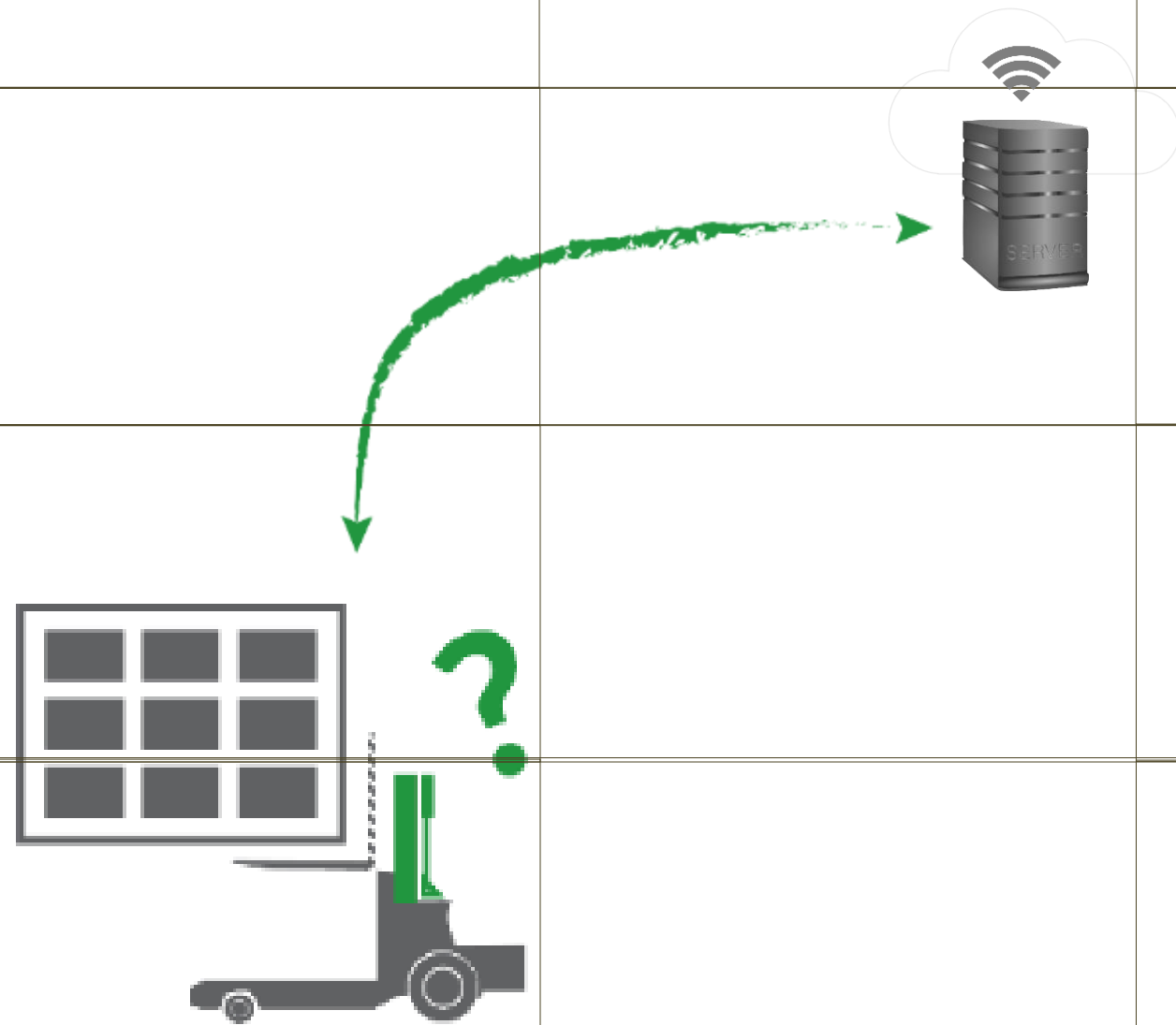


after decreasing non-value-added travel by

80%

improved workflows

embrace machine learning



robots that learn
and adapt *in situ*



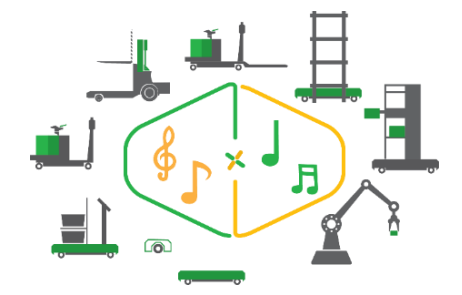
improved workflows

embrace orchestration




source: FedEx

orchestrate & optimize
evolving **mix of diverse
robots** and humans that
execute workflow



what happens when you try to remove
the human factor altogether?



“Yes, excessive automation at Tesla was a mistake. To be precise, my mistake.

Humans are underrated.”

A horizontal green brushstroke underline that starts wide on the left and tapers to the right, positioned below the text "Humans are underrated.”

- Elon Musk

a **hybrid** model for physical work

{
abstract reasoning
emotional intelligence
strategic creativity
}

+

{
precision
efficiency
data collection
}

= an **adaptable** future

the human factor



abstract **reasoning**
emotional **intelligence**
strategic **creativity**



the robot factor

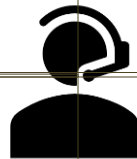
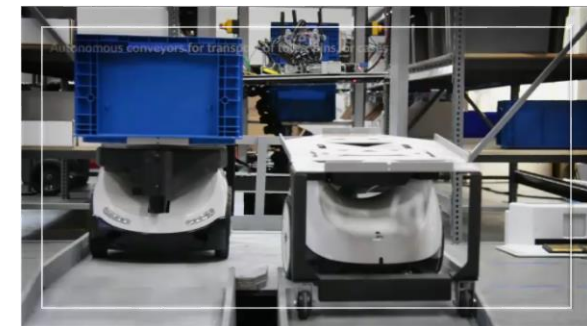
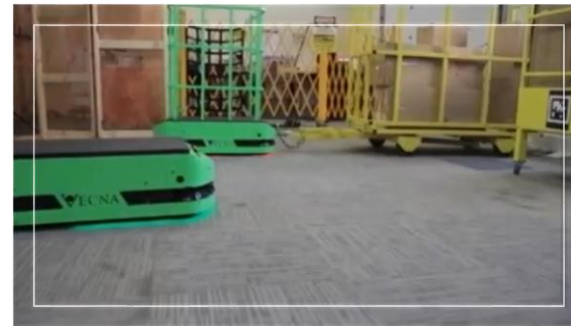
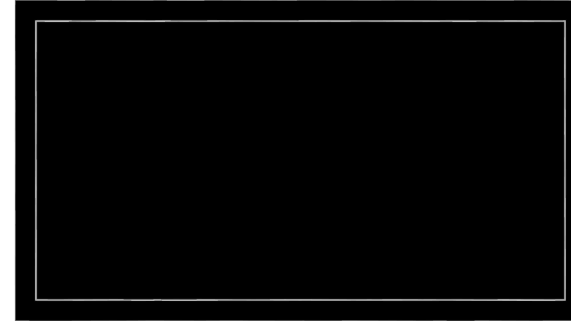
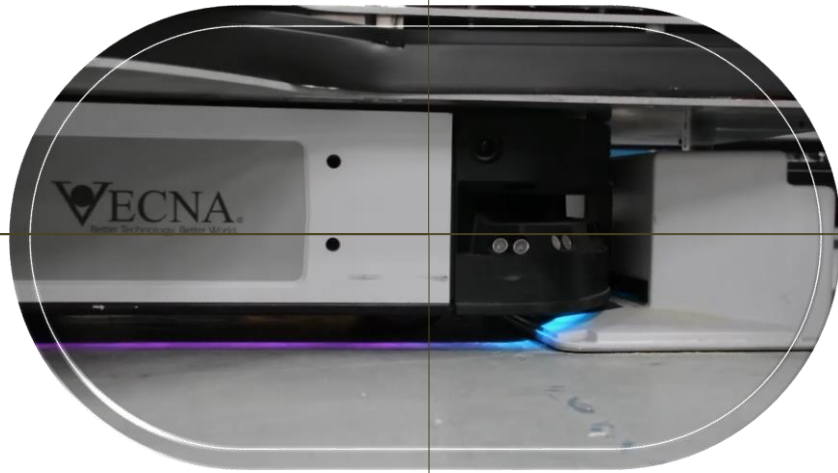


precision
efficiency
data collection



optimized workflows

combine the individual strengths of humans and robots



sustainable partnerships include parties
whose values and visions match



one size does not fit all

embrace responsible partnerships

working with a wide range of robots



to establish standards of interoperability

FOUNDING ORGANIZATIONS



FOUNDING PARTNERS



ANNUAL PARTNERS



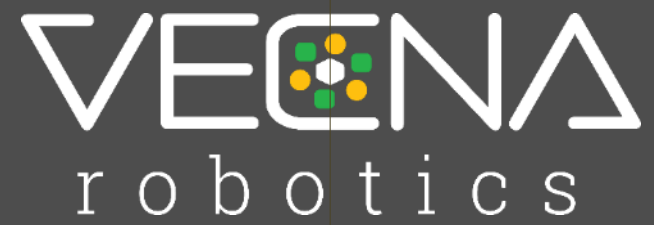
one size does not fit all

embrace interoperability

a wide range of robots in a fleet



will cover more areas of automation
and work well together



Further inquiries, please contact our team

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