



Flexible Palletizing Solutions

With Collaborative Robots

 UNIVERSAL
ROBOTS

 miniPAL

INDUSTRIAL ROBOTS



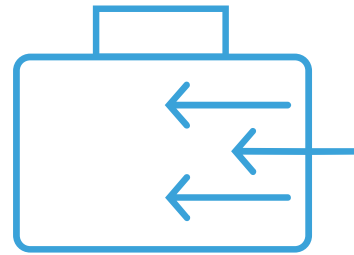
COLLABORATIVE ROBOTS



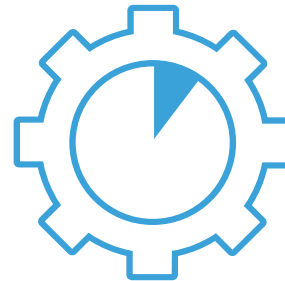
THE FUTURE IS COLLABORATIVE

3/5

3/5 manufacturers say there's a skill shortage



New jobs created from companies "reshoring"



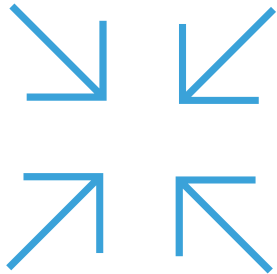
Only less than 10% of jobs are fully automatable

50%

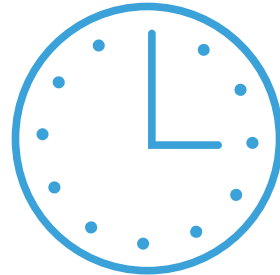
50% increase in productivity with no job losses

ACHIEVE MAXIMUM PRODUCTIVITY

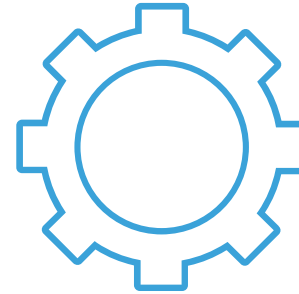
by merging human expertise with technological competency
without compromising quality



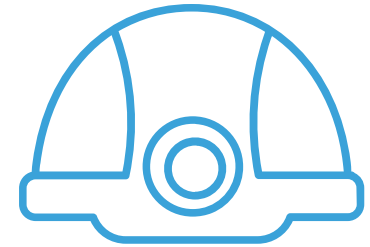
Less space
needed



Reduce human
idle time



Free staffs' time for
high value work



Improve worker
safety

BENEFITS OF A COLLABORATIVE ROBOT (1/2)

- **Safe** UR collaborative robots (cobots) are safe. With all the safety features and regulations being updated all the time they are even more equipped for present day reality.
- **Cost-Efficient** If the UR cobot can eliminate the amount of rejected product or poor quality product due to human error the investment is well worth it.
- **Flexible** The UR cobot can be moved to another application very easily.
- **No Guarding** The UR cobots have power and force limiting capabilities that allows for a reduction or elimination of impact when in contact with other objects like a human body.

BENEFITS OF A COLLABORATIVE ROBOT (2/2)

- **Fast Payback** With the UR cobot coming in at an cost effective price and can work non-stop through every shift, the payback can be quite fast. The overall goal is to not eliminate workers, but help them with their process. As a general rule of thumb, the average payback for a UR cobot system is between 6-8 months.
- **Small Footprint** The UR cobot are designed to work alongside humans, so they are designed to be compact. This allows the end user to install the robot without major adjustments to their facility.
- **Easy Programming** It's as simple as 1-2-3. Show the UR cobot a couple of points to make it run. From there you can determine its perimeters and safety features to coordinate it safely with employees.

HUMAN OR ROBOT...WHY NOT BOTH?

Home Subscribe Submit Your News Support the VBJ Contact Us Cart

VANCOUVER · SW WASHINGTON
BUSINESS JOURNAL

We're your IT Department
IT Managed Services | Telecom | Copiers

HOME ▾ NEWS ▾ FOCUS ▾ OPINION ▾ EVENTS ▾ PUBLICATIONS ▾ ADVERTISE ▾ MORE ▾ SUPPORT THE

Home > Focus > Education & Workforce Development > Coworker or robot – why not both?


Focus Education & Workforce Development

Coworker or robot – why not both?

Collaborative robots, or cobots, are becoming an affordable, low-risk warehousing solution

Jan 31, 2020

👍 Like 35



Imagine po
When business opportunity calls, OnPoint delivers. BANK COM LOCAL
Get started at onpoint
OnPoint
Federally insured by NCUA

UP CLOSE



HUMAN-ROBOT COLLABORATION IS 85% MORE PRODUCTIVE

than humans or robots alone

Source: MIT research data on Financial Times article "Meet the cobots: humans and robots together on the factory floor" on 5th May 2016

WHO WE ARE



PALLETIZING PORTFOLIO



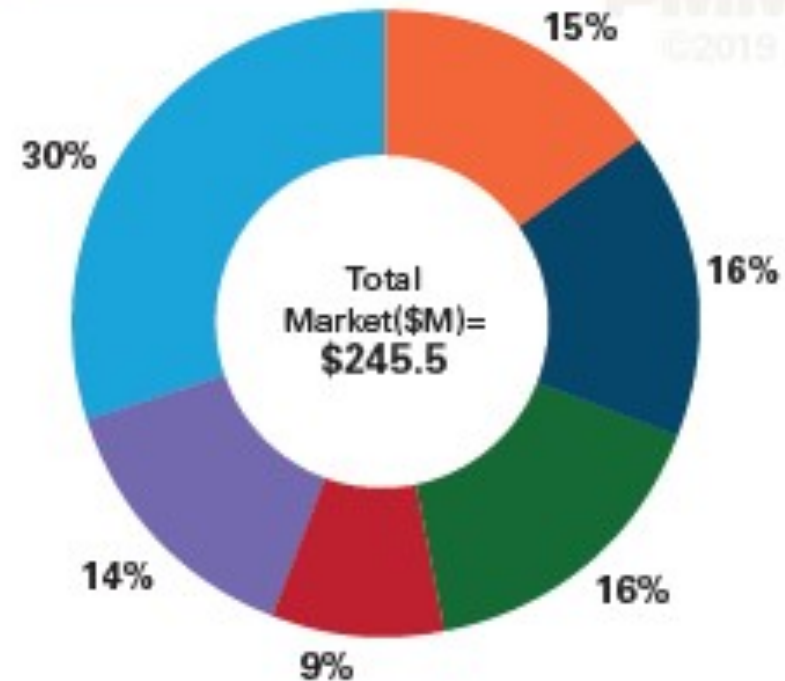
INDUSTRIAL PALLETIZING INDUSTRY

Palletizing / Depalletizing Machinery Shipments by Industry Sector, 2018

Table 1.86 (Millions of Dollars)		
	2018	Share in 2018
Beverages	\$37.1	15.1%
Food	\$38.6	15.7%
Household, Industrial & Agricultural Chemicals	\$40.9	16.7%
Personal Care, Toiletries & Cosmetics	\$21.9	8.9%
Pharmaceuticals	\$33.6	13.7%
Other End-User Sectors	\$73.3	29.9%
Grand Total	\$245.5	

Data issued: August 2019
Source: IHS Markit

Figure 1.86














THE FUTURE IS FLEXIBLE PALLETIZING



PALLETIZING MATRIX

PALLETIZER SPEED RANGES

	20 CPM	40 CPM	60 CPM	80 CPM	100 CPM	120 CPM	140 CPM	160 CPM	180 CPM	200 CPM
High Level	 HL2000	 HL4200	 HL6200			 HL7200		 HL9200		
Floor Level	 FL1000	 FL2000	 FL3000	 FL6200						
Robots	 Ai700	 Ai1800								

COBOT PALLETIZING OPPORTUNITIES



PHARMA



COSMETIC



ELECTRONICS



CONFECTIONARY



FOOD & BEVERAGE



QUICK PAYBACK

AVERAGE PAYBACK IS BETWEEN
8-10 MONTHS, DEPENDING ON
APPLICATION AND INDUSTRY

EFFICIENT SETUP

TAKES LESS THAN A FULL DAY;
PLUGS INTO 110V AC WALL
POWER

EASY OPERATION

NO PREVIOUS PROGRAMMING
EXPERIENCE REQUIRED

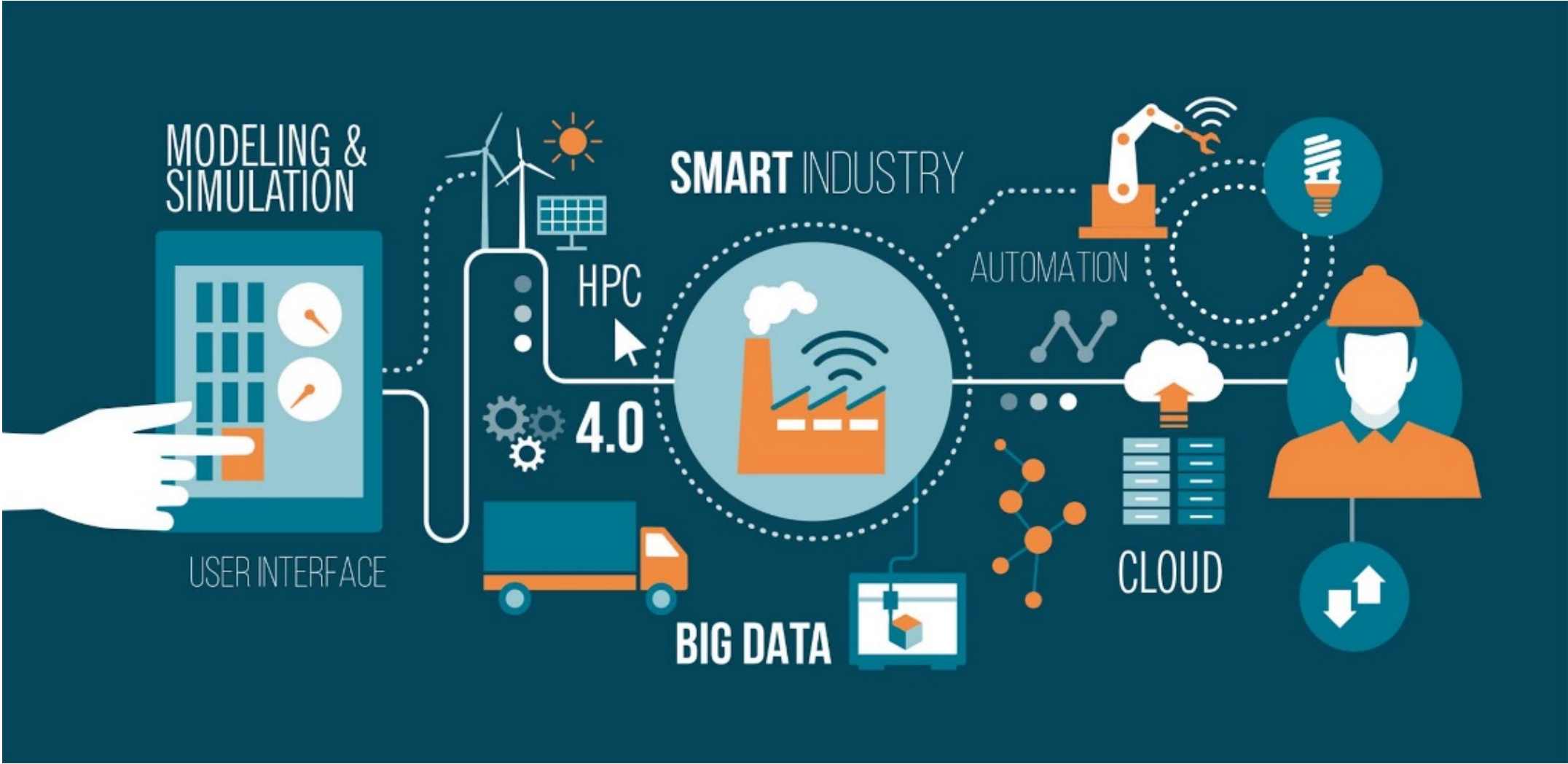
FLEXIBLE DEPLOYMENT

OUR MOBILE SOLUTION IS EASILY
MOVED AND RE-DEPLOYED TO
NEW PROCESSES

NO GUARDING REQUIRED

A VAST MAJORITY OF COBOT
APPLICATIONS WORK NEXT TO
HUMANS WITHOUT PERIMETER
GUARDING REQUIREMENTS

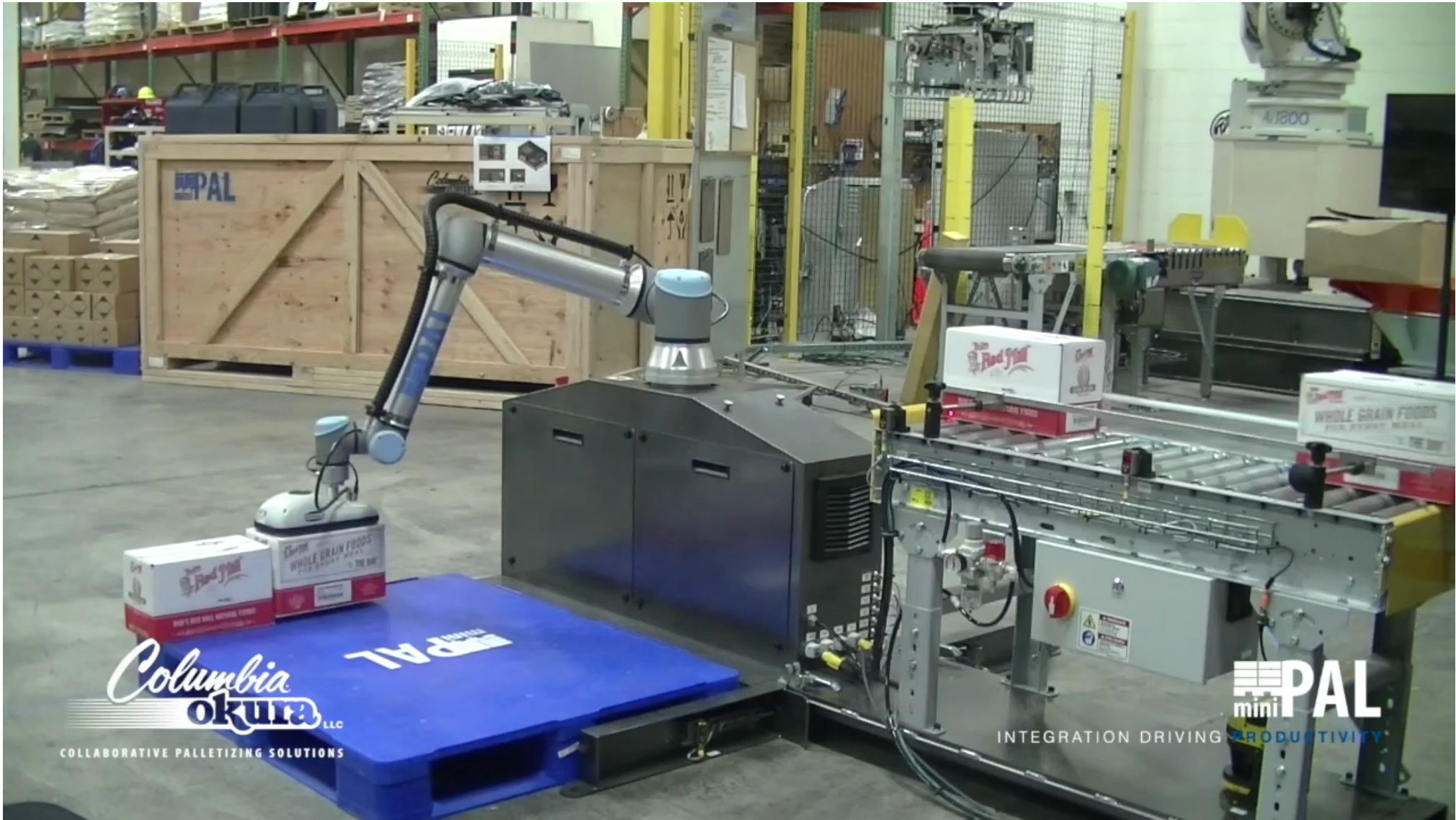
FUTURE



THINK BEFORE YOU BUY

- Define your application
- Do a risk assessment
- Calculate ROI
- Understand the trade-offs





**Columbia
okura** LLC
COLLABORATIVE PALLETIZING SOLUTIONS

miniPAL
INTEGRATION DRIVING PRODUCTIVITY

QUESTIONS