

# iiQKA

## Robots for the People

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KUKA Roboter Italia SpA





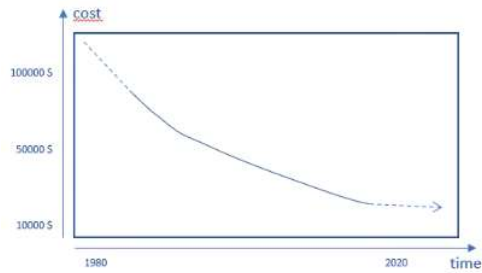
Robot-based automation is a megatrend.  
We see opportunities.

- Robots as **intuitive to use** as smartphones
- Holistic **customer experience**
- **Accessible** hardware
- **Simplified** business interactions
- Easing the path for both **experts and newcomers**

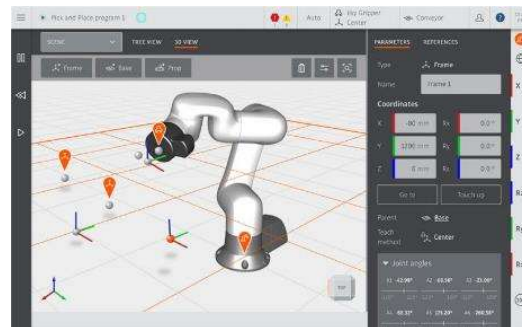


What are the **first steps** KUKA takes with iiQKA.OS and the iiQKA Ecosystem?

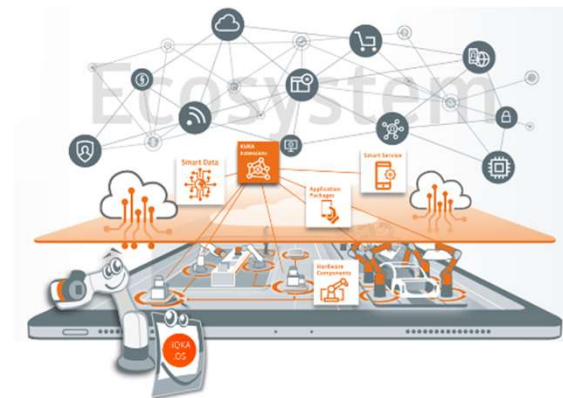
Low-cost, accessible **hardware**



End-user **usability**: Easy setup, easy config, easy programming, easy system extension



**Ecosystems** for developer and end-user usability





# The LBR iisy family



## Diapositiva 5

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**LJ0**

6/8 kg variant is missing

Landherr, Johannes; 2023-02-09T12:40:09.604

**VPO 0**

It's better to explain if not customers think that we have 5 differnt mechanics..already happened

Vaniglia, Paolo; 2023-02-09T14:28:33.113



## LBR iisy The Commander

### [+] Basic features

- Easy to use
- Safe Enabling switch (both sides)
- Click Wheel (Touch-Up)
- Cancel Button
- ISO Flange
- Handle for one-handed smooth handguiding
- Internal Energy Supply (I/O, Gigabit)
- LED ring for status indication





# LBR iisy family Technical Data



	LBR iisy 3 R760	LBR iisy 6 R1300	LBR iisy 8 R930	LBR iisy 11 R1300	LBR iisy 15 R930
Number of joints	6	6	6	6	6
Payload	3 kg	6 kg	8 kg	11 kg	15 kg
Reach	760 mm to flange plate	1300 mm to flange plate	930 mm to flange plate	1300 mm to flange plate	930 mm to flange plate
IP rating	IP 30	IP 54	IP 54	IP 54	IP 54
Ambient temperature	5 °C to 45 °C	0 °C to 45 °C	0 °C to 45 °C	0 °C to 45 °C	0 °C to 45 °C
Internal Energy supply	1x Gbit Bus, 8 wires (I/O, Power line)	1x Gbit Bus, 8 wires (I/O, Power line)	1x Gbit Bus, 8 wires (I/O, Power line)	1x Gbit Bus, 8 wires (I/O, Power line)	1x Gbit Bus, 8 wires (I/O, Power line)
Performance Level	Level d Cat3 (same as LBR iiwa)	Level d Cat3	Level d Cat3	Level d Cat3	Level d Cat3
Cleanroom version	-	-	-	10/23	10/23
Mounting position	Floor, Ceiling, Wall	Floor, Ceiling, Wall	Floor, Ceiling, Wall	Floor, Ceiling, Wall	Floor, Ceiling, Wall
Weight	23 kg	46.3 kg	43.2 kg	46.3 kg	43.2 kg





**smart\_3D-View**

<https://www.youtube.com/watch?v=8vbrrlShoPI>



**smart\_programming makes automation easy**

<https://www.youtube.com/watch?v=kQ17RG103a8>

## Application Example – Customer Success Stories

### Description

- **Application Typology:** **Quality inspection** of electronic boards. Thanks to a camera, connected to an external PLC, the LBR iisy 3 detects defects and faulty assembled parts on electronics boards. The LBR iisy communicates via IOs with the PLC, that selects which electronic board is good and which is bad.
- **Customer needs:** Easy way to program by operator and to change the shape of the electronic boards to be checked, easy reaction to faults and robot stops



### Winning points

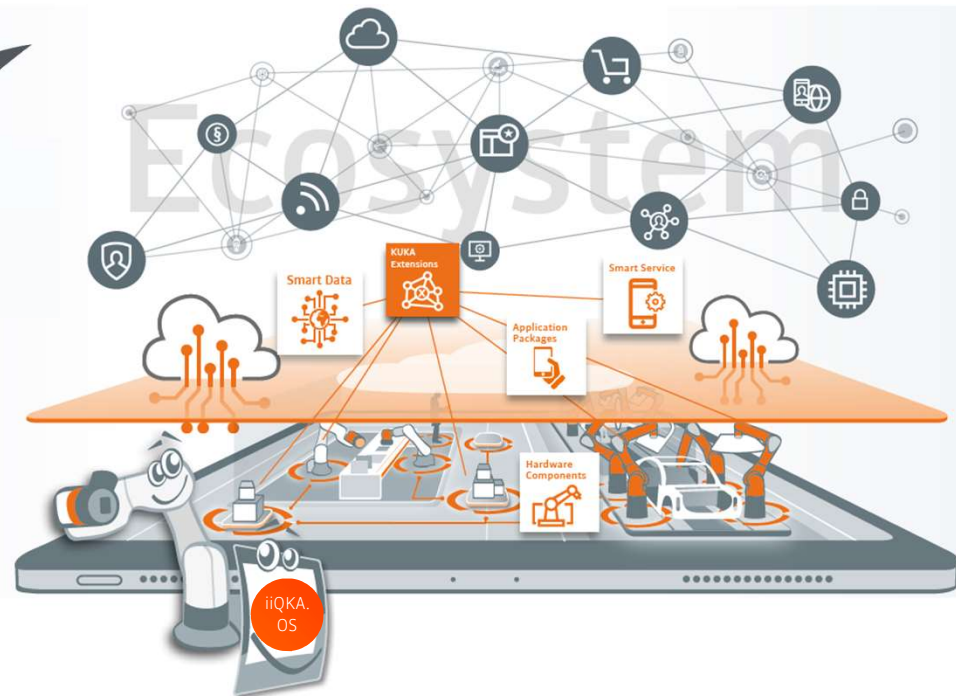
- Easy programming without any external software
- Commissioning of the LBR iisy in 30 min
- Program developed in 1 hour
- Gripping system integrated in the programming



## iiQKA Ecosystem – What are benefits for consumer and provider

### Benefits as a **consumer**

- ✓ Ease of use – from buying and installing to programming and operating
- ✓ Smart Extension – Finding the right 3rd party component and easy installation of solution packages
- ✓ Reduction of engineering effort & time



### Benefits as a **provider**

- ✓ Extend customer reach
- ✓ Use of KUKA Sales & Support Channels
- ✓ Combine technology, knowledge and products of multiple ecosystem partners
- ✓ Participating in the iiQKA community and increase revenue



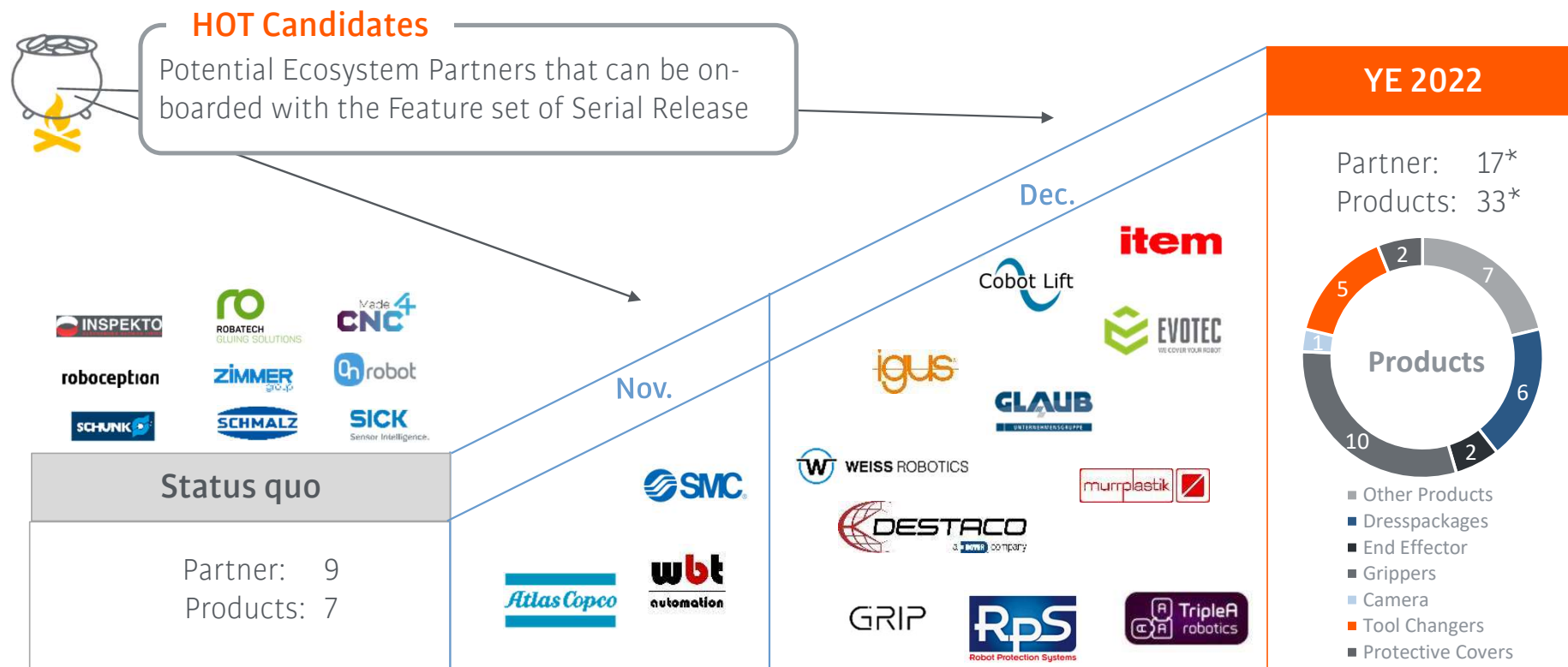
## iiQKA Ecosystem Keystone Partners



<https://my.kuka.com/shop#/it/category/a1Z1i000003XCAPEA4/iiQKA-Ecosystem> → To check any new components



## iiQKA Ecosystem – Onboarding of new 17 partners and 33 extensions until YE 2022 planned



\* Development effort and available resources on Ecosystem partner side is not validated yet

## Diapositiva 12

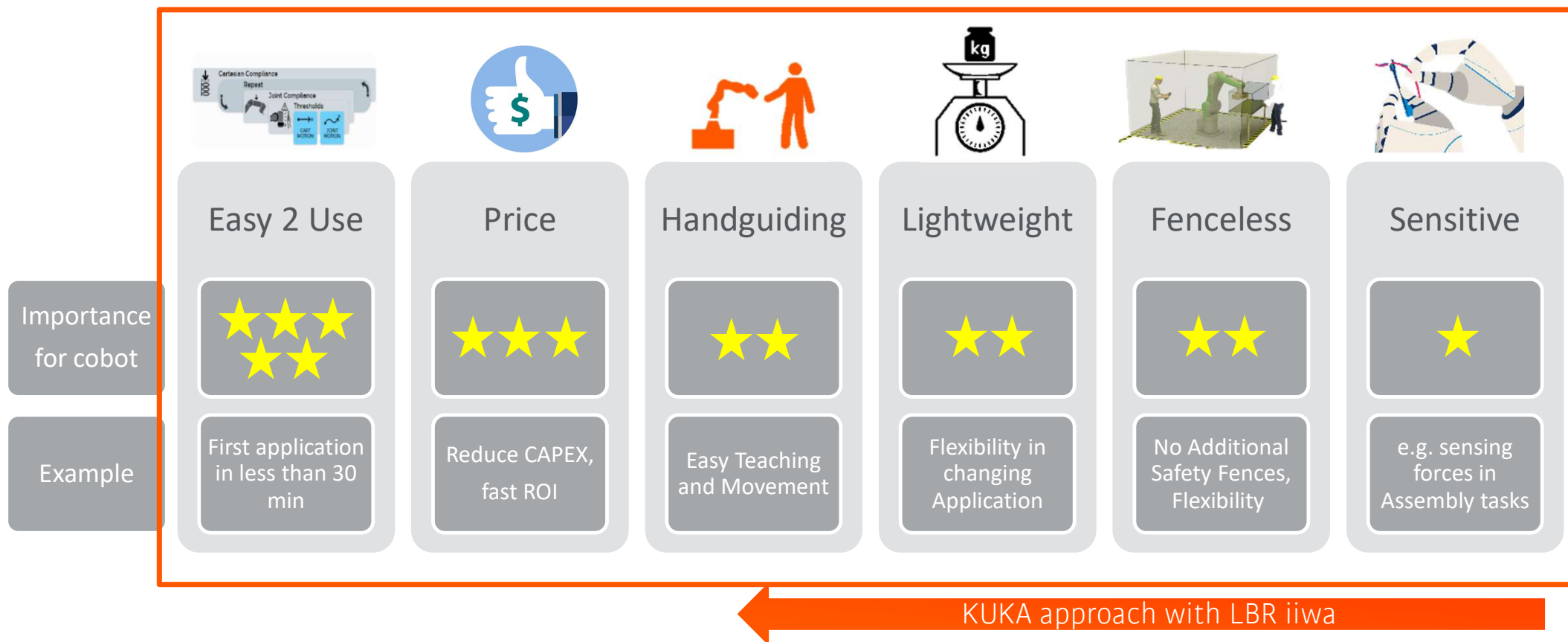
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**LJ0** Please contact Börn from eco team  
Landherr, Johannes; 2023-02-09T12:55:42.045

**VP0 0** already done  
Vaniglia, Paolo; 2023-02-09T13:26:04.275



## Cobot, iiQKA reaches the following market requirements



## Diapositiva 13

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**LJO** I would not mention UR directly if this presentation goes to the customer

Sensitivity is missing...

Landherr, Johannes; 2023-02-09T12:41:43.902

**VPO 0** but will come in october....

Vaniglia, Paolo; 2023-02-09T13:34:36.773





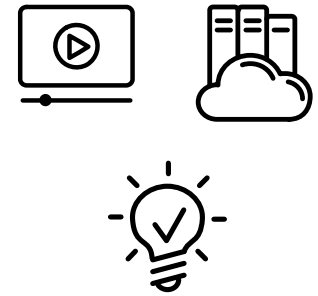
## iiQKA Solutions

Enabling non-experts to start into automation easily; improving the process for experts

Today



iiQKA.OS



**Biggest benefit for non-experts**  
(from *DAYS* to *HOURS* of time)

**Experts also benefit**  
(from *HOURS* to *MINUTES* of time)



# The largest Robotics showroom in Italy – for training and customer meetings



# KUKA



## Showroom at KUKA Italia

9 video • 159 visualizzazioni • Aggiornata 3 giorni fa



In this playlist we explain each of our robotic applications presented in the showroom of KUKA Italia.












KUKA - Robots & Automation

ISCRIVITI

[https://www.youtube.com/playlist?list=PLcmh-lxe\\_PW4\\_17pxQ7yq3ECp4I8nyJzk](https://www.youtube.com/playlist?list=PLcmh-lxe_PW4_17pxQ7yq3ECp4I8nyJzk)



-  **Avvitatura automatizzata con robot KUKA KR AGILUS e sistema Atlas Copco**  
KUKA - Robots & Automation
-  **L'intelligenza Artificiale incontra il robot collaborativo KUKA LBR iiwa**  
KUKA - Robots & Automation
-  **Programmazione robot offline con KUKA.Sim e simulatore di linee di produzione in realtà virtuale**  
KUKA - Robots & Automation
-  **Sistema di bin-picking con robot KR CYBERTECH, sistema di visione ISS e robot mobile KMR iiwa**  
KUKA - Robots & Automation
-  **Machine Automation con KUKA mxAutomation per una facile integrazione con controlli numerici e PLC**  
KUKA - Robots & Automation
-  **Come realizzare una cella di robotica collaborativa con cobot KUKA LBR iiwa**  
KUKA - Robots & Automation
-  **Pallettizzazione leggera con robot KR CYBERTECH-2 e AIRSKIN per maggiore sicurezza**  
KUKA - Robots & Automation
-  **Robotica medicale con robot KUKA LBR Med e HIFUSK: chirurgia ad ultrasuoni**  
KUKA - Robots & Automation
-  **Pick & Place ad alta velocità con robot KR SCARA e controllo KR C5**  
KUKA - Robots & Automation



## KUKA Customer Stories – 3 Marzo @ KUKA Italia



Home > Azienda > ... > Eventi e fiere > Customer Stories

### Customer Stories

Venerdì 3 marzo KUKA Italia accoglierà il pubblico presso la sede di Grugliasco TO per condividere i più interessanti percorsi di successo raccontati in prima persona dai clienti.



**KUKA**



The journey has just started, stay tuned for more

