



Cobot o Collaborazione “ibrida”: cos’è meglio per l’industria?

KUKA Roboter Italia SpA

Alberto Pelleri

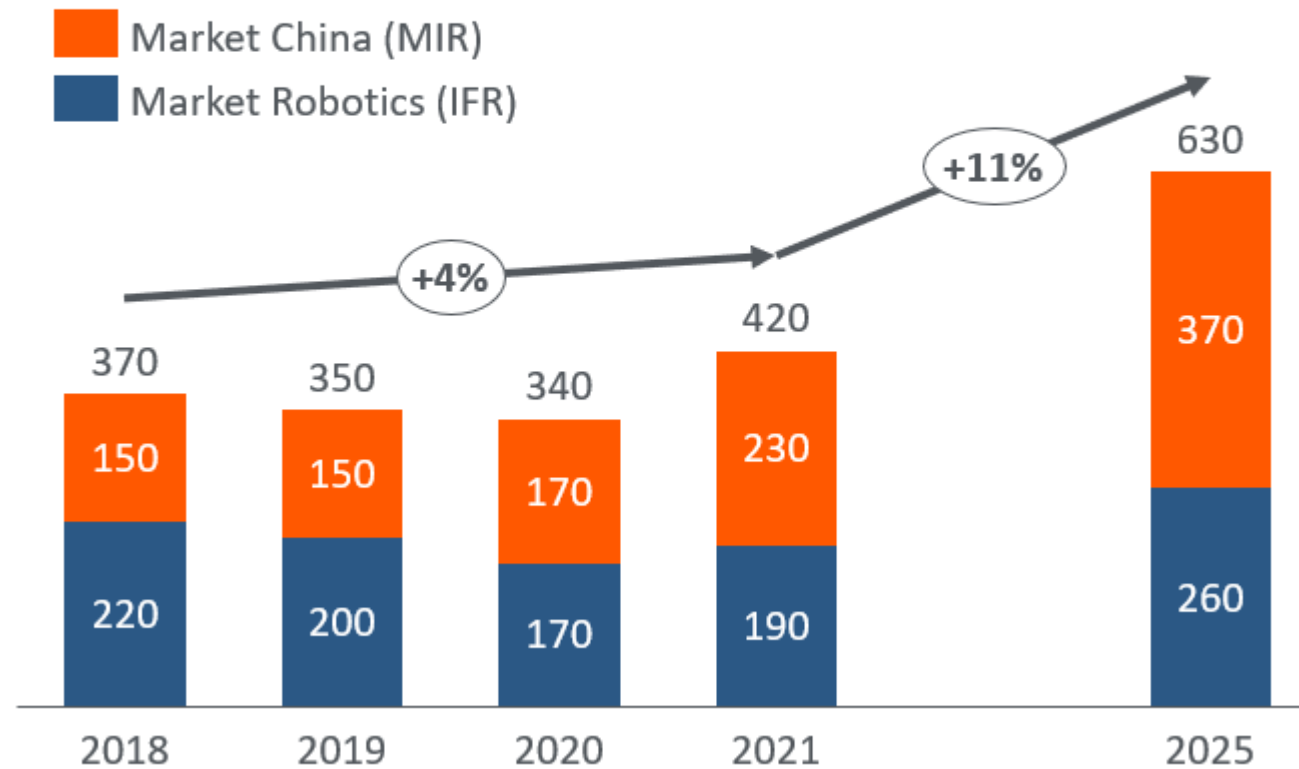
Director Strategy & Marketing



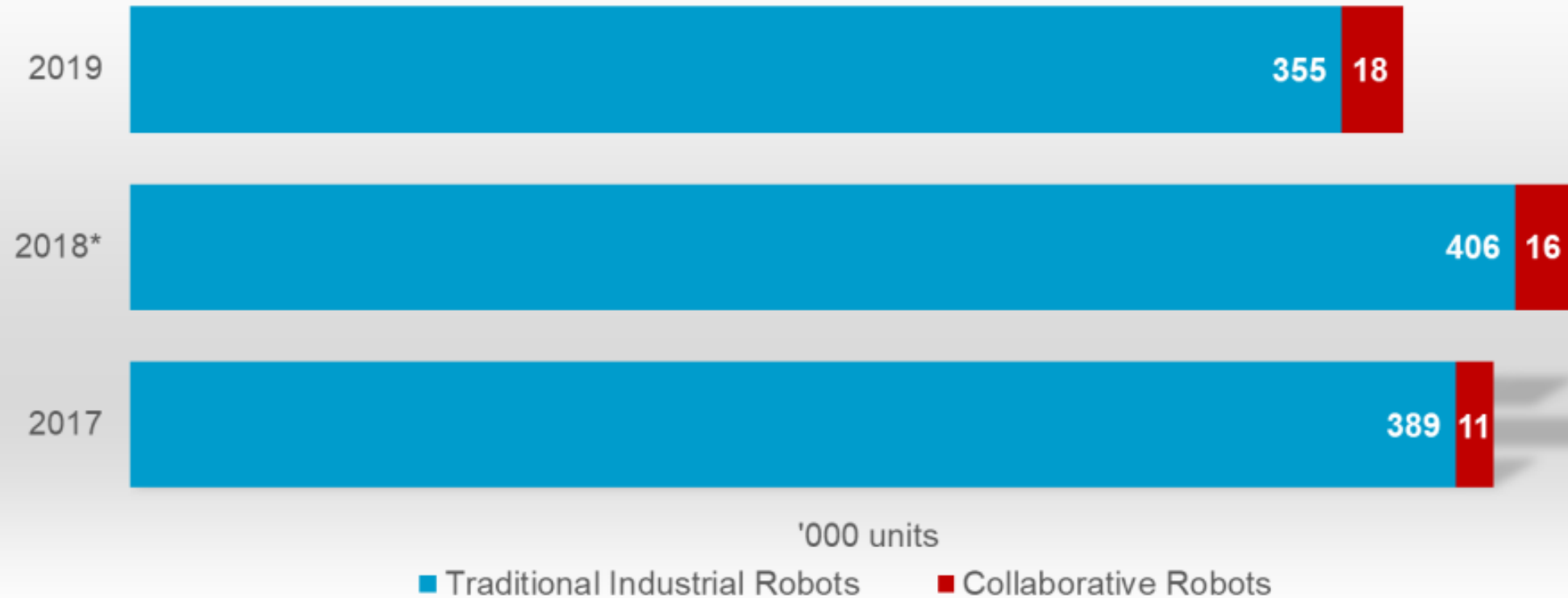


Global Robotics Market (6-axis / SCARA / DELTA)

in k units



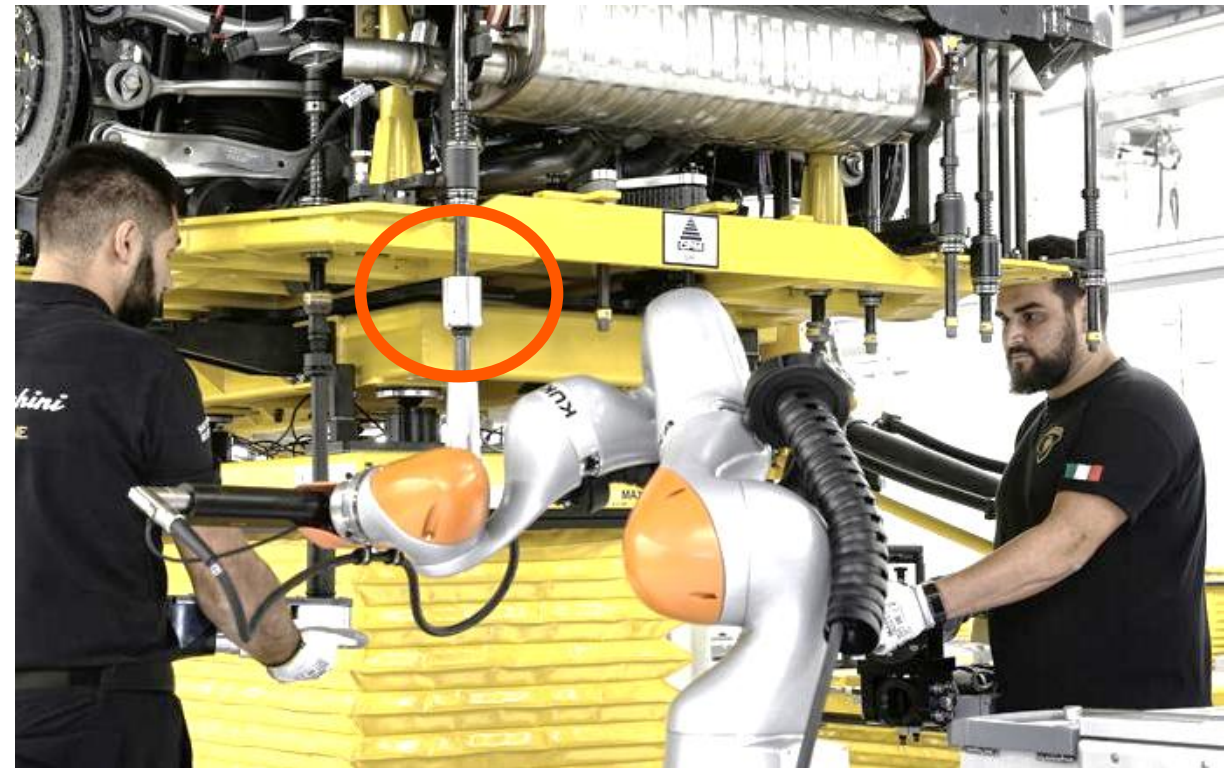
Collaborative and traditional industrial robots



*revised

Source: International Federation of Robotics

Mobile Collaborative Robotics in Automotive - reference

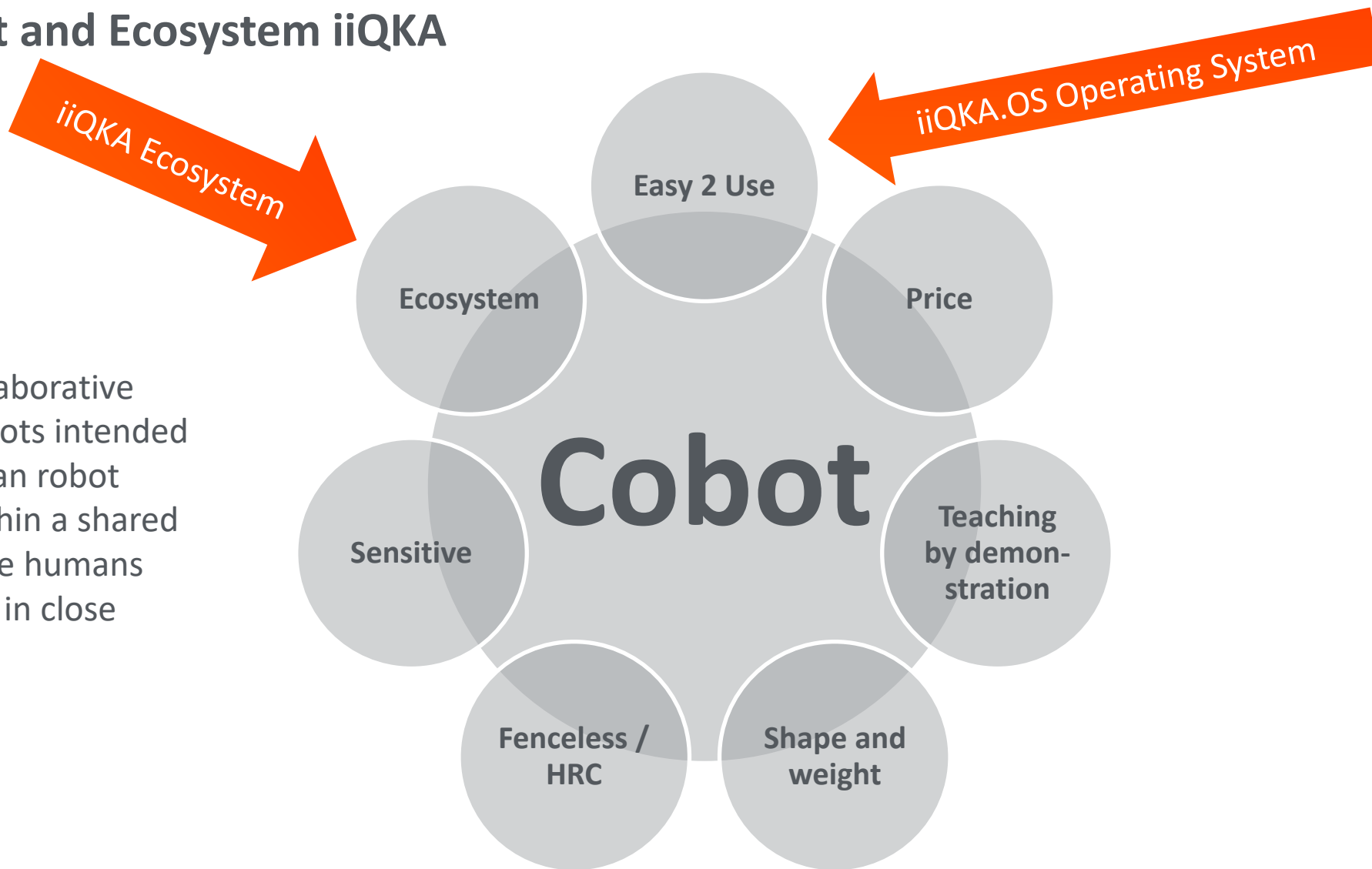


The NEW KUKA Cobot and Ecosystem iiQKA

LBR iisy 3 R760



Cobots, or collaborative robots, are robots intended for direct human robot interaction within a shared space, or where humans and robots are in close proximity.





smart_3D-View

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

Customer Video (Zollner):

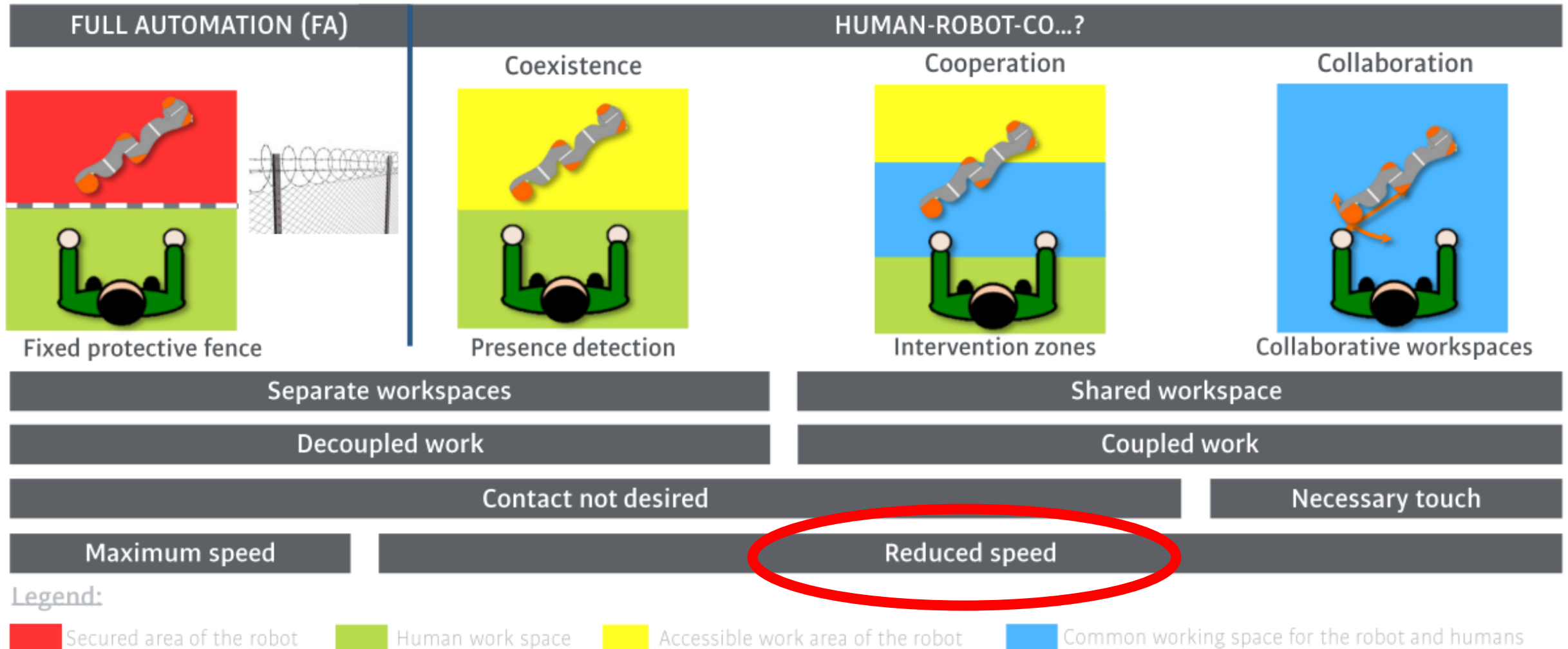
<https://youtu.be/GnfhgP-czpc>



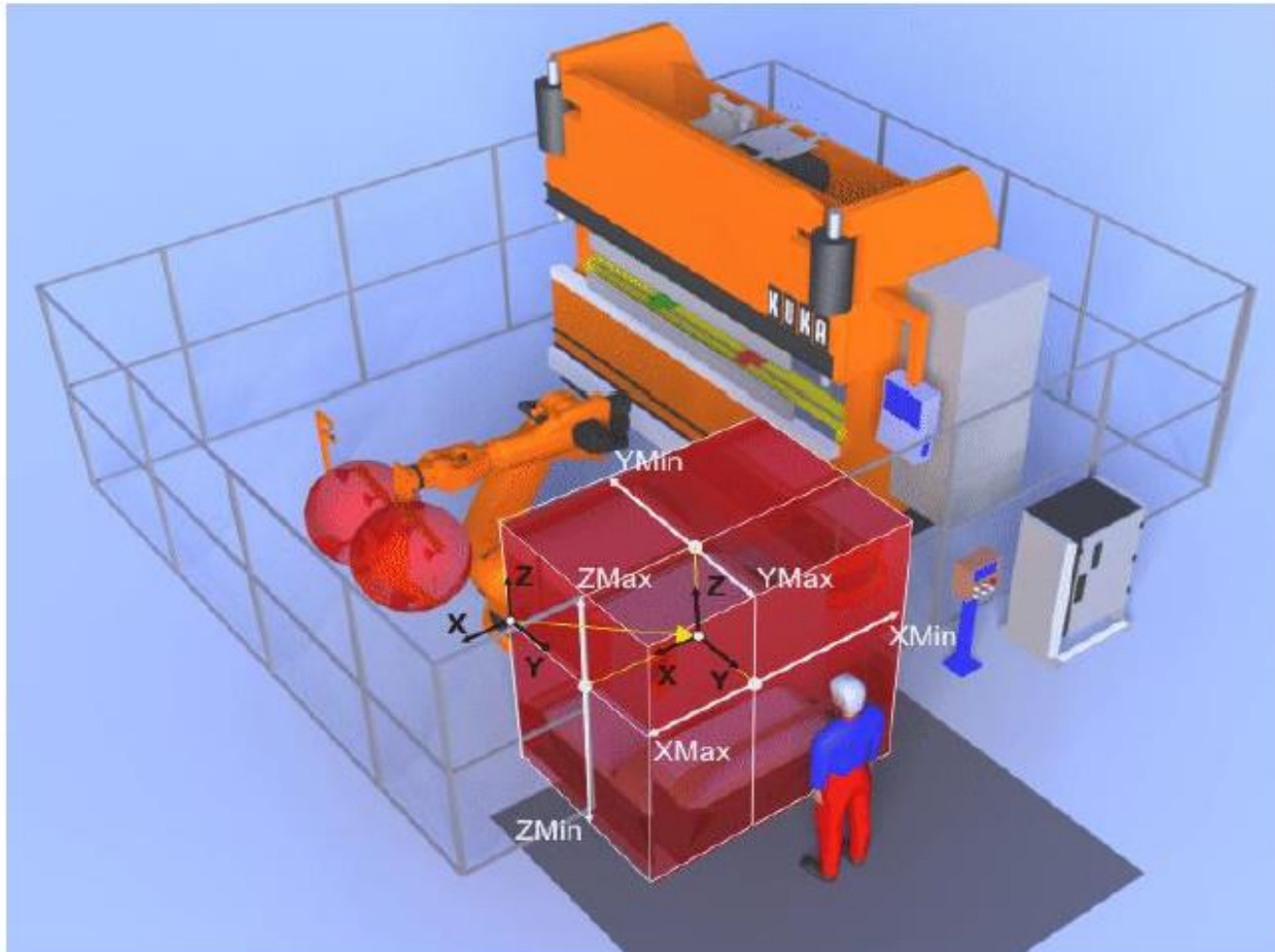
smart_programming makes automation easy

<https://www.youtube.com/watch?v=kQ1ZRG1O3a8>

LightPal | Levels of HRC (Human Robot Co...)



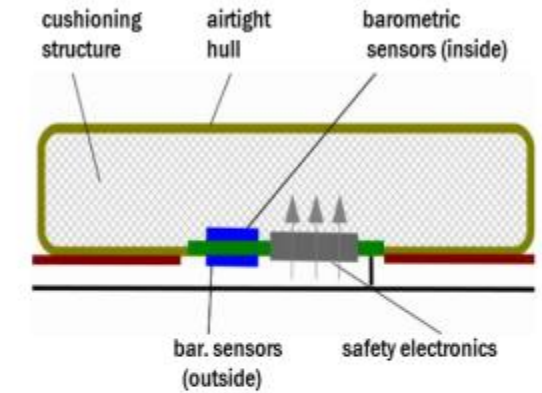
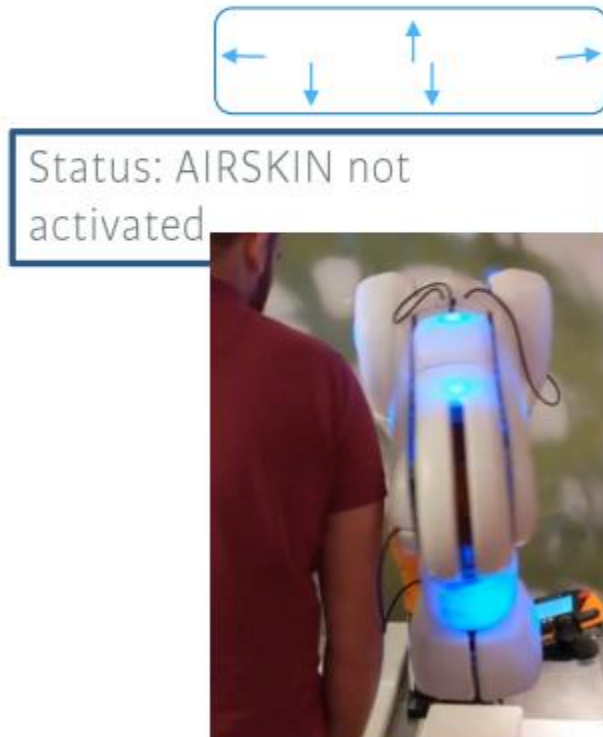
KUKA.SafeOperation | Cartesian spaces - Example



Cartesian properties of Space 3			
Reference system	\$WORLD		
		Space dimensions Length 2000 mm Width 1000 mm Height 1500 mm	
Origin			
X	0 mm	A	0 °
Y	1000 mm	B	0 °
Z	1000 mm	C	0 °
Distance to origin			
XMin	-1000 mm	XMax	1000 mm
YMin	-500 mm	YMax	500 mm
ZMin	-1000 mm	ZMax	500 mm



AIRSKIN is a soft, thin, airtight skin over a flexible dampening structure with smart safety electronics.
Contact-deformation of AIRSKIN changes air pressure inside (decrease of volume, increase of pressure).



Barometric sensors **monitor and detect air pressure change** and trigger emergency stop.
 A piezo-micro-pump creates a small overpressure of ~400 Pa in the pads, to detect leaks.

Collaborazione Ibrida

= safety
+ velocità
+ precisione
+ robustezza
+ affidabilità
+ payload/reach



+ PRODUTTIVITA'

Collaborazione quando richiesto



Grazie per l'attenzione



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Our most significant **Opportunities**
will be found in times of **greatest Challenges**