

# Digitalization in manufacturing



KUKA.Sim 4.1  
\_simulate to save time  
and improve competitiveness

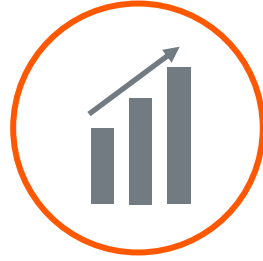
## KUKA.Sim 4

*...smart simulation to save time, increase revenue and improve competitiveness in a fast-moving market.*



### Save time

With KUKA.Sim, you can plan your system and robot concepts **quickly, easily and individually** for the needs of your customers



### Increase revenue

KUKA.Sim supports your sales team in **professionally presenting** your solutions to your customers and **increasing your sales success**



### Feasibility

Design robot work cell concepts in advance with **reachability checks** very **precise cycle times** for **increased planning reliability** and **competitiveness**



### Planning reliability

KUKA.Sim can be used with AddOn's for **Virtual Commissioning** to verify your cell processes and to increase your planning reliability



### Modular

KUKA.Sim is extendable in a modular way with **AddOn** for advanced **Modeling** and **Virtual Commissioning** or **ArcWelding**

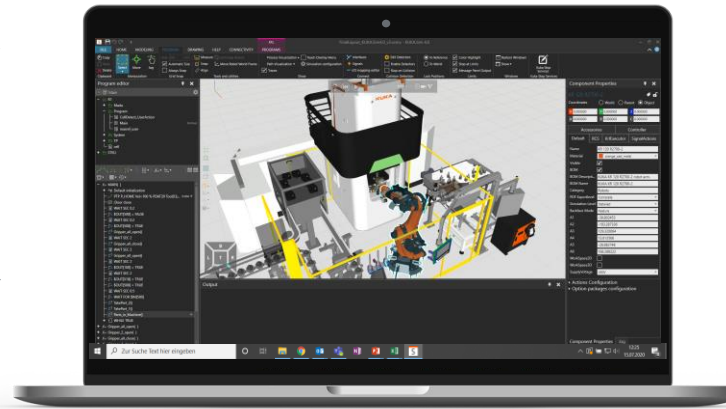


# Jobs and problems we can solve

What can we do in simulation?

## Jobs today in KUKA.Sim

... smart simulation software with powerful features



### Simulation

- Reachability checks
- [Collision detection](#)
- Teaching of robot motions
- [Cycletime measurement \(today RCS-Module\)](#)
- [eCatalog cloud library](#)
- Modeling-Light page for create own components
- Modeling-Expert page for advanced users \*\*
- [CAD-Importer \(STEP, CATIA, JT, ...\)](#)
- CAD-Export (STEP, JT, ...)
- [2D-Drawing-Export \(DWG, DXF\)](#)
- 3D Space Mouse Support

### Virtual Commissioning

- [PLC-Connectivity with „Siemens SIMATIC“ or „WinMOD“ \\*\\*](#)
- Advanced connection to Kuka.OfficeLite -> Exchange files and programs between Kuka.Sim 4 and Kuka.OfficeLite (\*.src | \*.dat)

### Application Programming (e.G. Arc)

- [Additional Path-Generator \\*\\*](#)
- [ArcWelding-Commands for Advanced Offline Programming \(.kop file necessary\) \\*\\*](#)
- CAD2Path
- RoboTeam
- Touchsense

### Offline Programming

- Robot machine data service (SCARA DELTA + KR L series)
- Support of spline motions (SPTP, SLIN)
- Logic programming (Interrupt, IF, ELSE, SWITCH, CASE, GOTO, FOR, WHILE, ...)
- Visualization of the RCS robot path
- [Powerful KRL-Editor and Interpreter for advanced offline programming, like on the real controller](#)
- R1 folder view, like on the real controller (\$config.dat view, ...)
- Import and Export KRL-files (\*.src | \*.dat)
- [Export WorkVisual project](#)
- [New I/O Mapping Editor](#)
- [Kuka Stop Service, swept volume \(Stop 0\)](#)

### Safety

- New SafeOperation-Editor
- [Configuration of Cell Spaces and Safety Zones \(visualization\)](#)
- Configuration of Tool Spheres
- XML-Import/-Export
- Add Kuka.SafeOperation file (.kop)
- Export WorkVisual project with SafeOperation configuration

### Material flow

- [NVIDIA PhysX Support \(for example conveyors, etc.\) \\*\\*](#)
- Grasp and release components

### Presentation

- Export: 3D-PDF's, 4K-Video's as AVI or MP4, Animation file for smartphone's and virtual reality headset's

\*\* modularly expandable with AddOn's -> additional license necessary



# New Features in KUKA.Sim 4.1

Compared to KUKA.Sim 4.0

## RoboTeam 3.1 functionality @ KUKA.Sim 4.1

RoboTeam support added for KSS 8.6 or higher

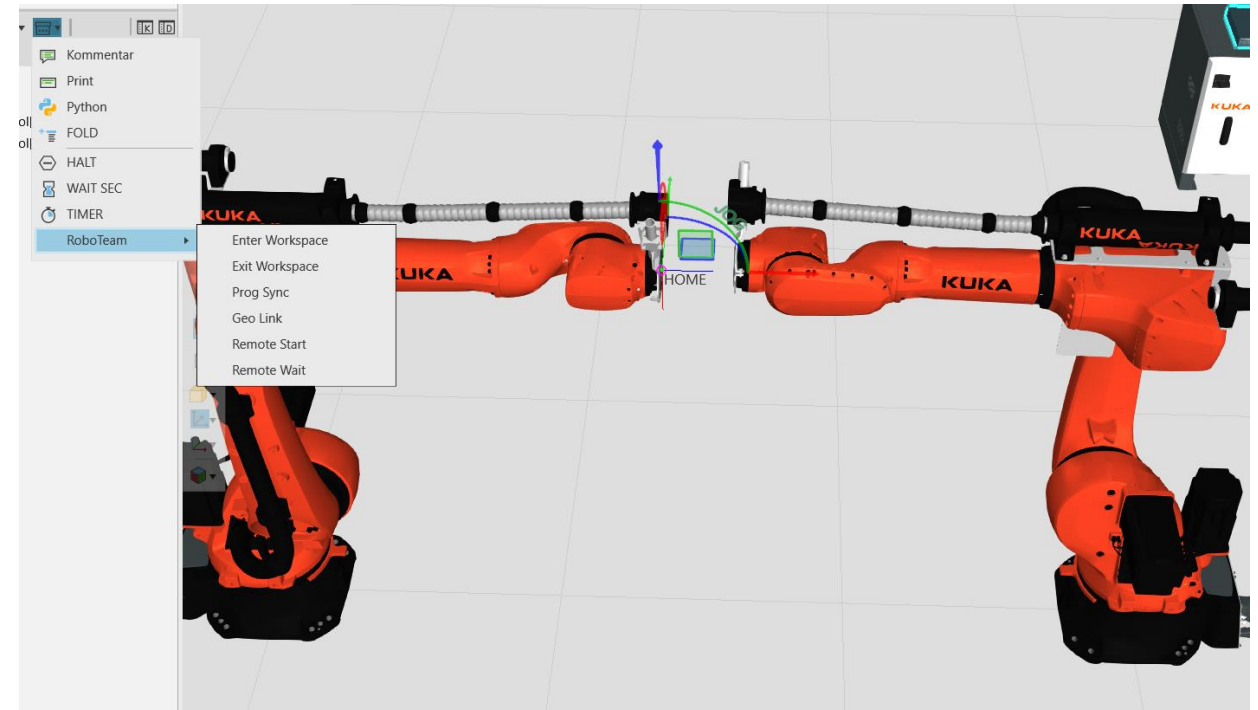
- Statement view
- Inlineform (ILF)
- KRL commands

Definition directly in the 3D Layout

- Configuration of Robo Team
- Program code generation
- WoV Project generation
- MADA generation for RCS module

3 Use cases

- Program Synchronisation
- Shared Workspaces
- × **Motion cooperation** → Shifted to August



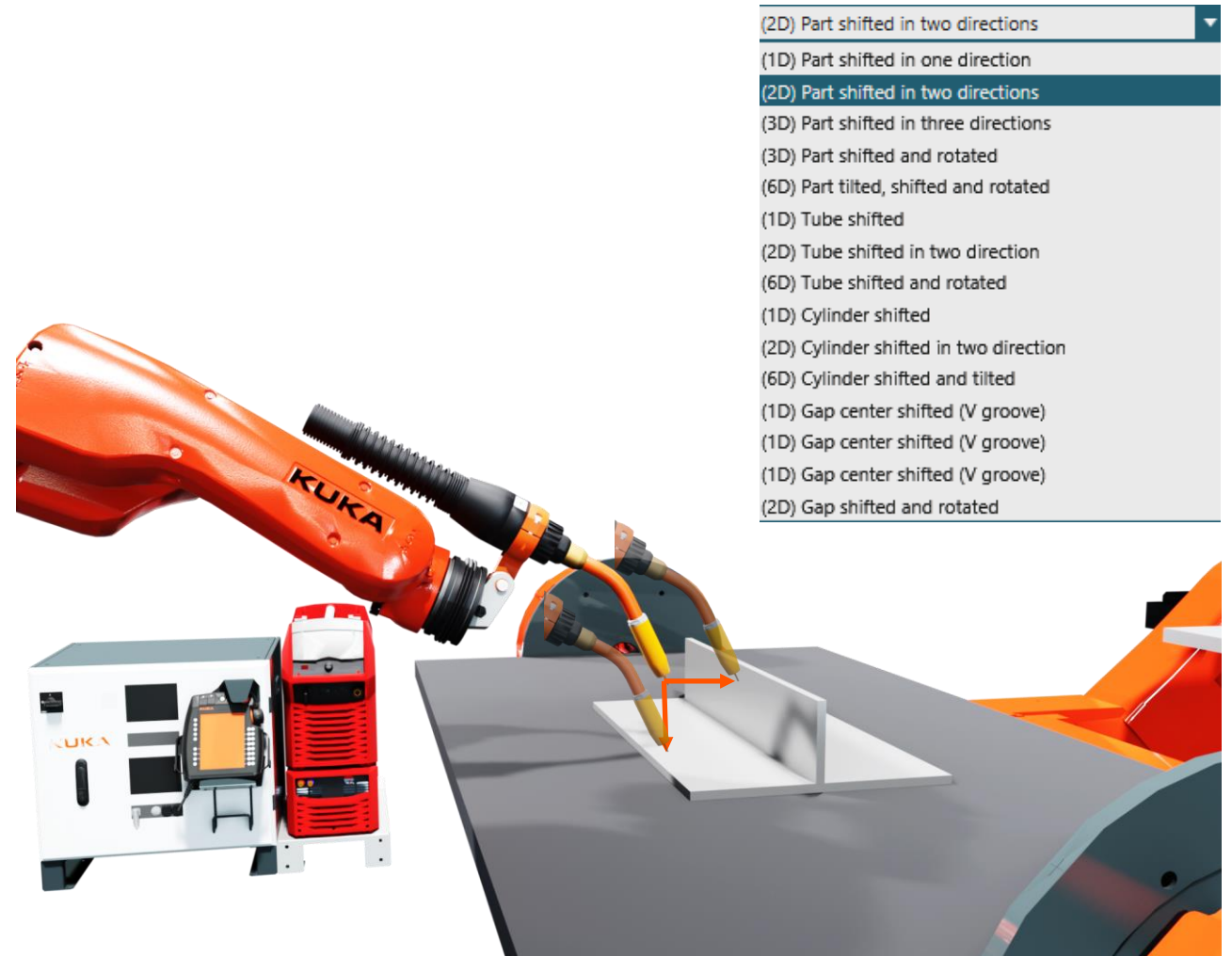
## TouchSense support

### Commands and wizards for

- Patterns
- Inner-Edge-Detection
- Etc...

### Search Statement for programming page

- Automatic command generation based on selected CAD geometry
- Automatic search movement generation based on CAD geometry for finding start position and orientation



## KP3-KP5 Positioner support @ KUKA.Sim 4.1

- Support for 3 and 5-axis positioners added
- MADA generation
- Base handling and programming

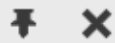




## Arc Improvements @ KUKA.Sim 4.1

- Weld path generation for spline motion
  - Generate and optimize spline motions (manual or automatic through Arc AddOn)
  - Preview Spline to allow for manipulation
- Visualisation of arc-actions
  - Direction of robot motion for ArcWeld-Statement
  - Coloring of segments (approach, search, seam, deoport)
  - Highlighting of path related actions (ArcOn-, ArcOff, ArcSwitch,...)





- OPC UA
  - Server
    - Simulation to server
    - Server to simulation
- SIMIT
- WinMOD Net



Connect to a new server or edit connection parameters.

Find Servers

Discovery server

Discovered Servers

Couldn't access the discovery service.

Connection

Server address

Use secure endpoint

Authentication

None

Username

Username

Password

Save password

Certificate

User private ke...

Password

Save password

Test Connection



### Variable monitoring window

Monitoring window

KR 8 R1440-2 arc HW

Name

**Import**  
Load variables from a ConfigMon.ini file.

Output Monitoring window



## Miscellaneous

- Improvements of Snapper for Path Generation
  - New edge detection variants
- Setting Tool/Base Command
- Print Safety Settings
- Improvements in devices view tree
  - Additional filters
  - Improved handling of tree entries
- Reintroduced python capabilities
  - Automatically generate programs using python scripting
- Support for fast measurement including "BRAKE F" simulation



# Basic simulation features (not new)

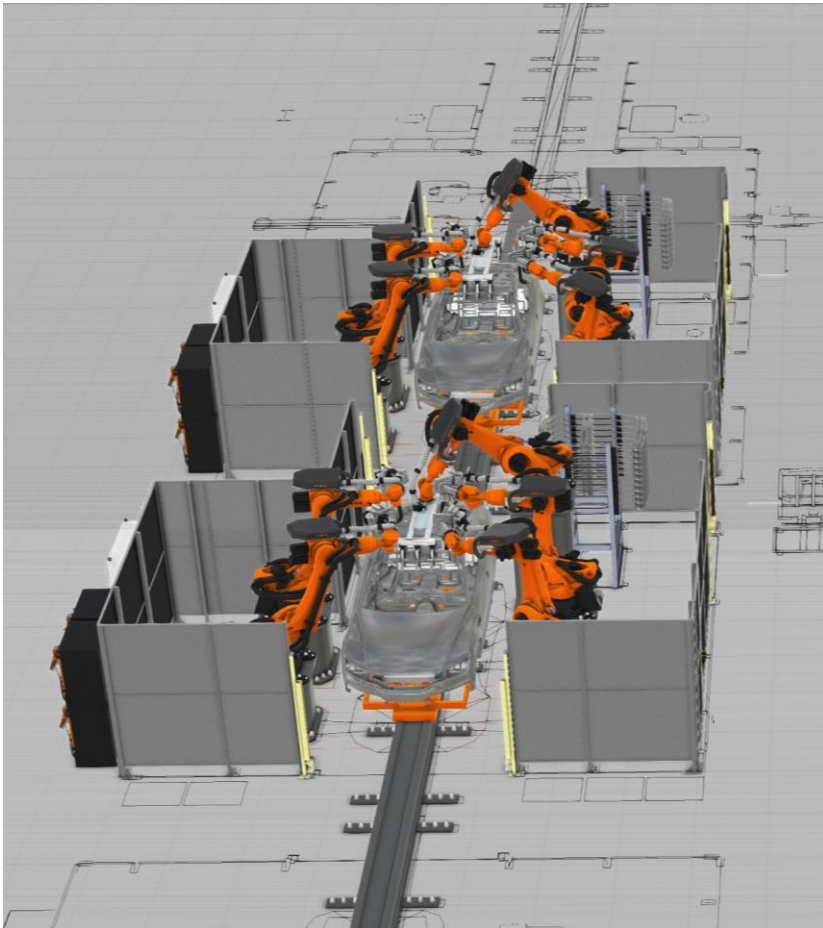
KUKA.Sim



## CAD Reader | Powerful & Fast



Save time



- 64Bit – High performance CAD support included
- 2D – RealDWG Autodesk – Import & Export
- 3D – Powerful bunch of CAD reader included\*

*... save time without additional cad reader costs from the 2D drawing to your vision in 3D*

\* detailed CAD reader information in the backlog

## Point Cloud Support



Reliability

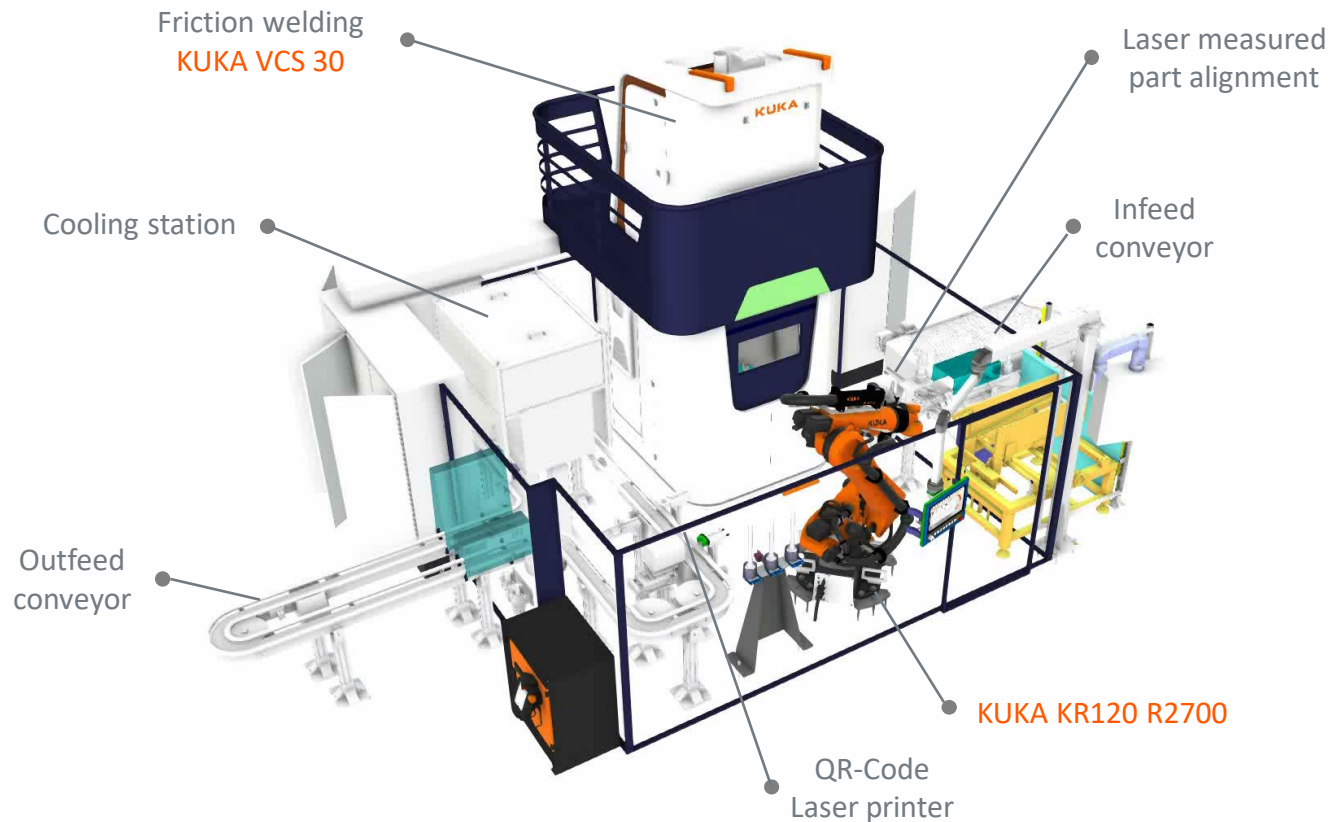
- 3D-Laser-Scan import
- Build your simulation on top
- Show your concepts to your customers

*... increase the planning reliability  
for competitiveness*

## Friction Welding | Robot simulation with material flow



Increase revenue



- Realistic robot motion execution
- Accurate cycle time prediction
- High resolution sales material
- Material flow animation\*
- IO signal exchange

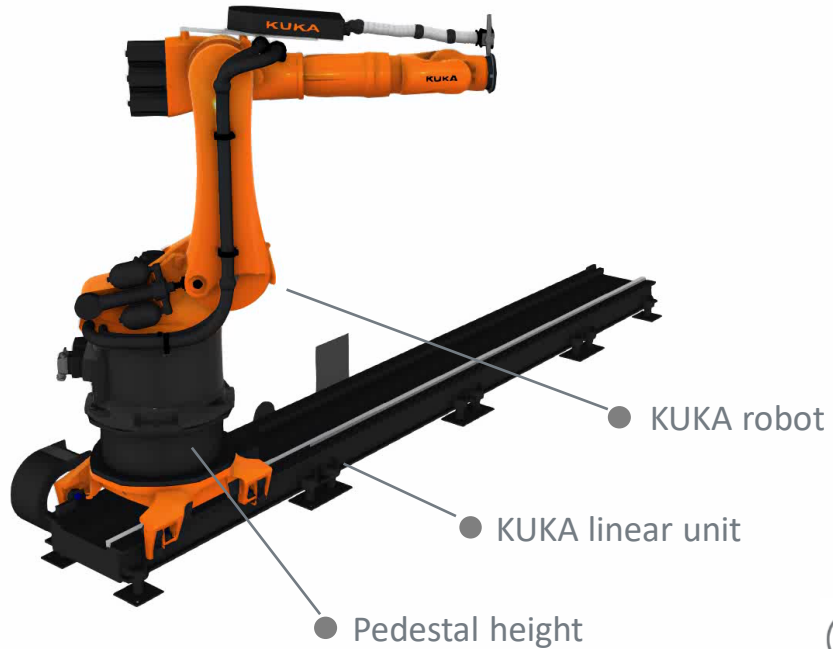
*... show the feasibility of your solution to convince your customer*

\*KUKA.Sim 4 includes a Modeling light with additional components wizards or advanced Modeling the KUKA.Sim Modeling AddOn is required.

## Cycle time prediction | Fast, simple & accurate



Save time



 8,820 sec

- MADA configuration out of the scene (e.g., robot on a track)
- **98% Accurate cycle time prediction** without KUKA.OfficeLite
- Simplified for non-advanced users

*... speed up your first concepts and valuable cycle time predictions.*



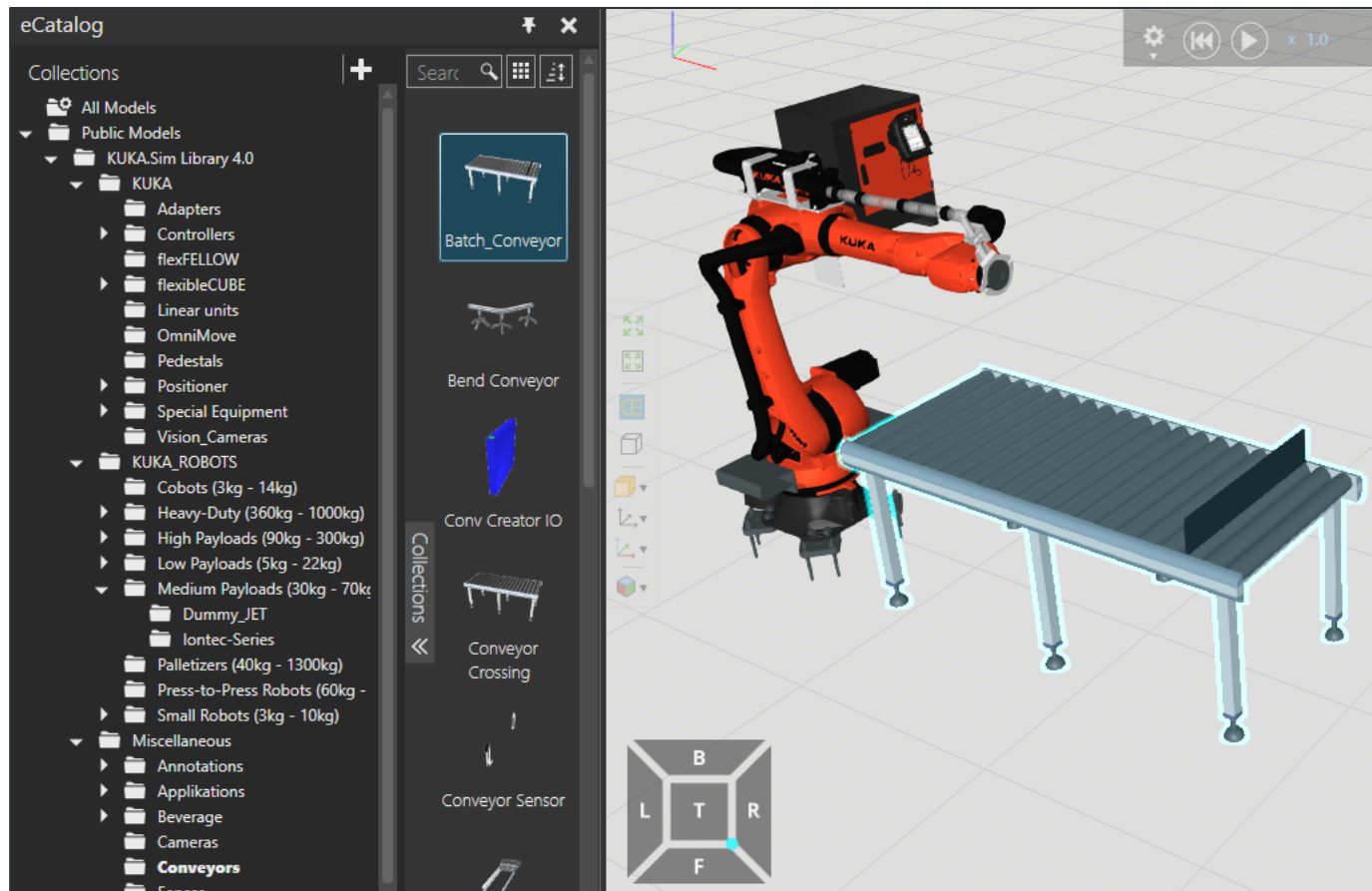


## Cloud based eCatalog

Extensive library with the latest KUKA products, always up to date



Save time



## Collision detection with distance definition

Design robot work cell concepts in advance with **collision checks**



Feasibility

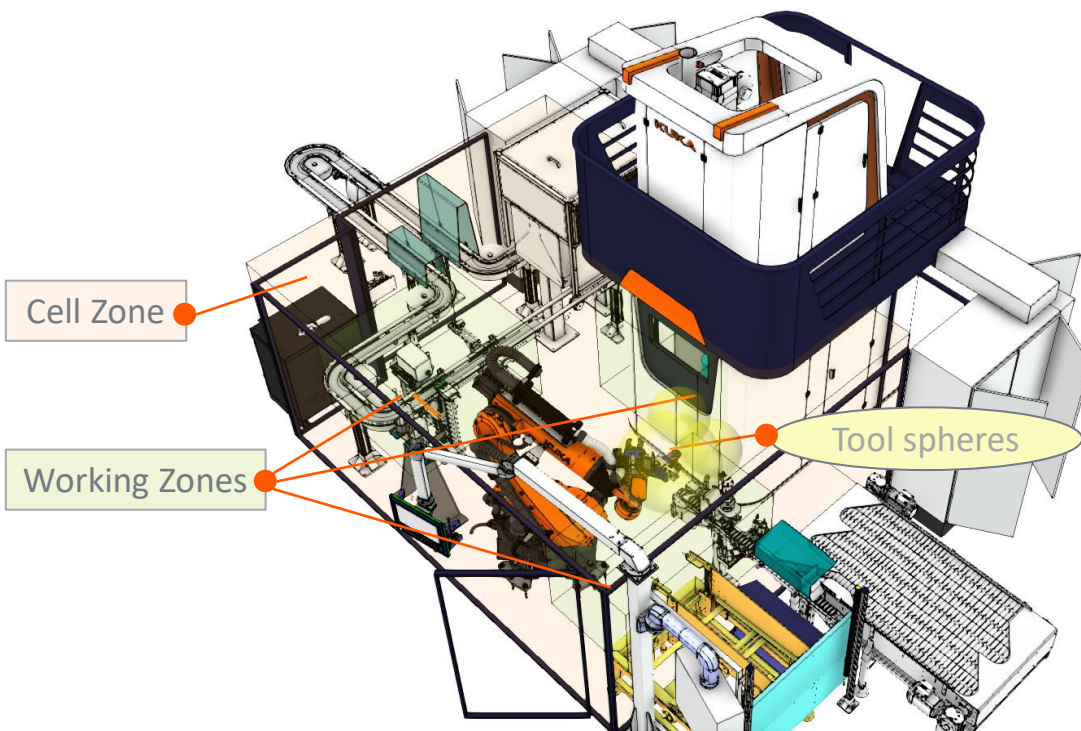
- Show Minimum Distance
- Collision Tolerance definition
- Create Multiple Collision List's

The screenshot displays the KUKA Sim 4.0 interface. The main window shows a 3D model of a green robot arm and a yellow safety fence. A red box highlights the 'Edit Detectors' button in the top toolbar. The 'Collision Detectors' panel on the right is open, showing the configuration for 'Collision Detector #1'. The 'Show Minimum Distance' checkbox is checked, and the distance between the robot and the fence is displayed as 77.713348mm. The component list includes KR 30 R2100, Gripper, and Package A36 Simplified 2100.

## SafeOperation | New 3D Safety Zone Configuration



Feasibility



**Space monitoring** ✕

---

**Space**

No.

Name

Space type [Icons]

Activation

Stop at boundaries

Stop if mastering test not yet done

Vmax valid if

Vmax

---

**Origin**

Reference system

X	<input type="text" value="0.0"/>	A	<input type="text" value="0.000"/>
Y	<input type="text" value="0.0"/>	B	<input type="text" value="0.000"/>
Z	<input type="text" value="0.0"/>	C	<input type="text" value="0.000"/>

---

**Distance to origin**

XMin	<input type="text" value="0.0"/>	XMax	<input type="text" value="0.0"/>
YMin	<input type="text" value="0.0"/>	YMax	<input type="text" value="0.0"/>
ZMin	<input type="text" value="0.0"/>	ZMax	<input type="text" value="0.0"/>

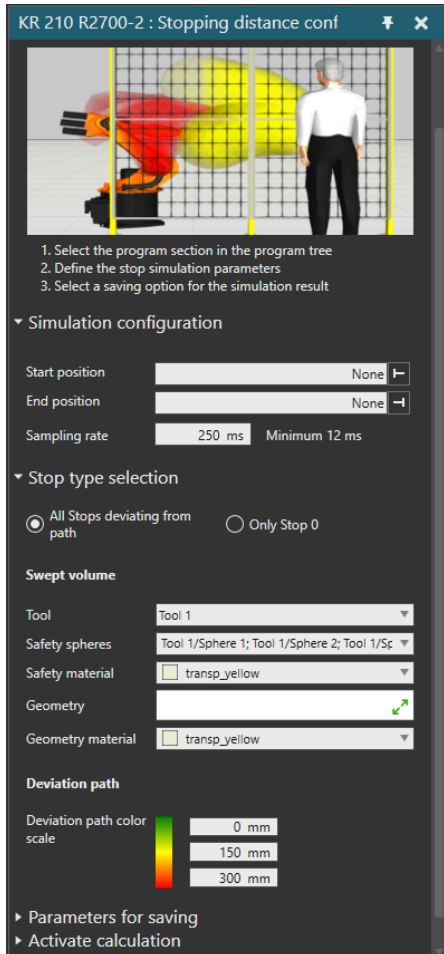
- 3D Safety-Zone settings and configuration
- Configuration can be exported to WorkVisual
- **New Stopping distance** simulation available

*... reuse of your configuration between the virtual & real world*

## Stopping distance simulation - configuration



Feasibility



- Path selection & sample time
- Stop type selection
- Swept volume definition selection
- Deviation path definition

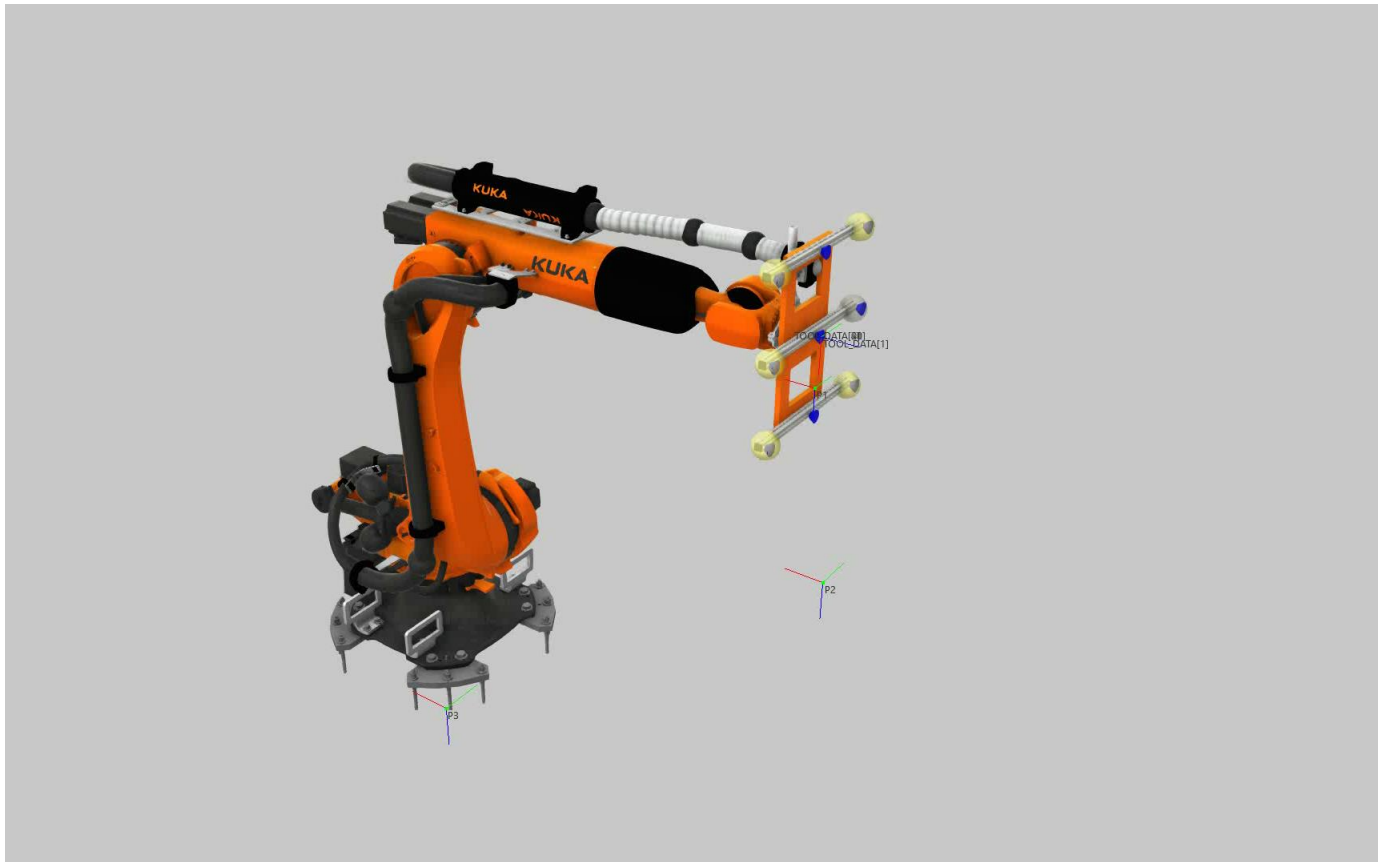
- Simulate the **stopping distance** of the robot with different stop type
- Select the program section in the program tree
- Define the stop simulation parameters
- Select a saving option for the simulation result

*... to realize optimal cell footprints*

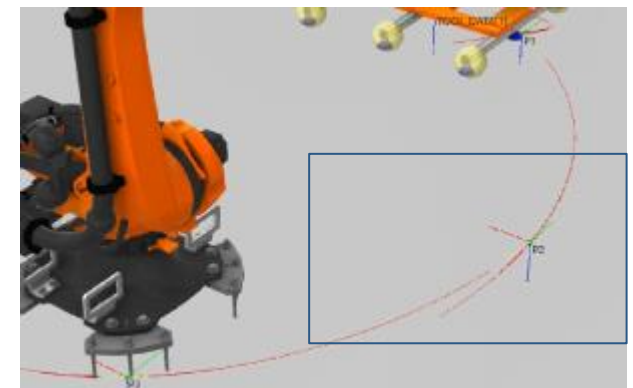
## Robot stopping distance behavior – Path example



Feasibility



- Regulated stop
- Stopping behavior of the selected path
- Overshoot/whisker visualized





## Robot stopping behaviour – Swept geometry example



Feasibility

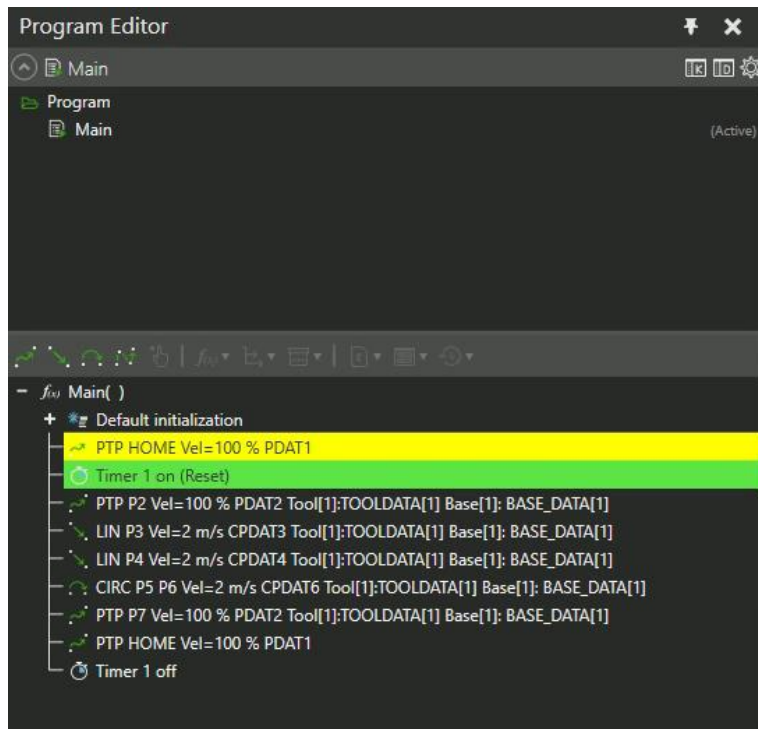
The screenshot displays the KUKA Sim 4.0 software interface. The main window shows a 3D simulation of a KUKA KR 120 R2700-2 robot arm positioned over a workpiece. A yellow swept volume is visible around the robot's end effector, indicating the area it occupies during movement. The interface includes a menu bar (FILE, HOME, MODELING, PROGRAM, DRAWING, HELP, CONNECTIVITY, PROGRAMS), a toolbar with various manipulation and simulation tools, and a program editor on the left. The program editor shows a sequence of robot movements and tool changes, such as:

- TakePart\_1( )
- TakePart\_2( )
- PTP P6 Vel=100 % PDAT4 Tool...
- \$OUT[101] = FALSE
- \$OUT[108] = FALSE
- WAIT FOR SIN[101]
- WAIT FOR SIN[104]
- LIN P7 Vel=2 m/s CPDAT14 To...
- \$OUT[2] = TRUE
- \$OUT[101] = TRUE
- WAIT SEC 0.2
- WAIT FOR SIN[101]
- Timer 1 off (Blending)
- \$TIMER[1]=0
- Timer 1 on (Blending)
- LIN P8 Vel=2 m/s CPDAT15 To...
- PTP P9 Vel=100 % PDAT21 Too...

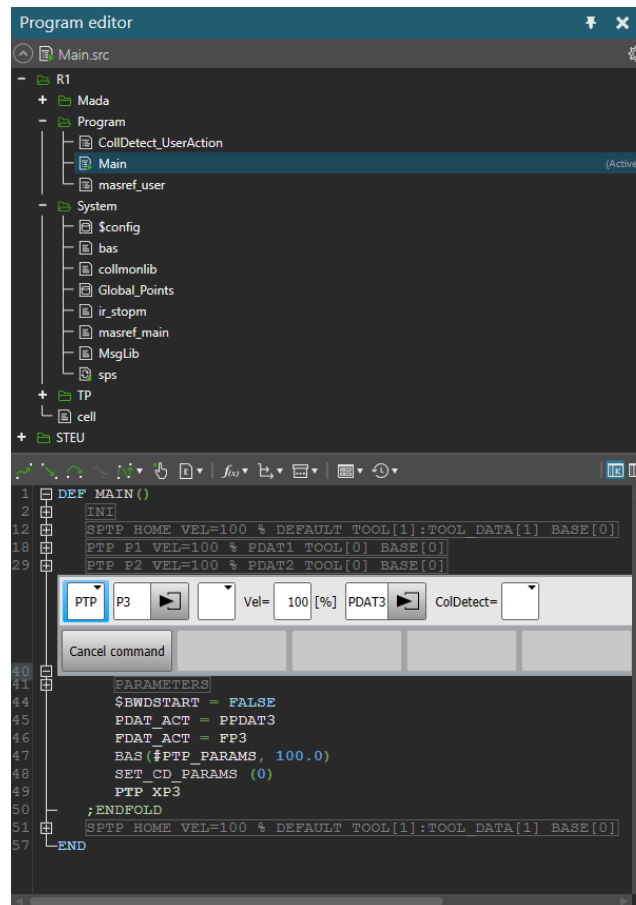
The right-hand side of the interface features a 'Jog' panel with robot parameters, including coordinates (X: -85.391058, Y: 1091.727482, Z: 671.772310), base, tool, and approach axis settings. Below this is a 'Joints' section with sliders for A1 through A6, and a 'Snap Options' section with checkboxes for 'Set Position' and 'Set Orientation'. The bottom of the interface shows an 'Output' window and a 'Statement Properties' panel.

## KRL editor & interpreter

### Simple KRL program tree view



### Advanced KRL Program Editor view



Feasibility

- **Powerful KRL Editor**
- High accuracy cycle time prediction (deviation << 2%)
- I/O simulation possible
- R1\Folder view similar to the real controller
- KUKA TechOption\* ILFs are supported via KOP
- **WorkVisual project export** available

*... to realize your advanced KRL offline programming*

\*KUKA TechOption must support the ILF function for KUKA.Sim

## I/O mapping editor

*..save time by reusing the I/O configuration for the further commissioning phase*



Feasibility

The screenshot shows the I/O mapping editor interface. On the left, a tree view shows the configuration for 'KR 210 R2700-2'. The main table lists digital outputs (\$OUT[1] to \$OUT[15]) with their types (BOOL) and bit lengths (1). On the right, the 'Gripper' scene element is selected, showing a 'BooleanSignal' configuration. Below the table, a 'Connected' section shows the mapping between the 'Gripper' BooleanSignal and the robot's 'Outputs\_Port\_1'.

Tree	Display name	Safety	Connected	Simulated	Type	Bit length	Addr...
+	KR 210 R2700-2						
+	KR C I/Os						
+	Analog Inputs						
+	Analog Outputs						
+	Digital Inputs						
+	Digital Outputs						
+	\$OUT[1]			⚡	BOOL	1	
+	\$OUT[2]			⚡	BOOL	1	
+	\$OUT[3]			⚡	BOOL	1	
+	\$OUT[4]			⚡	BOOL	1	
+	\$OUT[5]			⚡	BOOL	1	
+	\$OUT[6]			⚡	BOOL	1	
+	\$OUT[7]			⚡	BOOL	1	
+	\$OUT[8]			⚡	BOOL	1	
+	\$OUT[9]			⚡	BOOL	1	
+	\$OUT[10]			⚡	BOOL	1	
+	\$OUT[11]			⚡	BOOL	1	
+	\$OUT[12]			⚡	BOOL	1	
+	\$OUT[13]			⚡	BOOL	1	
+	\$OUT[14]			⚡	BOOL	1	
+	\$OUT[15]			⚡	BOOL	1	

Connected	Provider	Signal	I/O	I/O	Provider	Signal
⚡	Gripper	BooleanSignal	[+]	[+]	KR 210 R2700-2	Outputs_Port_1

- IO Mapping Editor
- Connected signals can be reused
- IO configuration part of the **WorkVisual project export**



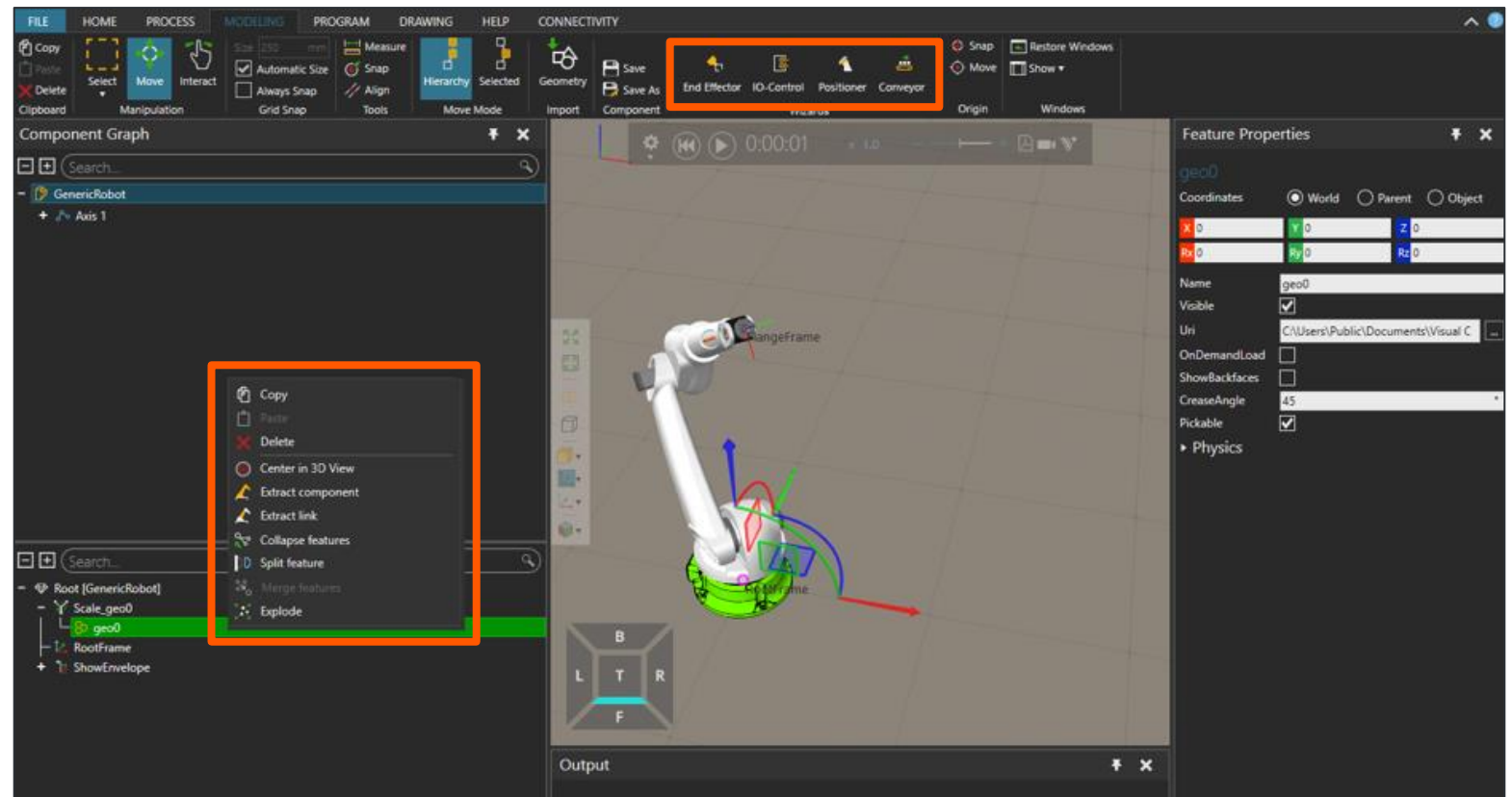


## Modeling light lage



Feasibility

- Edit your imported CAD models to interact with the robot and the simulation environment
- Make your components movable and insert your component logic with several wizards
- **Available wizards:** End Effektor, IO Control, Positioner and Conveyor
- For more modelling functions you have to activate the **KUKA.Sim Modeling AddOn**

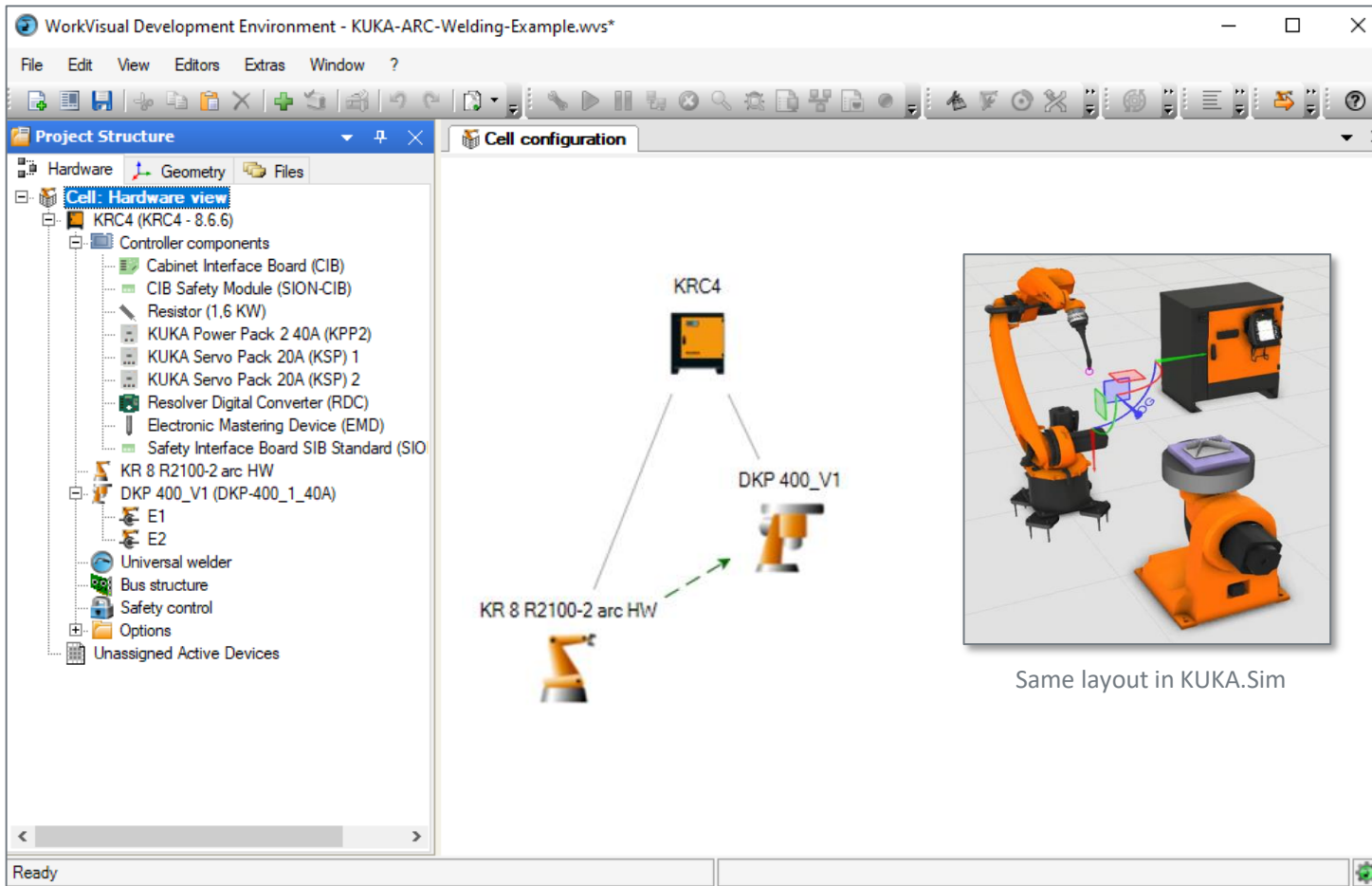


## New WorkVisual project export

*...save time by reusing your simulation results for the further commissioning*



Feasibility



- **WorkVisual project** export available
- Includes the **Controller configuration**
- Includes the added **Option Packages**
- Includes the generated **KRL programs**
- Includes the **Safety configuration**
- Includes the **IO configuration**
- Includes added **welder configuration**
- Includes **Signal configuration**
- Generated **ARC OLP Programs**

## AddOns

*...to extend KUKA.Sim 4 functionality and speed up offline programming*



## KUKA.Sim 4.x | AddOns



Modular



**KUKA.Sim Modeling AddOn** extend the KUKA.Sim wizards with an advanced and powerful modeling to **create your own component library** from you own CAD data with kinematics, sensor, signals, material flow or physical behavior to increase your sales.



**KUKA.Sim Connectivity AddOn** allows you to cover advanced **virtual commissioning** use case with connectivity interfaces for behavior emulator like **WinMOD** and **SIMIT** for **PLC communication** to increase your feasibility of your whole work cell.



**KUKA.Sim ArcWelding AddOn** offers an additional path generation features advanced OLP for ArcWelding application for **ArcTech Basic** in your simulation.

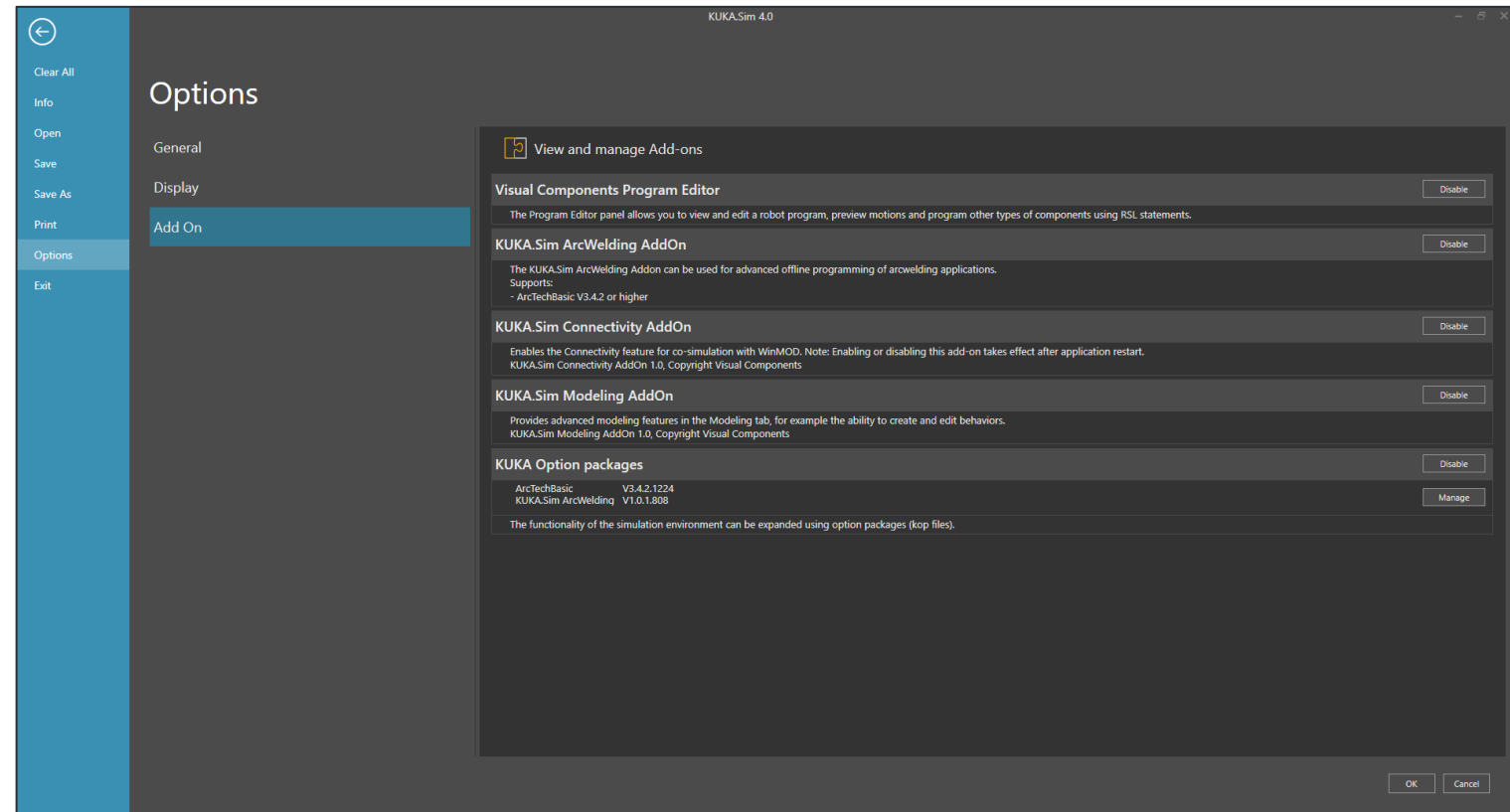


## Modular expandable with AddOns



Modular

- Requires **KUKA.Sim 4**
- AddOn is **pre-installed** in KUKA.Sim 4
- AddOn **activation** via an **additional license**
- KUKA Option Package – **ArcTech Basic 3.4.2** can be installed for OLP via Option Package Manager KUKA.Sim 4



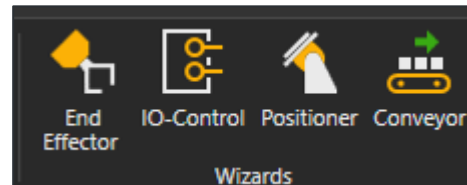
## KUKA.Sim Modeling AddOn



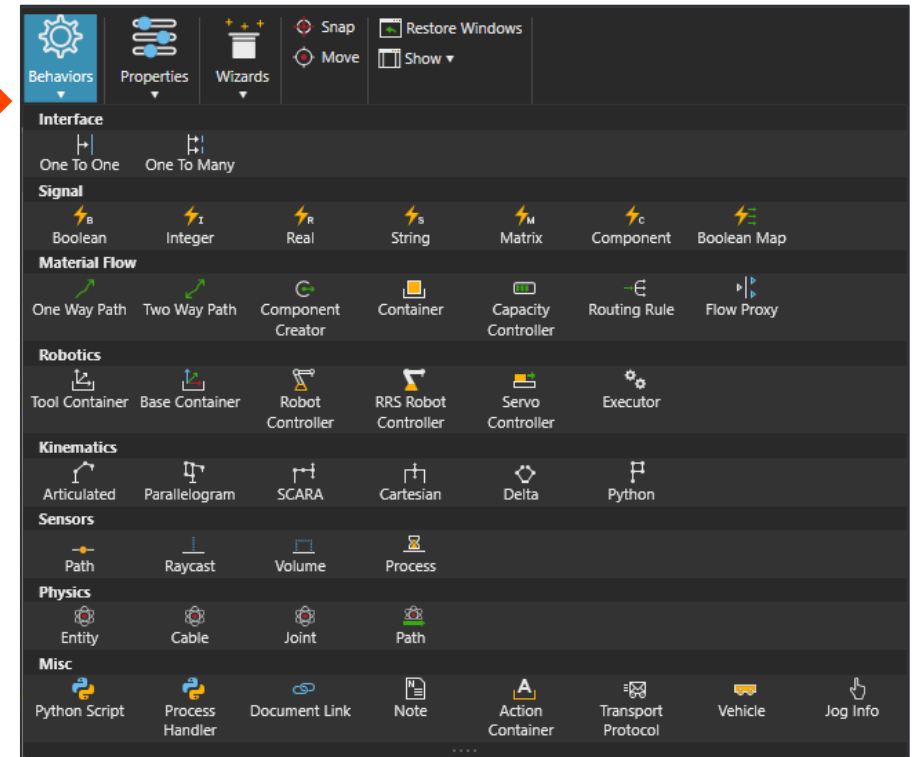
Modular

- Extend the **Modeling Light Page** into an **Advanced Modeling Page**
- Requires **KUKA.Sim 4**
- Activation via **additional license**
- Supports for **advanced component modeling**
- Incl. kinematics, signals, sensor, physics behavior and more parameter definitions, with properties and behavior settings

Modeling Light Page



Advanced modeling page with AddOn

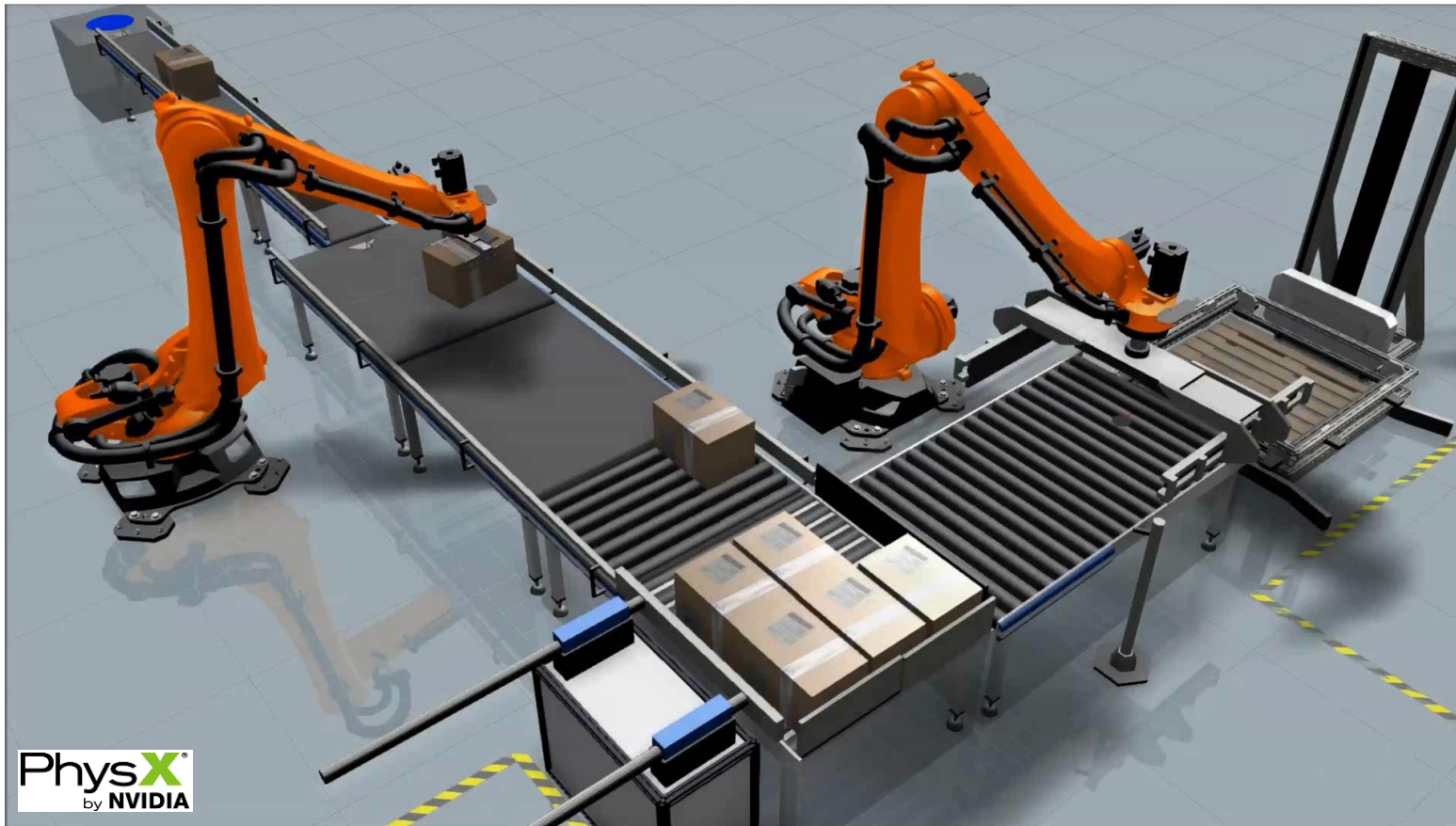


*...to extend KUKA.Sim 4 to create you own advanced component library for your business*

## KUKA.Sim Modeling AddOn, example



Modular



- PhysX behavior features
- Material flow simulation
- Create more realistic behavior in your scene

*... professional video presentation of your solution*



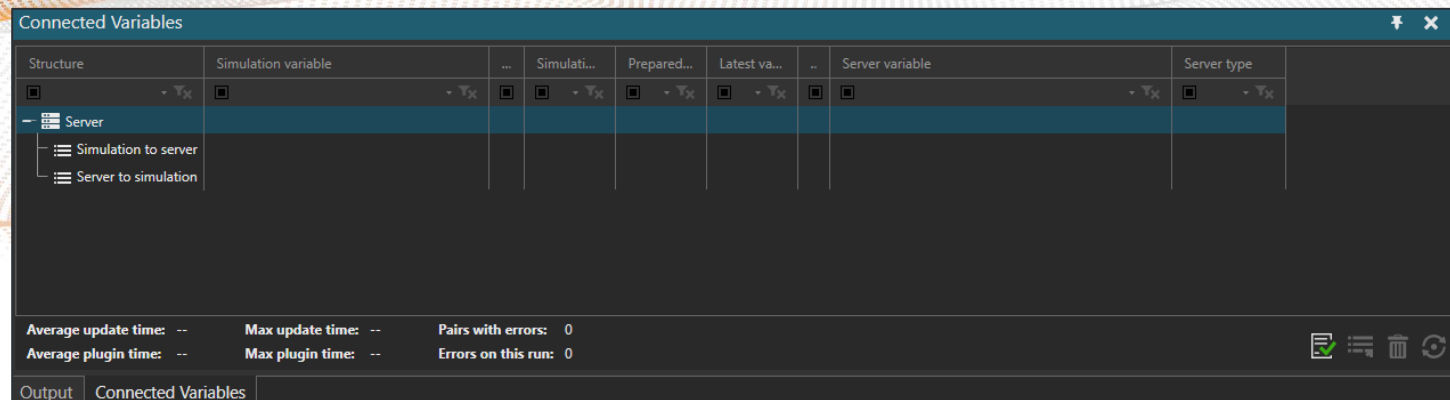
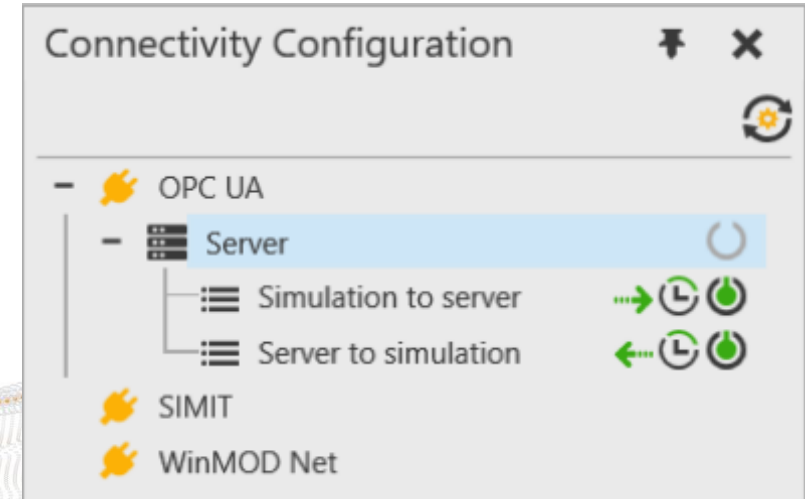
Modular

## KUKA.Sim Connectivity AddOn



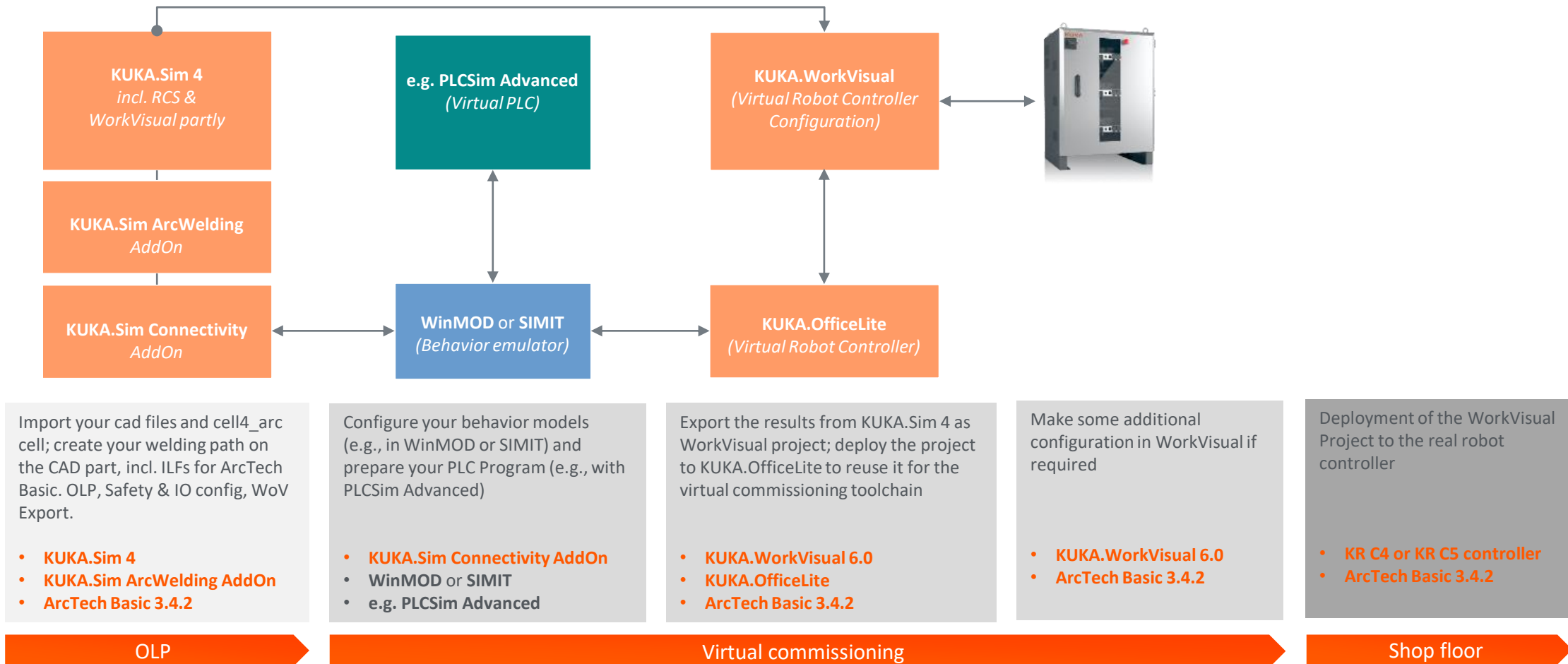
PLC connectivity for virtual commissioning via „Siemens SIMIT“ or „WinMOD“

- Connect your simulation to a **SIMIT** or **WinMOD** server to communicate with a PLC
- The control software can be used for **virtual commissioning and a digital twin**





## Workflow – KUKA.Sim 4 | OLP vs. Virtual commissioning for ArcWelding





Modular

## KUKA.Sim Connectivity AddOn, WinMOD example



PLC connectivity for virtual commissioning via „Siemens SIMATIC“ or „WinMOD“

The image shows two software windows side-by-side. The left window is 'Simulation\_SIM 4.0\_TEST\_WinMod\_fünf\_Roboter\_08\_10\_2020\_V1.vcmx - KUKA.Sim 4.0'. It features a 3D simulation of a robotic cell with a 'Konnektivität' (Connectivity) panel on the left showing 'WinMOD Net' and 'COM\_012'. Below the simulation is a table of 'Verbundene Variablen' (Connected Variables).

Struktur	Simulationsvariable	...	Simulati...	Vorberei...	Neuester...	...	Se
- COM_012							
- Simulation zum Server							
- A1	KR12R1810_2.KRC4.A1.A1	R 1,2	1.382727638	1.382727638	?	10-	
- A2	KR12R1810_2.KRC4.A2.A2	R 1,2	-89.99999999	-89.99999999	?	10-	
- A3	KR12R1810_2.KRC4.A3.A3	R 1,2	89.99999998	89.99999998	?	10-	
- A4	KR12R1810_2.KRC4.A4.A4	R 1,2	0	0	?	10-	
- A5	KR12R1810_2.KRC4.A5.A5	R 1,2	5.988844166	5.988844166	?	10-	

Summary statistics at the bottom of the table:

- Durchschnittliche Aktualisierungszeit: 2.9 ms
- Max. Aktualisierungszeit: 31.6 ms
- Paare mit Fehlern: 1
- Durchschnittliche Plugin-Zeit: --
- Max. Plugin-Zeit: --
- Fehler bei dieser Ausführung: 355

The right window is 'WinMOD V7.2 [WinMOD-Projekt] - [IO-Testfeld\_WinMOD\_Net\_Sim-Pro <EDIT>]'. It displays a list of axes (050HR\_10\_Achse\_04 to 050HR\_10\_Achse\_06) with their current positions and a grid of digital outputs (XE 12.1 to XE 15.7 and XA 28.1 to XA 31.7).

## KUKA.Sim ArcWelding AddOn

- Path section definition
- Approach & Depart pre-settings
- Workpiece & Robot positioner settings
- Enhanced path generator with trimming & regression
- ArcTech Basic supported – Single robots with KP1 & DKP
- Torch & Welding Path preview available
- \*KOP can be installed for Offline Programming

... speed up your offline programming  
for your ArcWelding application

\*KUKA Option Package (KOP) - KUKA ArcTech Basic 3.4 supported



Modular

The screenshot displays the software interface for configuring welding paths. It features two main windows: 'Statement Properties' and 'Path Visualization'.

**Statement Properties (Left):** This window allows for defining the welding path sections. It includes fields for 'Title', 'Weld Seam', 'Approach' (set to SIMPLE), 'Seam' (set to LIN), and 'Depart' (set to SIMPLE). It also has sections for 'Workpiece Positioner' and 'Robot Positioner' with various icons for settings.

**Statement Properties (Right):** This window provides detailed configuration for the welding pattern. It includes a 'How To Use' section with a diagram showing points P1, P2, and P3, and labels for 'via', 'approach', and 'near'. Below this, there is a table for defining path sections:

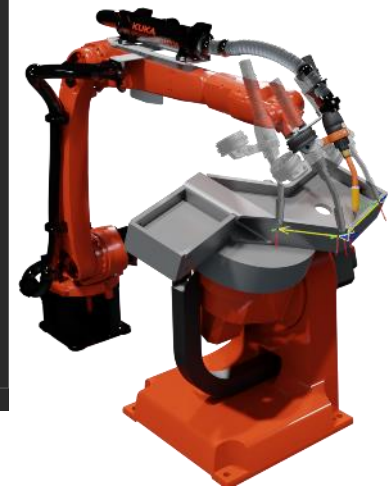
Section	Length	Velocity
P2		
↓ Via	200 mm	2 m/s
P2		
↓ Approach	50 mm	0.2 m/s
P2		
↓ Near	20 mm	0.02 m/s
Process		

**Path Visualization (Bottom):** This window shows a hierarchical tree of the welding path. The selected path is highlighted in blue:

```

MAIN( )
├── Default initialization
├── PTP P1 Vel=100 % PDAT10 Tool[1]:TOOL_DATA[1] Base[1]: BASE_DATA[1]
├── ArcWeld
│   ├── Approach SIMPLE
│   │   ├── PTP P10 Vel=100 % PDAT11 Tool[1]:TOOL_DATA[1] Base[1]: BASE...
│   │   ├── LIN P9 Vel=2 m/s CPDAT79 Tool[1]:TOOL_DATA[1] Base[1]: BASE...
│   │   └── LIN P8 Vel=0.2 m/s CPDAT78 Tool[1]:TOOL_DATA[1] Base[1]: BAS...
│   ├── SeamPath TOOL_DATA[1] BASE_DATA[1] (pos 5 ext 2)
│   │   ├── ArcOn WDAT1 LIN P2 Vel=0.02m/s CPDAT73 Tool[1]:TOOL_DAT...
│   │   ├── ArcSwi WDAT1 LIN P3 Vel=0.2m/s CPDAT74 Tool[1]:TOOL_DATA...
│   │   ├── ArcSwi WDAT1 LIN P4 Vel=0.2m/s CPDAT75 Tool[1]:TOOL_DATA...
│   │   ├── ArcSwi WDAT1 CIRC P5 P6 Vel=0.2m/s CPDAT76 Tool[1]:TOOL_D...
│   │   └── ArcOff WDAT1 LIN P7 Vel=0.2m/s CPDAT77 Tool[1]:TOOL_DATA...
│   └── Depart SIMPLE
│       ├── LIN P11 Vel=0.02 m/s CPDAT80 Tool[1]:TOOL_DATA[1] Base[1]: B...
│       ├── LIN P12 Vel=0.2 m/s CPDAT81 Tool[1]:TOOL_DATA[1] Base[1]: BA...
│       └── LIN P13 Vel=2 m/s CPDAT82 Tool[1]:TOOL_DATA[1] Base[1]: BAS...

```

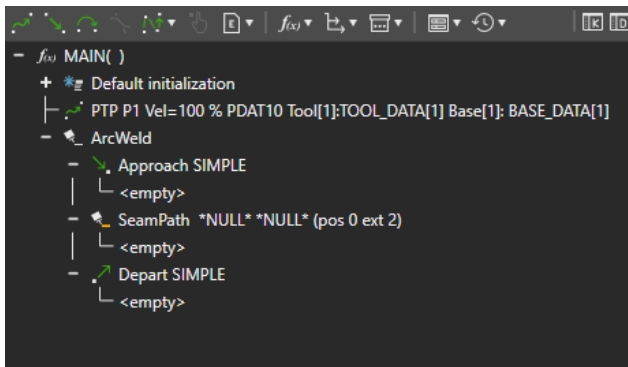
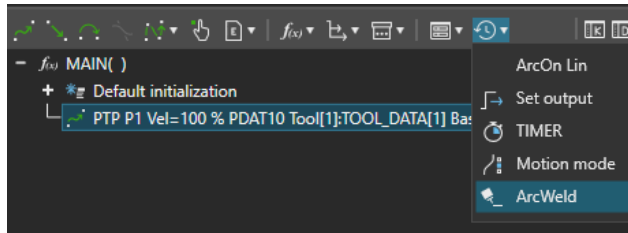


## Arc Welding Seam Generation & Options



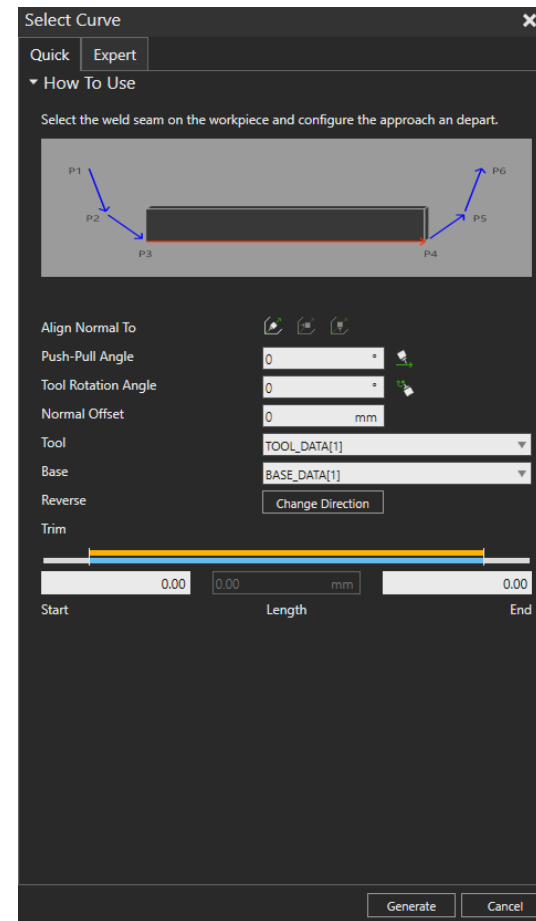
Modular

Automatic ArcWeld generation:

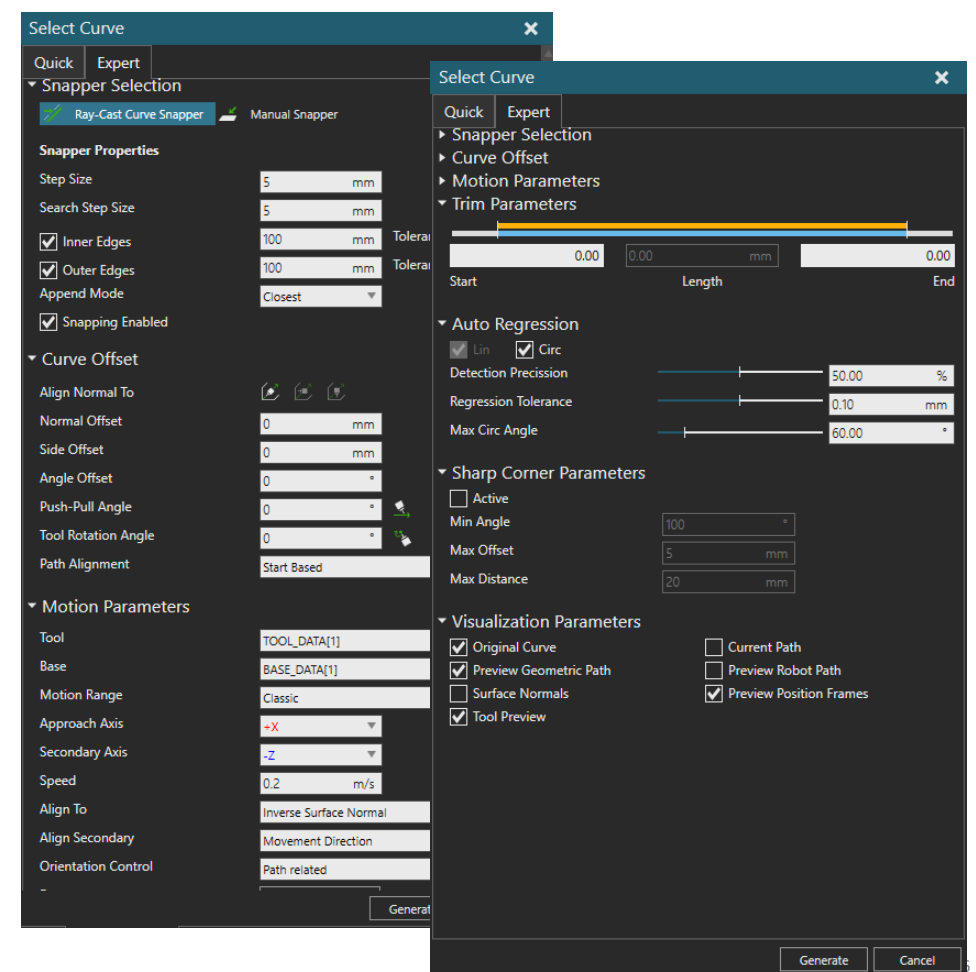


No manual KRL code necessary!

Simple view vs.



Expert view with all parameters





## KUKA.Sim ArcWelding AddOn – 3 minute programmin example



Modular

2\_19\_3\_ArcTech\_v3.vcmx - KUKA.Sim 4.0

FILE HOME MODELING PROGRAM DRAWING HELP CONNECTIVITY KRL

Process Visualization  Teach Overlay Menu  Interfaces  Edit Detectors  To Reference  Color Highlight  Restore Windows  Kuka Stop Services  
Path Visualization  Simulation configuration  Signals  Enable Detectors  To World  Stop at Limits  Show  Show   
Clipboard  Traces  I/O mapping editor  Stop on Collision  Collision Detection  Lock Positions  Limits  Message Panel Output  Windows  Kuka Stop Services

Program editor

Program (Active)

Main

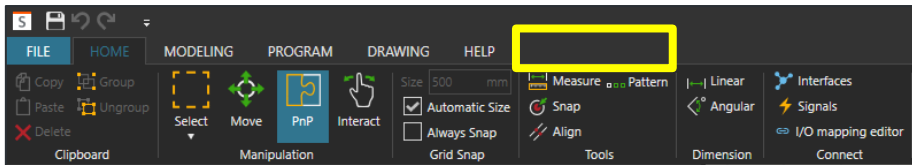
PTP P1 Vel=100 % PDAT1 Tool[1]:TOOL\_DATA[1] Base[1]:...

Output

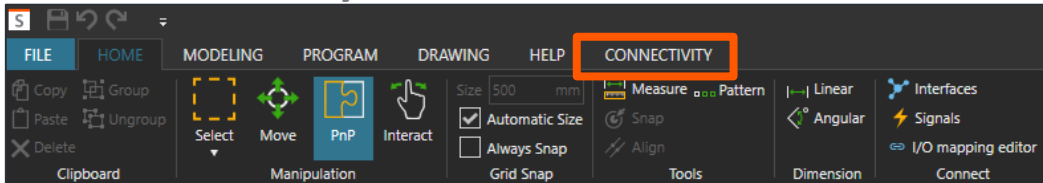
Jog Properties Cell configuration

## Summary AddOn Overview

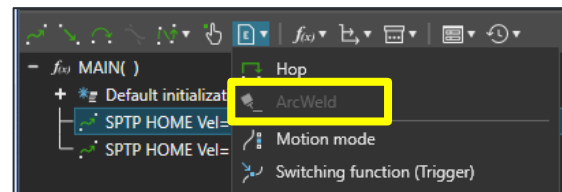
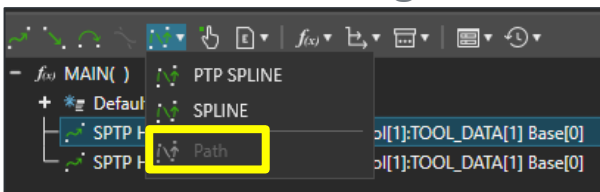
### Without Connectivity AddOn



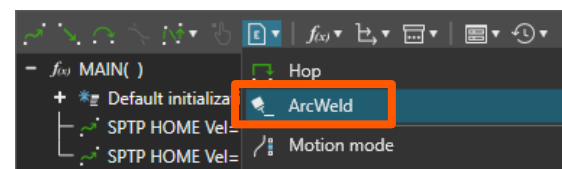
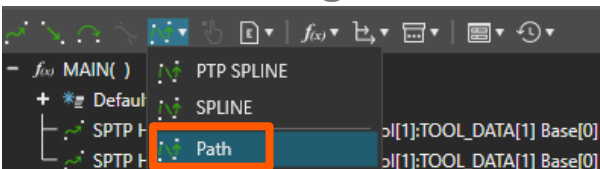
### With Connectivity AddOn



### Without ArcWelding AddOn



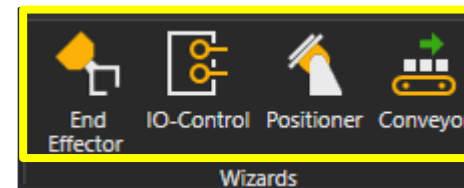
### With ArcWelding AddOn



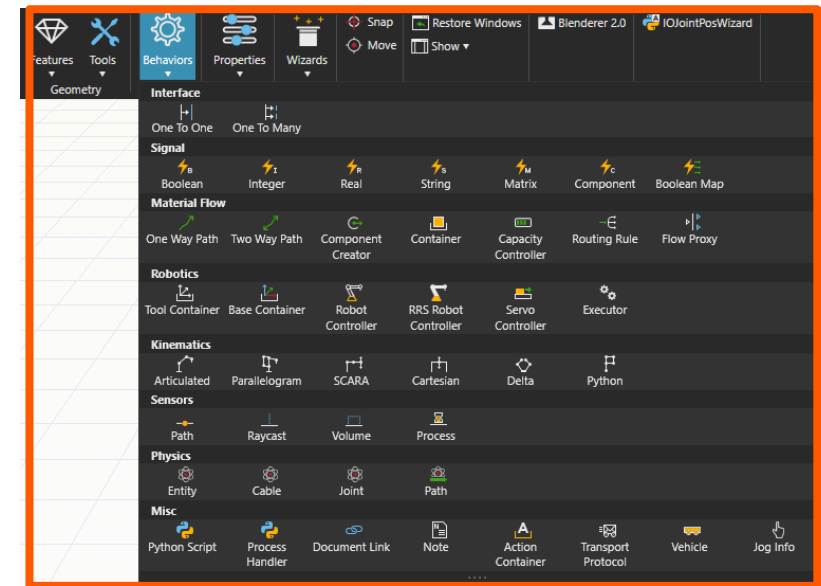
### Without Modeling AddOn



Modular



### With Modeling AddOn

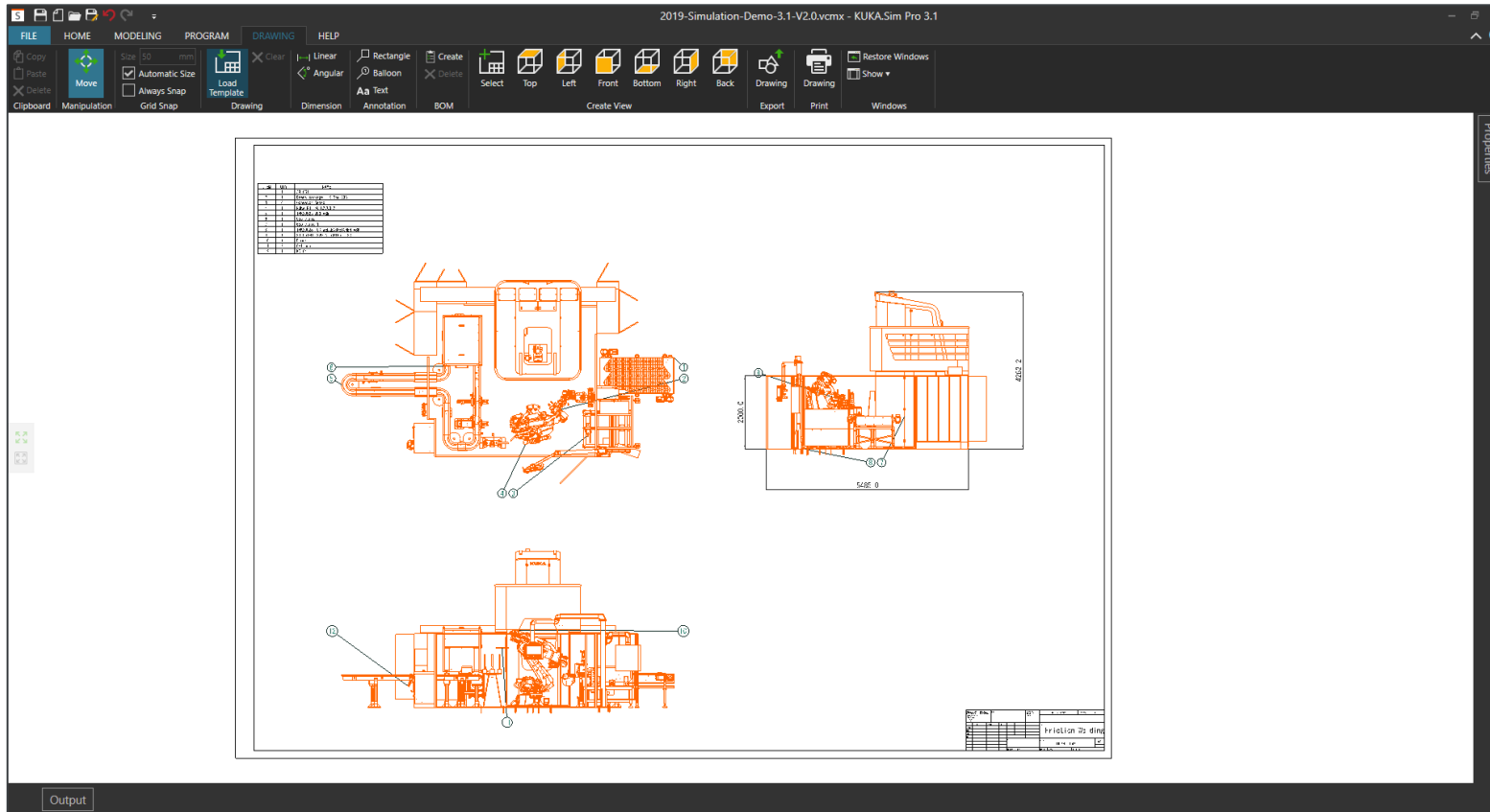


## Export & present simulated content

## 2D RealDWG Autodesk | Drawing Export



Reliability



- Select template from DIN A0...A4
- Insert views from 3D work cell
- Export as 2D-Real DWG file
- Add bill of material – BOM
- Add measurements

*... share detailed information for mechanical commissioning in 2D-DWG*

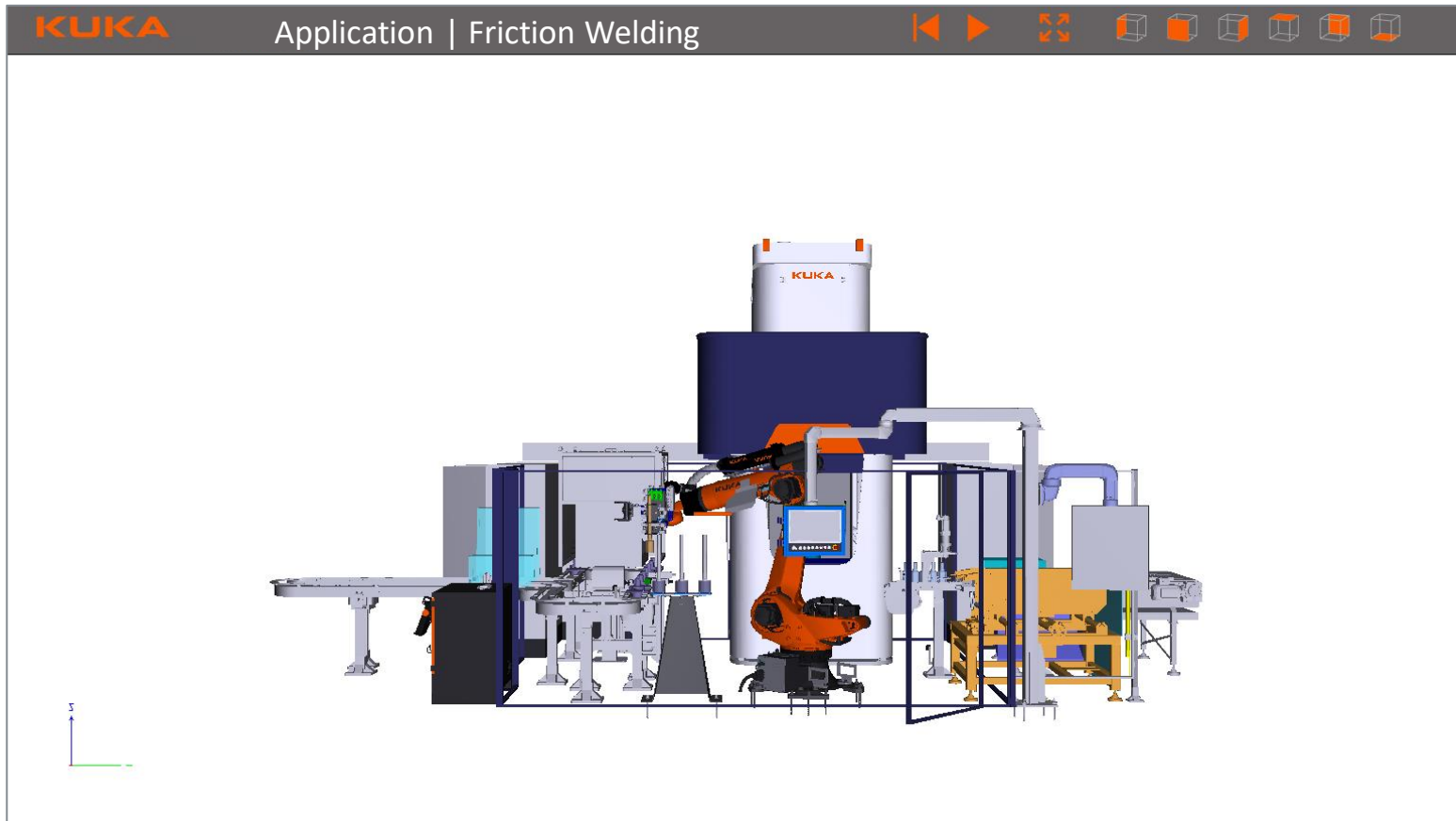




## 3D-PDF Export for Acrobat Reader



Increase revenue



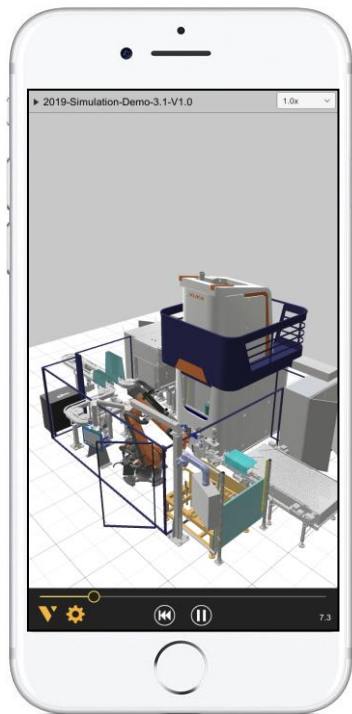
- Program execution will be shown
- Selectable 3D-PDF template
- 3D navigation view possible (*Orbit, Pan, Zoom*)

*... simple sharing with your customer in a format that everyone can use.*

## Mobile Viewer App & Virtual Reality Support



Increase revenue



Visual Components Experience



e.g. HTC Vive

- Animation file export for...
- VC Experience Mobile App &
- VR Experience Player for VR glasses

*... present your ideas via smart devices or dive in with your customer into the virtual reality.*

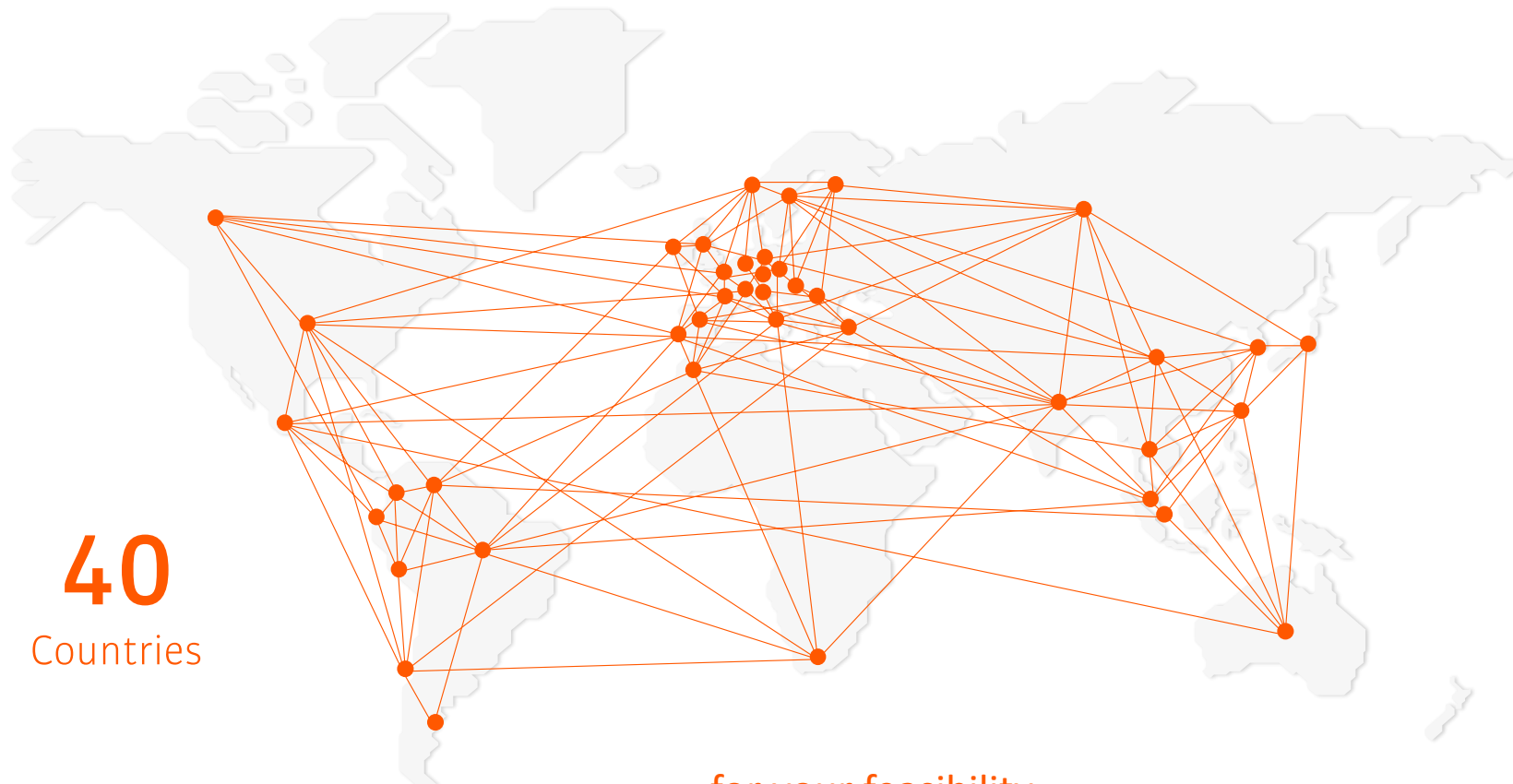
\* PC must be VR ready



## Worldwide Support & Simulation Services



Feasibility



**40**  
Countries

... for your feasibility

## KUKA.Sim 4 | Evaluation Support via my.kuka.com



Feasibility



- **30-days** Demo version downloadable\*  
*incl. the available AddOn's*



- VR Experience Player downloadable\*



- Mobile Viewer App



Visual Components Experience

\*downloads for KUKA.Sim 4 available

## Kontakt

