AI AND SMKL ABOUT COLLABORATION

Innovative technologies open up future possibilities

*This presentation is based on AI.

IMPROVEMENT OF SMKL AWARENESS THROUGH AI AND PROGRESS IN AUTOMATIC JUDGMENT

Raising awareness of SMKL through AI

Advances in AI have dramatically increased the visibility and understanding of SMKL in manufacturing.

SMKL automatic judgment

AI analyzes large data sets and automatically determines SMKL levels for products and factories.

Copilot AI Assistance

Using Copilot AI, users can instantly diagnose SMKL levels by simply entering product data and case studies.

Human monitoring is essential

The results of AI are helpful.; The final decision requires human judgment, and explicit input improves accuracy.

COPILOT'S METHOD FOR DETERMINING PRODUCT SMKL

Input and Analysis Process

Users can enter product names and specifications to accurately analyze and evaluate SMKL levels.

Evaluation based on SMKL standards

Copilot determines a product's SMKL level by applying evaluation criteria to product information gathered from the Web or text input.

Improve learning and accuracy

Given the initial definition and URL, the AI learns over time to provide faster and more accurate SMKL decisions.

strategic decision support

This enables SMKL-based assessments to inform strategic decisions and facilitate product development and improvement.

COPILOT'S SMKL ASSESSMENT OF FACTORIES AND HOW TO USE IT

SMKL Level Assessment

Copilot evaluates smart factory progress by analyzing user input to SMKL standards and level changes.

Case Analysis and Interaction

When a user enters a case from the web or text, Copilot performs a detailed analysis and level determination through interaction.

Advice for improvement and calculate ROI

Copilot provides improvement advice and calculates ROI to support strategic smart factory development.

Accelerating Smart Factory Initiatives

This system will enable smart factory initiatives to proceed systematically and strategically, and will accelerate improvements in the field.

SMKL SEARCH AND RETRIEVAL WITH COPILOT

Information retrieval using AI

Users contact Copilot to quickly obtain SMKL definitions, background, and metrics.

Overview of the SMKL Project

Copilot describes SMKL as an evaluation framework for smart manufacturing promoted by the Industrial Automation Forum.

reliable and useful insight

The information from Copilot is reliable and, despite occasional changes, provides a better user understanding.

Enhancing knowledge acquisition

Copilot makes it easier to learn SMKL concepts and enables more accurate product and plant evaluations.

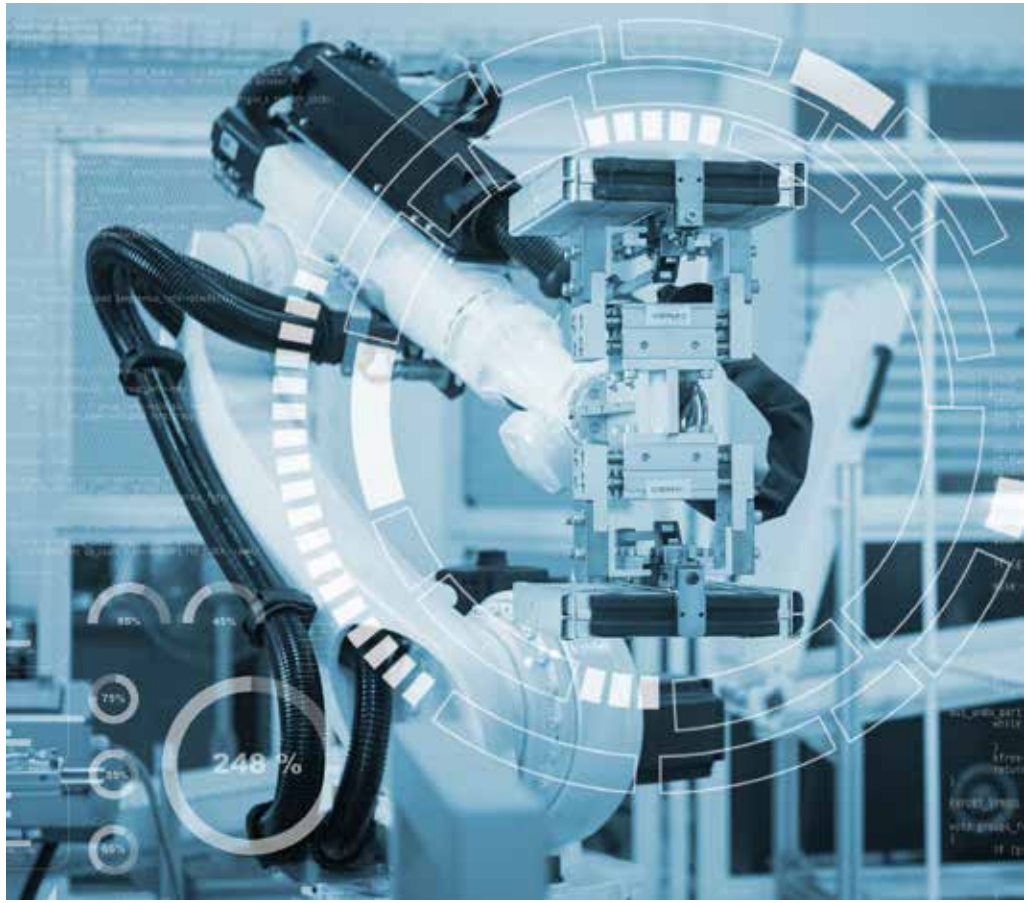
LET'S PUT IT INTO PRACTICE! (PRODUCT ASSESSMENT)

◆SMKL Determination for Products in Copilot (Microsoft AI (GPT-5))

(Example: "What level of SMKL is xx product?"

*Addendum: xx product features and specifications must be published on the web or text input to Copilot.

Note that the SMKL level criteria may be different at the time of initial diagnosis. In that case, enter the URL of this page into Copilot. It is not necessary after the second time.



LET'S PUT IT INTO PRACTICE! (FACTORY ASSESSMENT)

◆Copilot (Microsoft AI (GPT-5)) SMKL Assessment of Factories

(Example)"From which level of SMKL did the next example go? Also, please judge if there is a level you want to aim for in the future."

*Addendum: Examples must be posted on the web or text input to Copilot.

You can also dive deeper by talking to Copilot (Output of judgment results to PowerPoint, advice for future improvement, ROI calculation (Estimation of investment costs and improvement effects), etc.).

LET'S PUT IT INTO PRACTICE! (ROI CALCULATION)

◆RIO Calculation in Copilot (Microsoft AI (GPT-5))

(Example)"Please convert the cost of this case and the effect obtained into money."

*Addendum: This question should be followed by "SMKL Assessment of Plant" above.