

9th UCAAT

User Conference on
Advanced Automated Testing

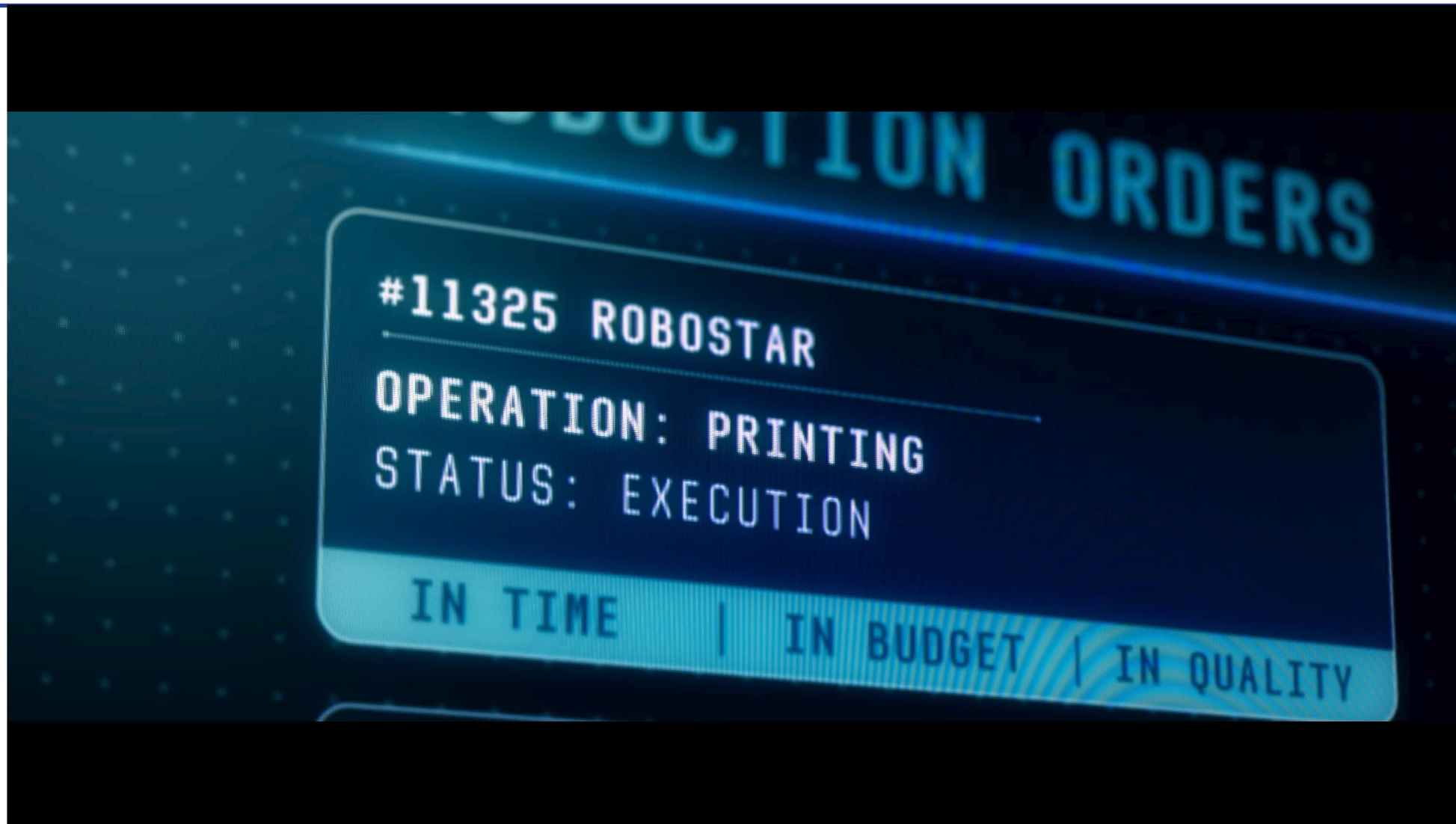
A new way for testing in the
autonomous factory Simulation
based Testing

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SIEMENS

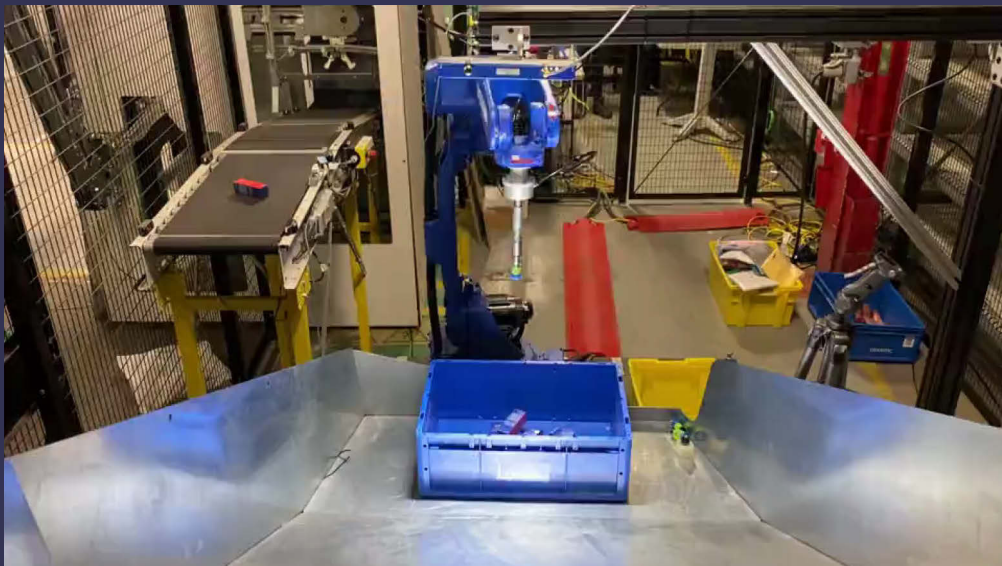
13/09/2022

Autonomous Factory



[Link to the complete video](#)

Use case: Testing FlexGrasp.AI Situation and test challenges



Starting situation

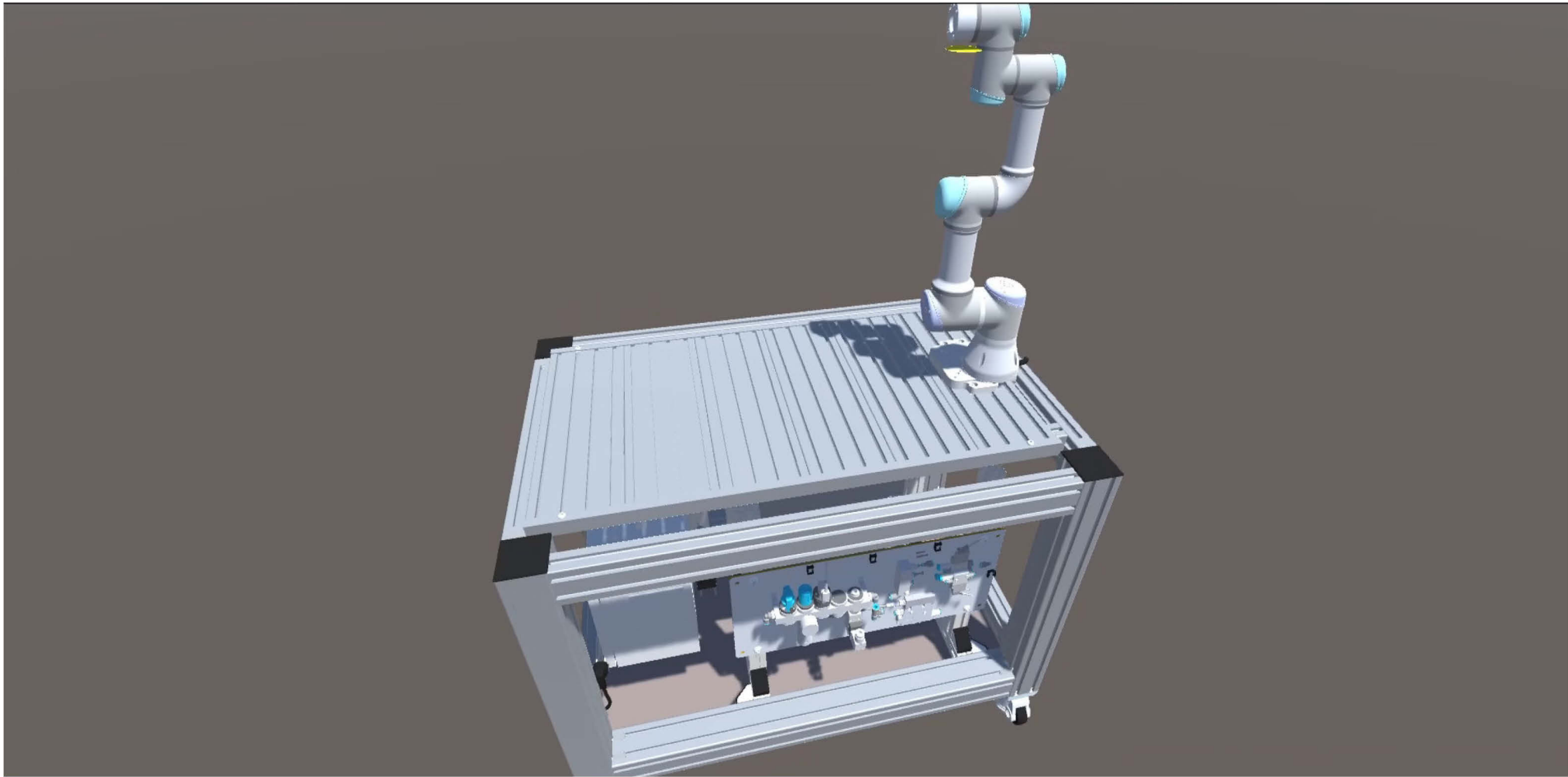
- Robot cells
- No test automation
- Low variance
- Long feedback loops
- Difficult to reproduce
- No test coverage

Test challenges

- Reproduceable test scenarios
- Automate test scenarios
- High scenario variance
- Measurable test coverage
- Run test – independent of HW
- Fast feedback loops

Use case: Testing FlexGrasp.AI

The solution



Use case: Testing FlexGrasp.AI Results

The following goals have been achieved:

- ✓ Reproduceable test scenarios
- ✓ Automate test scenarios
- ✓ High scenario variance
- ✗ Measurable test coverage
- ✓ Run test – independent of HW
- ✓ Fast feedback loops
- ✗ Virtual world too “clean”



Impact:

Increase test efficiency

Increase confidence in the product



Validation of Intelligent Systems (FlexGrasp.AI)

Customer Value and Business Impact

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Customer Value:

Improve product quality
and increase confidence
in delivered product



Business Impact:

Key technology for
testing AI components



Any further questions?

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