SYNOPSYS°

The Era of Agentic Engineering

Verification Futures

1 July 2025

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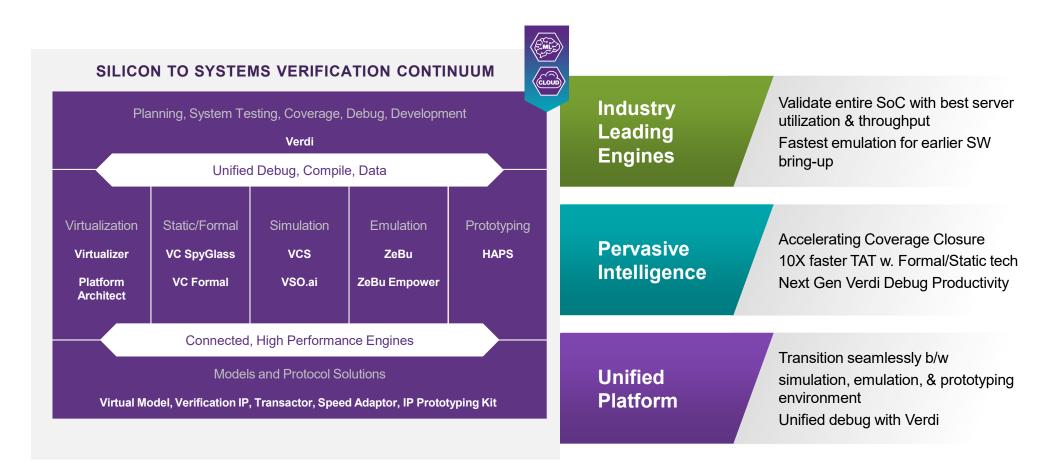
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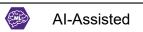
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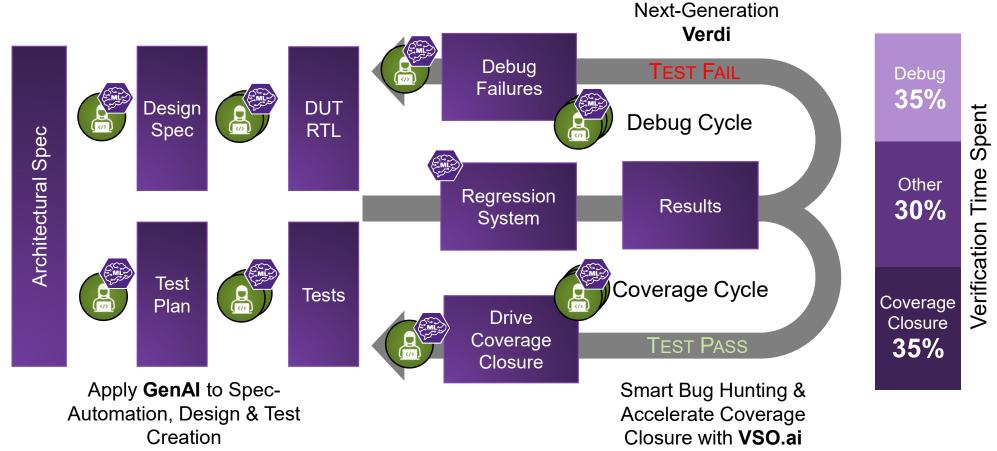
Synopsys Silicon to Systems Verification Continuum



Manual Process

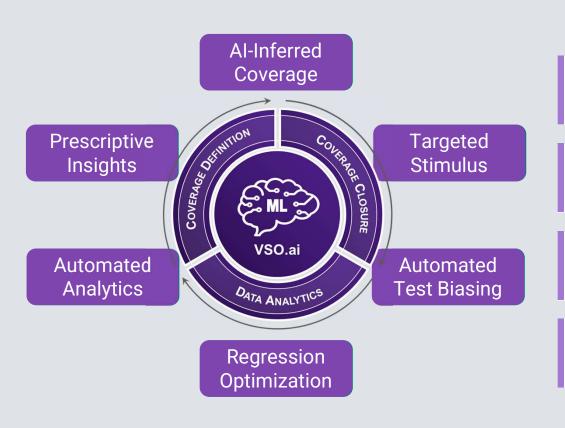


Where Are The Opportunities for Automation?



Al Driven Verification Space Optimization - VSO.ai

Faster, Higher Coverage Closure & Analytics



Better Coverage: Coverage Inference Engine Helps to Define Coverage from Stimulus and RTL

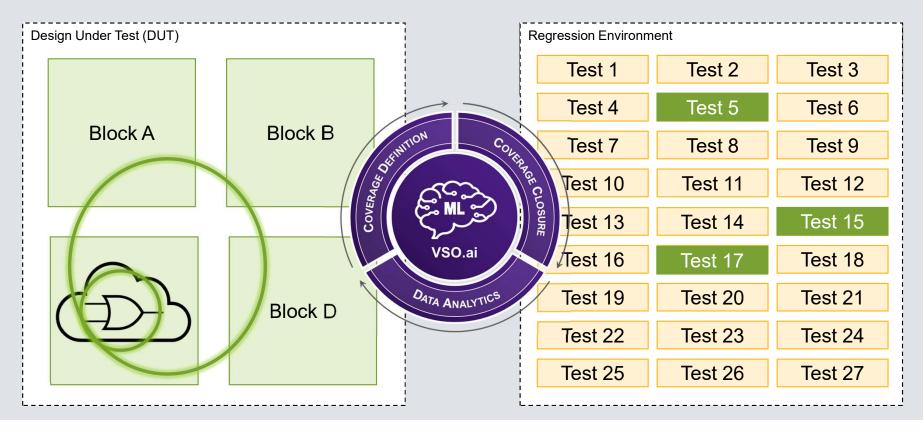
Productivity Boost: Connectivity Engines & ML-Based Solver Target Hard to Hit Coverage

Improved HW Utilization: Regression Optimizer Ensures Highest ROI Tests Run First

Higher Resource Efficiency: Advanced Root Cause Analysis to Identify Unreachable Coverage

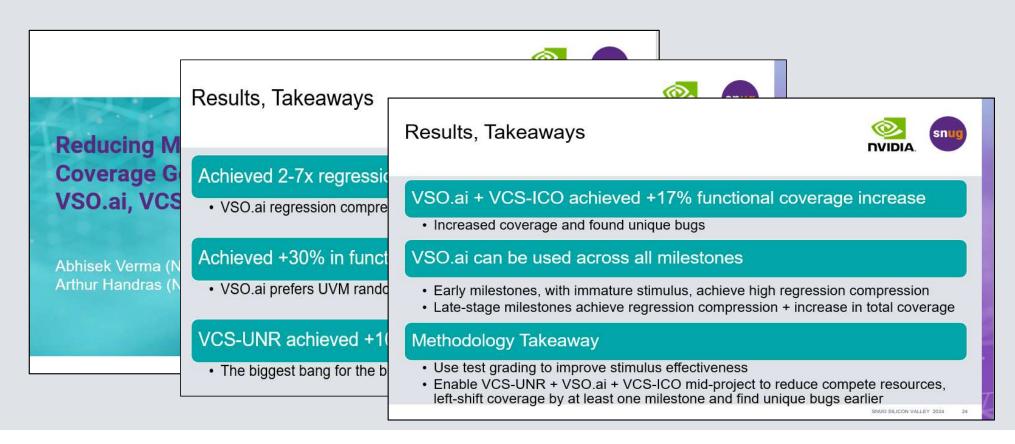
VSO.ai Change-Based Verification

Focus Regressions Only on Changes



NVIDIA at SNUG SV 2024

Top-10 Best Presentation Award



VSO.ai: Next Wave of Customer Successes

Faster Closure with Better Coverage

20%
Higher
Coverage
2X TAT





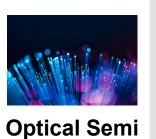
11%
Higher
Coverage
3X TAT

6X
Faster
Coverage
Closure
Handset

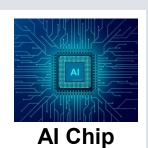
Cloud HW

3.7X TAT
5%
Coverage
Boost

1.8X TAT 4% Higher Coverage



2.1X TAT
2%
Coverage
Boost



Synopsys.ai: GenAl Vision and Applications for Chip Design

Assistive

Expert Guidance on Tools and Flows

Knowledge Assistant
Workflow Assistant
Run Assistant

Creative

Design Collateral Creation,
Optimization

RTL Assistant
Verification Assistant

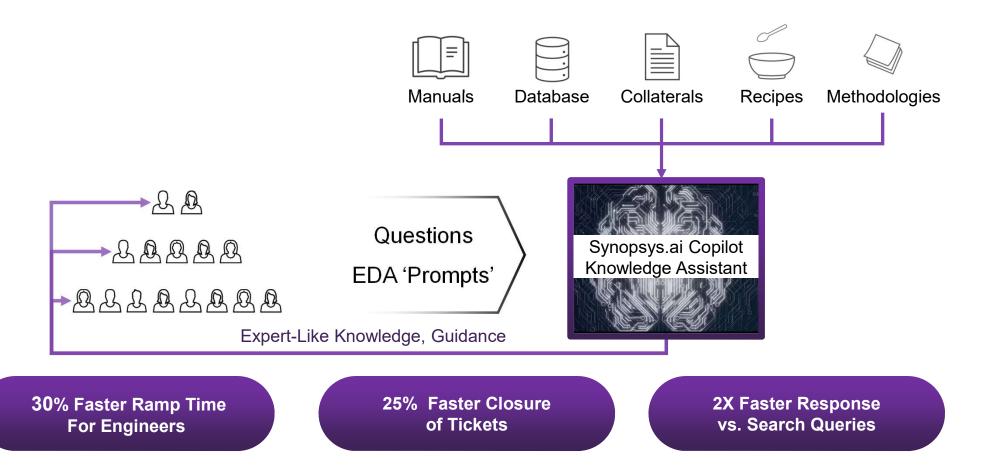
Agentic

Workflow Automation

Execution of simple to complex multi-step tasks

On-Prem / Cloud Enabled Optionality; Commercial and OSS LLM Supported

GenAl Assistants: Expert-Level Guidance, Faster Ramp

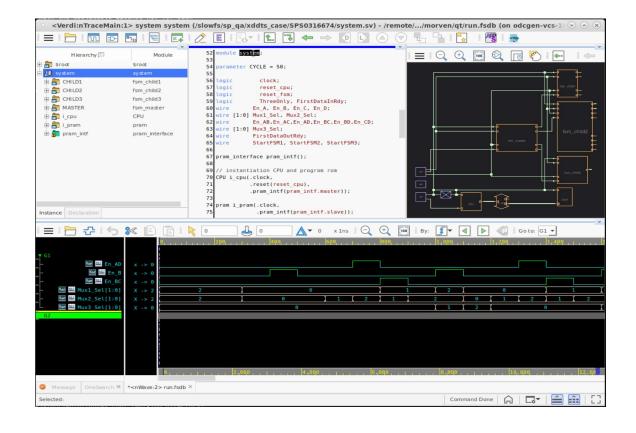


Opportunity for Conversational Debug

"Who checked in the latest RTL for module PCle?"

"Why is the reset signal "X"?"

"Show me all the input signals to module IRQ"

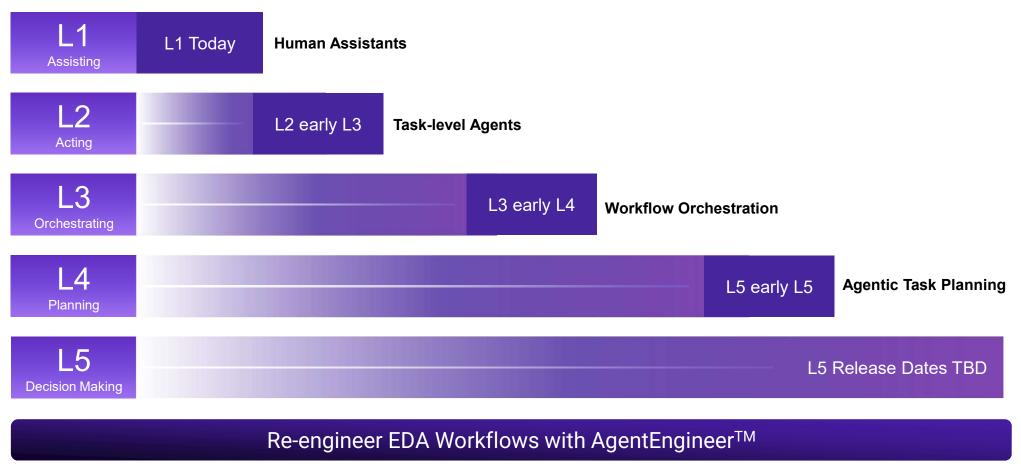


"Give me all the registers impacted by signal REQ"

"How did I debug this issue last time?

"Which transaction caused the failure?"

Vision for Agentic AI – From Copilot to Autopilot



Agentic AI: Vision for LLM-Powered Multi-Agent EDA Framework

