



**AVEVAWORLD**  
PARIS



# Product Engineering on AWS

**Smarter Development** with  
Data-Driven Engineering

**Patrice RAIPIN**

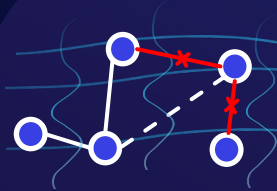
EMEA Lead Product Engineering & Development  
Automotive & Manufacturing  
AWS for Industries

# Product Engineering & Development Department challenges



## Performance & Scalability

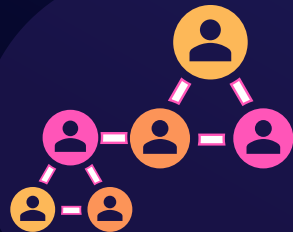
Richer analysis and development solutions with a set of use-cases combining multiple disciplines



## Data Friction

Data/information flow across business processes regardless of source format

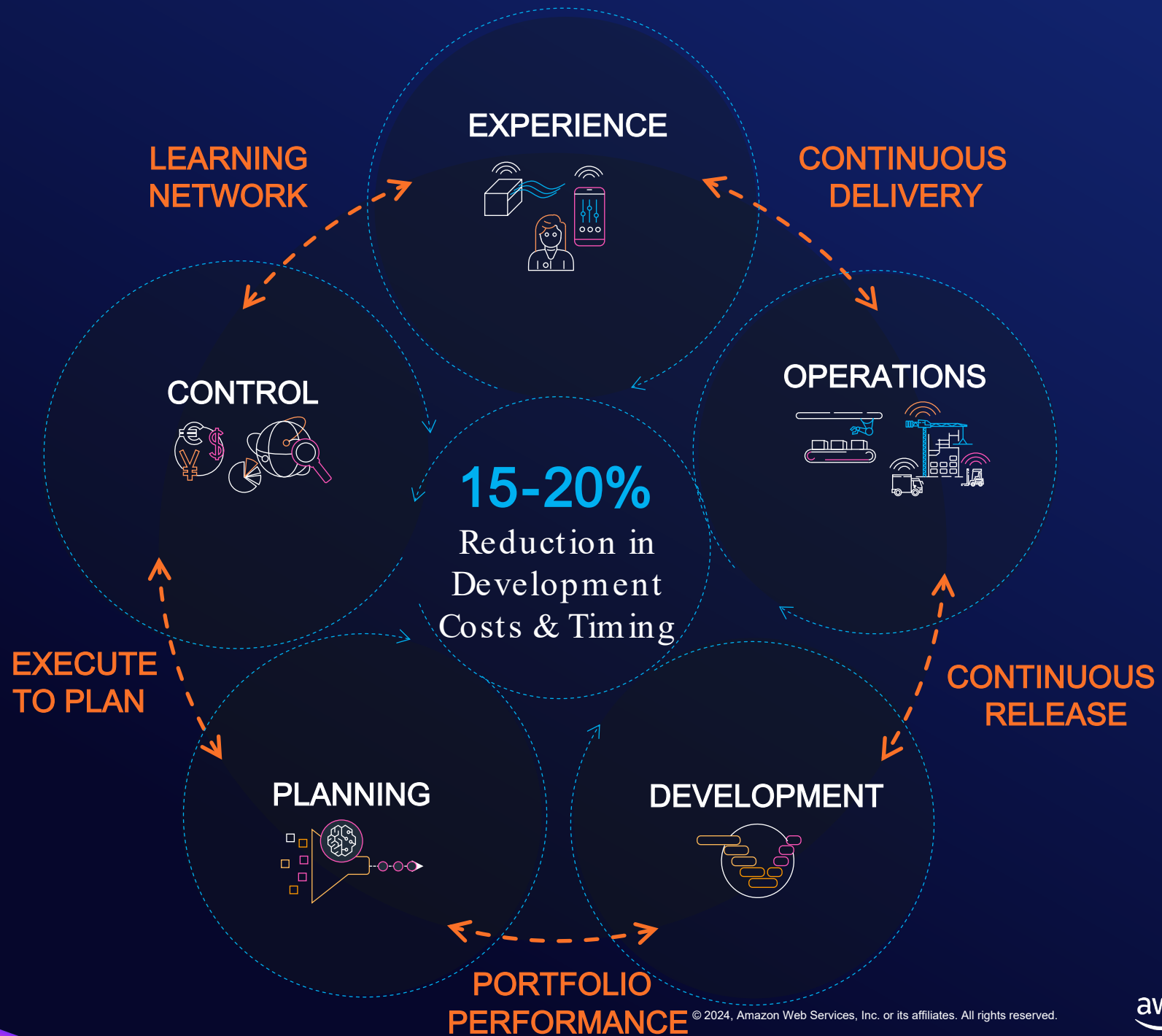
Difficulty in leveraging past knowledge and intelligence



## Global Collaboration

With cloud technologies and AI/ML solution stack

# Product Engineering & Development Enterprise Transformation





# Delivering Outcomes Through a Complex Landscape

Business Outcomes



Cost Savings



Staff productivity



Operational Efficiency



Actionable Intelligence



Accelerate innovation

Business Process & Review



Process



Analytics



Spatial / Review



KPI's & Decision Support

Data Intelligence



Large Language Models



GenAI



Machine Learning

Knowledge Graph



Manufacturing Enterprise Systems

CRM

PLM

ERP

MES/MOM

IoT

Product Lifecycle Process



Requirements



Design



Assembly



Supply Chain



Monitoring



Maintenance



End-of-Life

DESIGN

MANUFACTURE

OPERATION

# Why AWS Cloud?



## Cost Savings (TCO)

Global Collaboration with 30% Operating Cost Reduction



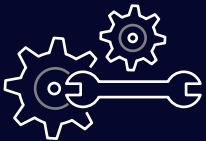
## Staff Productivity

10% Efficiency Gain in Development



## Business Agility

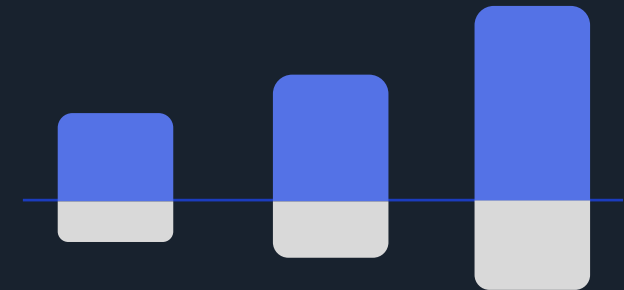
Serverless Connected Platform for Millions of Products



## Operational Resilience

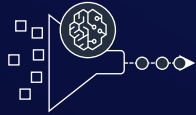
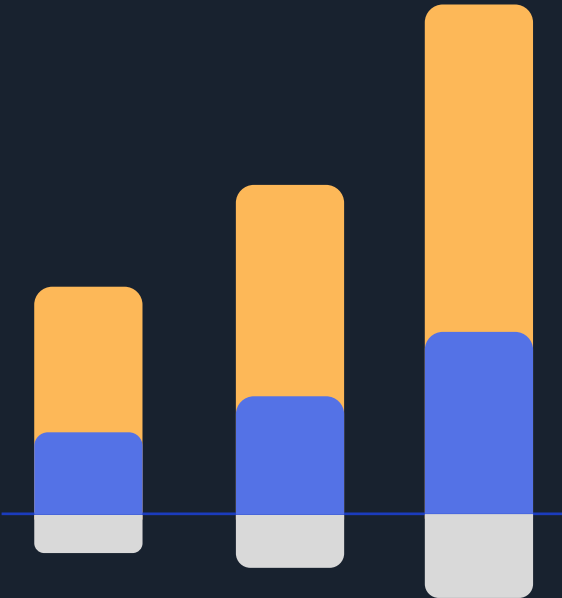
HPC Core Remediation from 6 months (on-prem) to 6 weeks  
On AWS Cloud

Improve Product  
Engineering &  
Development  
Economics on  
AWS Cloud



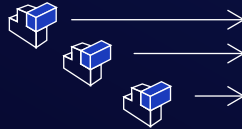
# AWS Cloud Accelerating Product Engineering & Development Transformation

**Accelerate &  
Scale Benefits  
Not Costs**



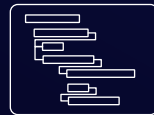
## Innovation Pipeline

Increased ability to identify and assess alternatives through cross functional product/technology intelligence



## Product Engineering Capacity

Improved product development convergence through more effective and value-added design iterations



## Time to Release

Reduce time to market through digital thread that is cross-functional and extends throughout the extended enterprise and value network



## Quality, Iteration & Rework

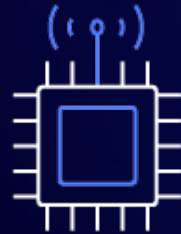
Enable firm-specific design-for-quality outcomes by closing the loop between engineering, manufacturing, and product in use

# Transforming Engineering & Development on AWS

Computer Aided Engineering (CAE)



Electronics Design Automation (EDA)



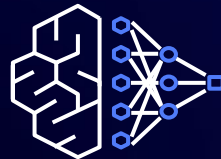
Product Lifecycle Management (PLM)



Engineering Desktops (eVDI)



AI/ML for Simulations



Generative AI

Open Industrial Data Fabric





93%

of industrial companies are convinced AI will be a game changer in driving growth and innovation in the sector\*

\*According to Deloitte [study](#)



# The tipping point for **Generative AI**



MASSIVE PROLIFERATION  
OF DATA

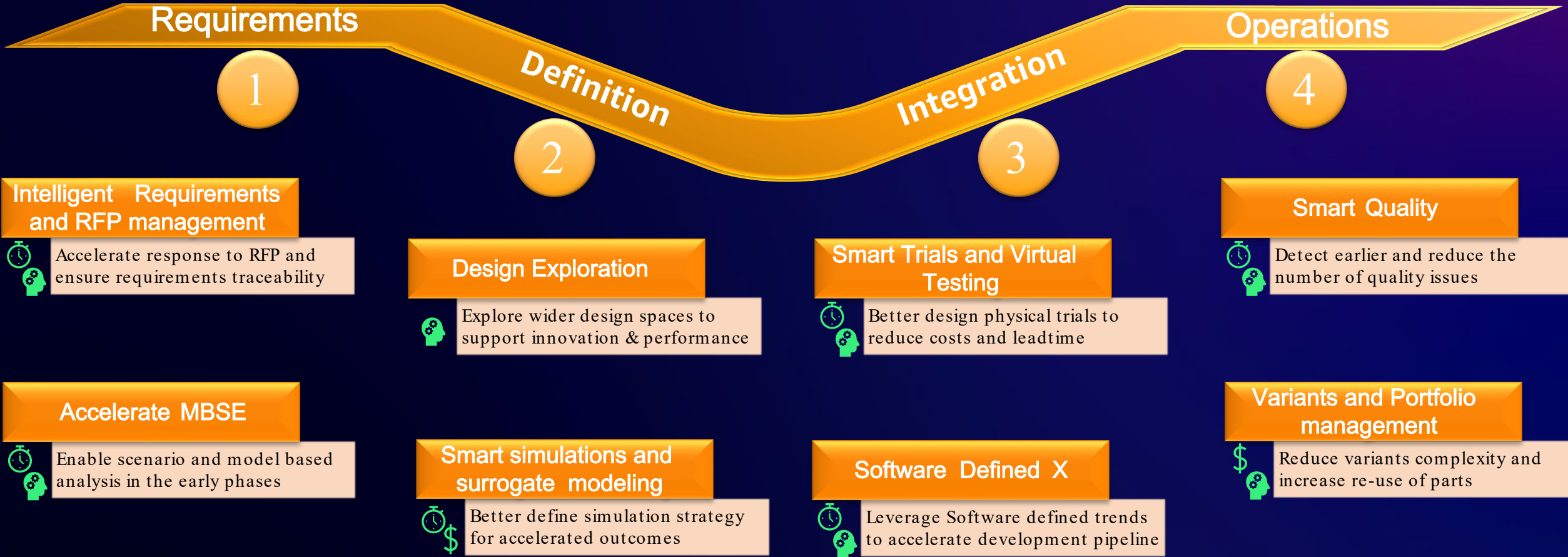
AVAILABILITY OF  
SCALABLE COMPUTE  
CAPACITY

MACHINE LEARNING  
INNOVATION

AI/ML allows to leverage structured / unstructured data and Intellectual Property to create competitive advantage



# GenAI-driven Use-Cases across the Engineering Lifecycle



## Expected Business Outcomes

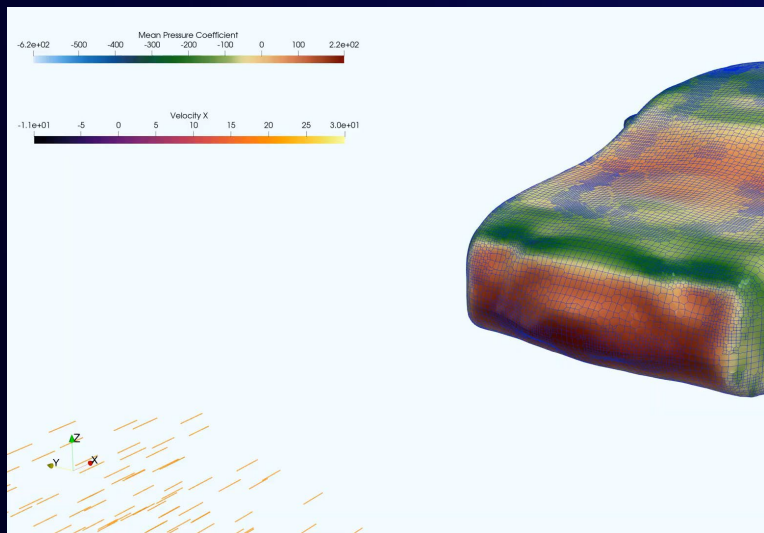
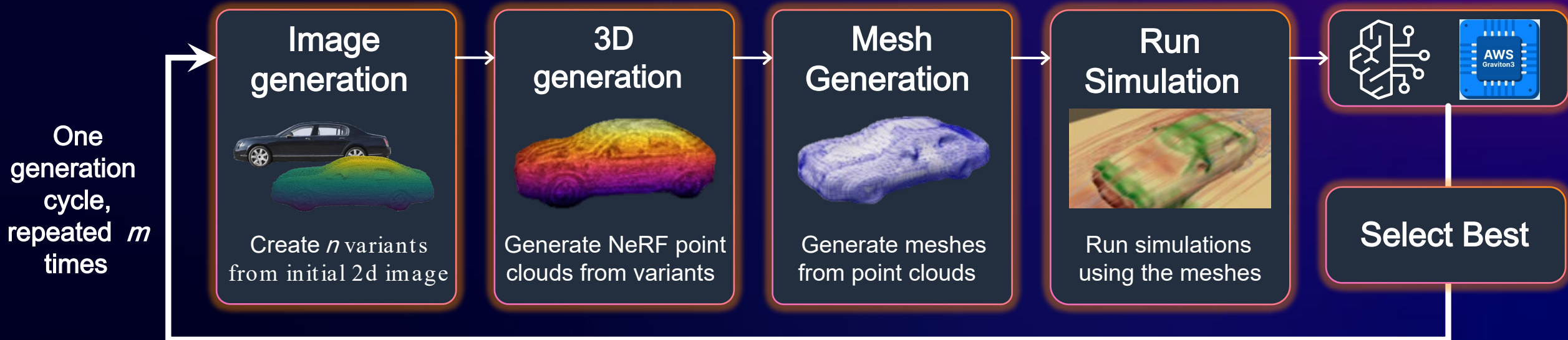
Cost savings

Cycle reduction

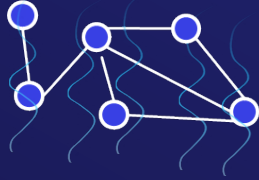
Staff efficiency



# Smart Simulations to Accelerate Time to Outcomes



# Smarter Development with Data - Driven Engineering



## Connect silos and build use cases

enabling business outcomes with digital technologies



## Differentiate with your data

in a secure and private environment



## Increase productivity

with cloud technologies and AI/ML solution stack



## Leverage latest AI/ML technologies

at scale, with a wide selection of cost efficient models



# Come and visit us at the AWS booth

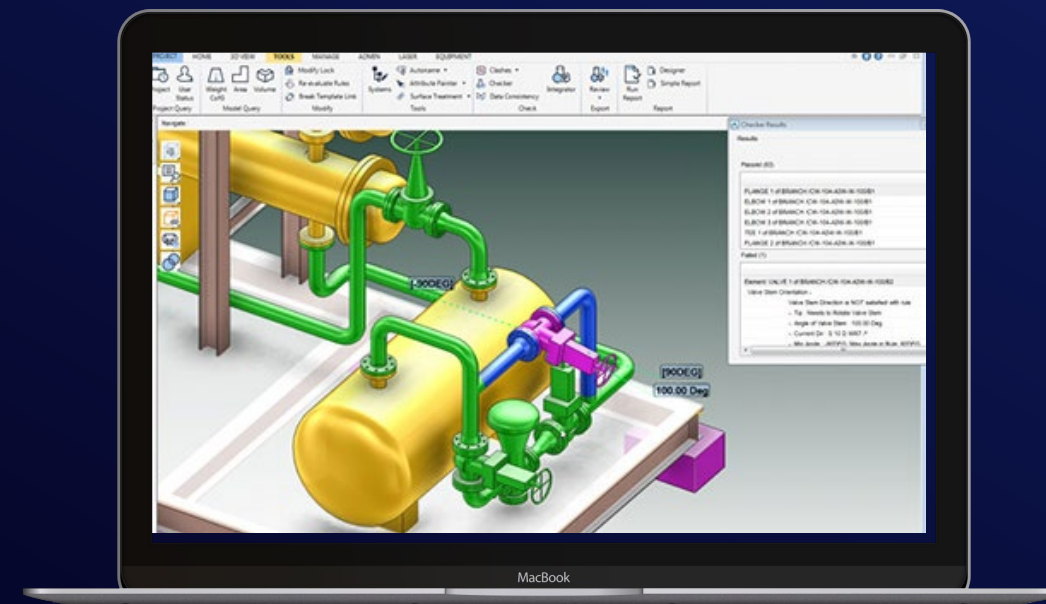
## Join us at booth # 6:

- Future of Engineering with AVEVA Unified Engineering (UE) on AWS
- Further topics (incl. AVEVA PI on AWS and GenAI)

## Highlights of future UE on AWS:

- Broad range of client devices
- No client desktop installation required
- Support for dual monitors

Booth #6





# Thank you!

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