

Platform Strategies and Holistic Product Line Engineering enabled by pure::variants

pure-systems from PTC

ALM Connect 23 - November 2023


pure-systems at a glance




Established 2001,
acquired by PTC in
October 2023


Automotive,
Aerospace/Avionics,
Defense/Security,
Rail/Transportation,
Industry Automation,
Semiconductor

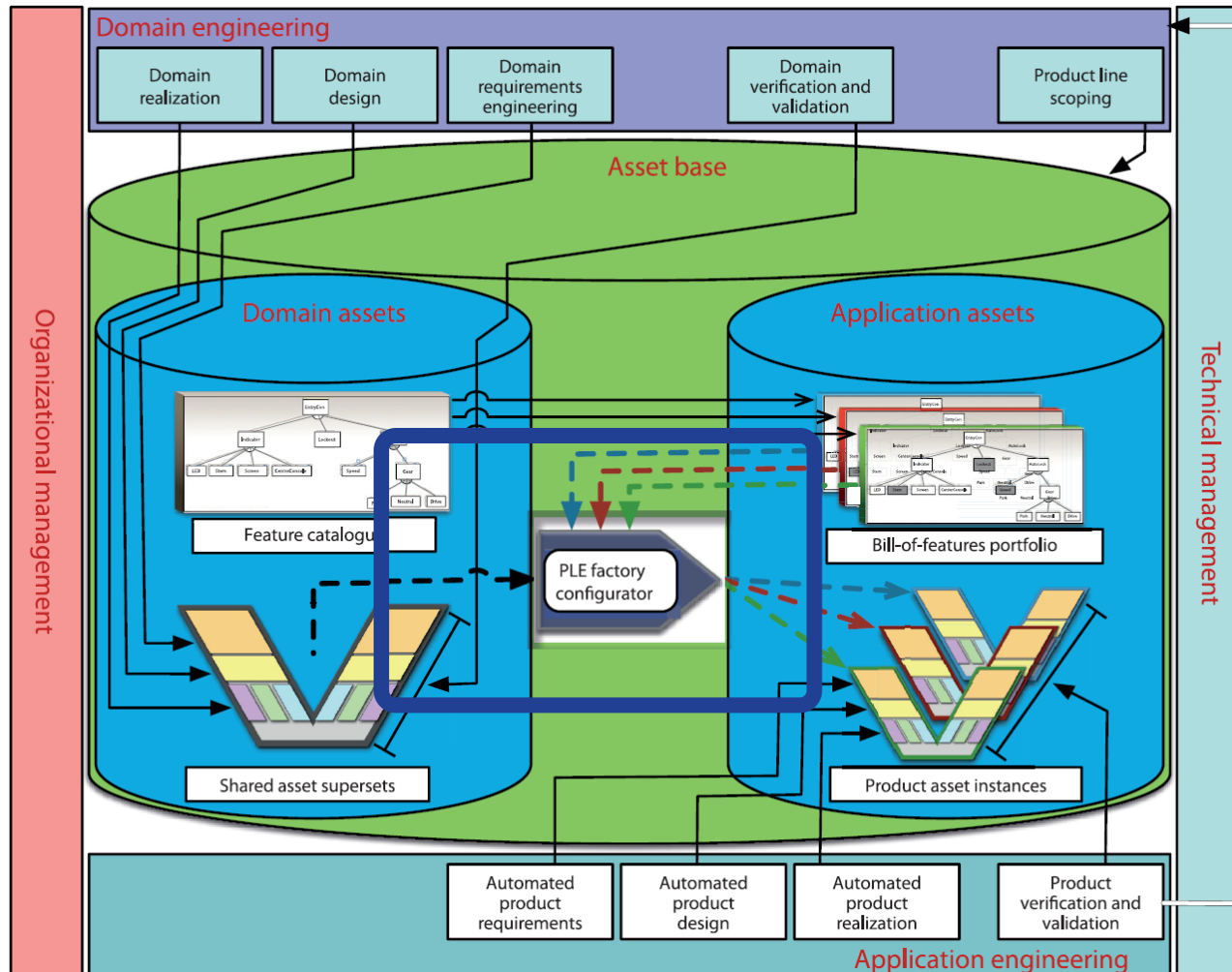

p::v is fully compliant
with ISO 26580, a
standard for Feature-
Based PLE


Memberships
AUTOSAR,
INCOSE/GfSE,
OASIS Open,
prostep ivip,


Research projects
SAFE, SPES-XT,
VARIES, REVaMP²



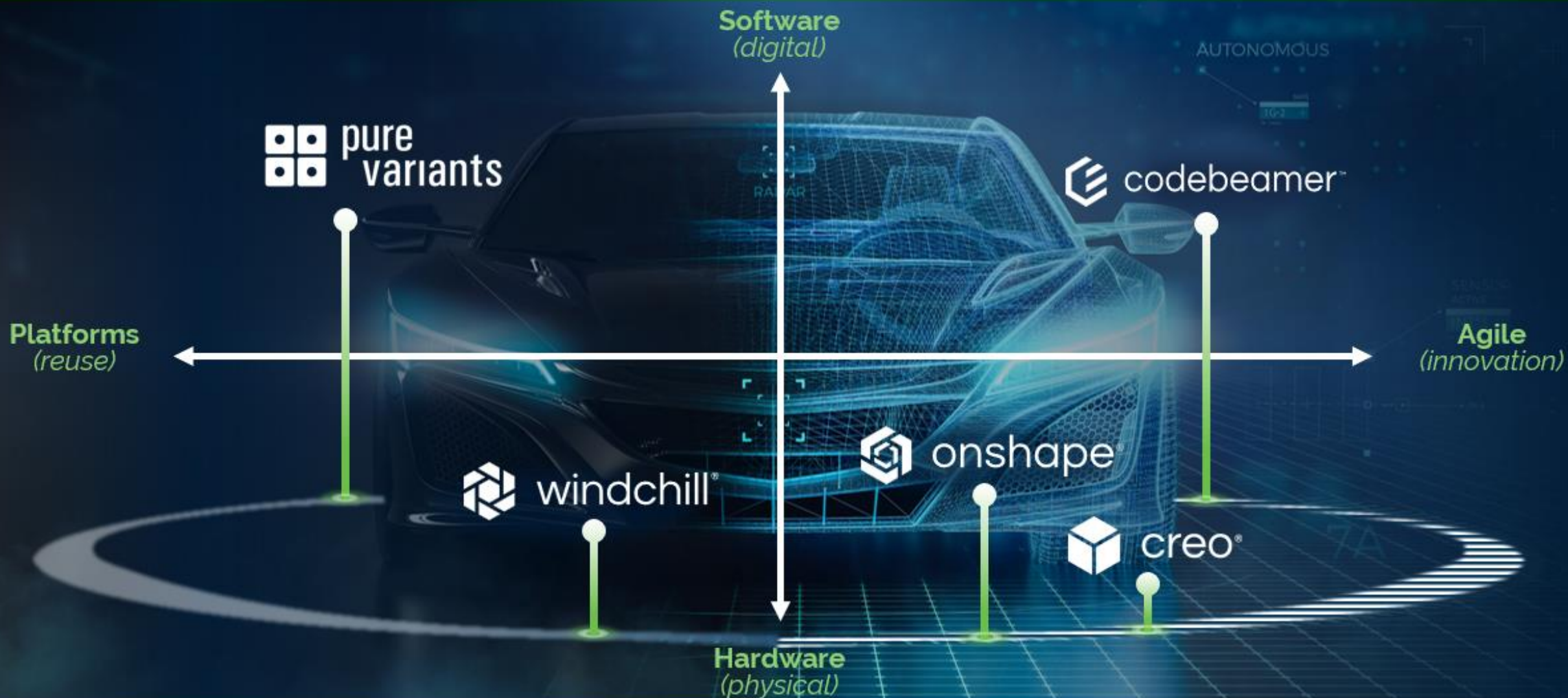
ISO 26580 - an industry standard for Product Line Engineering (PLE)

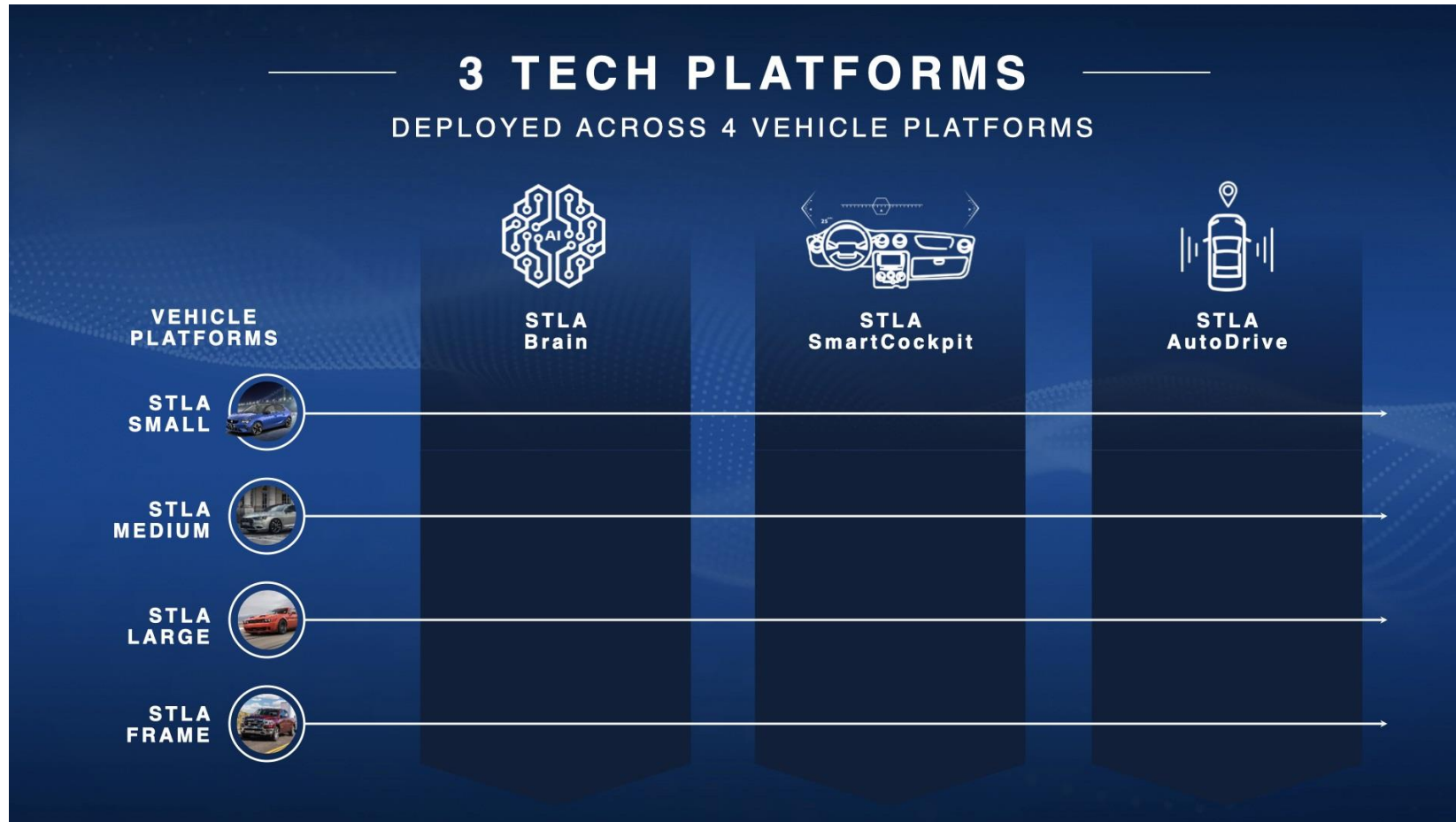
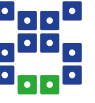


pure::variants - PLE Factory Configurator for Feature-Based PLE
pure::variants fully implements the ISO 26580 PLE Standard
pure-systems was part of the INCOSE working group that worked out this standard



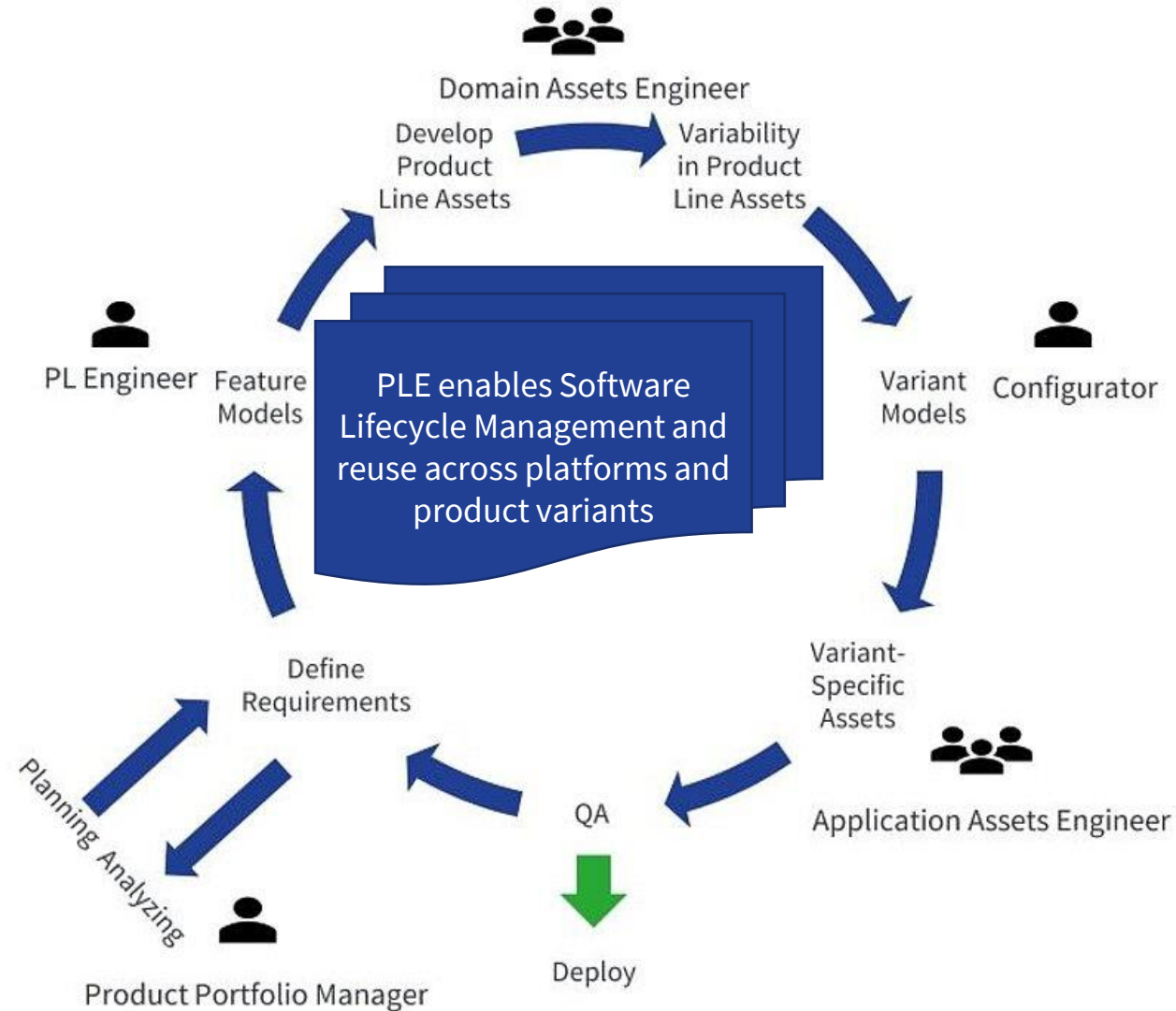
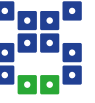
ENABLING SOFTWARE DEFINED PRODUCT INNOVATION



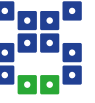


© Stellantis – Source: Stellantis Software Day 2021 - <https://www.stellantis.com/en/investors/events/sw-day-2021>

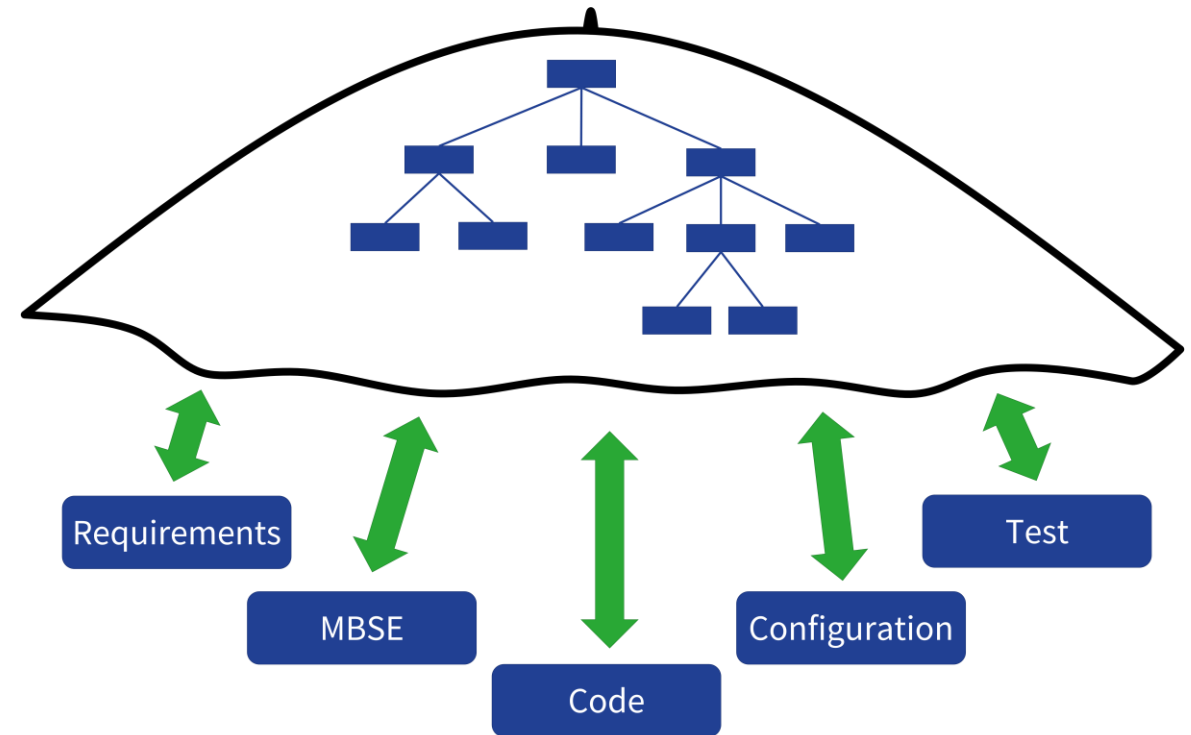
Product Line Engineering (PLE) – Role in Software & Platform Lifecycle



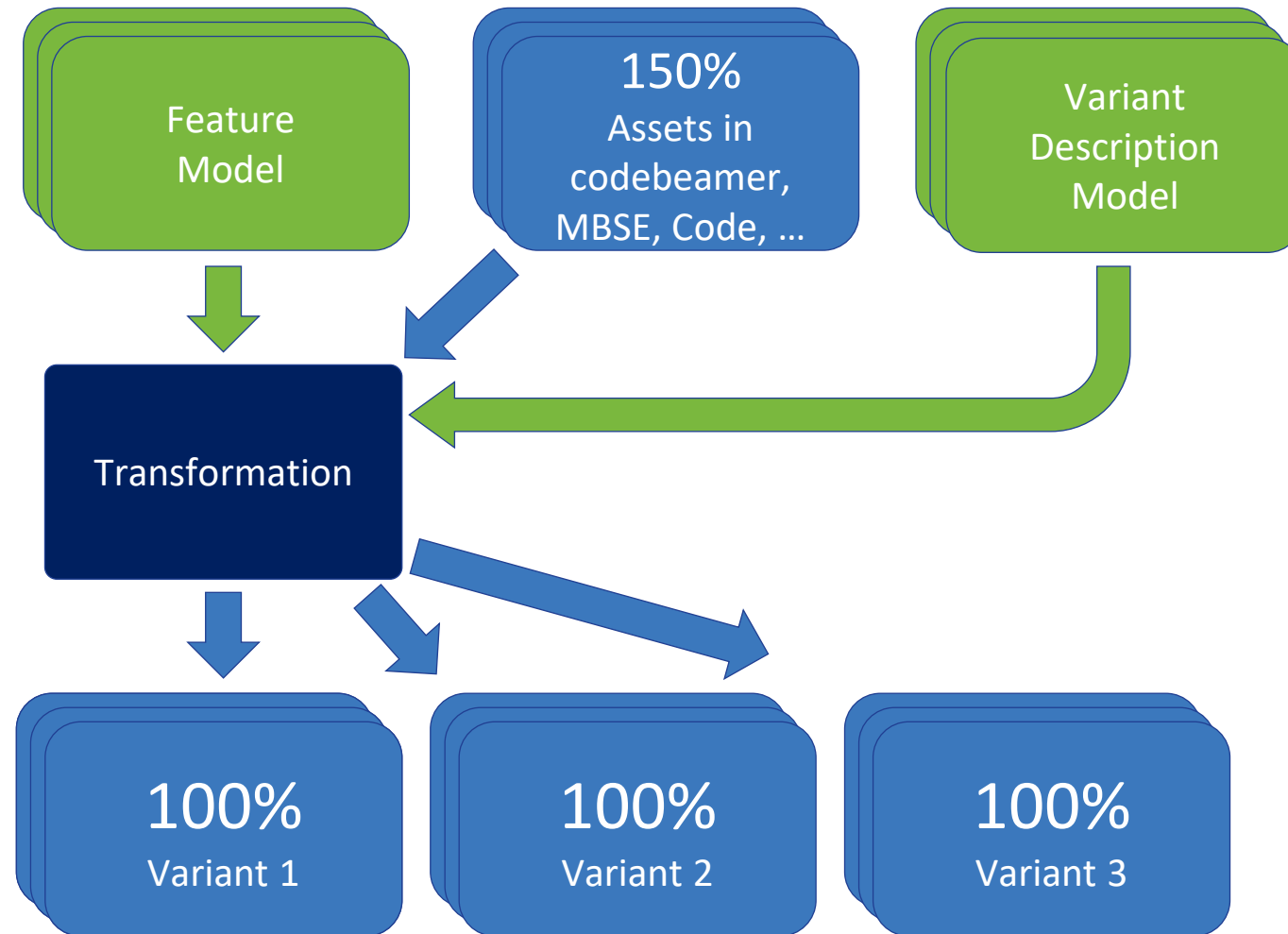
pure::variants – Holistic Product Line Engineering - Key features



- Modelling of a central consistent high-level feature model for a product line
- 20+ active connectors & APIs to most relevant engineering tools (e.g. Requirements, MBSE, ...)
- Convenient, consistent and automated configuration of valid product variants
- Supports structural and parametric variability
- Automatic creation of the variant in each integrated engineering tool
- Advanced functionalities for dealing with complex systems of systems and product lines of product lines



pure::variants Core Terminology & Concept



Product Line Engineering Implementations



PALFINGER

International technology and mechanical engineering Company. World's leading producer and provider of innovative crane and lifting solutions.

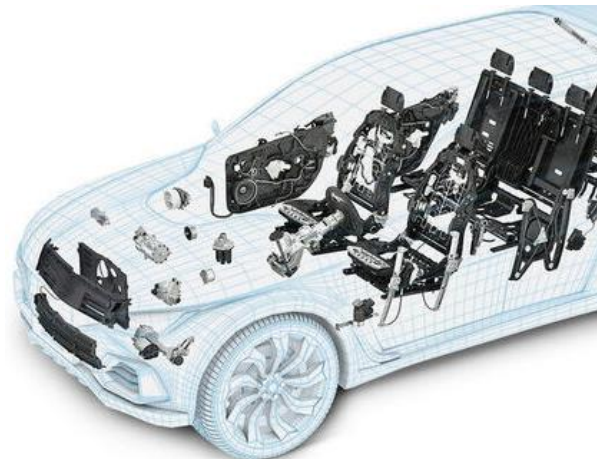


OEMs

German premium vehicle automotive brands and the three top global car manufacturers by production volume

HONEYWELL AEROSPACE

Manufacturer of aircraft engines, avionics and aviation products. High focus on NextGen technology.



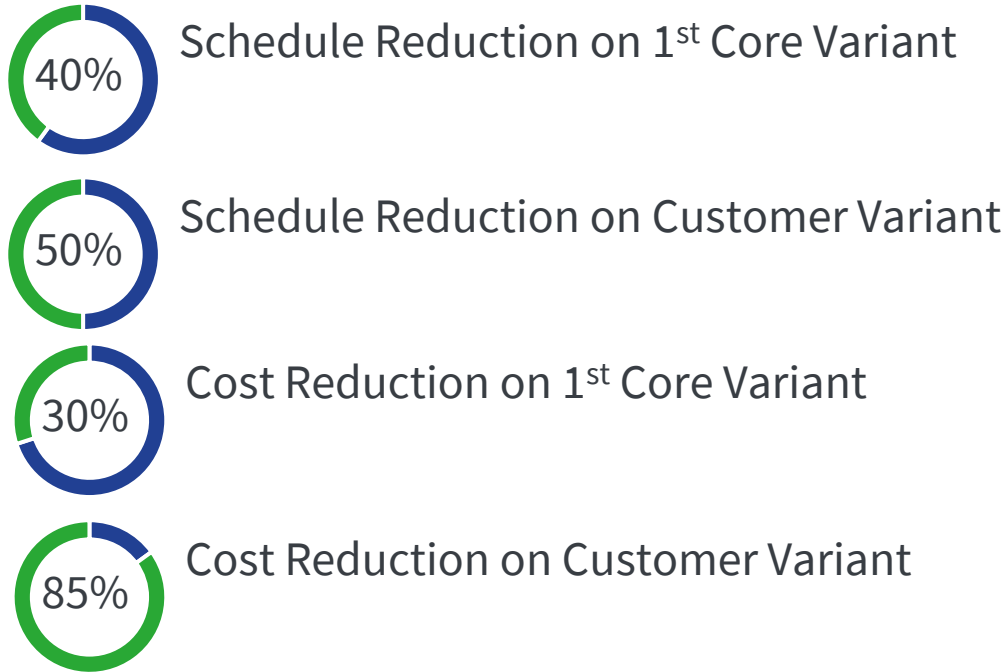
TIER 1 SUPPLIERS

Global top three TIER 1 automotive suppliers .



Proven PLE approach across sectors

Honeywell Aerospace – Product Line Engineering & Scaled Agile Principles



Source: Aviation Week Program Excellence Awards 02 November 2022 -- Nomination Form – Honeywell MicroVCS program
https://adprograms.aviationweek.com/content/dam/Informa/adprograms-aviation/2022/programexcellence/2022_submissions/supp_sysdd/SupplierSysDD_Honeywell_Micro_VCS_50.pdf

Thank You!



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Questions?



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