

Turbochargers between innovation and lifetime service - challenges for PLM

Intelliact PLM Event

2025-09-18



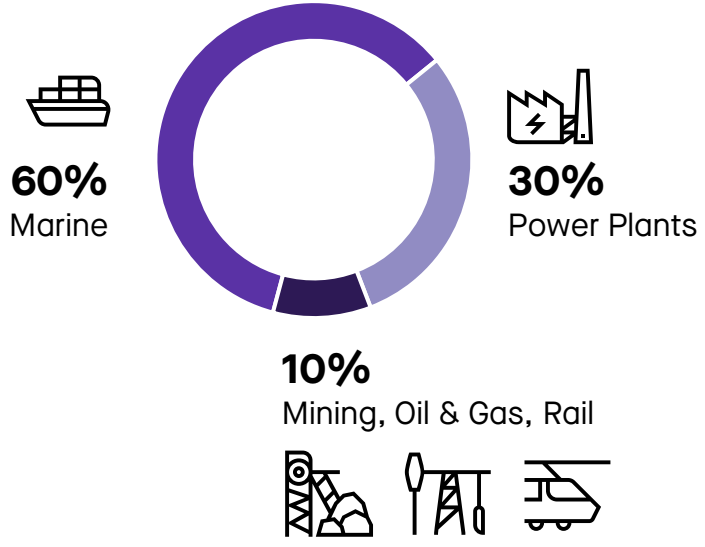
01

Accelleron's – Who we are
and what we do



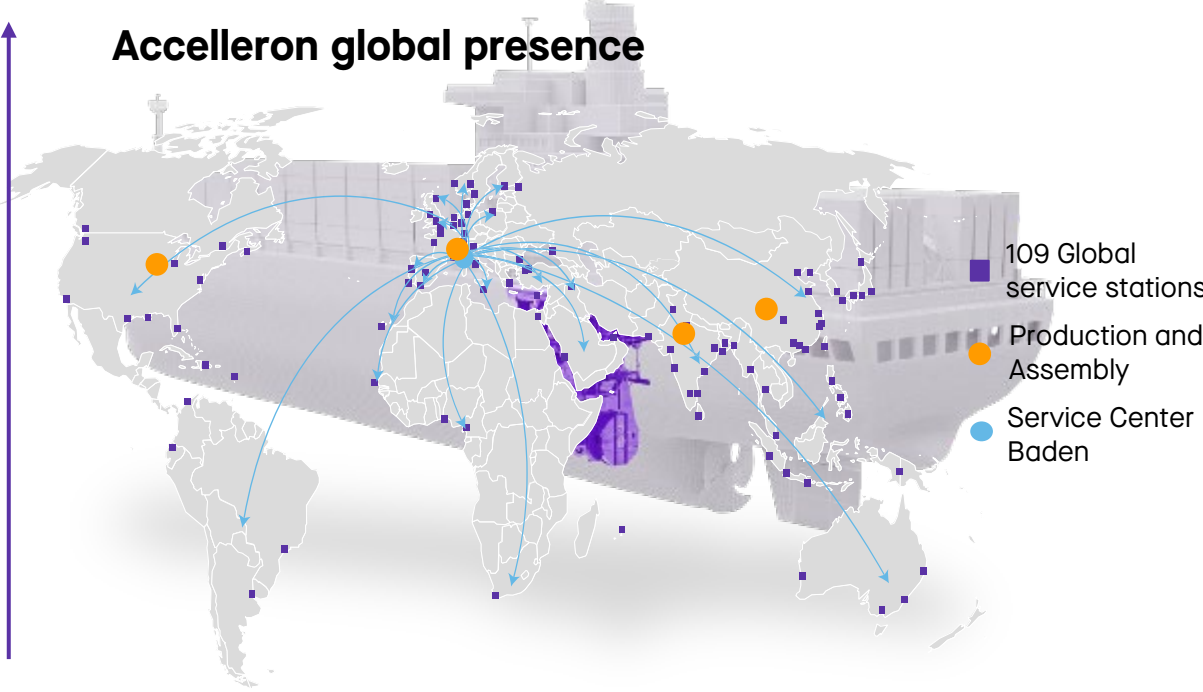
Accelleron is a major player in the global industry for turbochargers, fully independent from ABB after a compressed separation timeline

Accelleron facts and figures



Technology Partnership to strive for sustainable fuels

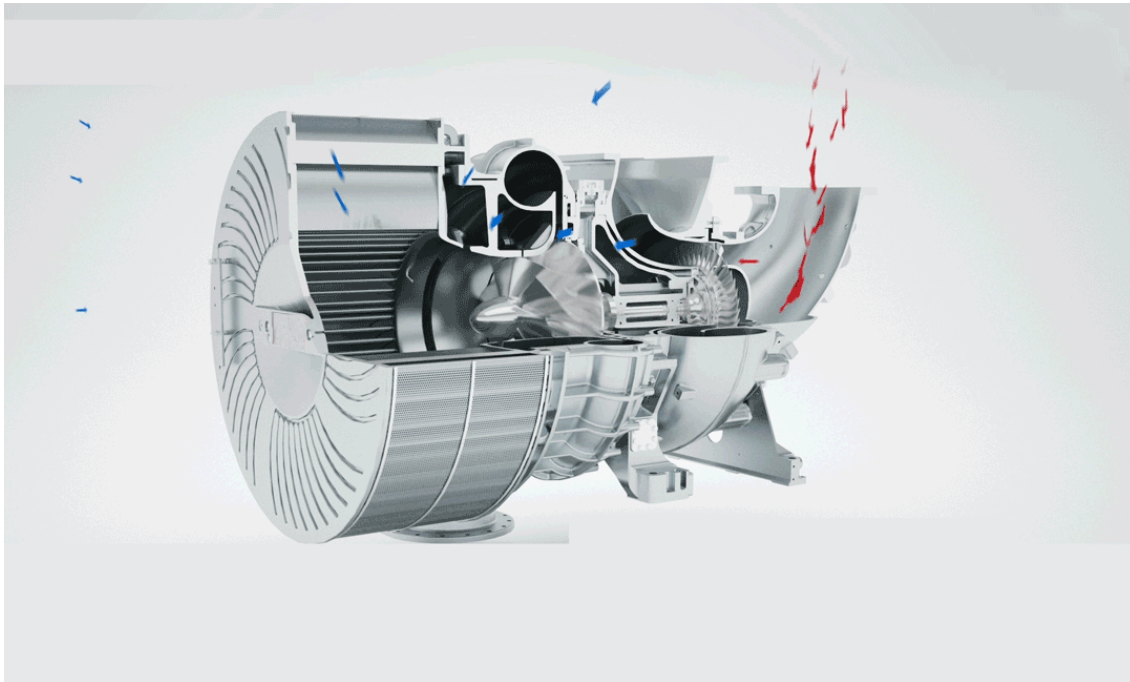
Accelleron global presence



> 200'000 Turbochargers in operation	> 6'000 Customers served per year	75% Service 25% Product Business	+300% More engine power	10% Lower fuel consumption	60% Lower NOx emissions
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Turbocharging technology helps end users achieve key decarbonization and financial KPIs

How does a turbocharger improve engine performance?



Adding a turbocharger to an engine helps to...

... increase power by up to 300%

... lower fuel consumption and CO₂ emissions by up to 10%

... reduce NO_x emissions by up to 60%

... save OpEx of up to ~\$3m¹ per annum, being multiple times of the initial outlay

Source: Company information

1. For a large container vessel; calculated as 250t of fuel per day at \$500/t for 250 days of operation per annum and assuming 10% fuel savings. Upside potential from carbon credits

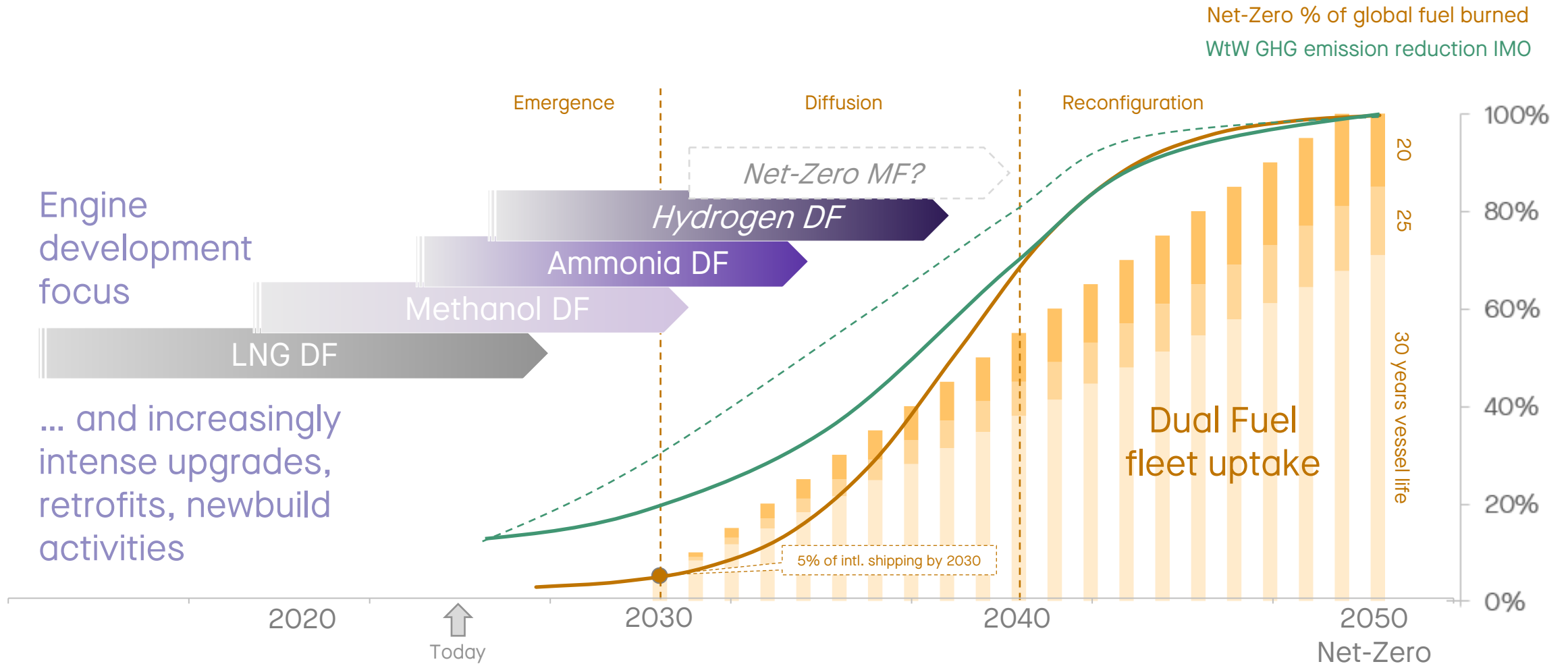
02

Accelleron's purpose of accelerating decarbonization as a global technology leader



Marine

Status and outlook (schematic view)



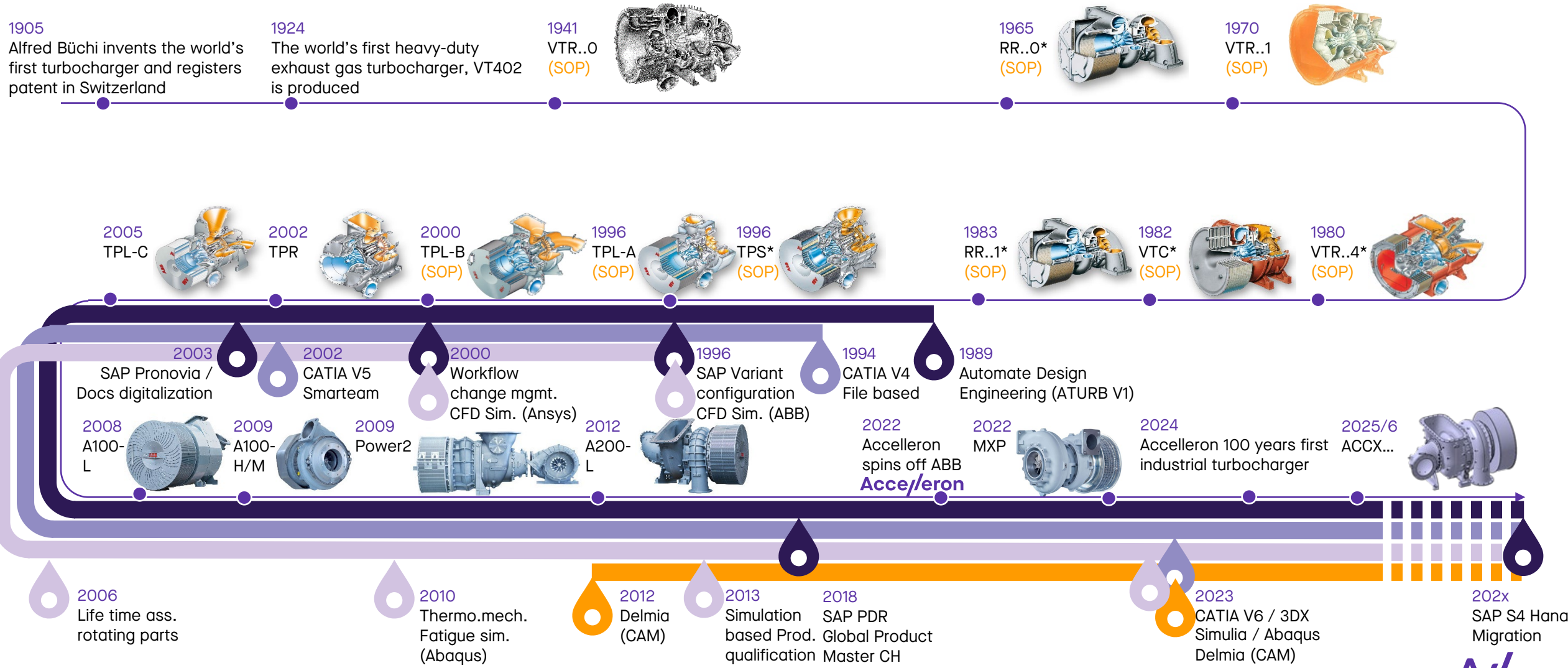
03

Accelleron's PLM - between innovation and life-long service



Accelleron product / PLM history

- Product config. / product master data (ERP)
- 3D CAD (Design)
- 3D based Simulation (TMF, CFD)
- 3D CAM (Manufacturing)
- SOP = Service Only Portfolio
- * Variant configuration enabled



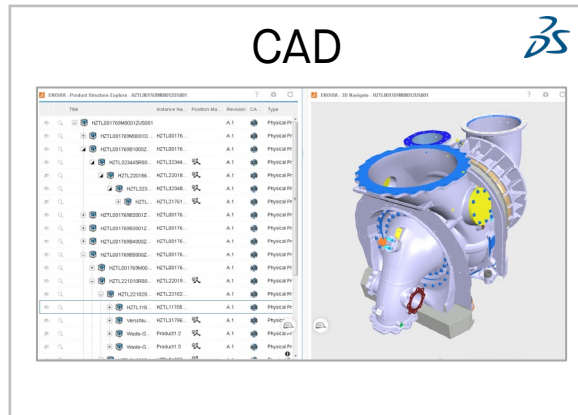
04

Accelleron's journey to latest PDM platform and challenges for the future

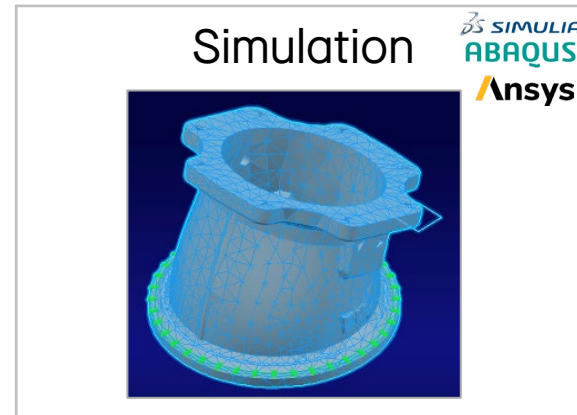


CAD/CAM PDM & PLM environment

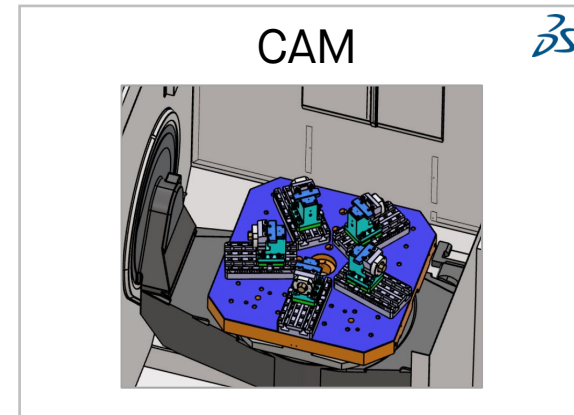
4 main pillars our product R&D / engineering ecosystem



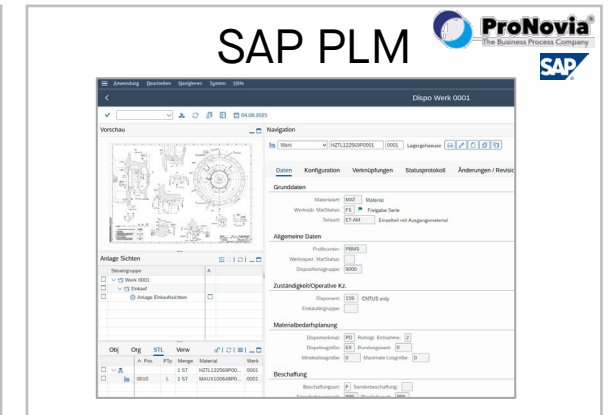
60 active CATIA users
30 reviewing users



20 active CATIA /
Abaqus / Ansys users



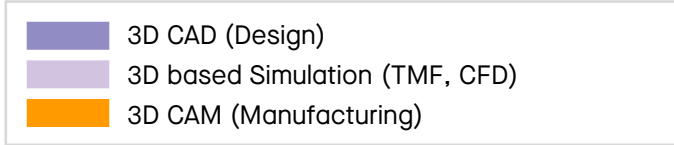
20 active CAM users
23 different machine-
types in manufacturing



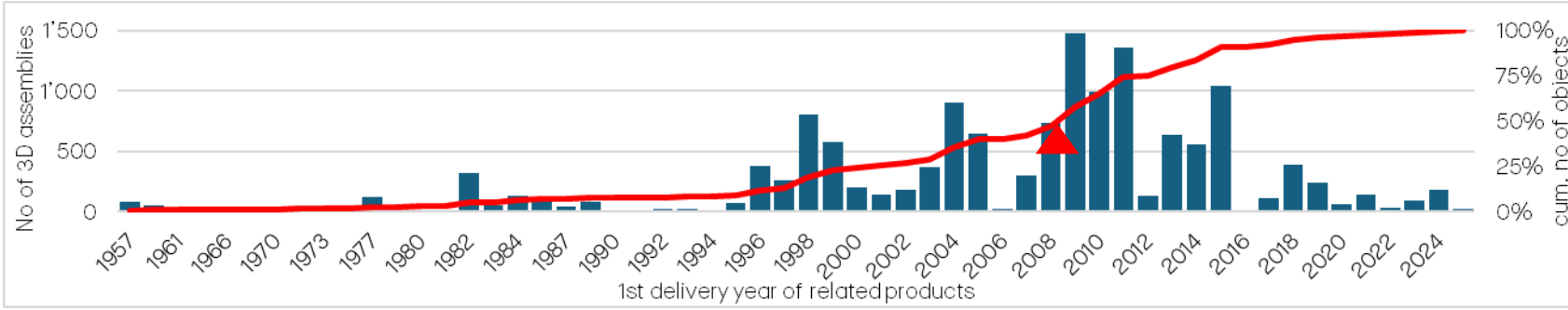
~400 active PLM users
230 active config. TC
>100K active materials
>500K SAP documents

Global PDM migration approach

Insight in data migration with active product population to CATIA V6 / 3DX

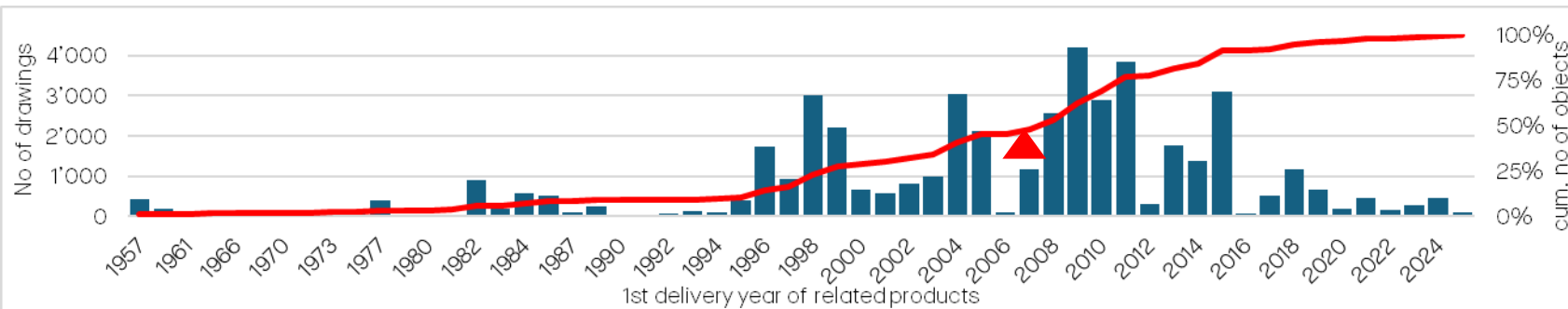


16'330
3D CAD assemblies migrated



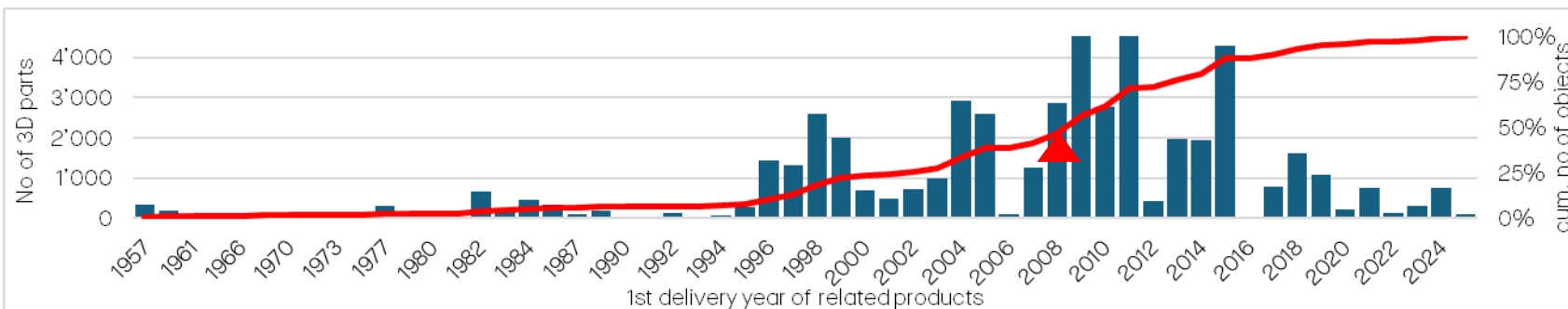
478
Simulation models migrated

53'795
Drawing migrated



4'575
Technically migrated
938
Newly created CAM process

60'991
Parts migrated

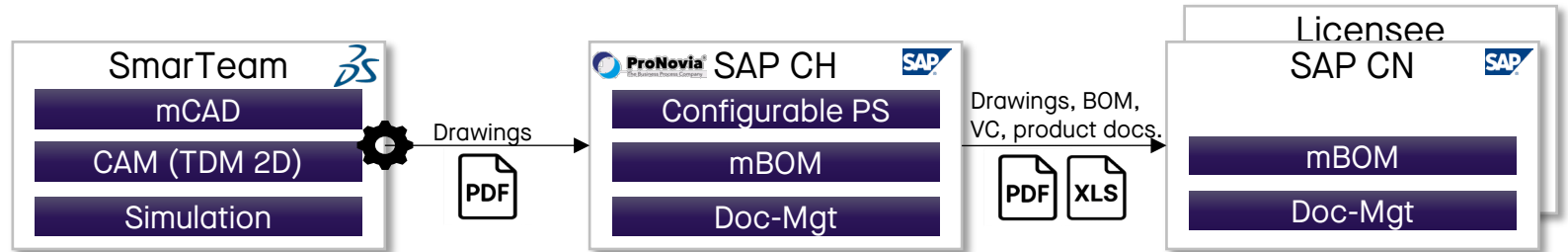


850
New 3D tools created for CAM process



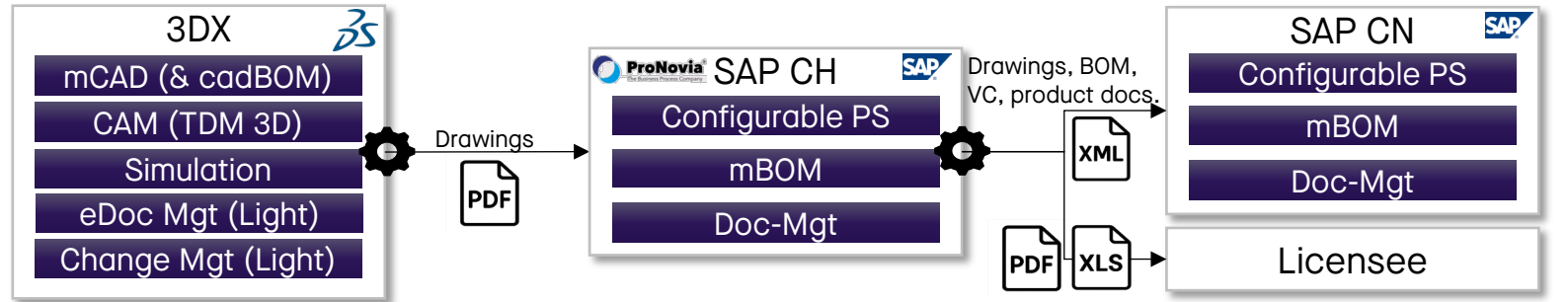
Global PDM migration approach

Starting point



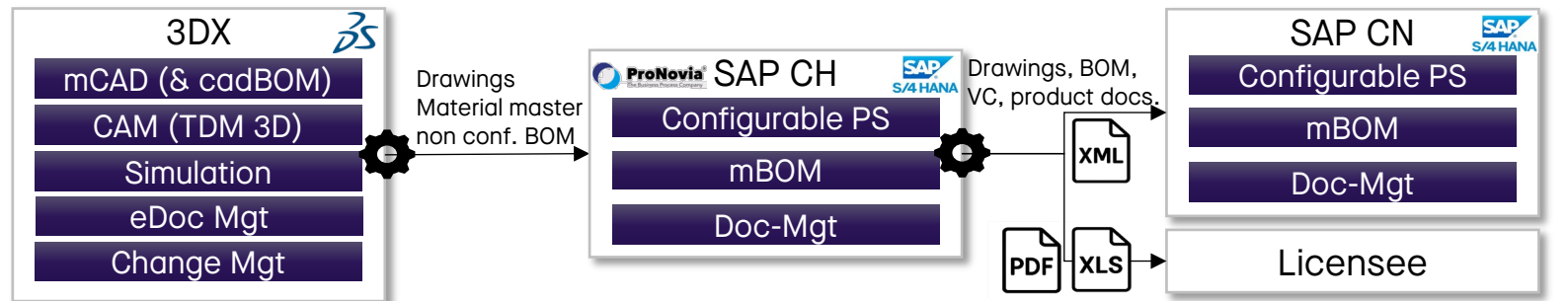
Step: Set foundation

SmarTeam replacement with 3DX
(Status: DONE)



Step: Integrate

End-2-end process integration
(Status: ONGOING)



Considering active product population of Accelleron service business model step-wise migration approach makes most sense. Ambition of is to have «digital twin» supported by PDM and SAP (not PDM only).

Our legacy powers us
today – our innovations
power a sustainable
tomorrow



Acce//eron