

Fluid Power Industry

Software enables

a better

CO₂ footprint



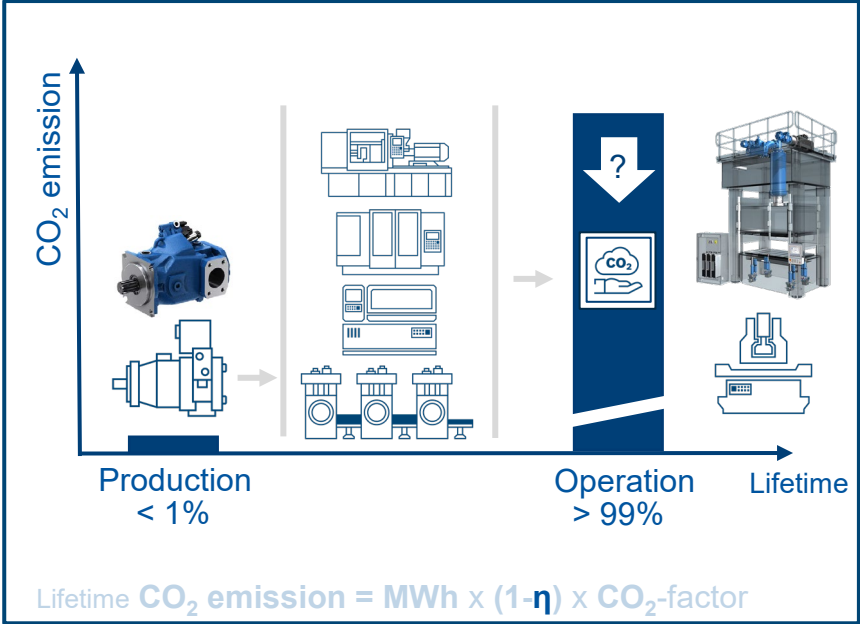
Dr. Steffen Haack
Bosch Rexroth AG

Software enables a better CO2 footprint

Carbon Footprint Scope 3



▪ Carbon Footprint Scope 3

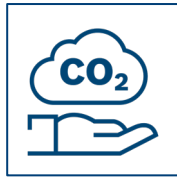


Possible Measures

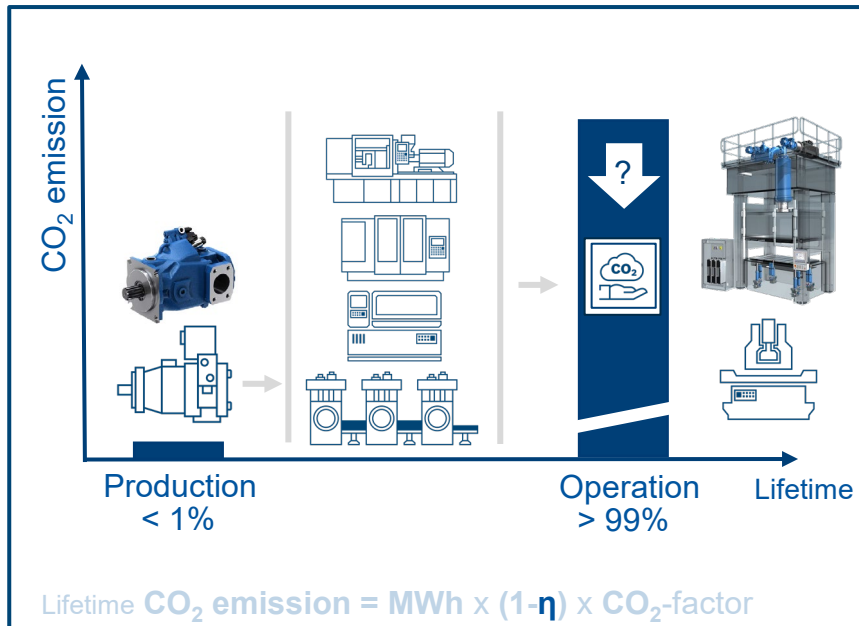
1. Mechanical Components
2. Hydraulic System Architecture
3. Mechatronic Components
4. Mechatronic System

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Carbon Footprint Scope 3

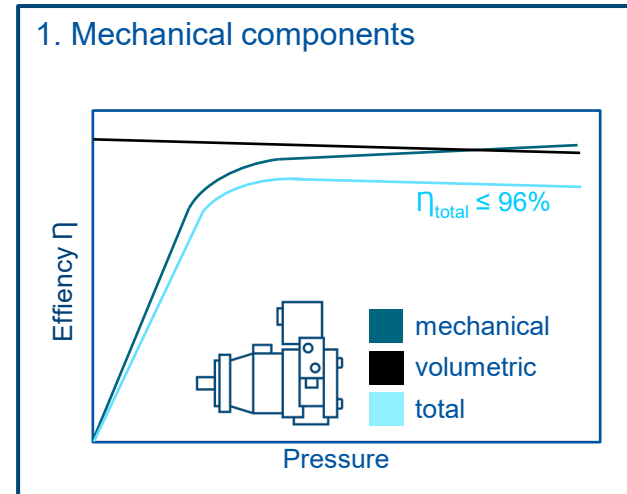


- Carbon Footprint Scope 3



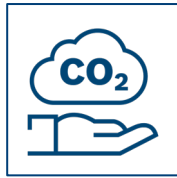
Possible Measures

- Mechanical Components
- Hydraulic System Architecture
- Mechatronic Components
- Mechatronic System

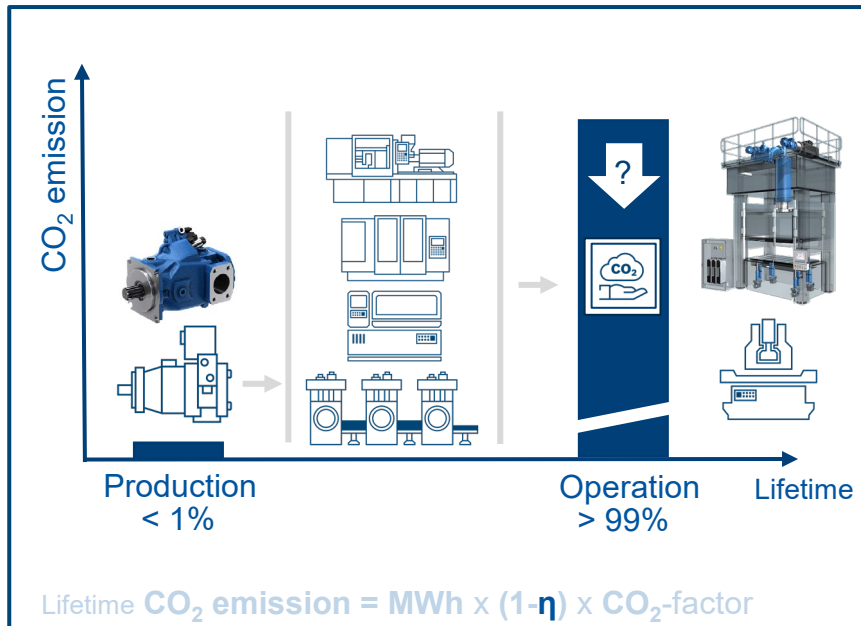


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Possible Measures

- Mechanical Components
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2. Hydraulic system architecture

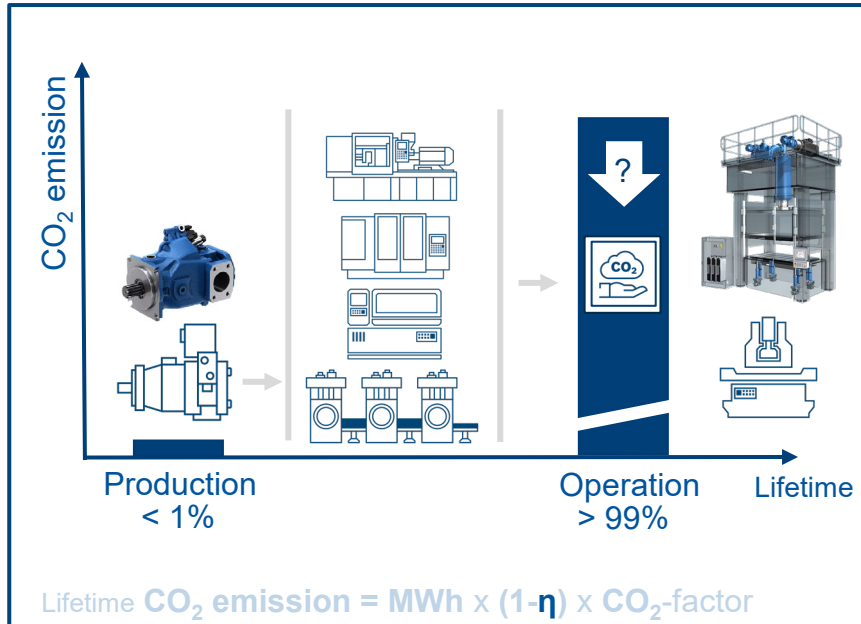
	Differential cylinder		
	1 Pump	2 Pumps	3 Pumps
	1 Drive		2 Drives
Open circuit			
Closed circuit			

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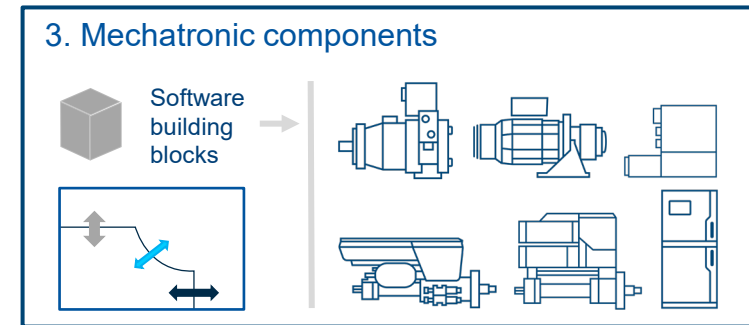


- Carbon Footprint Scope 3



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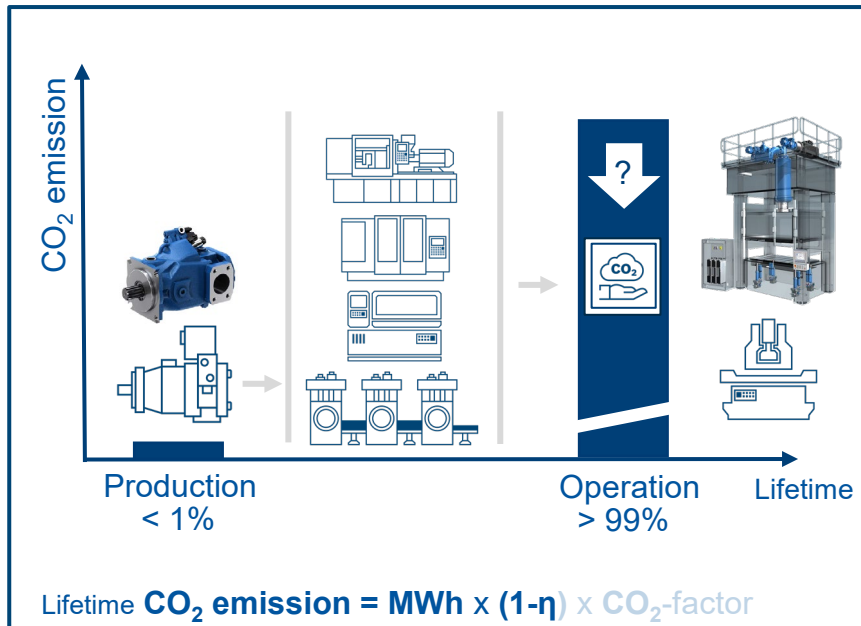


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Carbon Footprint Scope 3

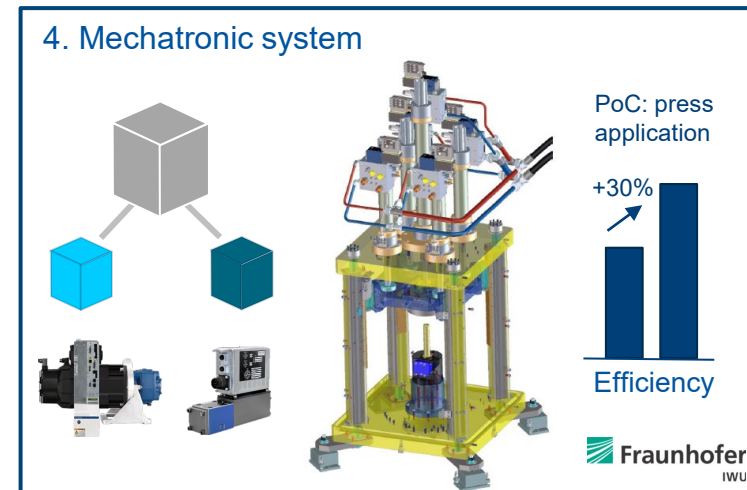


- Carbon Footprint Scope 3



Possible Measures

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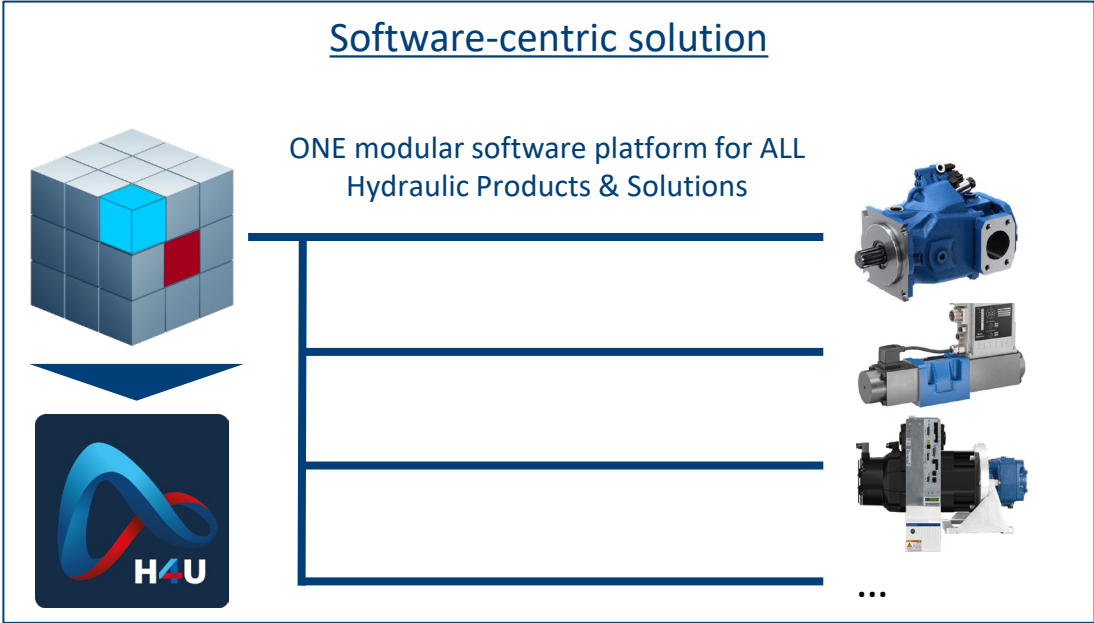
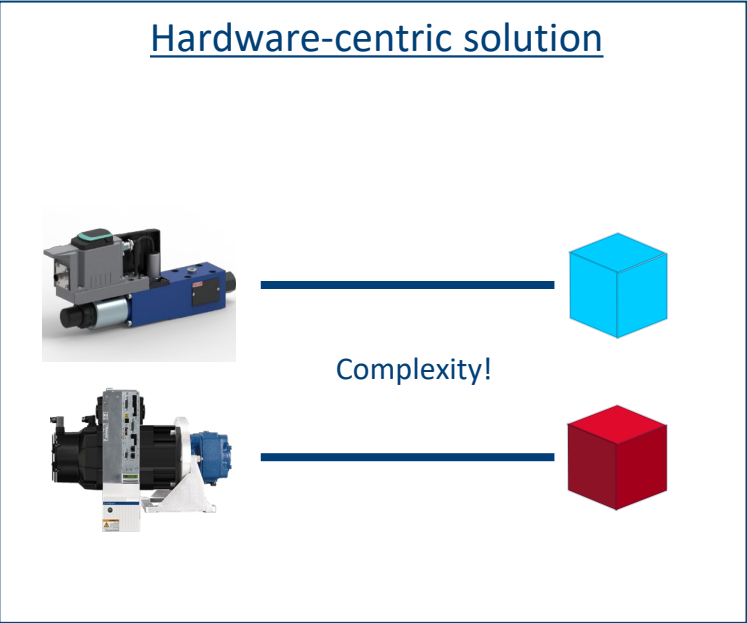


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Software-Centric Hydraulics



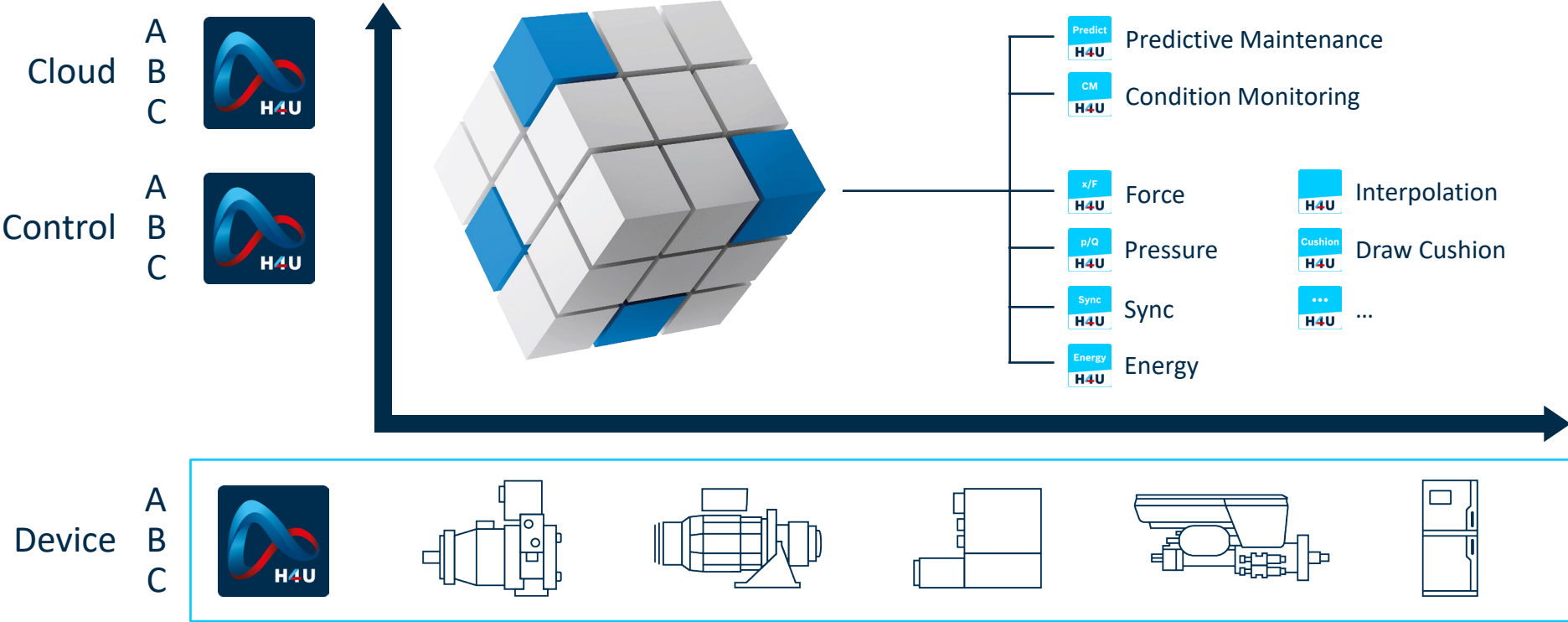
- Carbon Footprint Scope 3
- Economic Efficiency & Faster Time to Market



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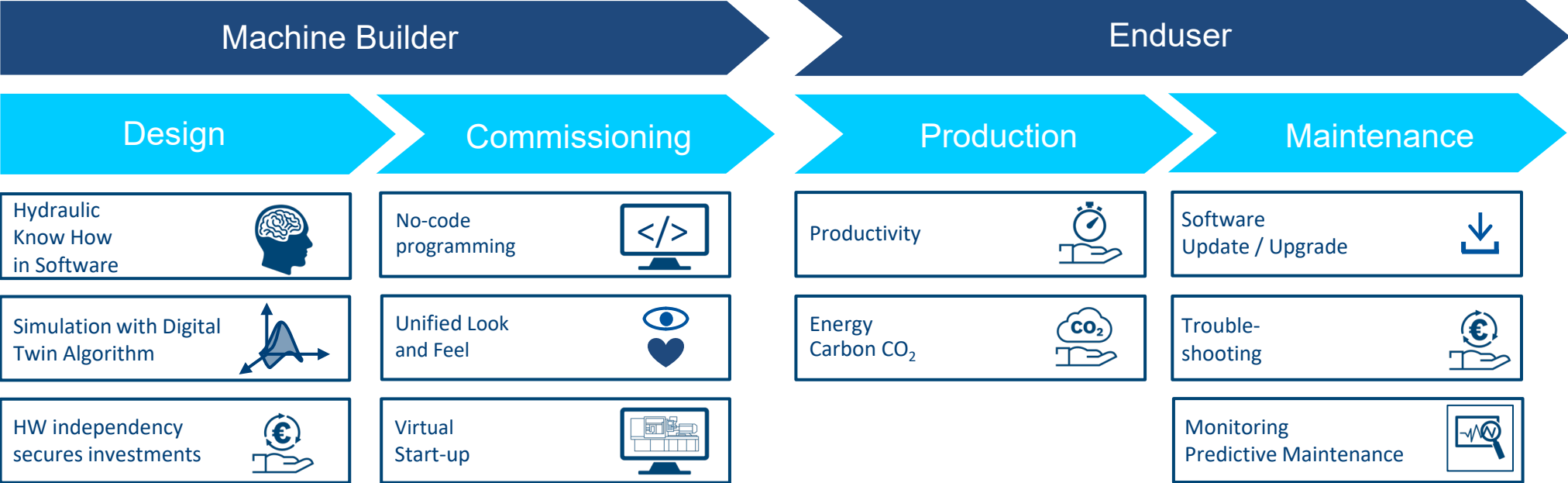
Flexible Deployment

Embedded in open source or established automation ecosystems



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Added value in the life cycle phases





The new digital

dimension of

HYDRAULICS