

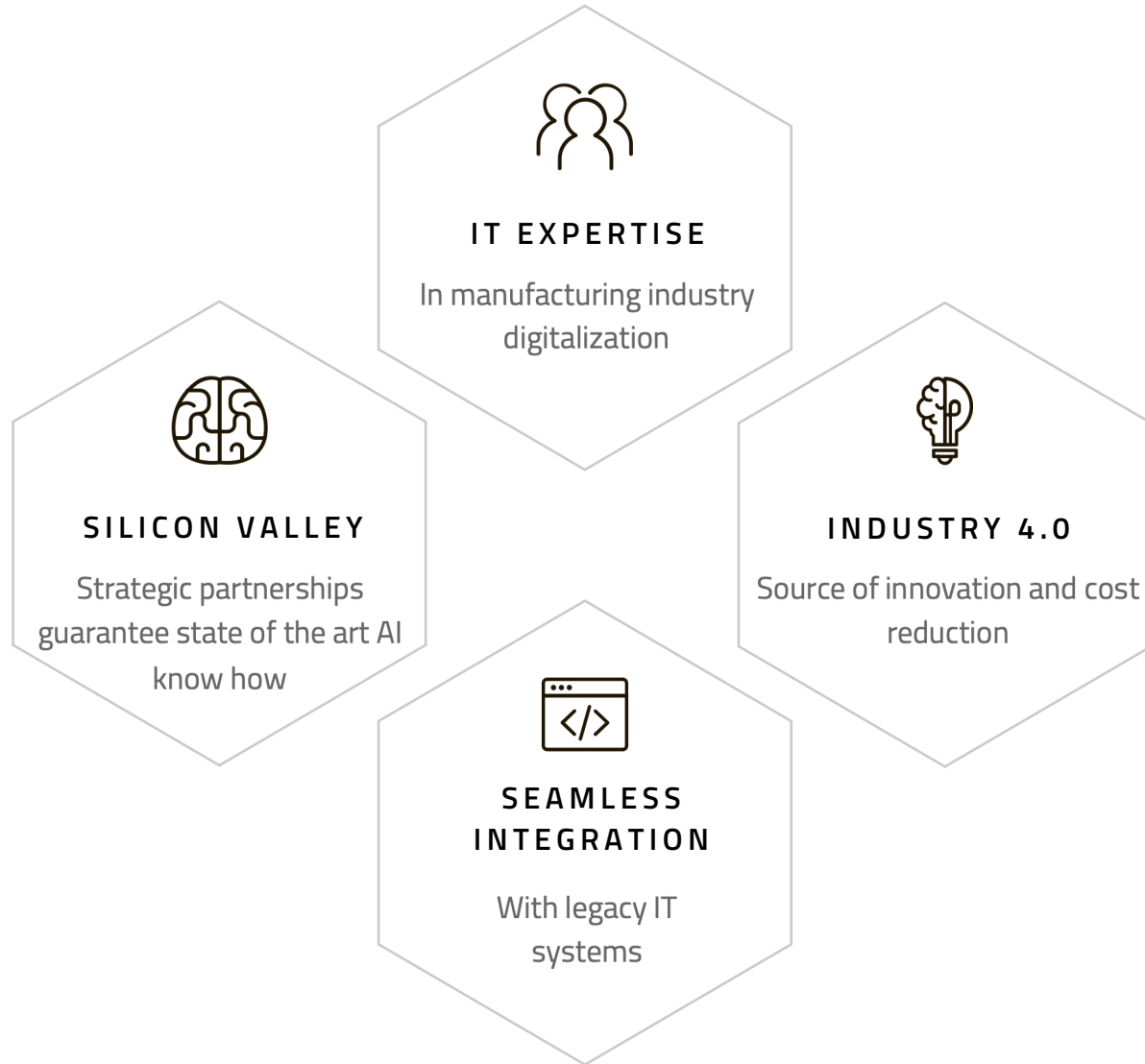
AI BOT Process Guard

PRODUCT PRESENTATION



Smart Factory

Kogler Software Solutions has over 30 years of experience in production process optimization and digitization.



McKinsey Studies

22.04.2018

Artificial Intelligence: Gigantic Neural Network Potential

The creation potential of “Deep Learning”-technology is estimated up to 5.8 billion US-Dollar annually, based on an analysis of 400 cross-sector use cases.

05.09.2018

Artificial Intelligence: Bigger Potential than Steam Engine

In Germany additional growth through AI up to 1.3 percentage points possible, annually predicted global contribution to added value of \$13 billion US-Dollar until 2030.

08.02.2019

Artificial Intelligence: Europe Has Huge Backlog Demand Regarding AI

Through dedicated focus on AI, Europe could increase its economy by 2.7 billion euro or 19 percentage points. Europe fails to leverage key AI technology.

Business Application Research Center Study

According to experts for business intelligence, advanced and predictive analytics are the key to future competitiveness



37%
Better operational process control



29%
Better understanding of market/competition



36%
Increase of turnover



37%
Cost reduction, process efficiency increase



35%
Better customer understanding/
customer experience improvement



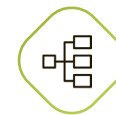
36%
Product/service quality improvement



48%
Better predictability



37%
New business model, product or service development



36%
Better strategic decision support

AI BOT

Process Guard Applications

Automation und optimization through predictive analytics and maintenance

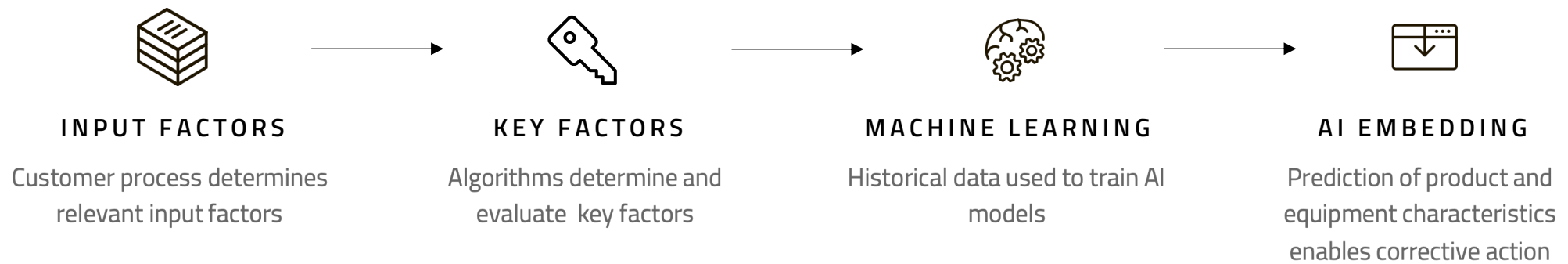
PREDICTIVE ANALYTICS

Predict the probability of future outcomes using historical data and AI algorithms

PREDICTIVE MAINTENANCE

Optimize maintenance intervals and predict equipment failures

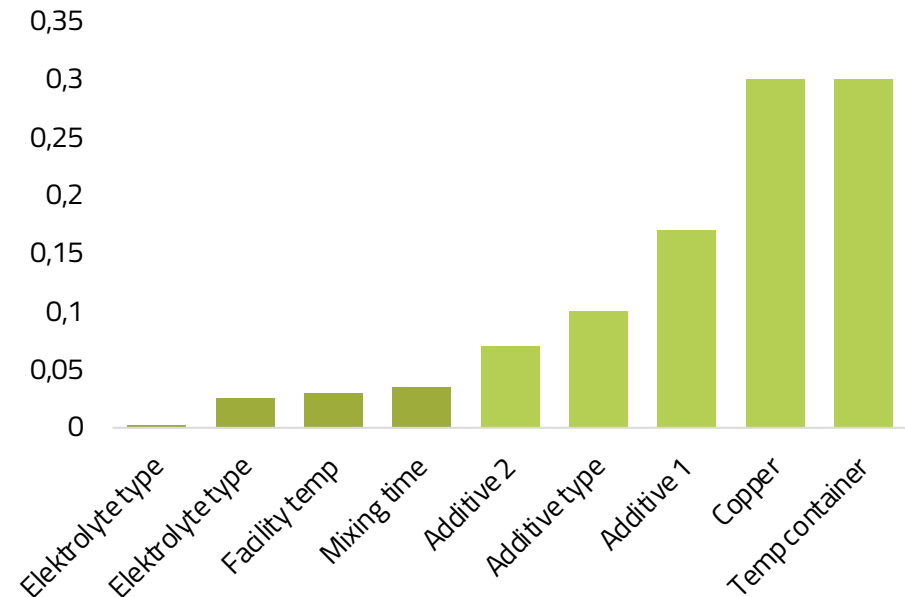
Predictive Analytics



Predictive Analytics Example

Predicting viscosity based on a recipe


Input Factor	Value
Copper	1,100
Additive 1	467
Additive 2	3,646
Mixing time	598
Temperature in container	25
Facility temperature	28
Electrolyte	1,498
Additive type	XTV1
Electrolyte type	RS14
Forecasted Viscosity	307







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Benefits of Predictive Analytics

 Competitive advantage through improved forecasting


 Optimization of product quality

 Minimization of rejects

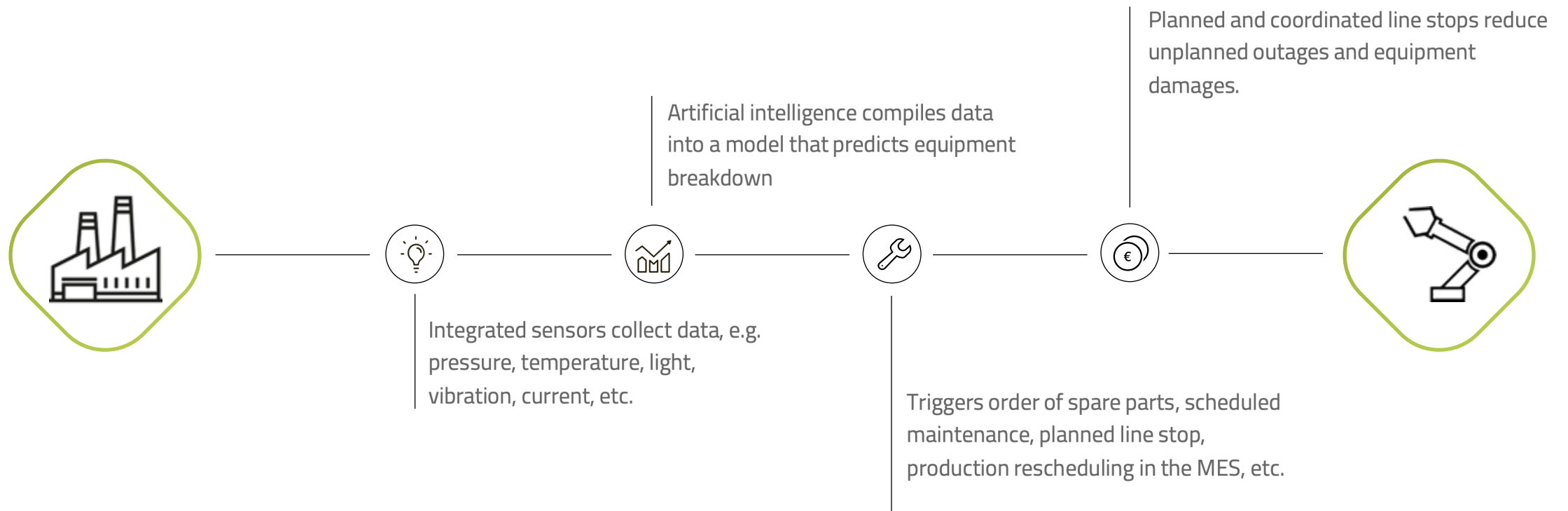
 Rapid amortization

 Structured data can be used to build AI model stacks

 Increased production output

 Optimization of production processes

Predictive Maintenance





AI BOT

Benefits of Predictive Maintenance



Maintenance cost reduction through optimized operational and service procedures



Reduction of machine and facility outages



Sustainably increased productivity



Reduction of energy costs



Increased system availability as well as machine run time



Component life span prediction and extension



Increased product quality



Low capital costs

AI BOT

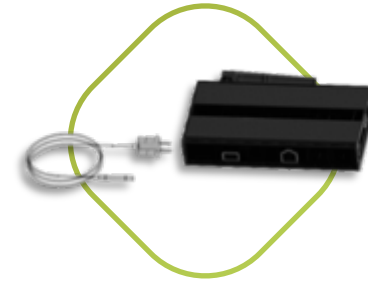
Hardware Appliance and Components



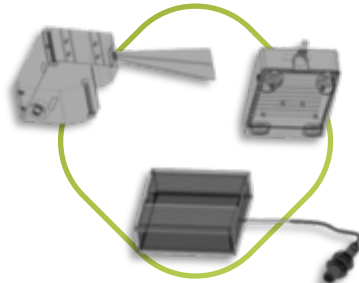
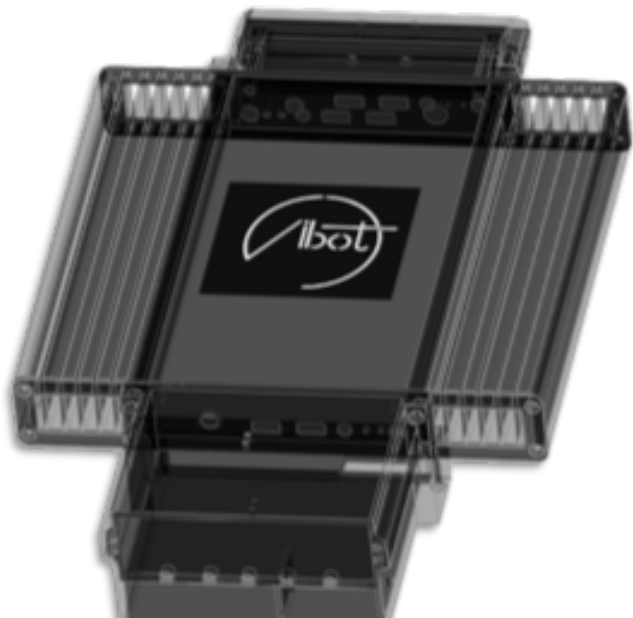
AISENSE PUPLEX
Interface for conventional
measuring and optical
sensors



**AISENSE OPERATOR/
AUDITOR INTERFACE**
Real-time test data and
classification display
(AI retraining)



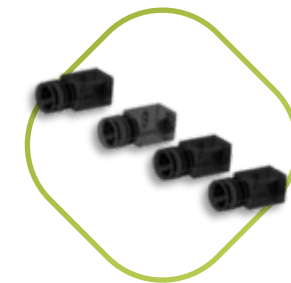
**AISENSE MULTISENSOR
INTERFACE**
Customizable sensor
(temperature, pressure, etc...)



**AISENSE OPERATOR
INTERFACE**
Human operator signal device



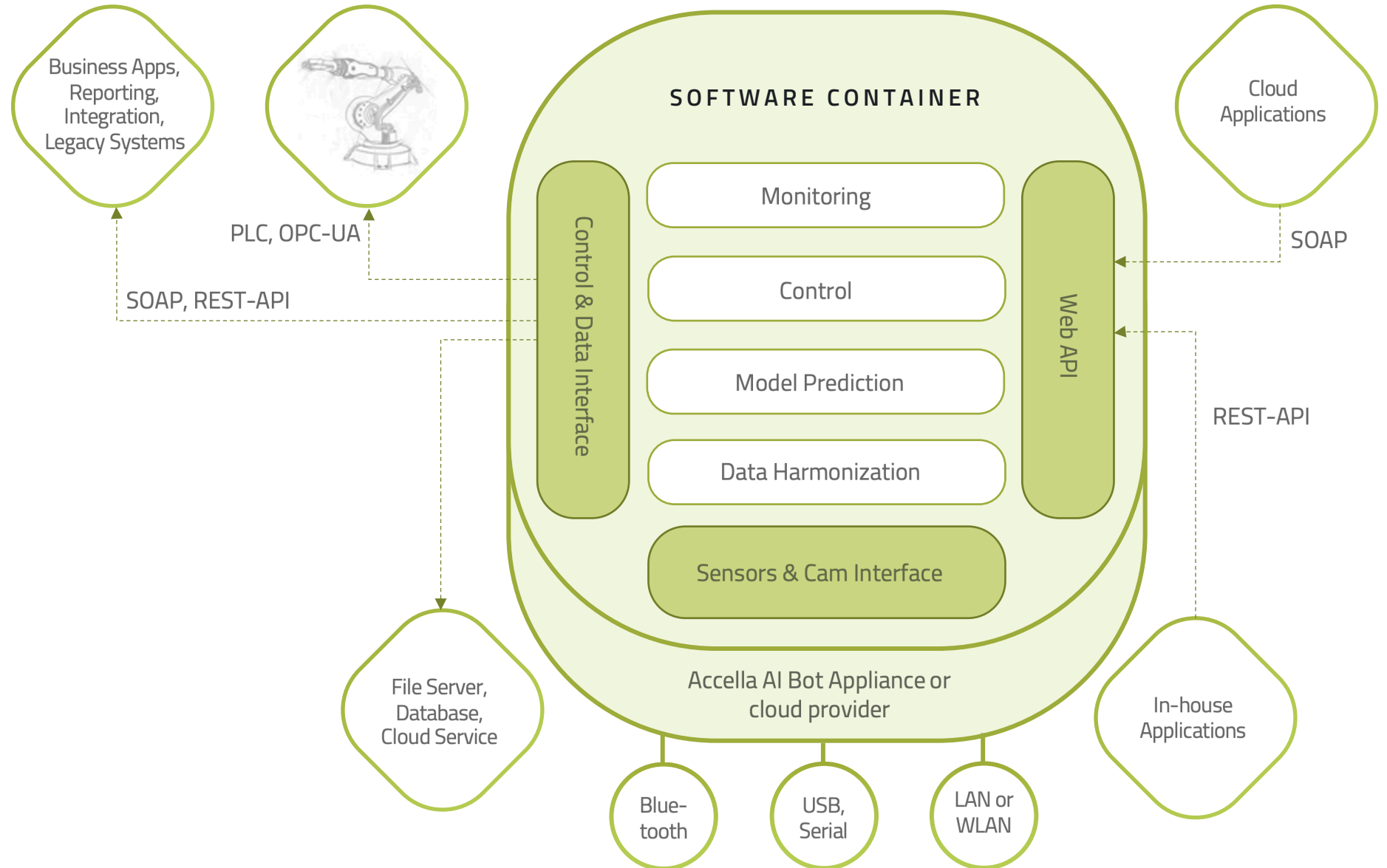
AISENSE PLC ADD-ON
AI Bot Series PLC integration



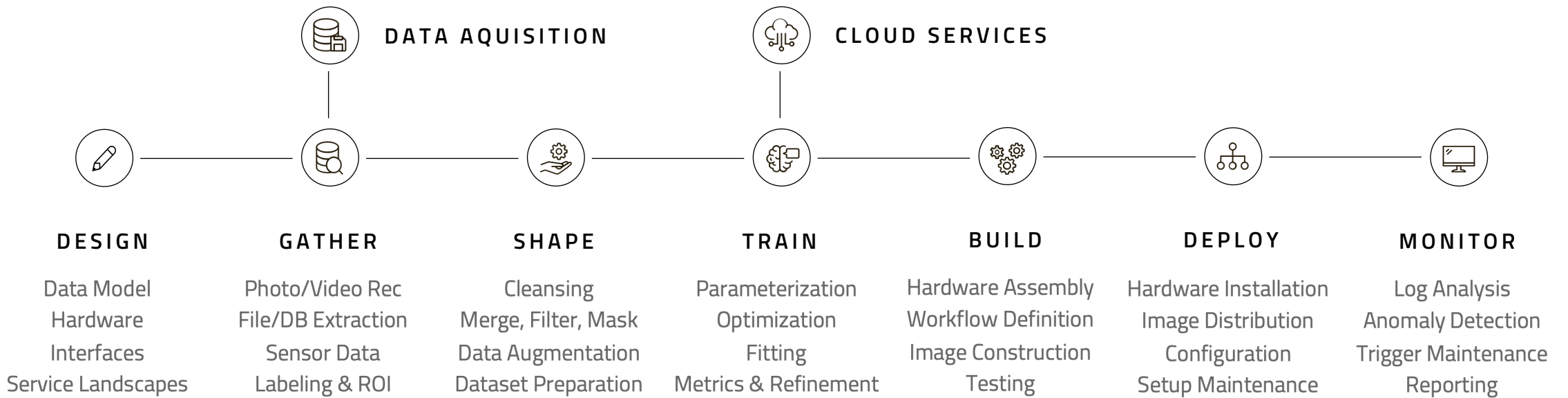
AISENSE VISUAL
Single or multi camera solutions
and custom mounts

AI BOT

Basis Software




AI BOT Life Cycle



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