Transforming Data into Value

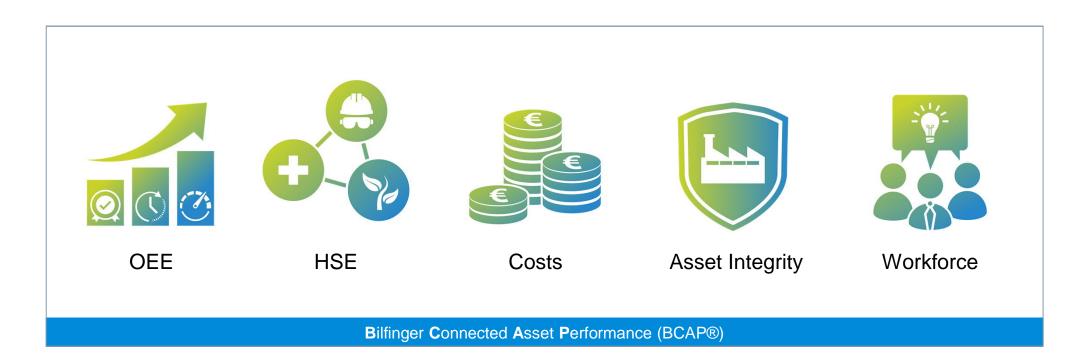BILFINGER DIGITAL NEXT GmbH

Journey towards Digital Transformation

PLANT OF THE FUTURE

TODAY
- Knowledge Capturing
- 3D Plant View
- Legacy Doc Capturing
- Asset Tracking
- Data Visualization
- IIoT Sensoring
- Augmented Reality
- Remote monitoring
- Digital Twin

DATA DRIVEN
- Decision Support Systems
- Root Cause Analysis
- Advanced Process Optimization
- Statistical Process Control
- Predictive Analytics
- Energy Optimization

MODEL DRIVEN
- Blockchain
- Connected Asset Performance
- Real-time Yield Optimization
- Prescriptive Maintenance

AUTONOMOUS

Where Digitalization Matters Most!

| OEE | HSE | Costs | Asset Integrity | Workforce |

Bilfinger **C**onnected **A**sset **P**erformance (BCAP®)

From Data to Value

| ISOLATED DATA | BCAP® SOLUTIONSTORE | BUSINESS VALUE |

Engineering · Operation · Maintenance · Energy · External Data

OEE Improvement · HSE Improvement · Cost Reduction · Asset Integrity Improvement · Workforce Enablement

We turn Data into Value – with our BCAP® Solutions

Solution	Description					
Industrial Tube	Captures, secures and shares technical knowledge on a video platform		++	+	+	+++
PIDGraph	Digitizes brownfield documents with the help of Artificial Intelligence			+++	++	
Virtual Sensor	Measures quality real-time with no prior installation	+++	+	+++	++	
Smart Alerting	Proactively and state-dependently alerts operator of systems	++	+	++	+++	
Plant Intelligence	Gain holistic insights into plant to track and trace improvements	+++		+++	++	
Safety Assistant	Safety overview and risk score for projects and service contracts		+++	++		+++
Cognitive Sensor	Sound-based condition monitoring of multiple equipments	+++	+	+	+	
Smart Search	Advanced search solution for plant documentation		++	+	+++	++

Customer success stories

Sustainable and holistic OEE improvement

Customer challenge

- Isolated systems and department without joint data strategy
- Tremendous efforts to create production reports
- Huge OEE potential based on quality improvements
- Lack of data points to implement predictive maintenance and quality

Increased process stability and performance	**Transparent and efficient OEE visualization**	**Improved data foundation and maintainability**
BCAP® Virtual Sensor	BCAP® Plant Intelligence	Sensor retrofit

Improved alarm management and response time	**Enhanced process data utilization**	**Simple and effective bottleneck identification**
BCAP® Smart Alerting	BCAP® Asset Monitoring	Value stream mapping

+9%   -3%

Sustainable and holistic OEE improvement within 8 months

MÜNZING

Customer challenge

- Isolated systems and department without joint data strategy
- Huge potential based on quality improvements
- Tremendous efforts to create production reports
- No improvement process introduced

Reduced Downtime and unplanned work	**Enhanced process data utilization**	**Reduced Energy through data analysis with operation**
BCAP® Smart Alerting	BCAP® Asset Monitoring	BCAP® Energy Optimizer

Digital Twin connected to BCAP	**Transparent and efficient OEE visualization**	**Increase Productivity by Mixing Time Optimization**
BCAP® PIDGraph	BCAP® Plant Intelligence	BCAP® Improve

+5%   -5%