

AUDIT SERVICES

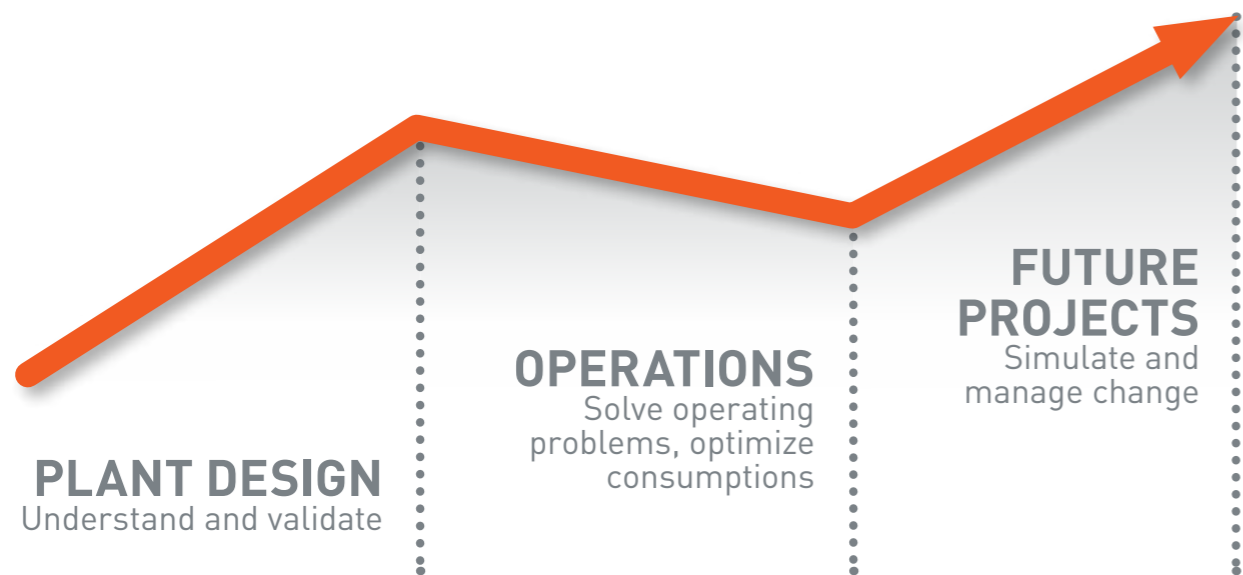
# GET BETTER CONTROL OF YOUR PERFORMANCE



*Performance  
through  
Understanding*



## GET BETTER CONTROL OF YOUR PERFORMANCE



### QUICKLY IDENTIFY IMPROVEMENTS AREAS

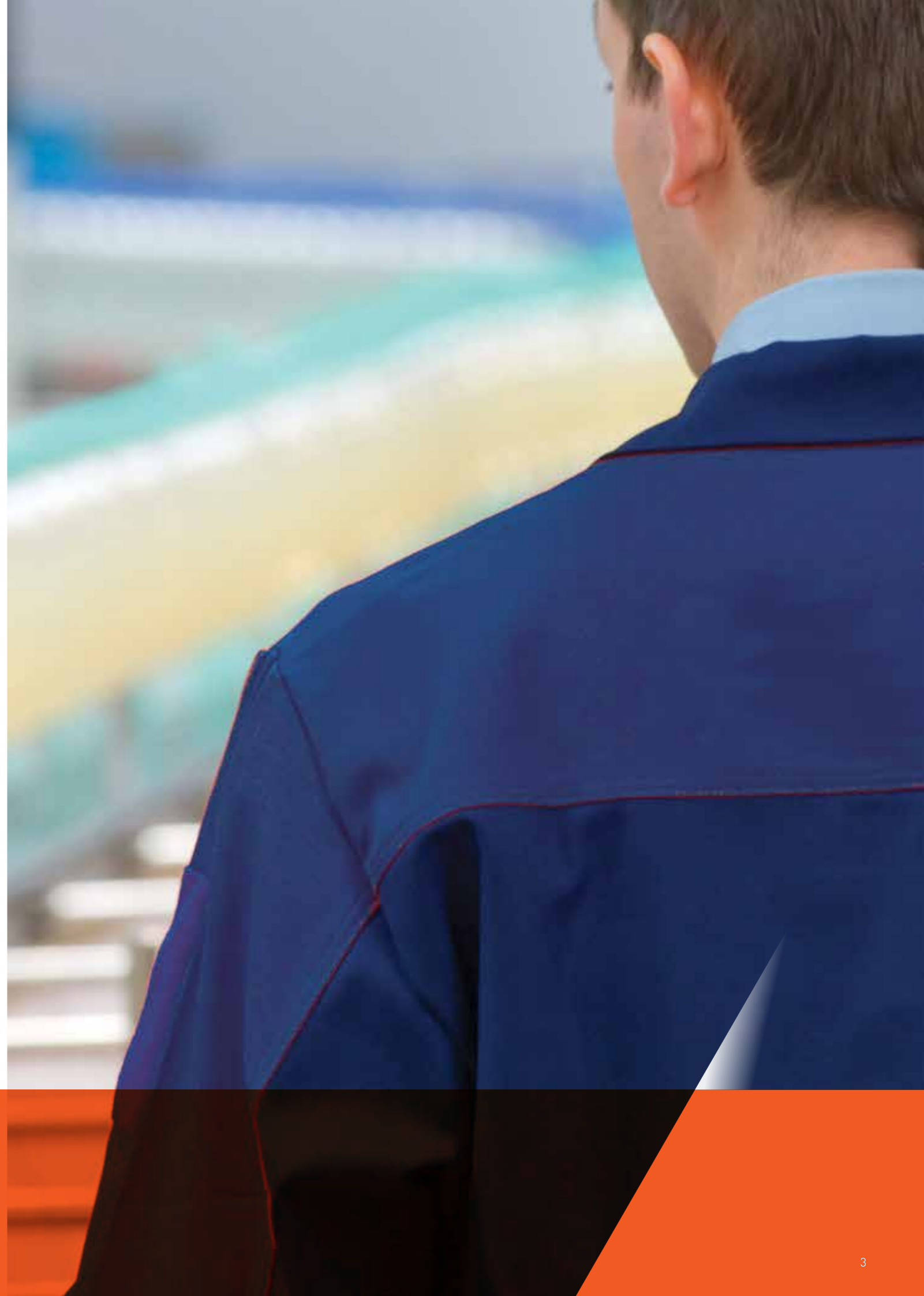
#### **Production losses? Drop in quality? Lack of equipment reliability?**

Maintaining the cost-effectiveness of your production line requires periodic overhauls. An audit is often the most economical and efficient way to get back on the right track with your line performance. Thanks to detailed analysis of actual line operation, from its general concept to the smallest details affecting performance, this audit accurately identifies the sources of losses as well as efficiency improvement areas.

### SECURE AND OPTIMIZE YOUR NEW PROJECTS

#### **Do you need to expand production? Introduce new formats or packages? Change machines, modify flows or line layout?**

Based on an understanding of your facilities and cost control, the audit also helps you during any line modification project. With well-documented recommendations, it guides you through all possible options, prioritizes the required work and helps you perform the work and control costs, including warranties for good results.





## PRODUCTION AUDIT

**A comprehensive or targeted diagnostic approach to optimizing your line**

### IMPROVE LINE PERFORMANCE AND OPERATION

#### Method

- On-site measurements: to check machine and conveyor speeds, take readings of good operation times, observe slave systems, supplies and operator actions...
- Determination of line performance
- Identification and quantification of the main design, control and operating problems
- Analysis of sources of efficiency losses and production time increases (cleaning operations, format changeovers, etc.)

#### Deliverables

- Submission of action plans to improve efficiency and decrease non-productive time



## ECO AUDIT

**An approach to your production that combines performance and environmental footprint**

### MEASURE AND OPTIMIZE ENERGY AND FLUID CONSUMPTIONS PER UNIT OF PRODUCTION

#### Method

- On-site measurements: combination of an efficiency audit with readings for water, power and heat (cooling and heating) consumption
- Correlation of measurements to identify good levers for optimization
- Comparison with the equipment's original specifications and with "best in class" values from our databases

#### Deliverables

- Proposals for corrective action programs, which are prioritized to optimize equipment consumption levels and potential performance gains



## DESK AUDIT

**A theoretical approach to the line based on document analysis**

### ESTIMATE THE IMPACTS OF VARIOUS LINE CONCEPTS ON EFFICIENCY

#### Method

- Collection and detailed analysis of the line's production parameters: layout plan, production sheets, maintenance reports, etc.
- Numerical simulation of different scenarios in order to determine the line's potential

#### Deliverables

- Detailed list of the strengths and drawbacks of each of the proposed concepts
- Proposals for optimized alternatives
- Estimation of potential efficiency gains for each variant



## SHOCK AND PRESSURE AUDITS

**A diagnostic approach to packaging quality and integrity**

### MINIMIZE DAMAGE ON CONTAINERS (SHOCKS, BREAKAGE, LABEL TEARING, SCUFFING) AND IMPROVE LINE CONTROL

#### Method

- On-site measurements: V-Graph check, frictions, shocks and/or pressure
- Root cause analysis of container damage
- Precise identification of all the areas with potential risks
- Assessment of shocks inside a machine

#### Deliverables

- Submission of action plans to minimize shocks & container damage
- Fine tuning of transfers or machine infeeds



## REMOTE AUDIT

**A close monitoring of your production wherever you are**

### CONTINUOUSLY IMPROVE LINE PERFORMANCE THANKS TO EIT®, SIDEL'S DATA ACQUISITION AND PLANT INTELLIGENCE SYSTEM

#### Method

- Regular production of summary reports about line operation
- Archiving of operating history
- Analysis of events that impact line performance)

#### Deliverables

- Reports sent regularly
- Prioritization and quantification of causes for identified productivity losses
- Monitoring and evaluation of improvement actions
- Training and monitoring of the proper use of EIT™

Sidel is a leading provider of equipment and services solutions for packaging beverage, food, home and personal care products in PET, can, glass and other materials.

With over 40,000 machines installed in more than 190 countries, we have nearly 170 years of proven experience, with a strong focus on the factory of tomorrow with advanced systems, line engineering and innovation. Our 5,500+ employees worldwide are passionate about providing solutions that fulfil customer needs and boost the **performance** of their lines, products and businesses.

Delivering this level of performance requires that we stay flexible. We continuously ensure we **understand** our customers' changing challenges and commit to meeting their unique performance and sustainability goals. We do this through dialogue and by understanding the needs of their markets, production and value chains. In turn, we apply our solid technical knowledge and smart data analytics to ensure lifetime productivity reaches its full potential.

We call it **Performance through Understanding**.

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