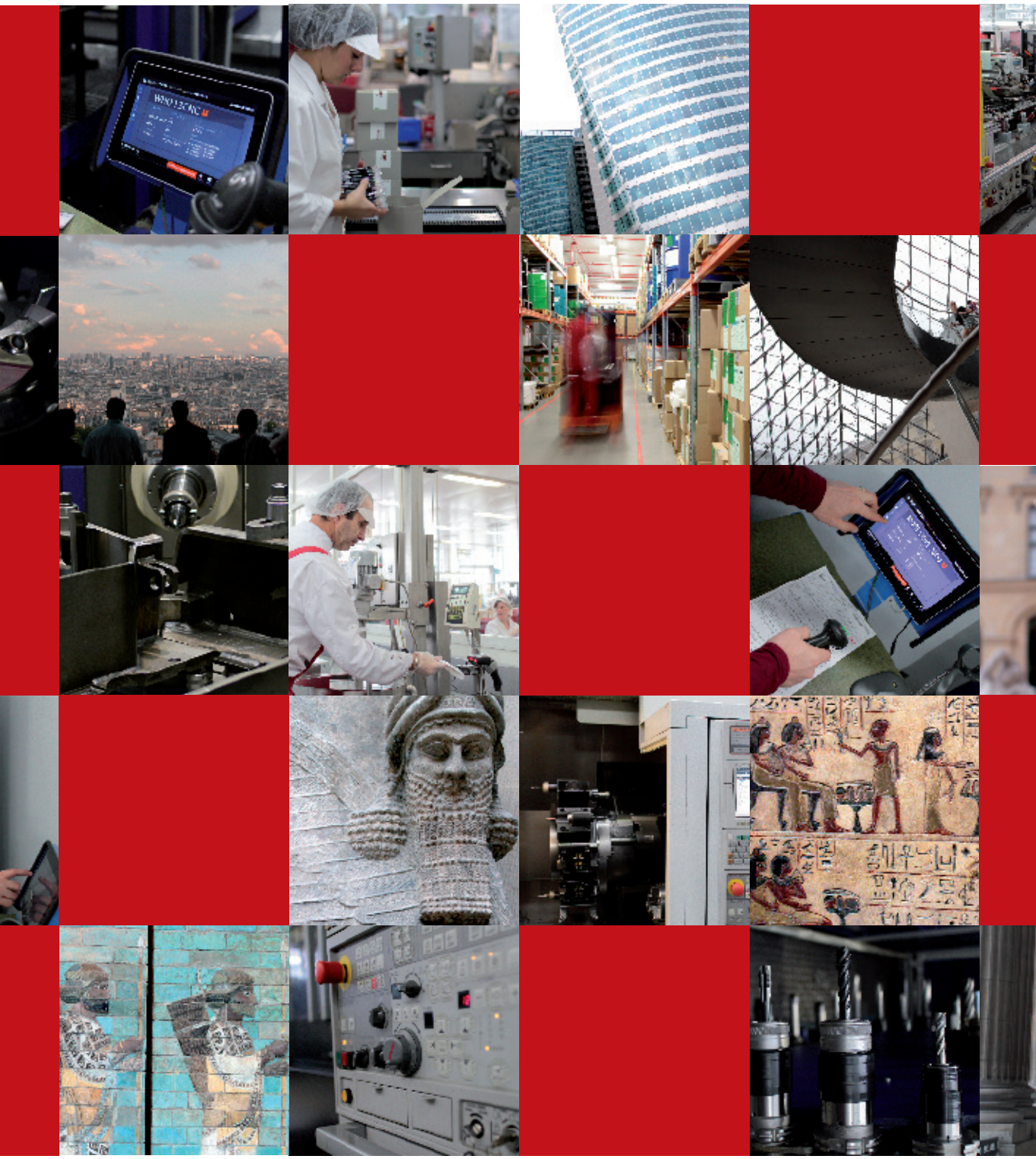
iMPROVE iT!

...and you can grow



streamlining your production

SCADA

www.scadaservis.cz

modular production information system

iMPROVE iT!

- provides a comprehensive overview of production
- acquires and evaluates data in real time
- facilitates the process of continuous improvement

...making sense out of information

- **CUSTOMER AUDIT**
  By starting to check that production operations are carried out correctly you ensure that production procedures are implemented precisely. The result is a demonstrable genealogy of production, lower production costs and higher product quality. Use of the IMPROVE IT system is a plus point in customer audits. As well as improved yields, you can see a return on your investment in the IMPROVE IT system within just one year.
- **NON-INVASIVE IMPLEMENTATION**
  Implementation of the IMPROVE IT system has no impact on production. Communication with the production process is custom engineered to suit the machinery used (PLC, CNC, TCP/IP, signals, manual inputs, etc.).
- **INFORMATION FROM VARIOUS SOURCES ALL IN ONE PLACE**
  By connecting up existing information systems you gain a comprehensive overview and summary assessment of critical production indicators (ERP, planning systems, attendance, etc.).
- **14 YEARS OF EXPERIENCE**
  Our team of consultants has many years of experience in various branches of industry and is able to propose solutions based on each individual situation.

iMPROVE iT!

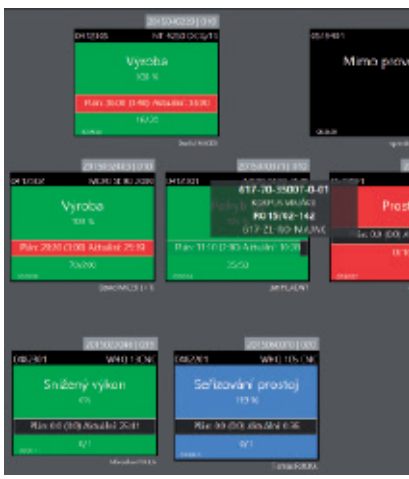
increases:

- quality
- precision
- yield
- flexibility
- productivity
- customer satisfaction
- production efficiency

reduces:

- scrap rate
- costs
- downtime
- energy consumption
- operator error rate
- response time

- **On-line data collection from machinery, production equipment and manufacturing sectors**
  production lines and technology, CNC machines, machines with PLC control systems, manual operations, etc.
- **On-line production management**
  immediate and up-to-date overview of all production parameters
- **Strict adherence to production procedures**
  Electronic production, technological procedures, product cards, dispatch notes, CNC programs and versioning
- **Integration with ERP and other business systems**
- **Lean and paperless production**
- **Quality management and assurance**
  production traceability, monitoring compliance with specified parameters
- **Visualization of production**
  Graphical display of machinery, production halls, order and operation status
- **OEE, SPC and other key production indicators**
- **Analyses and evaluations**
  detailed views of production data and creation of evaluation reports
- **Monitoring energy intensity of production and facility management as a whole**
- **Warehouse visualisation and management**



For whom is the system designed?

Chemical, food, pharmaceutical, electronics and plastics industries
Engineering, serial production and automotive

PRODUCTION

The system checks the accuracy of the production process. Wherever possible, the control systems of machinery are sent formulas or CNC programs for each order. As each individual production operation is precisely logged, you acquire information about order history (genealogy), including the parameters under which the operation was carried out.

ANALYSES

Analyses are an important part of the process of continuously improving production. The system provides you with on-line access to important production-related information, which enables you to perform the necessary analyses and outline solutions for any problems that occur. We compiles reports for analyses in line with the standards applied by the user.

SPC

Evaluation of key parameters of manufactured products and comparison of those parameters with defined limits (UCL, LCL). Show workers SPC graphs in real time, enabling them to respond to any adverse trends immediately. This enhances the stability of the production process and helps to prevent potential production rejects due to this trend.

MOTIVATIONAL PANEL

Provide your staff with important information on-line. Displaying how machinery is being used, current production status as compared to the plan, the costs of downtime and comparisons with the previous shift give shift staff an immediate idea of production status and motivates employees to increase productivity.

OEE QUALITY EFFICIENCY

Monitor important quality indicators in real time. A Gant graph displayed from the viewpoint of a production order, workplace or operator gives you a realistic overview of how resources are used in production. Information on total resource utilisation also serves as a useful indicator when planning investments.

ATTENDANCE

The collection of data about operators in production provides information about how well working time is being used, as well as source data for employee evaluations. Covers the role of workers in the production process (foreman, maintenance, operator) and their access rights. Attendance figures are transferred to the ERP system payroll module.

WAREHOUSE

Receipt of material, goods movement records, input control, dispatch from the warehouse, records of materials consumed in production, checks that final products are properly packed into dispatch packages and recorded on pallets, manual for warehouse staff when signing out final products for dispatch.

INTEGRATION

Connection with the ERP system and other information systems enables information to flow in both directions between the corporate and production part of the business, with no paper needed. This saves your workers time and avoids mistakes that could otherwise occur when transcribing information.

FORMULAS

Enabling production flexibility, when industry deals with increasing need for a variability in manufacturing orders. Simultaneously ensuring technological discipline to increases competitive advantage. The correct version of the manufacturing recipe is automatically sent to the machine/line control system for specific manufacturing order and specific manufacturing operation.

TRACKING

The importance of customer and specialised audits is one of the main production aspects. Manufacturing genealogy is the keystone to demonstrate the quality of production. The ability to precisely document the manufacturing process including the parameters of individual operations, results of inspection tests, lots of material and production times, responsibility to a specific operator.

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