STABILIS MES The best IT solution for optimalization of your production process



Executive Summary

In most production plants there exists:

- The need to improve production efficiency
- A significant improvement potential, including using e.g. Industry 4.0 tools

STABILIS is the best Industry 4.0 solution to improve efficiency. STABILIS allows constant efficiency improvement of machines while also reducing labour consumption and losses.

Improvement is a continuous process. Thanks to the unique STABILIS technology, it allows easy and quick changes in software, e.g. integration of new devices, applications, implementation of new functionalities.

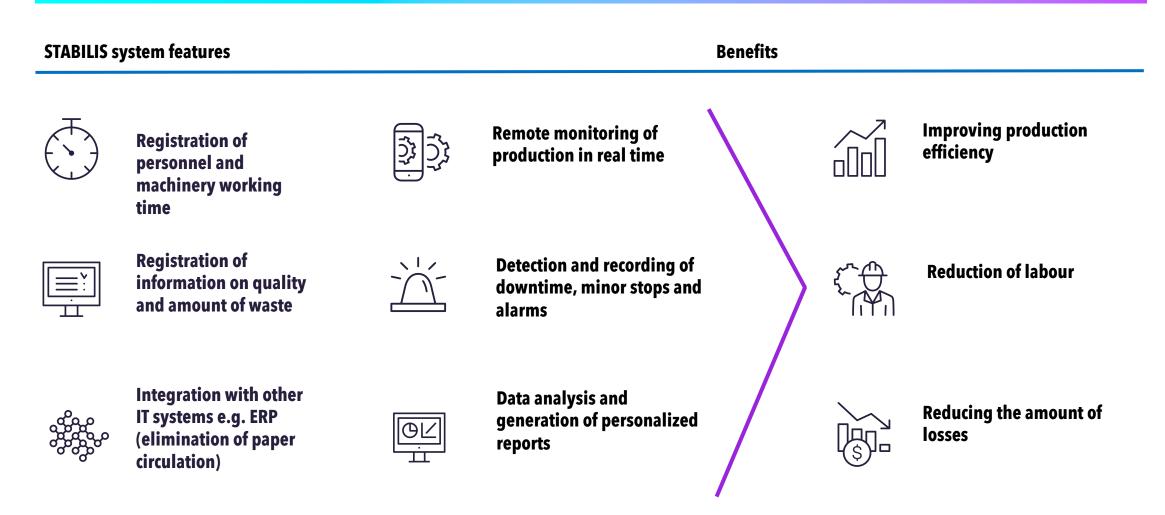
The effectiveness of the STABILIS solution has been recognized by leading entrepreneurs.

Constant need to improve production efficiency

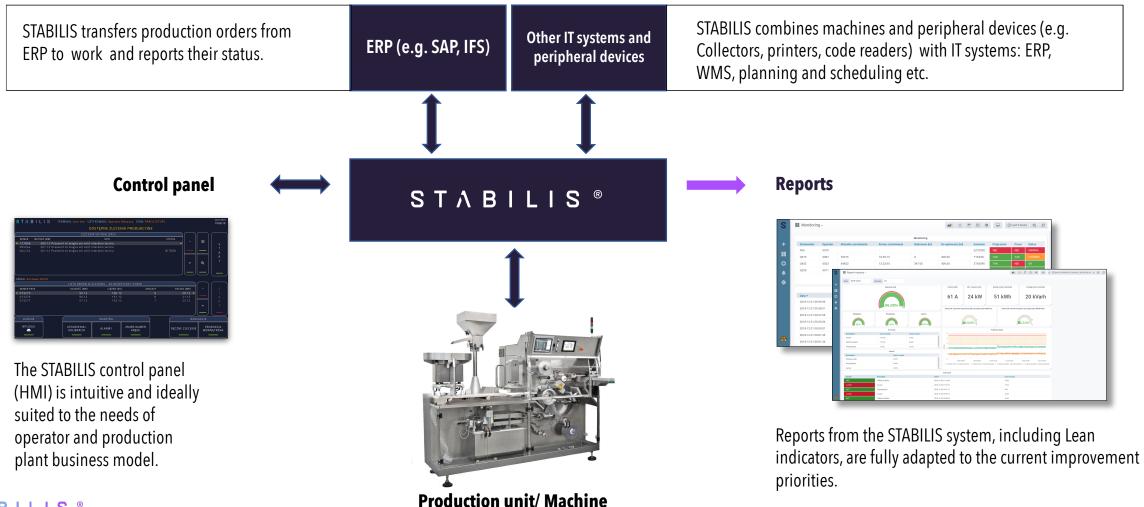
Problems regarding labour costs, energy efficiency and costs are increasing.

Problem		Trend
*	Increase in labour cost and difficulties in recruiting staff.	On average, Polish industrial worker salaries have increased over the last year by +9%. It's the largest growth recorded in the 21st century. <i>Polish Center for Economic Development</i>
Ŵ	Rising cost of energy and materials.	Within the next 10 years, the focus on equipment productivity (OEE) will be crucial for those responsible for business management. <i>Harvard Business Review</i>
0-0	Performance problem (OEE)	Energy prices have grown on average +30% per annum in the past 5 years (+40% in the last year). Leaders are almost 3x more effective at combining large revenue growth with significant cost reduction.
		PwC

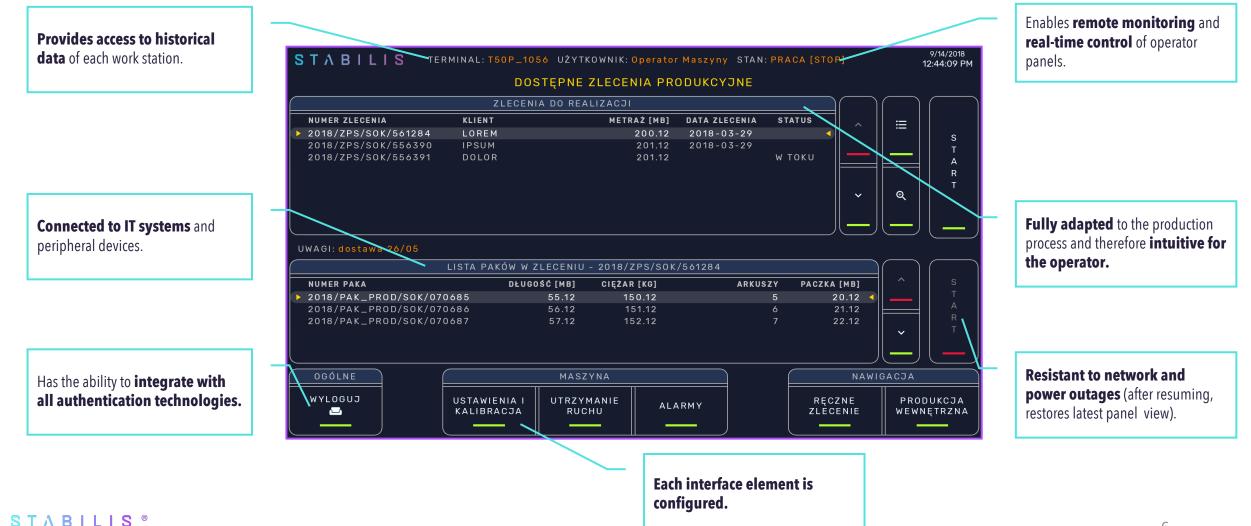
STABILIS allows monitoring, event registration, as well as system and machine integration, which enables improvement in efficiency



STABILIS connects production sites with IT systems



STABILIS interface is tailor-made and has unique functions



The advantage of STABILIS comes from the programming technology

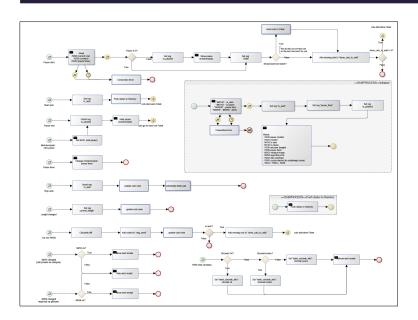
Traditional approach

<pre>this.lines[3].buttons[index].label = (iscomma && isminus) ? '' : (this.min < 0) ? '-' : '.'; this.lines[3].buttons[index].enabled = (iscomma && isminus); this.lines[3].buttons[index].changed = true; }</pre>
<pre>this.async(function () { this.root.getElementById('motokomando-keypad-button-text-' + this.lines[3].buttons[index].id).textContent });</pre>
<pre>let returnIndex =findIndex(this.lines[3].buttons, {'id': 'return'}); this.lines[3].buttons [returnIndex].enabled = ((thisshow/alue !== '0.' 66 thisshow/alue !== '-' 66 thisshow/alue !== '-0.' 66 thisshow/alue !== '-0' 66 times(toNumber(thisshow/alue), multiplier) 66 (thisshow/alue.index0f(') !== this.show/alue.length - 1)) [thisshow/alue.length == 0); this.lines[3].buttons [returnIndex].changed = true;</pre>
<pre>forEach(this.lines, (line) ⇒ { forEach(line.buttons, (button) ⇒ { if (button.action === 'put' && button.value !== '.' && button.value !== '-') { let postValue =tNumber(thisshowValue + button.value); let enabled = (</pre>
<pre>isEnabled (this_showValue + button.value, this.min, this.max, this.precision, multiplier) 66toNumber(postValue) <= this.max 66toNumber(postValue) <= this.min 66 this_showValue.indexOf('.') == -1 (this_showValue.length - this_showValue.indexOf('.') + (!(button.value == '0' 66 (this_showValue == '0' (this_showVal</pre>
<pre>} (button.value === '0' 66 (times(this.precision, multiplier) % multiplier) !== 0 66 thisshowValue.1);</pre>
<pre>if (button.enabled !== enabled) { button.enabled = enabled; button.changed = true; } }; </pre>

Traditionally, software is created by writing code that is understandable and thus modifiable only by the people who created it .

As a result, changes are expensive, and over time the system becomes impossible to maintain and upgrade.

STABILIS approach



The functionalities of Stabilis are based on flow graphs.

They can be easily changed and combined, much like Lego blocks, in order to modify the existing system functions or create brand new ones.

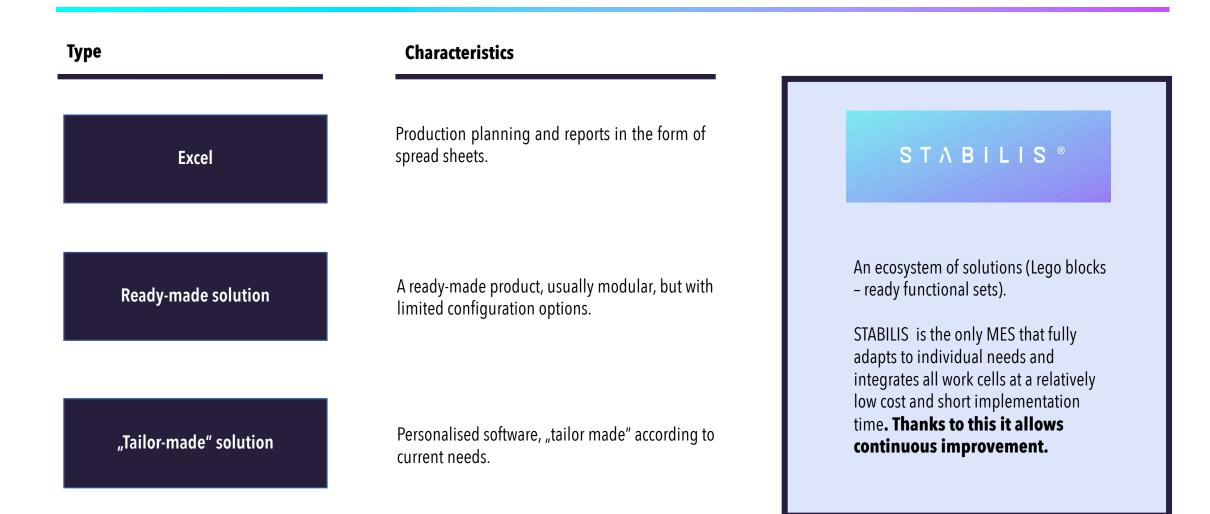
STABILIS[®]

Thanks to STABILIS programming technology optimization and continuous improvement become simple

Our innovative technology provides unique advantages:

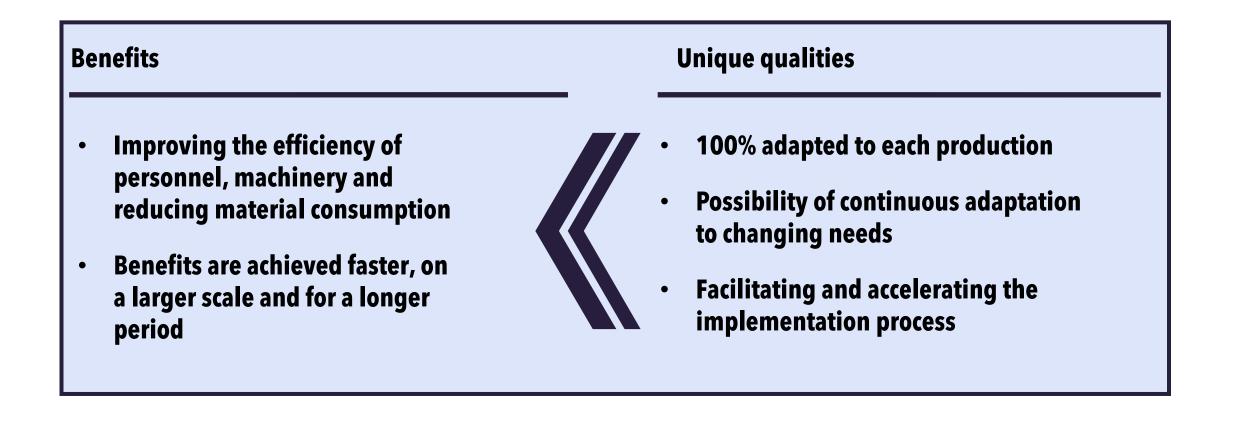
- unique flexibility,
- ease of making changes,
- significantly faster software development,
- significantly reduced costs of changing requirements during the project,
- faster and easier analysis with the client,
- very complex problems covered.

We distinguish 3 classes of MES solutions and STABILIS



STABILIS[®]

STABILIS gives clients a higher operative efficient due to customisation and implementation speed



Reports analyzing barriers to the implementation of innovative technologies indicate that users decide about the success of the digital transformation.

STABILIS technology

Thanks to the easy and quick introduction of changes STABILIS programming technology allows the interface to be created together with end-users.



STABILIS approach

This approach makes users feel co-authors of the implementation, identify with the project, engage in its improvement and development, because they know the production lines best and know how to optimize production processes.

STABILIS has been verified by very demanding clients

"We have been looking for a MES software that would meet our expectations for years. STABILIS is the first one that has."

Head of IT at the Pruszyński Group

"User tests have shown that control via the STABILIS control panel is extreamly simple. That is why our employees can not wait for the full implementation of STABILIS."

Production manager at MDM NT





STABILIS implemtation case study



Client

The Pruszyński Group is one of the largest producers of tin roofing in Europe.

Their offer also includes e.g. construction and elevation products.

Challenges

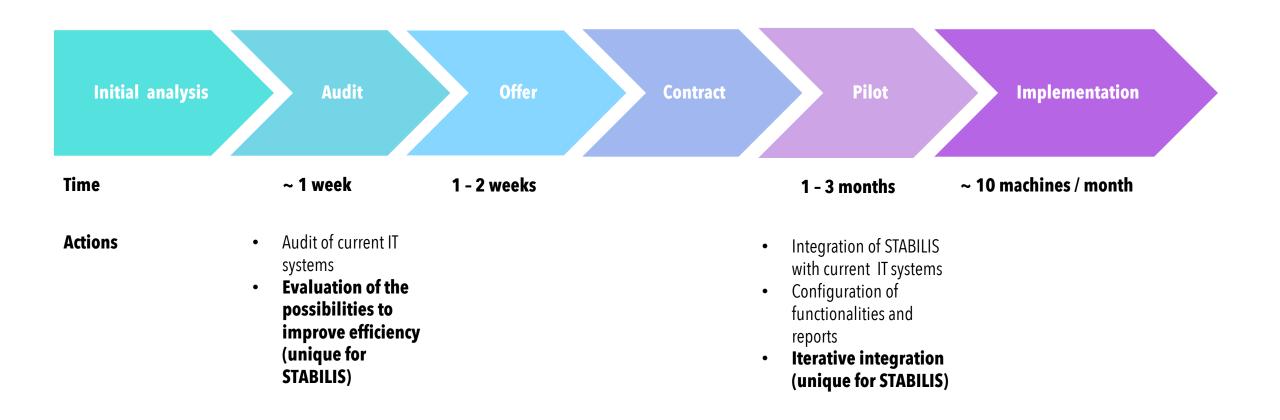
- Integration of machines from a wide range of manufacturers using diverse control panels.
- Addition of new functionalities at production sites.
- Integration of peripheral devices from a variety of manufacturers (printers, scanners, RFID cards) with production stations and ERP.

First implementation results

- Reduction of labour consumption, the risk of mistakes and interchangeability of staff between stations due to the liquidation of paper work orders and manual entry of machine settings, registration of work results and data transfer between systems.
- **Improving efficiency** through the introduction of objective standards and related bases for reward of employees, controlling the performance of the entire factory with indication of bottlenecks and places of inefficiency.
- Limiting losses, better identification of the causes of problems and more precise determination of raw materials stock status by combining all information on performed operations (who, when, from what amount, what, what at what waste level, for whom)
- **Improving customer service level** by providing feedback on the progress and timing of orders and facilitating the individualization of production.

STABILIS®

STABILIS implementation process allows the development and implementation of a perfectly adapted solution



Would you like to improve efficacy and productivity? Contact us to arrange a meeting

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