

FROM LIGHTHOUSE **PROJECT** TO COST **CUTTER**

INDUSTRY 4.0 HAS LONG BEEN A STRATE-GIC CORPORATE OBJECTIVE WITH A LONG-TERM CHARACTER FOR COMPANIES IN THE MANUFACTURING INDUSTRY. IN THE AGE OF VOLATILE MARKETS, THE QUESTION OF THE "RETURN ON 140" IS INCREASINGLY COMING TO THE FORE. BUT ARE TODAY'S INDUSTRY 4.0 SOLUTIONS SUITABLE TO ACHIEVE SHORT-TERM COST REDUCTIONS AT ALL?

Interview with Prof. Dr.-Ing. Werner Bick, Chief Representative, ROI Management Consulting AG

How mature is Industry 4.0 in Germany at There can be many reasons for this. On the other hand, you have companies that manage the moment?

solutions across the board and how small and medium-sized companies are also getting in- the time being. volved in the topic. At the same time, the degree of maturity of the solutions is also increas- Against this background, are industry This is fundamentally sensible and correct, and Awards show.

but descreased¹ since 2005?

one hand, it should not be forgotten that many to directly and immediately save costs with companies are still going through a learn- simple, scalable solutions without major ini-Looking at Industry 4.0 as a product develop- ing process, for example, for example, when it tial investments. Basically, in order to shorten ment process, I would say that we are currently comes to the question of which instruments the time to "Return on 140", the appropriate in the rollout phase. This means that the nec- suit them best or how they have to align their instruments in combination with a procedure essary basic principles and technology modules organization accordingly. On the other hand, adapted to the specific requirement are needed. are largely known to companies and relatively the complexity of products has increased many cheaply available. Many of them have already times in recent years. A higher level of product What does it look like? carried out successful pilot projects and gained individualization, as made possible by industry initial experience. Now we can see how these 4.0, for example, is often at the expense of procompanies are establishing their industry 4.0 ductivity. In some cases, the immediate efficiency-enhancing effect can therefore not be felt for

ing, as the winners of last year's Industry 4.0 4.0 technologies suitable as short-term cost-cutting measures at all?

Given this progress, how do you explain Absolutely. There are two main cases in industhe fact that labour productivity in a sector try today: On the one hand, there are compasuch as mechanical engineering has not in- nies that have to invest first and for whom the concrete terms, this means that the major sixpayback may take longer as a result. On the year programs must be supplemented by smart

Many companies think Industry 4.0 very strongly in terms of the target image of the completely smart factory, in which all elements of the value chain are continuously networked and all information flows together in real time. does not help those who need to quickly optimize their cost structures in assembly or in their supply chain until they find applications where they can use this knowledge to reduce lead times and increase plant availability, for example. In six-week projects that enable quick wins and What could those be? rapid savings effects. These so-called Instant *140 solutions, comparable to Point-Kaizens, are* applied at individual points in the value chain *and create selective improvements with a direct* economic effect.

Does this mean that companies should bring immediate benefits?

opment and expansion of an I40-compatible infrastructure, such as the integrated networking of machines, operating resources and products, is an essential prerequisite for being able to exploit the full potential of more complex industry 4.0 solutions at a later date. It must never be neglected in favour of short-term efficiency gains. The good news is she doesn't have to. Rather, it is a matter of identifying quick wins along the overriding industry 4.0 roadmap and

implementing them quickly and efficiently.

Basically, these can be all solutions that use industry 4.0 elements to leverage cost savings along the industrial value chain. They often build on existing lean processes, as in the case of digital shop floor management, where existing lean management practices are extended by digital elements to create tangible added value. concentrate only on those measures that Another example is the use of advanced analytics to implement a predictive analysis model in manufacturing. This enables companies to Not exclusively, of course. The systematic devel- develop a digital twin for particularly quality-critical production processes within a sixweek sprint in order to sustainably improve process stability and quality.

Thank you for the interview.

