Interview with Martin Höller, MSc. **Technical Manager at Biohort GmbH** 

> Mr. Höller. Biohort is Europe's leading producer of garden tool sheds – a verv sound line of business. Why do you need to engage with Industry 4.0?

pace with these fluctuations is a Nowadays, every manufacturing huge benefit and, at least for us, Essentially, a cyber-physical procompany needs to get involved a blueprint of how we need to duction system (CPPS) lives from in Industry 4.0, or more generally speaking, digitalization. We And it's of course only possible mension that is really huge. We are currently building a new fac- with a digital approach. To begin therefore realized right from the tory covering 4 hectares in Her- with, we need data, which, in- start that setting up the proceszogsdorf in Upper Austria. While cidentally, we've been collecting sing of existing and constantly it's only 15 kilometers from our for years anyway. We also need newly generated data was cruold location in Neufelden, it re- software capable of analyzing cial. Our simulation software presents a whole new world. Of the complex relationships and now has access to historic and course, we also need the factory interdependencies between the current data from our ERP, CAD after enjoying years of steady data. We've had this for about and MES systems, and integragrowth and now having to en- a year and a half. What we're tes them into analytical models, sure that we have sufficient ca- doing here, ultimately, is set- enabling various scenarios to be pacity for the long term. It's a lo- ting up a digital twin: a real-life simulated. On this basis, the digical development. But we wish modulation of our production gital twin can validate decisito - or rather, we need to - tread and the relevant framework ons for initial investments new paths with this new factory. conditions. This allows us to im- or even propose them. We need to structure our pro- plement a completely new quaduction in such a way that we lity of management and plancan meet complex market con- ning compared with traditional ditions - and it is very easy to approaches. underestimate the dynamics of our market. The new factory is also intended to enable our bu-A longer version of the siness to face the challenges of

interview can be found at the future, and not just to scale www.roi-international.com up capacities.

What are the specific challenges and corresponding solutions?

First, the large fluctuations in How complex does data sales. Sales can vary by a fac- management need to tor of five between weak and be in order to enable strong months. The fact that the a digital twin? new plant will be able to keep

think about production in future. and through data – and in a di-

You will always need human experience and intuition as a corrective

## THAT'S STRATEGIC INTELLIGENCE

When will the digital twin be so far advanced that it no longer needs human input?

I don't think that's a realistic scenario. At the end of the day, software that operates in a purely rational manner doesn't have enough intuition for the living system that production is. You will always need human experience and intuition as a corrective. Digital twins help us to prevent disruptions in production and massively boost our analytical capacities. This represents huge progress. Instead of speculating about when systems are likely to act independently, we prefer to tackle the question of how we can ensure that employees can grow with technological progress, as otherwise you won't achieve sustainability of change.

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ROI DIALOG

TOOL SHED MANUFACTURER BIOHORT IS WORKING WITH A DIGITAL TWIN TO BRING ABOUT THE FUTURE

> Garden tool sheds 4.0 6 Real-life modulation of the production B

Limits for digital twins



Biohort is the market leader in Europe for storage solutions made from metal for garden and leisure. With 250 employees and sales of EUR 47.5 million (2016), the company, which is located in Neufelden, Austria, produces garden sheds, boxes and equipment lockers.

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