

Towards an assessment model for Lean and Green 4.0

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Lean thinking focuses on continuous improvement and the involvement of employees. A lean assessment can be carried out to determine a company's level. An assessment model that is widely used is the Rapid Plant Assessment (RPA) developed by Goodson, R. E. (2002): Read a plant Fast.

In 2015, the UN launched Agenda 2030 where 17 sustainability goals were launched. In addition, most companies have a great need to digitalize their processes.

Despite the increased need for digitalization and focus on sustainability in lean manufacturing firms, there is still a lack of clear understanding of how to incorporate sustainability and digitalization into lean assessment models. This paper discusses how RPA can be developed to include green and digitalization aspects. The article launches an extended model where sustainability and digitalization are included.

The model has also been implemented in two companies, one in Romania and one in Norway.

Keywords: Lean Assessment, Digitalization, sustainability.

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