Sustainable Manufacturing Maturity Model: Concept and Applications

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Sustainable Manufacturing Maturity Model: Concept and Applications

**Why**
- Need for visual, intuitive internal benchmarking of sustainability-related capabilities
- Enabling continuous improvement in economic, environmental and social sustainability performance

**CONCEPT**

<table>
<thead>
<tr>
<th>Sustainability-related capability</th>
<th>Maturity level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Components of capability</td>
<td>0</td>
</tr>
<tr>
<td>Non-existing or ephemeral</td>
<td></td>
</tr>
<tr>
<td>Novice</td>
<td></td>
</tr>
<tr>
<td>Solid but static</td>
<td></td>
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<tr>
<td>Thriving and optimizing</td>
<td></td>
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</tbody>
</table>

**APPLICATION a)**
Case study from a manufacturing company of material handling equipment

**APPLICATION b)**
Same case study of a), multi-stakeholder view
Current and next-to-be maturity level. One program for each stakeholder.

**GLOSSARY**
- **Sustainability-related capability**: the ability to do something well in a way that improves sustainability performance
- **A maturity level** defines "how well" this ability is ingrained in the organization

**RESEARCH GAP BEING ADDRESSED**
- Huge offering of sustainability maturity models in consulting
- Applications of sustainability maturity models in manufacturing companies being published are not widespread in the literature and do not rely on a solid method for distinguishing different components of capabilities

**Example**: From 0 to 1, initiate a collaboration with university students in thesis projects at the factory