

# Industry 4.0 Cloud Computing Benefits for Malaysian SMEs

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# Agenda

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- Industry 4.0 Cloud Computing benefits for Malaysian SME:s
- Proposed strategy for transitioning to these solutions
- Competence Needs

# SME Benefits from Cloud Computing Functions

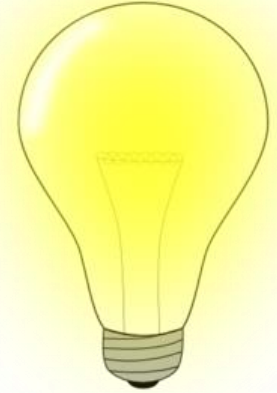
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- Industry 4.0 Cloud solutions for SME: use **provider cloud** functions.
- **Data** sent by manufacturing equipment:  
optimize production (spot deviations, focus quality & speed optimizations),  
recognize maintenance needs.  
*E.g. exactness of positioning, error counts, ...*
- **Storing** manufacturing data in **cloud**:  
basis for reporting & quality / optimization analysis.  
*E.g. how does different machinery maintenance strategy impact quality?*
- **Processing** the data in the **cloud**:  
Getting a much more detailed view of "what is happening" & where  
can SME optimize manufacturing quality & speed.

# Proposed Strategy for Transitioning

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- SME:s should not be leaders in introducing cloud solutions.  
*Multi-nationals expected to be the leaders.*
- SME:s should be *not-too-late* **followers**.  
*Keep good business position, profit from optimization benefits.*
- Step-by-step, smart transition.
- *Introduction of cloud functions needs to be future-proof:*  
SME need to understand well which cloud functions to use & adapt, because changes are costly & effort.



# Competence Needs (from *Cloud Computing* Perspective)

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- **Cloud Computing *technology* competence.**  
*What are the Cloud Computing functions?  
How can they be used & adapted to the SME specific needs?*
- ***Operations* competence in working with provider Cloud functions.**  
*Handling mistakes could e.g. result in data security issues.*
- **Aligning SME *processes*, roles & responsibilities with the Cloud Computing technical solutions.**  
*Only then, the gains in manufacturing & business will take off ...*



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