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«Architectural modelling of a software product for evaluation of labour inputs using practices of system engineering»

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Problem statement

• It is hard to adequately analyze the complexity of the project with only a peer review and due to that it is more likely to cause fatal risks to the project in the future
Solution methods

- Create the plan of the project with adequate deadlines and fixed labor costs.
- Use the enterprise architecture practices to achieve that.
- Create the conception of the system that contain full description of several system layers: requirements, business architecture and relationships between them.
Conclusions

A conceptual simulation of the target system was carried out using enterprise architecture methodology.

Accuracy of the expert assessment is significantly lower than the accuracy obtained from the results of simulation.

<table>
<thead>
<tr>
<th>Description</th>
<th>Work in year per human</th>
<th>The implementation period, considering the staff of 3 people</th>
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<tbody>
<tr>
<td>Initial expert assessment (prior to simulation and system analysis)</td>
<td>3 year per human</td>
<td>1 year</td>
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<tr>
<td>Targeted peer review (after system simulation and analysis)</td>
<td>6,5 year per human</td>
<td>2 years and 2 months</td>
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<tr>
<td>Actual work (from 16.07.2017 to 20.07.2020)</td>
<td>9 year per human</td>
<td>3 year</td>
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</table>
Contacts

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