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Прикладная физика, информационные
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APITECH
Applied Physics, Information
Technologies and Engineering

Science & Technology City Hall
Krasnoyarsk

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**«Conference on Applied Physics,
Information Technologies and Engineering»
APITECH-2020**
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«Architectural modelling of a software product for evaluation of labour inputs using practices of system engineering»

O I Rebrin, V I Eremenko, D A Zakharov, I I Krasikov, V V Mizgulin



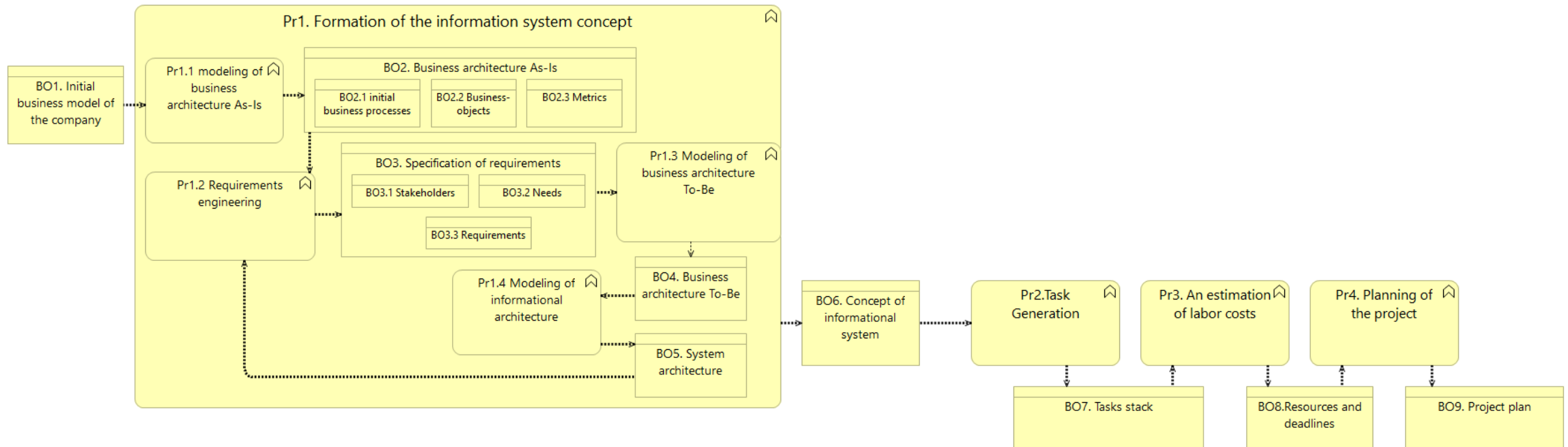
Problem statement

- 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

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



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