

Inner Source Return on Investment

Summary

Many organizations adopt inner source (IS; utilization of open source development practices within an organization) to develop software more efficiently and with higher quality. Despite these benefits and gains, adopting and running IS comes at a cost. The return on investment (RoI) for IS has not yet been quantified. No evaluated or validated RoI model exists.

In this thesis, the student finishes a premature RoI model (which was developed as part of a the NYT project course) by performing further literature reviews. The student subsequently partakes in workshops at one case study organization to tailor and evaluate the model.

Details

- Literature review
 - Return on investment models, methods, best practices
 - Return on investment (and gains, costs) in IS, open source, code reuse, software development
- Methods
 - In-depth literature study develop inner source RoI model (cost, gains, reusable models)
 - Preparation of evaluation of the model with a case study (jointly with supervisor)
 - Data collection in ~three workshops and analysis (jointly with supervisor)
- Work results
 - Developed generic IS RoI model
 - Identified generic costs and gains of IS
 - Identified formulas or metrics to quantify costs and gains ('attach dollar sign')
 - Prepared evaluation of IS RoI model with one case study
 - Adapted pre-existing case study protocol
 - Tailored generic RoI model (by weighting, dropping, adding costs and gains)

Supervisor

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