

Simulation Results

Simulation count: 100

Total Profit for Year:

Base Example

$$90.21 * R_{f/d} + 112.76 * R_{df/d} + 22.55 * P_{tdf/d} - 179,790 - C_{others}$$

With IT Org

$$135.63 * R_{f/d} + 67.82 * R_{df/d} + 22.61 * P_{tdf/d} - 176,189 - C_{others}$$

With Monitoring

$$90.28 * R_{f/d} + 112.86 * R_{df/d} + 22.57 * P_{tdf/d} - 179,542 - C_{others}$$

All Improvements

$$135.72 * R_{f/d} + 67.86 * R_{df/d} + 22.62 * P_{tdf/d} - 175,988 - C_{others}$$

Abbreviations

$R_{f/d}$ - Average revenue from a day of new feature development

$R_{df/d}$ - Average revenue from a day of fixing defects

$R_{tdf/d}$ - Average revenue from a day of improving application by fixing tech depth

$C_{\{\{others\}\}}$ - Other costs

Revenue from new feature development increases sales conversion rate, retention and feasibility of price increase

Revenue from fixing defects decreases churn rate and reputational losses

Revenue from fixing tech depth increases development speed, probability of occurrence of new defects

Cost Description

Total cost

Simulation	Value
Base Example	179,790.24
With IT Org	176,189.22
With Monitoring	179,542.25
All Improvements	175,987.81

Total cost contains:

Simulation	Total salary spent on non profit activities	Down time cost	Total salary spent on profit activities
Base Example	24,831.47	7,304.4	147654.36
With IT Org	20,937.19	7,249.5	148002.52
With Monitoring	24,786.06	6,978.24	147777.94
All Improvements	20,899.12	6,986.52	148102.17

Total salary spent on non profit activities contains:

Simulation	Total salary spent on meetings	Total salary spent on troubleshooting	Total salary spent on release
Base Example	19,555.2	53.87	5222.4
With IT Org	15,667.2	47.59	5222.4
With Monitoring	19,555.2	8.46	5222.4
All Improvements	15,667.2	9.52	5222.4

Down time contains:

Simulation	Downtime because of release (hours)	Downtime because of troubles (hours)
Base Example	32.0	1.82
With IT Org	32.0	1.56
With Monitoring	32.0	0.31
All Improvements	32.0	0.34

Troubles in the year:

Simulation	Service errors because of lack of server's disk space	Error because of some service down in the chain of invocations
Base Example	1.45	2.08
With IT Org	1.25	2.19
With Monitoring	0	2.11
All Improvements	0	2.41

Time Spent for Year:

Simulation	Spent on working with feature	Spent on working with defects	Spent on technical depth fixing	Spent on meetings	Spent on troubleshooting	Spent on release
Base Example	43,300.4	54,125.5	10,825.1	7,800.0	109.0	3,000.0
With IT Org	65,103.75	32,551.88	10,850.62	7,560.0	93.75	3,000.0
With Monitoring	43,336.64	54,170.8	10,834.16	7,800.0	18.4	3,000.0
All Improvements	65,147.58	32,573.79	10,857.93	7,560.0	20.7	3,000.0