

# Requirements Engineering Maturity Assessment

**“Agility without discipline cannot scale, and discipline without agility cannot compete.”**

Mary Poppendieck, at the 35th International Conference on Software Engineering (ICSE 2013)

## description

Faced with technological disruption in the context of mobile technologies and extensive digital transformation, IT is no longer merely a means of software development and maintenance. Rather, modern IT organizations have evolved into indispensable co-designers and co-creators of solutions. In other words, nearly every solution requires an IT project, and “every budget is now an IT budget”.

The rapid adaptation competency needed in today's ever-evolving world is stifled by traditional and plan-driven approaches. As the push from waterfall to pure-agile continues, the rejection of preliminary detail planning, requirements documentation, and solution design work quickly reaches its limits in complex projects and heterogeneous system landscapes. The correct implementation of intertwined business processes requires attention to detail and cannot be captured in a stream of high-level user stories. So, it is virtually impossible to arrive at the correct solutions efficiently using only incremental cycles of client feedback.

In all these IT challenges, developers and business units need a common language, a reliable, and dynamic communication gateway to a pragmatic middle ground between traditional and agile software development processes. This is where requirements engineering stands for in agile practice.

Rich yet simple requirements, well-understood and traceable processes will facilitate shared understanding and ensure quality. The ability to reliably anticipate the value, direct and indirect impacts, and costs of development, and the confidence to move forward with solid and steady steps shared by “business” and “IT”, are your vital planning and execution instruments in such a setting.

Combining our engineering, agility, and business value-oriented perspective with the practices and frameworks developed by our technological experience in numerous projects over the years, we can uncover issues that you are unaware of and collaborate on a strategy-driven short-, medium-, or long-term road map for fixing them.

### Service Metrics

Effort : 10-20 Person/Day

Duration : 3-4 Weeks

Team structure : 1-2 RE Consultants

### Tooling



Miro



Jira



Confluence



Mentimeter

## motivations

- ▶ High re-work effort and quality problems due to deficient, wrong, or missing requirements
- ▶ Lacking or missing requirements engineering mindset, framework, structure, or processes
- ▶ Demand for guidance in maturity due to collective blindness or company-wide groupthink
- ▶ Organizational issues (specification of requirements and designing solutions only by business units instead of determining them with IT units)
- ▶ Imposition of UX and UI designs on the development team without researching technical feasibility, which leads to designs that conflict with business rules and technical constraints, causing design and flow rework
- ▶ Need for a shared understanding of requirements among stakeholders and the development team
- ▶ People conducting requirements engineering activities without adequate training or skills

## prerequisites

- ▶ Online pre-assessment survey submittance
- ▶ Access grant for ALM and documentation tools (Jira, Confluence, etc.)

## deliverables

- ▶ A roadmap for pain points and remedies
- ▶ A retrospective report of the inspected project from an RE perspective
- ▶ Project and product assets (workflows, cases, analysis deliverables, etc.) developed with a shared understanding
- ▶ Identified improvement areas in the software development lifecycle from an RE perspective
- ▶ Evaluation of deliverables quality and performance levels

## references

- ▶ PepsiCo
- ▶ AgeSA
- ▶ Cuju (Rogon)
- ▶ adconnect
- ▶ Papara

## recommended adesso services

- ▶ QA Health Check
- ▶ QA Maturity Level Up
- ▶ Agile Transformation
- ▶ UX Design 101

## contacts



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