

Metric Name	Type	Occurrence	N	Metric Description
Project_ID	Nominal	492	492	An unique identifier of each project in the repository. The Project_ID refers to a specific project as recorded in the original EBSPM research repository, maintained by Hennie Huijgens, Delft University of Technology.
Organization	Nominal	4	492	An indication of the company where a project was dperformed. Four companies were applicable; Bank A, Bank B, Beltel, DutchCo. Company names are anonymized.
Short_project_description	Nominal	492	492	A short description of the project, including an anonymized project name. The descriptions are anonymized where applicable.
Year_technical_go_live	Ordinal	9	492	Year when a project was finalized (technical Go Live). The years Go Live from 2008 to 2016 were applicable.
Organisation_profile	Nominal	3	492	Indication of the organisational profile of the company where the project was developed; three profiles were applicable: Banking, Telecommunications, Billing
Business_domain	Nominal	11	492	Customer business sector for which the project was developed; e.g. Finance & Risk, Payments, Billing, Customer Relationship Management (CRM), Internet & Mobile, Savings & Loans, Data Warehouse & BI, Client & Account Management, Organization).
Development_method	Nominal	3	492	Classification of the used development method; three development methods were applicable; Plan-driven (waterfall), RUP, and Agile (Scrum).
Primary_programming_language	Nominal	21	350	Primary used programming language.
Development_class	Nominal	4	492	New development, Minor enhancement (5-25% new), Major enhancement (25-75% new), Conversion.
Functional_size_FP	Ratio	-	492	Functional size of a project in Function Points (FP), according to IFPUG Functional Size Measurement ISO/IEC 20926.
Actual_duration_months	Ratio	-	492	The actual duration of a project in Months; measured from the start of Project Initiation to (technical) Go Live. In case of Scrum as a development method the first creation date of a user story in scope of the delivery was taken as start date.
Actual_cost_EUR	Ratio	-	492	The actual cost of a project in Euros; measured from the start of Project Initiation to (technical) Go Live. License costs and (hardware) investments were not included in the cost.
Actual_effort_hours	Ratio	-	22	The actual effort spent in a project in Hours; measured from the start of Project Initiation to (technical) Go Live.
Defects_process	Ratio	-	270	The actual number of defects (also indicated as errors or faults) found in a project from system integration (SIT) to (technical) Go Live.

Defects_first_month	Ratio	-	60	The actual number of incidents (also indicated as errors, faults, or defects) found in the project in the first month after (technical) Go Live.
Stakeholder_satisfaction_process	Ratio	-	21	A measure of the satisfaction of stakeholders of a specific project with the way a project was performed and with the results as delivered by that project. Stakeholder Satisfaction is measured by asking stakeholders of a specific project to rate their satisfaction on two aspects; the way a project was performed (the project's process), and with the product(s) as delivered by a project (the project's result), for which we use questions with a 1 to 5 rating scale.
Stakeholder Satisfaction - Product	Ratio	-	21	A measure of the satisfaction of stakeholders of a specific project with the way a project was performed and with the results as delivered by that project. Stakeholder Satisfaction is measured by asking stakeholders of a specific project to rate their satisfaction on two aspects; the way a project was performed (the project's process), and with the product(s) as delivered by a project (the project's result), for which we use questions with a 1 to 5 rating scale.
Perceived_value_overall	Ratio	-	21	A qualitative measure of the perception of stakeholders of each project. This is based on the notion that in fact every measurement is an agreement on a measurement procedure that sufficiently approaches the actual value. Perceived Value is measured for each stakeholder in a specific project, on four aspects: a company's customers, a company's financials, a company's internal process effectiveness, and a company's innovation. We base the use of the four perspectives Customer, Financial, Internal Process, and Innovation on the Balanced Scorecard. Based on the results per project of the four perceived value measures a Perceived Value (overall) is calculated, with the number of measures (not counting the choice "Don't know") as weighting factor.

Keywords

For all projects a number of keywords are recorded in the repository, characterizing each project. These keywords are collected and recorded based on observations of the different projects, and might therefore be subjective. All keywords are indicated as booleans; two values are applicable; 1 = True, meaning the specific keyword applies to a specific project. 0 = False, meaning the specific keyword does not apply to a specific project.

Release_based_working	Boolean	2	492	Indicator whether a release based way of working is applicable for a project.
Once_only_project	Boolean	2	492	Indicator whether a project can be specified as once-only, meaning that a dedicated project team was setup for the project that was abolished once the project was finalized.
Multi_application_release	Boolean	2	492	Indicator whether a project was developed as part of a large release, containing more than one project. This keyword does not apply for projects that were developed as single projects, but deployed to production in a large release with more project included.
Phased_project	Boolean	2	492	Indication whether a project was part of a (phased) program.
Dependencies_with_other_applications	Boolean	2	492	Indicator whether dependencies with other projects or other applications were interfering with a specific project.
Single_application	Boolean	2	492	Indicator whether a project was applicable to a single application only.
Migration_project	Boolean	2	492	Indication whether migration of customers or data was part of a specific project.
Problems_with_external_supplier	Boolean	2	492	Indication whether in a specific project problems occurred that could be related to external suppliers.
Security_related_project	Boolean	2	492	Indication whether specific security aspects were applicable to a project, or whether the project was about specific security driven functionalities.
Package_of_the_shelf	Boolean	2	492	Indication whether the project included implementation of an off-the-shelf software package (e.g. without customization).
Package_with_customization	Boolean	2	492	Indication whether the project included implementation of a customized software package.
Steady_heartbeat	Boolean	2	492	Indication whether the project can be characterized as an iterative release with a steady (e.g. monthly, bi-weekly) delivery agenda.
Fixed_experienced_team	Boolean	2	492	Indication whether within the project a fixed and experienced team worked together for a longer period (e.g. a team delivering monthly a set of functionality over a period of a year).

Many_team_changes_unexperienced_team	Boolean	2	492	Indication whether many changes were applicable on a specific project team, creating an inexperienced team.
Legacy_application	Boolean	2	492	Indication whether the project was applicable on a specific legacy application (e.g. the project acted on a relively old payments system).
Technology_driven_project	Boolean	2	492	Indication whether new technology (e.g. not previously used within the company) was implemented within the scope of a project.
Rules_and_regulations_driven_project	Boolean	2	492	Indication whether a project included rules and regulations driven functionality (e.g. Basel II, SEPA).
Business_driven_project	Boolean	2	492	Indication whether a project can be characterized as business driven (e.g. functional requirements are prepared by business stakeholders and relate to specific business expectations).
Pilot_or_proof_of_concept	Boolean	2	492	Indication whether a pilot or proof of concept (PoC) was included in a specific project.