



# Function Point

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## MANAGER

A PERFORMANCE MANAGEMENT  
SOLUTION



Function Point  
MANAGER

*To manage IT Application Portfolio  
improving productivity and quality and  
reducing costs of software development*

## Overview

Software development is a critical element for business because costs are sometimes excessive, delivery times are rarely respected and quality of the results does not reach expectations.

In recent years companies have focused on the IT service cost reduction, primarily regarding the suppliers.

Cost reduction has reached such a low level that it risks to affect the quality of software. However, if businesses want to reduce costs further, optimizing the software development process becomes a necessity.

This strategy is founded on the knowledge of productivity and quality KPIs (Key Performance Indicators) that allows management to evaluate the trend of their own organization and plan corrective actions aimed at improving performance and quality of the internal processes.

Performance Management (PM) has the objective to define and monitor KPIs through the collection of information during the software life cycle.

The process starts by estimating the size of a new product or maintenance in Function Points and continues gathering project data (i.e. actual effort, cost, etc.) and monitoring production anomalies (incidents).

Collecting and storing this information in an enterprise repository is fundamental in building dashboards.

Tecnet Dati has a long experience in managing major projects in design and implementation of IT governance processes. **Function Point Manager®**, a result of this experience, allows implementation of an effective Performance Management System.

### TOPICS:

- Overview
- Value proposition
- Function Point Manager® for PM
- Functional Metrics
- FP and software life cycle
- Salient Features
- Benefits
- A risk free solution
- Function Point Manager® Suite

## Value proposition

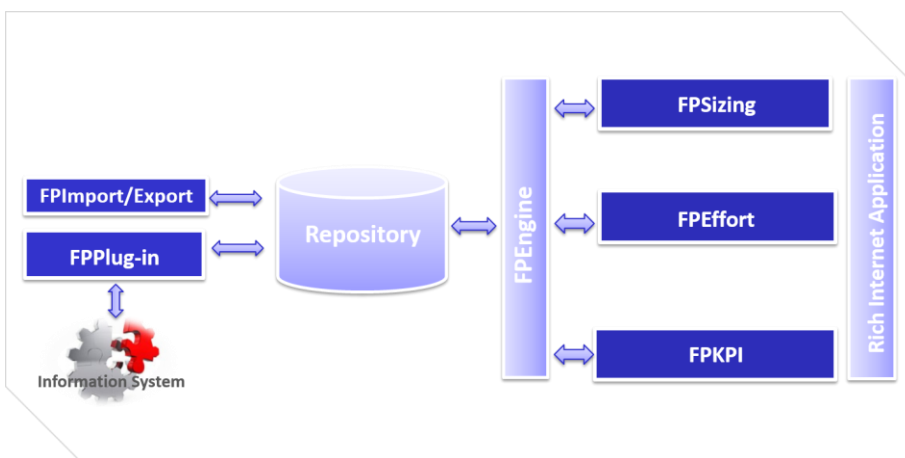
**Function Point Manager®** is aimed at all companies that need tools for Function Point counting and estimation and for the control of productivity, quality and cost of software development.

Thanks to its open, modular and scalable architecture, **Function Point Manager®** adapts to all types of business and can be easily integrated with the Customers System.

# Function Point Manager® for PM

Function Point Manager® covers all the Performance Management objectives:

- **Sizing in FP**, for existing applications, new projects and maintenance;
- **Estimation** of effort of the software development projects;
- **KPIs gathering**, starting from the size in FP to final statements (effort, costs, defects, production anomalies, ... )
- **Analysis**, to analyze trend and compare predicted values to actual values.



## Sizing in FP

Function Point is the starting point for a more objective and correct economic evaluation of the application portfolio, as it guarantees a comparison between projects; in fact, once it has recognised the size of two or more distinct projects in FP, it is possible to cross-evaluate costs, quality and productivity of the singular projects.

## KPIs Gathering

The KPIs of the product and the process, tailored in context and stored in the Repository, allow Management to have a clear idea of the IT organization's trend.

## Analysis and Benchmarking

Management can analyse KPIs and synthesized data, performing targeted analysis (drill-down), evaluate trends and compare the productivity and the costs of development and maintenance between the different company sectors (Prediction Vs. Actual).



## Dashboards

### Productivity:

*Effort per FP*  
*Cost per FP*  
...

### Quality:

*Defects per FP*  
*Defects removal efficiency*  
...

### Projects:

*Effort variation*  
*Scope variation*  
...

# Functional Metrics

Function Point, is today a reference point for functional measurement of software.

Besides the method applied by IFPUG (International Function Point Users Group), in 1988 a new method for functional measurement named 'COSMIC' was developed, a name taken from the standards organization who developed it: the Common Software Measurement International Consortium.

COSMIC Function Point sizes and estimates the "traditional" applications (with similar results to those of IFPUG) however, due to some particular characteristics, it adapts even to particular software components, such as web services, map components and batch processes.

Both IFPUG and COSMIC methods are FSM – Functional Method Standard ISO.



## FP and software life cycle

There are several steps during a project execution when the evaluations in FP are carried out. More precisely we distinguish (at least):

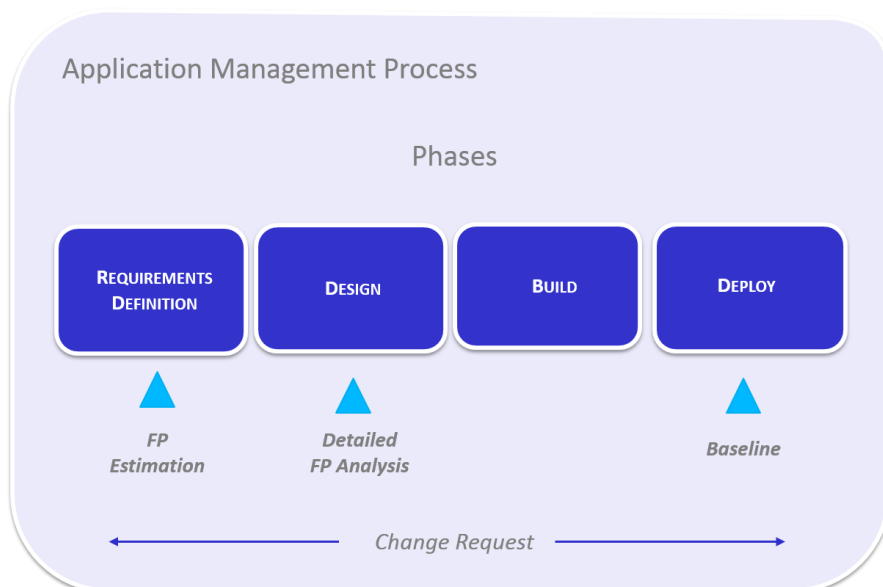
- **Function Point Estimation**, that applies to the initial phases of the project;
- **Function Point Counting**, which is done when you have more details available and / or when the system is deployed in order to establish a "sound starting point" (Baseline) to follow the evolution of the service;
- **Maintenance**, to keep aligned the baseline according to the functional enhancements of the system.

## Salient features

**Function Point Manager®** is a rich-client web application which helps customers for FP counting, according to IFPUG (CPM 4.3 and Early&Quick 3.0) and COSMIC (version 3.0) standards.

**Function Point Manager®** gives users the chance to manage the applications' life cycle (initial FP estimation, FP counting based on further details available, change requests, maintenance, ...) with the option to follow the trend of the application portfolio size and to track "the history" of requests for changes that occur during the applications' life cycle.

**Function Point Manager®** can be easily extended to support new metrics (eg Use Case Point) as well as to measure of Non-Functional Requirements (eg SNAP).





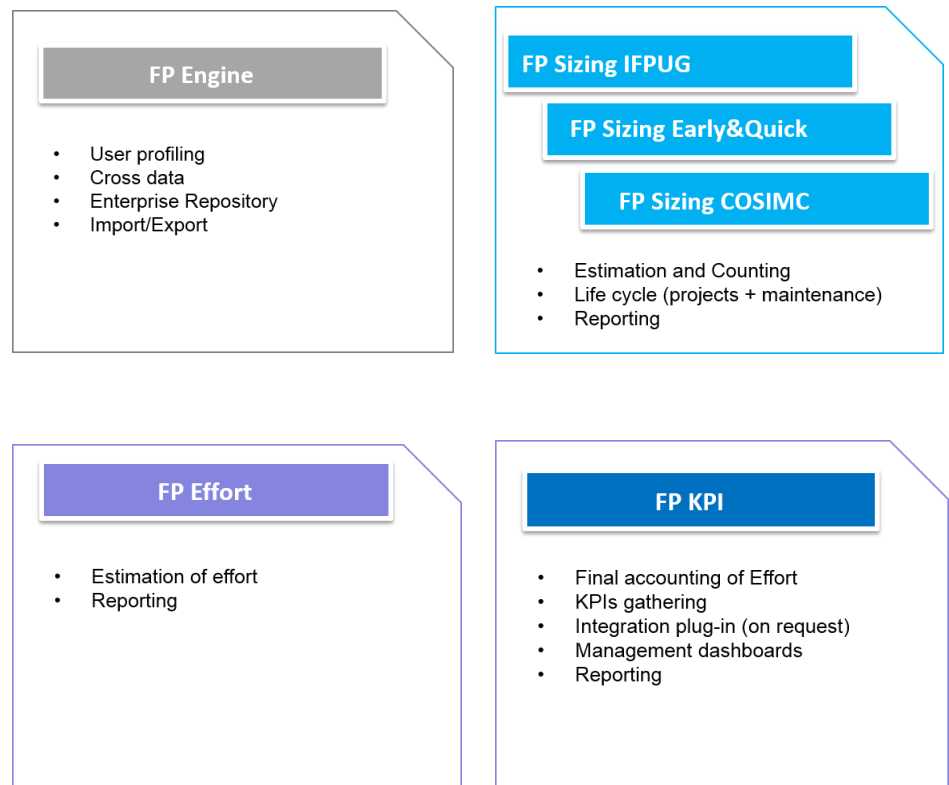
## A sound experience for a *risk free* solution

Function Point Manager® can be implemented by following the predefined steps:

- Review of the organizational model;
- Choice of methodologies for Function Points sizing;
- Installation and configuration of the product;
- Defining of the user's access profiles;
- Integration of Function Point Manager® with the customer's system (on request).

## Function Point Manager® Suite

Function Point Manager® a multi-user product composed of modules that can be ordered according to customer's needs.



### Benefits

- **Function Point Manager®** improve the application portfolio management giving updated data according to the enterprise application size and permits a historical analysis of the maintenance
- Allows quality, productivity and costs control of the application development based on specific and historical data at the selected dept required
- Permits management to valuate trends of the organization and plan corrective actions to improve the efficiency and the quality of internal processes
- Permits a comparison between internal and external organization and the evaluation of suppliers on the base of objective and shared evaluation criteria

## TECNET DATI, RELIABLE PARTNER

Founded in 1988, Tecnet Dati has developed sound expertise in Function Point sizing and analysis of quality and productivity KPIs.

ISO9001:2008 certified and accredited as PMI Registered Education Provider, Tecnet Dati is an IFPUG member and participates actively in the scientific debate on Function Point.

### Credits

*Early&Quick is a trademark  
of DPO Srl*



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