Abstract

https://www.youtube.com/watch?v=PkmON6i2d4M

Successful Software Delivery with Estimation as a profession

Christine discusses the principles of successful software delivery. This includes accurate planning and estimation, managing and monitoring scope and progress, use of the correct resource's ad methodology, being AGILE and Innovative.

Event: Webinar

Place: Virtual/Australia

Time: 19th of March 2021

Host Organization: ISBSG



Successful Software Delivery with Estimation as a profession







Christine Green

Independent Senior Analyst and Forecast Advisor

Specialist on Process improvement and Execution of Complex and Critical Software Delivery.

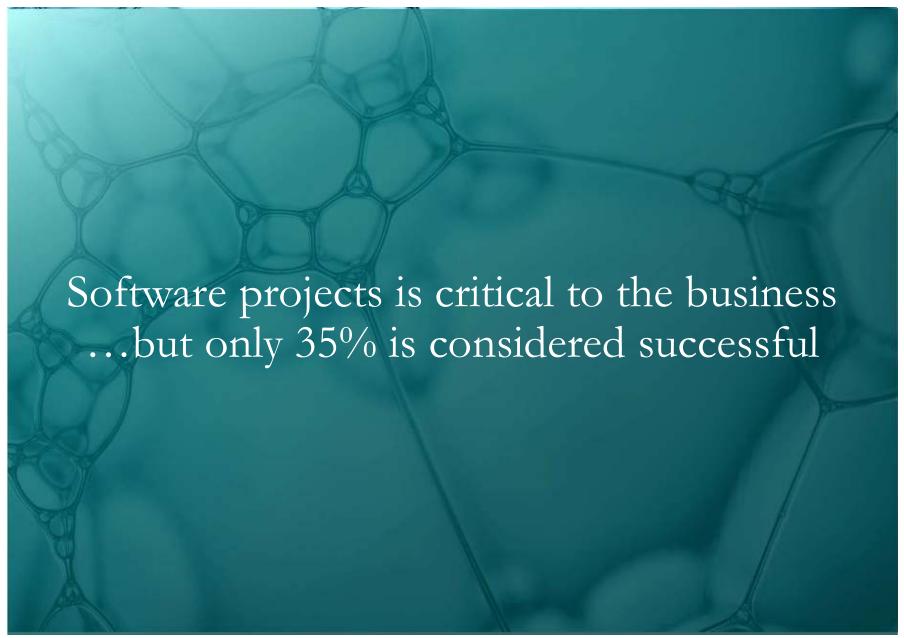
25+ years of experience in the software industry.

Worked on Critical contracts and projects for both government and private sector. Independent Consultant and Advisor since 2017.

M.Sc. in Mathematics and Computer Science Certified - PMP, CSM, SA; LSS BB, CFPS Fellow

President of IFPUG 2019-2021 CFPS Fellow since September 15th, 2020

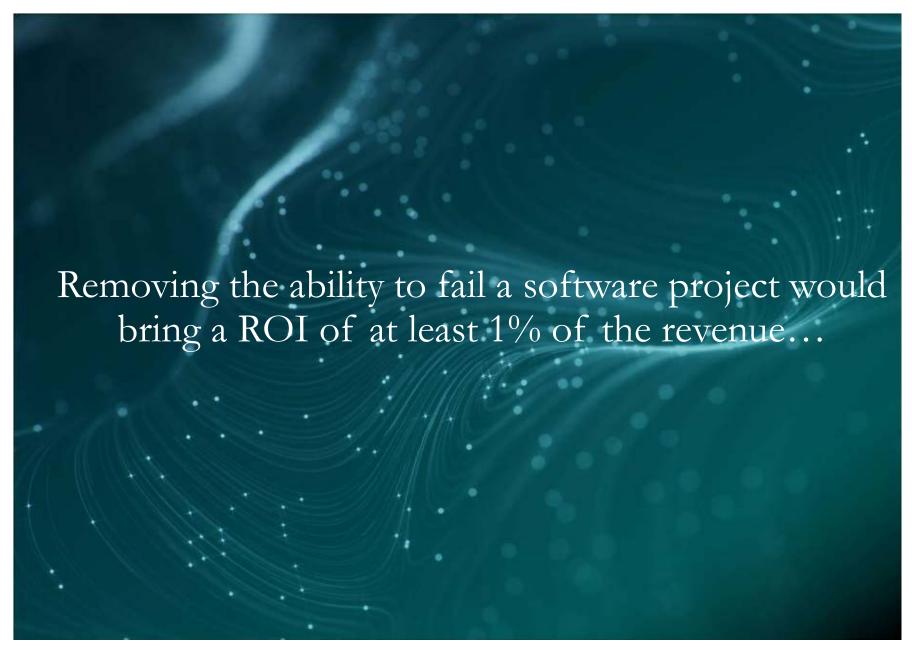




















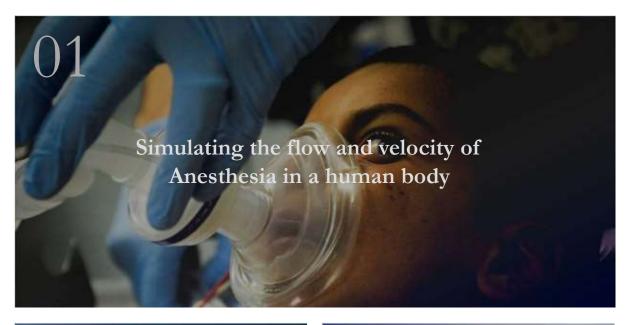




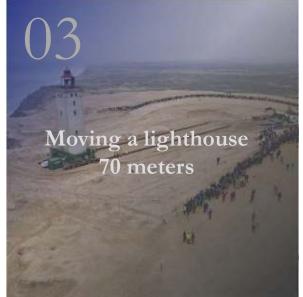


Looking at other industries from a software Project perspective

In retrospective





















Looking at other industries from a software Project perspective

In retrospective



Why are these cases relevant?















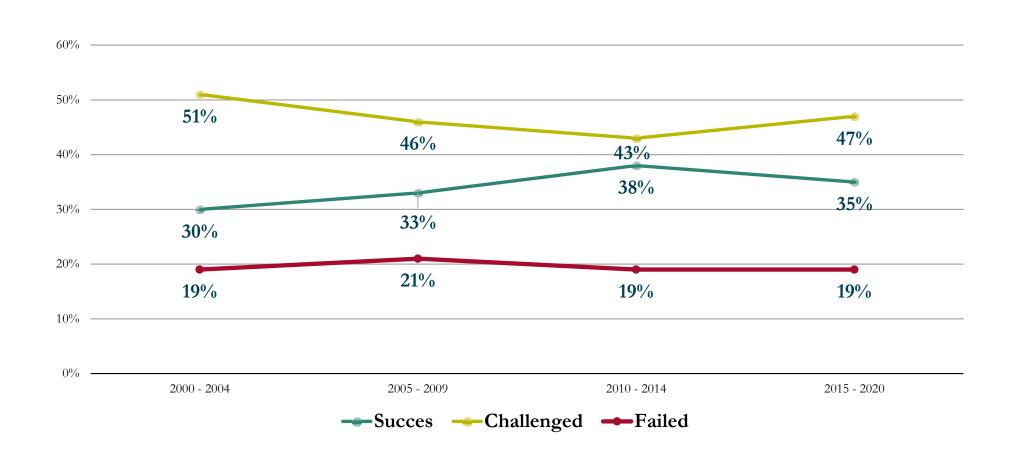
The single most important task of a project:

setting realistic expectations.

Unrealistic expectations based on inaccurate estimates are the single largest cause of software failure.

Source: Futrell, Shafer and Shafer "Quality Software Project Management", 2002

The improvement of successful projects is missing



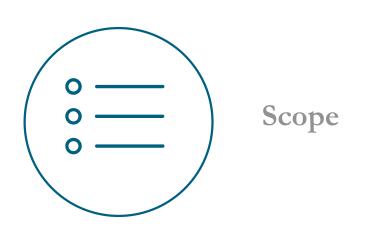








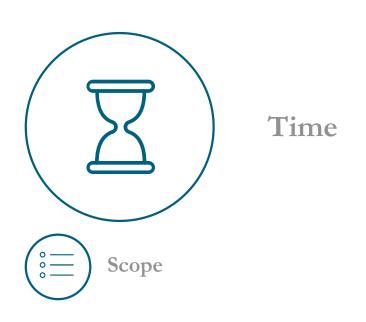
Scope as the Influencing Factor



...they fail to deliver within the combined objectives and requirements needed to complete a project



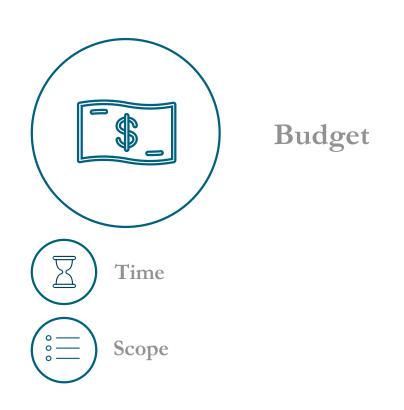
Time as the Influencing Factor



...they fail to deliver within the planned time and schedule



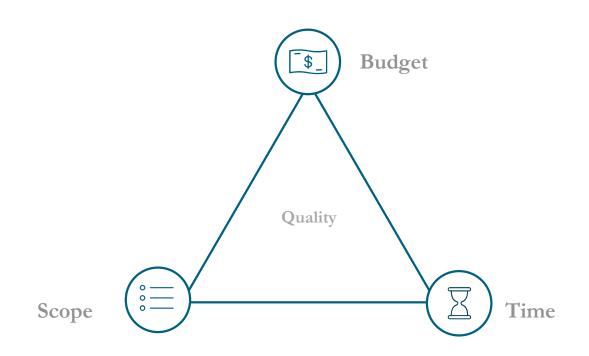
Budget as the Influencing Factor



...and they fail to deliver within the estimated budget

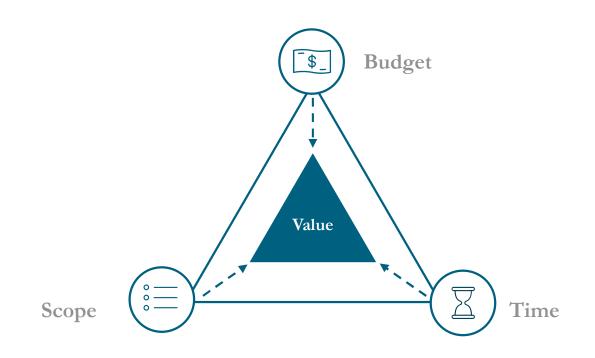


Which all together diminishes the expected value and quality of a project



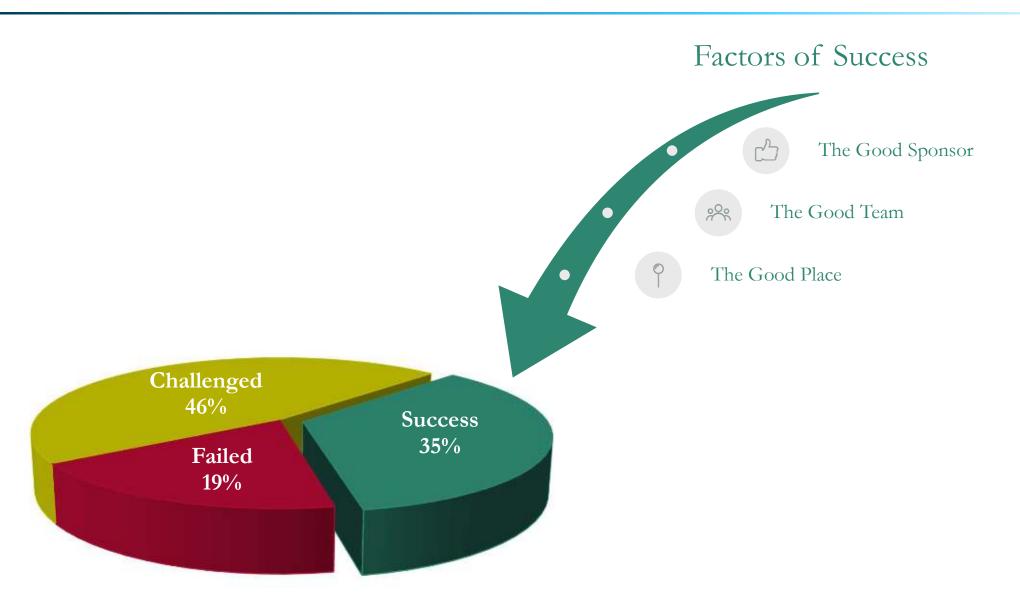


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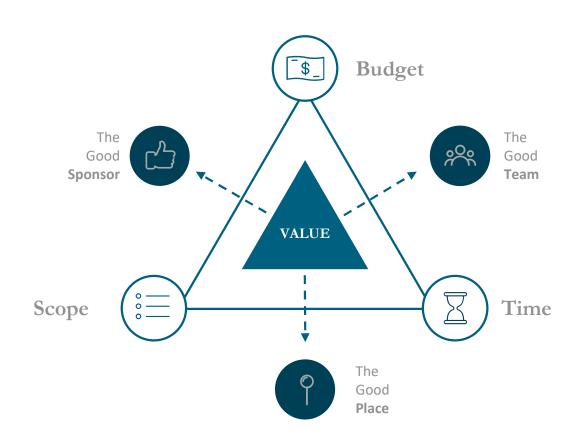
What makes the 35% of all IT projects turns out as a success?





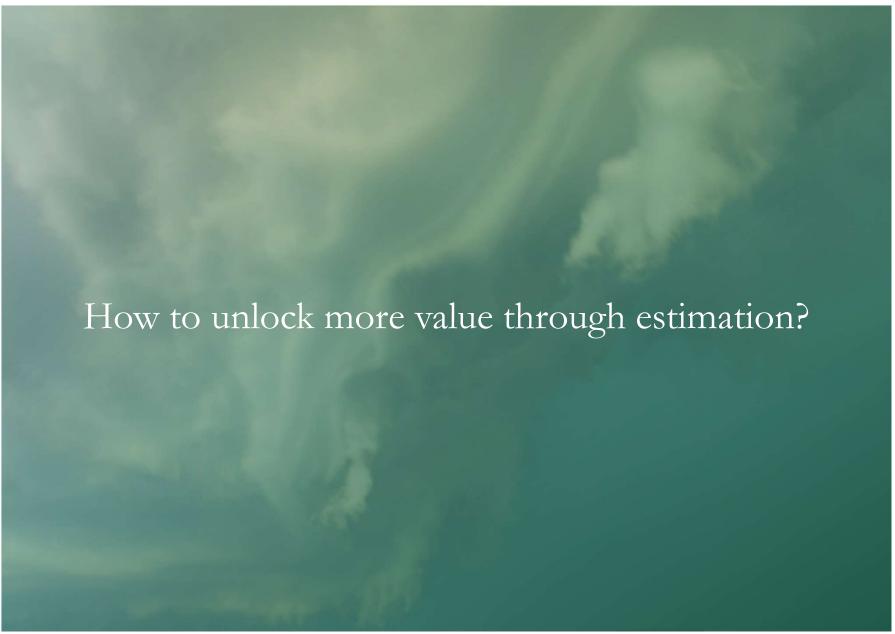


The improvement needs to focus on the factors of success and reason for failure

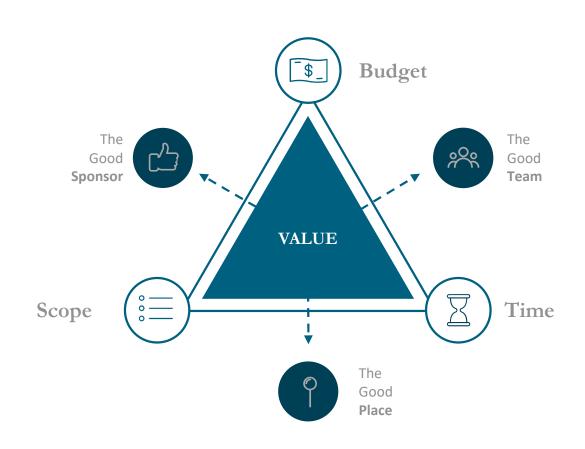








Having the good sponsor, the good team, and the good place can *unlock* more value of an IT project









Function Point Analysis (FPA)



Function Point Analysis (FPA) is a method for Measuring and/or Estimating the functionality of a software project





What does it take to build a LEGO construction?



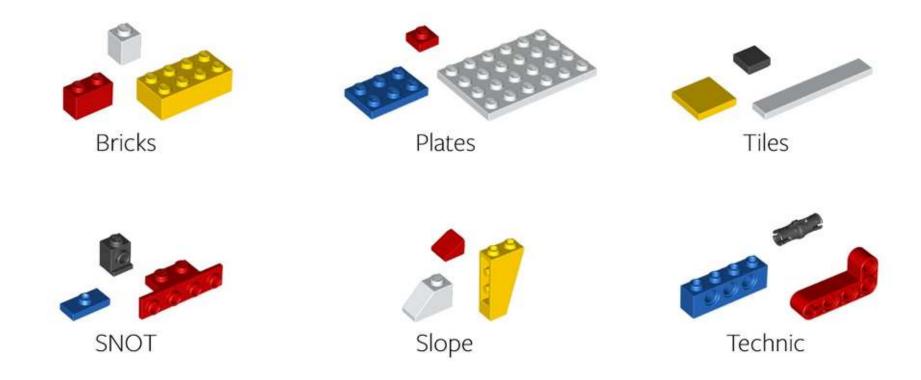


Simple construction

Complex construction

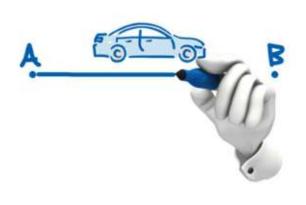


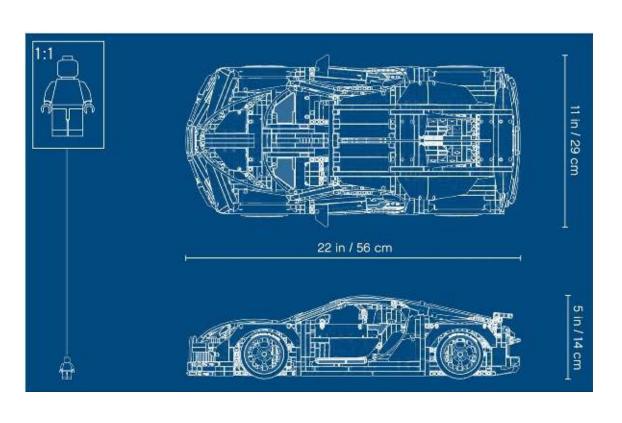
...it certainly depends on the requirements





How accurate you know the requirements

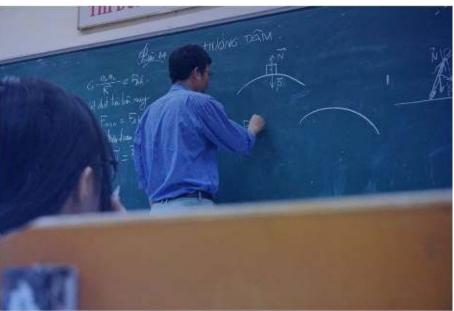






...and the expertise at hand





Low expertise

High expertise



The Technology & Methodology you use







Function Point Analysis used as a relevant methodology?





Governments' Usage

- Request for Proposal Evaluation
- Competitive pricing Evaluation
- Monitoring and Control of deliverables
- Quality Assurance Measurement
- Scenario Evaluation



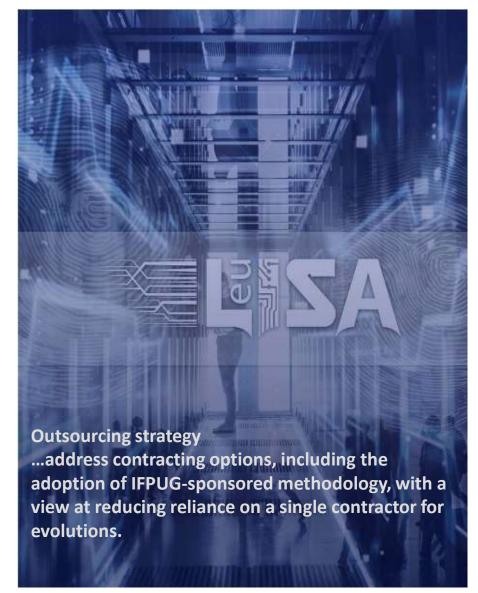






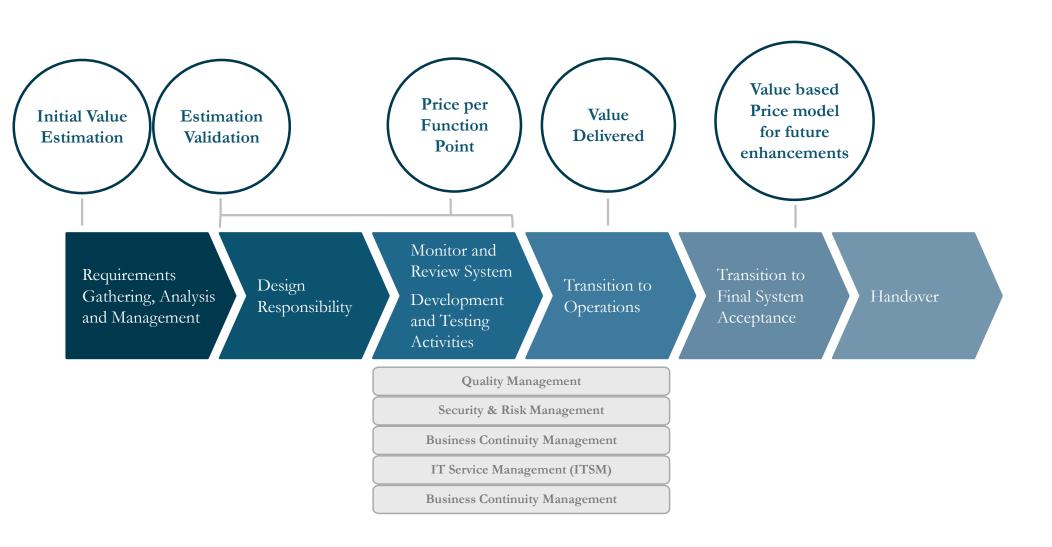
EU uses FPA

- Competitive Price evaluation
- Price per FP
- Monitoring and Control of Scope
- Scenario analysis





Realistic Schedule and Competitive Pricing





Private Sector Comparison

- Estimation comparison on RFP
- Monitoring and measuring of software
- Supplier Evaluation
- Price negotiation

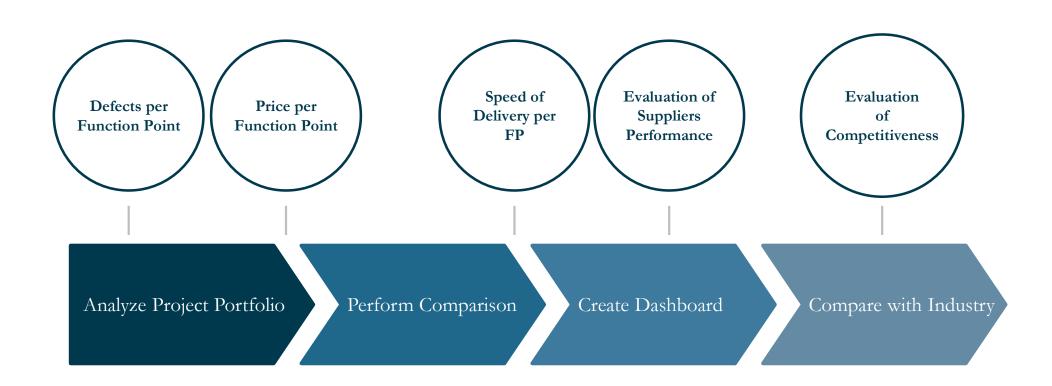








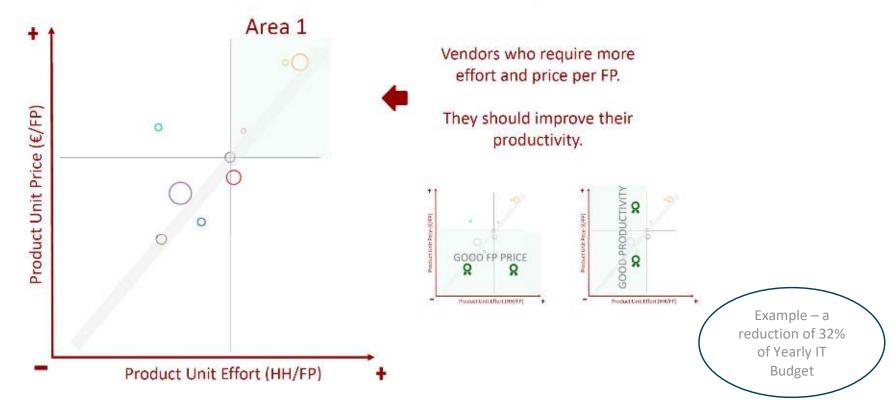
How the private sector companies perform FPA





Evaluating suppliers through FPA

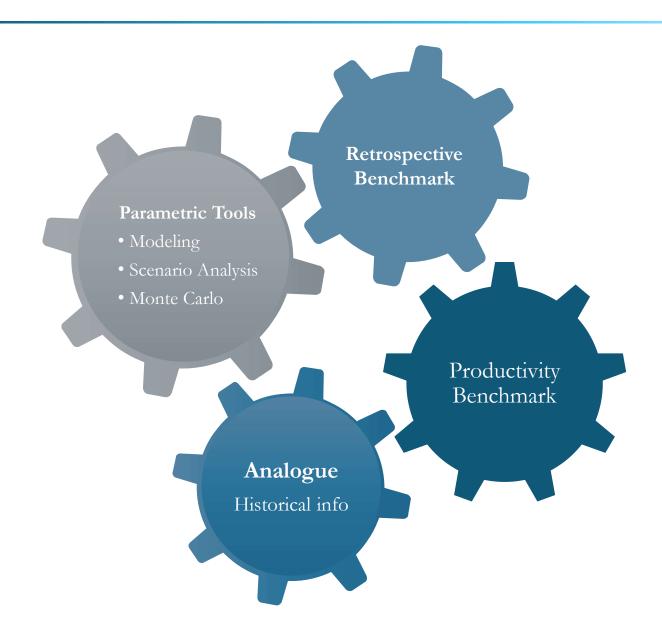
You can analize if your rates are (or aren't) well balanced with the effort required by the vendors.







Usage of FPA for Project Budget





Parametric Estimation Tool

NATO Case

With its initial proposal the vendor requested a project budget of €7.2Million. Using the risk-based estimates generated from SEER, NATO were able to negotiate a project cost €4.1Million, a saving of 43%. Instead, the usual 5%-10% expected through traditional negotiations.

Data-driven estimation is seen as a fundamental part to the success of project delivery within NATO.







Value & Velocity measures





Other Benefits of FPA



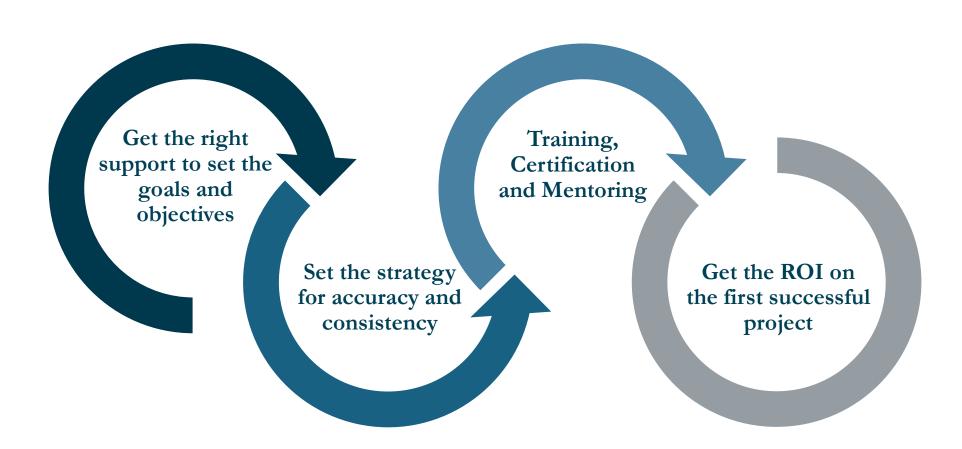
A Certified FP Specialist is an expert in bridging the communication between Sponsor, User, Technical and Planning needs

- A process more than a single number
- Strengths in its definition and usage
- The best scope management and control methodology in the world
- The high-level perspective of landscape and business coverage
- The Requirement traceability and control from a user's perspective
- The visibility that is required from Business Process to Software testing
- The quantitative measure between Purchaser and Delivery organization
- Strength is in the consistency
- Early, detailed and controlled can evolve and change
- The visibility from Business Process to Software delivery acceptance

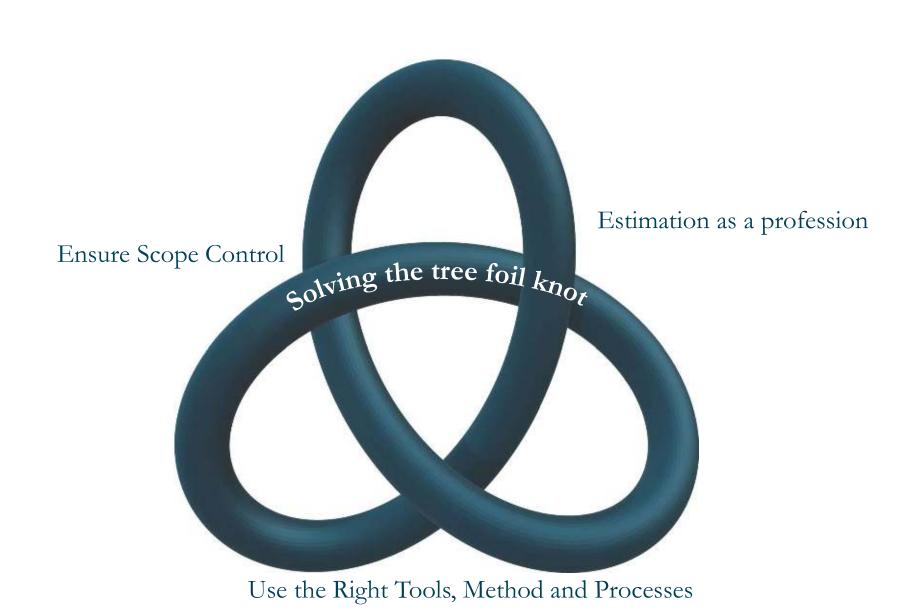
The Process for scope illumination, control and measurement



How to start using Function Point Analysis in your organization?







Recommendations for achieving successful IT Projects

PROFESSIONALISM	Scope Management, Estimation & forecast professionally
SIZE AND PRIORITIES	Size and priorities the project requirement and value
CONTROL	Control your project and process – quantify and validate

Remember

Successful IT Budgets is a combination of Science and Art





I believe that by using Function Point Analysis we can improve the success rate of software projects

Add a Estimation and Scope specialist aka a Certified FP Specialist (CFPS) to your team • Thank you!

• If any questions, feel free to ask in the comment section





QUESTIONS?

Christine Green

Owner of IP_{by}Green



www.ipbygreen.com

Skype: christine.green

LinkedIn: christinegreendk



Mobile: +45 81 72 11 22

Email: <u>info@ipbygreen.com</u>

Successful Software Delivery as a profession

Even today we have half of our IT projects challenged and every fifth of them never deliver the value expected. This trend has not changed even without attempts of improving using rigorous process focus as well as agile trends. I am on a mission to try to change this and would like to share with you what I believe is required in order to ensure Successful Software Delivery:

- Plan and Estimate software delivery projects as a prof
- Manage and monitor your scope and progress
- Ensure you use the right method at the right time
- Ensure you have the right resources at the right time
- Be Agile and Innovative, and use the right process at the right time

This presentation will take you on the journey to what it takes to accomplish the above

Event: ISBSG

Place: Virtual Webinar

Time: 19th of March

Host Organization: ISBSG

