Sizing for Estimating, Measurement and Benchmarking



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Abstract:

This presentation will talk about how software sizing can be a normalizing factor for both estimating, measurement and benchmarking.

It will introduce size measure for both functional as well as non-functional size -utilizing the IFPUG method Function Point Analysis (FPA) as well as Software non-functional Assessment Process (SNAP).

The presentation will take the view from estimating to measurement for projects as well as benchmarking for organizations utilizing industry data as the competitive comparison.

The presentation will touch on issues with requirement and how to utilize FPA and SNAP to mitigate this incl. Accuracy levels of size assessment for estimating. In addition, High-level view of other data then size that a measurement program should include, and recommendation for repository and reporting of data. The presentation is not intended to be a full introduction into any process or method - but a end2end roadmap.

Keyword:

Sizing, FPA, SNAP, Requirement gathering, scope management, IFPUG, ISBSG, estimating, measurement, Benchmark

Event: IT Confidence

Place: Tokyo, Japan

Time: 22nd of October 2014

Host Org: ISBSG & JFPUG





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Sizing for Estimating, **Measurement and Benchmarking**

Focus on Sizing Benefit

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Goals of the presentation

- G1. Size as a normalization factor
- G2. Process from scope to strategic decision
- G3. Selling size measurement and analysis
- G4. Process for measuring project risk



An introduction to Christine Green

Key works Function Point, SNAP Points, Measurement & Analysis, Process - CMMI, ISO, PMI, Estimating models and tools, Benchmark – Internal & External



HP Employee with focus on support, rollout, definition and development of Sizing, Estimating, measurement & Benchmarking Process and tools for +10 years



IFPUG Board Member, Director of Applied Programs (Non-Functional Sizing Standard Committee & Innovation Program)



ISBSG Board Member, Treasure and Advisory director

Private Three kids – 22, 7 & 4 (Balance in life), Lives in Odense, Denmark



Process complexity





1000 Feet – Scope Control



Scope – the black box



FPA – 1000 Feet





SNAP – 1000 Feet



Estimating Fit - 1000 feet



- Promote confidence, understanding, acceptance
 - Confidence is based on
 - Accurate
 - Achievable
 - Competitive
- lead to informed project planning decisions
- facilitate effective project tracking & oversight
- increase product quality
- increase process quality



Estimating Techniques





Estimating Process - Accuracy

Accuracy depends on

- The reliability of scope definition.
- The quality of the documentation.
- The assumptions/constraints that will have an impact
- The reliability of the historical information
- The uniqueness of the project

Accuracy is important in order to evaluate the level of control of the estimates needed



The Accuracy and Reliability of the Scope using FPA



- Impact on accuracy and risk
 - Scope quality
 - Size Accuracy
 - Estimating techniques and risk

Schedule/Cost Perspective





Measurement and control Perspective

Size is the most important primitive metrics.

Size are often used as decision input in: planning, change management, contract management etc. 90% of all Performance Indicators should include Size.

The way to compare projects and organizations, is to include SIZE





Repository 1000 Feet Perspective





Project Monitoring



The Measurement Perspective



teen

• A simplification of the "real" world – but not too simplified

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Iterative Approach



Questions?



