

BMP-q – Balancing Multiple Perspectives questionnaire

1a	<p>In the project(s) you worked, you have contributed in terms of (<i>stress which is your current role</i>):</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Role</td><td style="width: 30%;">Years of Experience in the Role</td><td style="width: 40%;"></td></tr> <tr> <td colspan="3" style="border-top: 1px solid black; border-bottom: 1px solid black;"></td></tr> <tr> <td>Project Manager</td><td style="text-align: center;">..</td><td style="border-bottom: 1px solid black;"></td></tr> <tr> <td>Team Leader</td><td style="text-align: center;">..</td><td style="border-bottom: 1px solid black;"></td></tr> <tr> <td>Quality Assistant</td><td style="text-align: center;">..</td><td style="border-bottom: 1px solid black;"></td></tr> <tr> <td>Developer</td><td style="text-align: center;">..</td><td style="border-bottom: 1px solid black;"></td></tr> <tr> <td>Tester</td><td style="text-align: center;">..</td><td style="border-bottom: 1px solid black;"></td></tr> <tr> <td>Other _____</td><td style="text-align: center;">..</td><td style="border-bottom: 1px solid black;"></td></tr> </table>	Role	Years of Experience in the Role					Project Manager	..		Team Leader	..		Quality Assistant	..		Developer	..		Tester	..		Other _____	..																																																																																																																																																																																																																																																																																																																																																																																																										
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1b	<p>How many viewpoints were usually managed for monitoring & control such project(s)?</p> <p>.. <u>T</u>ime .. <u>C</u>ost .. <u>Q</u>uality .. <u>R</u>isk .. Other₁ _____ .. Other₂ _____</p>																																																																																																																																																																																																																																																																																																																																																																																																																																	
1c	<p>And which one(s) in Your opinion, whether not previously taken into account, would need to be considered for next projects?</p> <p>.. <u>T</u>ime .. <u>C</u>ost .. <u>Q</u>uality .. <u>R</u>isk .. Other₁ _____ .. Other₂ _____</p>																																																																																																																																																																																																																																																																																																																																																																																																																																	
2	<p>Referring to Your experience, please select from the following list the metrics usually used in the project(s) you worked in (OLD column) and those You'd choose for a next project (NEW column) of the same typology and complexity, selecting also to which viewpoint(s) you associate it from the ones listed above.</p> <table style="width: 100%; border-collapse: collapse; font-family: monospace; font-size: 0.8em;"> <tr> <th colspan="4"></th><th colspan="6" style="text-align: center;">== Viewpoint ==</th></tr> <tr> <th style="text-align: left;">Old</th><th style="text-align: left;">New</th><th style="text-align: left;">Category</th><th style="text-align: left;">Measure</th><th style="text-align: left;">Indicator</th><th style="text-align: center;">T</th><th style="text-align: center;">C</th><th style="text-align: center;">Q</th><th style="text-align: center;">R</th><th style="text-align: center;">O₁</th><th style="text-align: center;">O₂</th></tr> <tr><td colspan="11" style="border-top: 1px solid black; border-bottom: 1px solid black;"></td></tr> <tr> <td>..</td><td>..</td><td>Milestone Performance</td><td>Milestone Dates</td><td>Dev.Milestone Schedule</td><td>..</td><td>..</td><td>..</td><td>..</td><td>..</td><td>..</td></tr> <tr> <td>..</td><td>..</td><td></td><td></td><td>Milestone Progress</td><td>..</td><td>..</td><td>..</td><td>..</td><td>..</td><td>..</td></tr> <tr> <td>..</td><td>..</td><td></td><td></td><td>Maintenance Activities</td><td>..</td><td>..</td><td>..</td><td>..</td><td>..</td><td>..</td></tr> <tr> <td>..</td><td>..</td><td>Work Unit Progress</td><td>ProblReport Stat</td><td>PR Status</td><td>..</td><td>..</td><td>..</td><td>..</td><td>..</td><td>..</td></tr> <tr> <td>..</td><td>..</td><td></td><td></td><td>PR Aging - 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	Efficiency	Timing	Response Time - OL Functions
			Response Time During Test - OL Fun
	.. ..	Portability	Std Compliance	Interface Compliance Validation
	.. ..	Usability	Operator errors	PR by Type of Problem data
	.. ..			Operator Error distrib by reason
	.. ..			Device Complexity Distribution
	.. ..	Dependabil-Reliability	Failures	MTBF Ranges on Historical Data
	.. ..			Reliability Growth tracked w/MTTF
	.. ..	Process Compliance	Ref.Model Rating	Ref.Model Level - Continuous type
	.. ..			Ref.Model Level - Staged type
	.. ..		Proc.Audit Find.	Process Audit Findings
	.. ..			Audit Findings by Reason code
	.. ..	Process Efficiency	Productivity	Sw Productivity - Hist. Vs Propos
	.. ..			Evaluating Options using SwProduct
	.. ..	Process Effectiveness	Defect Containm.	Req's Def. discovered after Req Ph
	.. ..		Rework	Dev.Effort by Activ.vs Tot.Rew.Eff
	.. ..			Rework Effort by Activity
	.. ..	Technology Suitability	Req. Coverage	Critical Tech. Requirements
	.. ..			Technology Fit - Trends
	.. ..	Impact	Tech.Impact	Mean Processing Time
	.. ..			Avg Cost per Picture
	.. ..			Estimated Yearly Maintenance Cost
	.. ..	Technology Volatility	Baseline Changes	Tech.Volatility - Cumul.Releases
	.. ..			Tech.Volatility - Emerging Tech.
	.. ..			Tech.Volatility - Established Tech.
	.. ..	Customer Feedback	Survey Results	Customer Satisfaction Survey
	.. ..		Perform. Rating	Composite Perfor.Award Scores
	.. ..			Performance Award Category Scores
	.. ..	Customer Support	Req. for Support	Total Calls per Month by Priority
	.. ..			Mean Response Time by Priority
3a	In Your opinion which metrics from those previously selected should be jointly analysed (i.e. <i>if the metric A has a value above average and metric B a value below average, it means that...</i>) in order to analyze and solve eventual problems in the monitoring & control phase on Your project(s)?			
3b	Why?			
4a	Do you know (approximately) the cost spent for monitoring & control activities on the project(s) you worked in? .. Yes .. Don't Know			
4b	If positive, please could you provide the percentage (approx) for monitoring & control activities?			
4c	And in Your opinion - for a next project of the same typology and complexity -which percentage (approx) of the project budget should be assigned to monitoring & control activities?			

BMP-q – Balancing Multiple Perspectives questionnaire: Analysis¹
List of possible indicators/measures from BMP-q

1a	1	Respondents profile by project role (# and %)
	2	Experience profile for current project role (# and %)
1b	3	# analysis viewpoints (OLD)
1c	4	# analysis viewpoints (NEW)
2	1	# selected measures (OLD)
	2	# selected measures (NEW)
	3	# impacted viewpoints (NEW)
	4	Average (avg) of measures by viewpoint (# and %)
	5	Ranking of selected measures by: abs value, respondent project role, analysis viewpoint
3a	1	List of causal relationships among measures
	2	Ranking of relationships by: absolute value, respondent project role, analysis viewpoint
4a	1	% respondents knowing amount of costs for m&c (monitoring & control) activities
4b	1	Max, Min, Avg and Med for the returned values (%) – OLD
4c	1	Max, Min, Avg and Med for the returned values (%) – NEW

¹ Rif: L.Buglione & A.Abran, *Improving Measurement Plans from multiple dimensions: Exercising with Balancing Multiple Dimensions - BMP*, 1st Workshop on "Methods for Learning Metrics", [METRICS 2005](#), 11th IEEE International Software Metrics Symposium, 19-22 September 2005, Como (Italy)