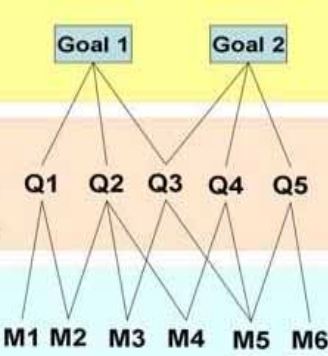
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| Description: C:\Users\ASHISAI\Desktop\HIT Team\Logo HIT\Logo_New_New.png**Team Assignment 03** |
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| **HIT** |
| **3/2/2012** |
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**Software Measurement and Analysis**

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***Each team presents a GQM chart for one assigned Viking project goal:***

***- Increase project schedule predictability by 10%***



**Our group was assigned to used GQM chart for the following achieved goal:**

**Goal:**  Increase project schedule predictability by 10%

To improve the estimation is accurate, it depend on hands-on experiences of previous project. In the Viking project, team uses the Matador project to compare the estimation that was increase an accurate over 10%.

To come up the question at the beginning such as: the interaction of elements to schedule, and then we can give metrics and collect necessary data.

We have three perspectives to make question:

**Goal:**  Increase project schedule predictability by 10%

To improve the estimation is accurate, it depend on hands-on experiences of previous project.

1. Using historical Data, team uses the Matador project to compare the estimation that was increase an accurate over 10%.

To come up the question at the beginning such as: the interaction of elements to schedule, cost, quality, resource and then we can give metrics and collect necessary data.

We have four perspectives to make question:

**Question 1.1:** What was the accuracy of Matador’s duration estimating?

**Metric 1.1:**

Actual duration to finish Matador: A1 (measured by days)

Estimate duration to finish Matador: E1 (measured by days)

Deviation:

**Question 1.2:** What was the accuracy of Viking’s duration estimating?

**Metric 1.2:**

Actual duration to finish Viking: A2 (measured by days)

Estimate duration to finish Viking: E2 (measured by days)

Deviation:

**Question 1.3:** What was the rate of improvement over the duration estimating of Viking project compare to previous project (Matador)?

**Metric 1.3:**

The prediction increases 10% when R1 - R2 >= 10% → Goal accomplished

**Question 2.1:** What was the accuracy of Matador’s cost estimating?

**Metric 2.1:**

Actual cost to finish Matador: A3 (measured by USD)

Estimate cost to finish Matador: E3(measured by USD)

Deviation:

**Question 2.2:** What was the accuracy of Viking’s cost estimating?

**Metric 2.2:**

Actual cost to finish Viking: A4 (measured by USD)

Estimate cost to finish Viking: E4(measured by USD)

Deviation:

**Question 2.3:** What was the rate of improvement over the cost estimating of Viking project compare to previous project (Matador)?

**Metric 2.3:**

The prediction increases 10% when R3 - R4 >= 10% → Goal accomplished

**Question 3.1:** What was the accuracy of Matador’s human resource estimating?

**Metric 3.1:**

Actual human resource to finish Matador: A1 (measured by man)

Estimate human resource to finish Matador: E1 (measured by man)

Deviation:

**Question 3.2:** What was the accuracy of Viking’s human resource estimating?

**Metric 3.2:**

Actual human resource to finish Viking: A2 (measured by man)

Estimate human resource to finish Viking: E2 (measured by man)

Deviation:

**Question 3.3:** What was the rate of improvement over the human resource estimating of Viking project compare to previous project (Matador)?

**Metric 3.3:**

The prediction increases 10% when R1 - R2 >= 10% → Goal accomplished

**Question 4.1:** What was the accuracy of Matador’s defect estimating?

**Metric 4.1:**

Actual defect found in Matador: A3 (measured by number of defect)

Estimate defect found in Matador: E3 (measured by number of defect)

Deviation:

**Question 4.2:** What was the accuracy of Viking’s defect estimating?

**Metric 4.2:**

Actual defect found in Viking: A4 (measured by number of defect)

Estimate defect found in Viking: E4(measured by number of defect)

Deviation:

**Question 4.3:** What was the rate of improvement over the defect estimating of Viking project compare to previous project (Matador)?

**Metric 4.3:**

The prediction increases 10% when R3 - R4 >= 10% → Goal accomplished

1. Using Wideband Delphi and Parametric

Develop WBS to divide project into small tasks, then using Parametric method to estimate.

**Question 5.1:** What was the accuracy of Viking’s effort estimating when using parametric?

**Metric 5.1:**

PM = A \* (Size)B

 PM = Effort (person months)

 A = Constant representing productivity

 Size = Software size

 B = Accounts for relative economies of scale, and are determined by rating specific scaling factors

**Question 5.2:** What was the accuracy of Viking’s schedule estimating when using parametric?

**Metric 5.2.1:**

Estimate Schedule in Viking using parametric: E5(months)

M = Estimate person months for project

**Metric 5.2.2:**

Actual schedule in Viking: A5 (months)

Deviation:

**Question 6.1:** What was the accuracy of Viking’s schedule estimating when not using parametric?

**Metric 6.1:**

Actual schedule in Viking: A6 (months)

Estimate Schedule in Viking not using parametric: E6(months)

Deviation:

**Question 7.1:** What was the rate of improvement over the schedule estimating of Viking when using parametric and not using parametric?

**Metric 7.1:**

The prediction increases 10% when R6 – R5 >= 10% → Goal accomplished