

GQM Paradigm: Determining What to Measure

We defined our goal based on the purpose, perspective, and environment, identified the questions and derived the questions that must be answered to determine whether the goal has been met, and decided what must be measured in order to be able to answer the questions adequately. To define our goal, at first, we identified our purpose, perspective, and environment.

Goal: Productivity prediction of the developers based on their teamwork

Purpose: Analyzing the productivity of software developers

Perspective: Examine the nature of productivity from the developers' viewpoint

Environment: Developers have good bonding between them.

Questions:

Q1. What does productivity mean?

Q2. Can they handle delivery in time?

Q3. What are the sources of team chemistry related factors of developers? / How is team chemistry?

Metrics for Q1: What does productivity mean?

- Office time
- Work satisfaction
- Decision contribution
- Intrinsic reward
- Extrinsic reward/career growth

Metrics for Q2: Can they handle delivery in time?

- Number of projects last year
- Deadline crossing frequency
- Overtime frequency

Metrics for Q3: What are the sources of team chemistry related factors of developers? / How is team chemistry?

- Teammate interaction
- Effectiveness of scrum meeting
- Hangout frequency
- Team age
- Teammate's age
- Team leader & teammate interaction
- Gender diversity