

Formula: DRE=Defects removed before releaseTotal defects×100%\text{DRE} = \frac{\text{Defects removed before release}}{\text{Total defects}} \times 100 \%DRE=Total defectsDefects removed before release×100%

Effort and Schedule Metrics:

- **Effort Variance**: Compares how much work was estimated versus how much was actually done.
- **Schedule Variance**: Compares the estimated time for tasks versus the actual time taken.

• Cycle Time:

Measures how long it takes for a task to go from start to finish.



- o **Response Time**: How quickly the software responds to a request.
- o Throughput: How many tasks or transactions the software can handle in a certain time.
- **Resource Utilization**: Measures how much memory, CPU, or other resources the software uses.

Why Use Metrics?

- **Improves Quality**: By tracking issues and improvements, software teams can produce better products.
- Predicts Project Outcomes: Metrics help predict project timelines, costs, and resource needs.
- **Optimizes Processes**: Regular tracking of metrics can help identify areas for improvement in how the team works.
- Measures Progress: Metrics show if a project is on track, behind, or ahead of schedule.

