

Test Report

An abstract graphic consisting of several overlapping, wavy bands of color. The colors include shades of blue, green, yellow, and orange, creating a sense of movement and depth. The waves are layered, with some appearing more prominent than others.

University of Information Technology
Lecture: MSc. Nguyen Thi Thanh Truc
Email: trucntt@uit.edu.vn
Last updated: Mar-2014

Agenda

- **Duration:** *2 Hours*
- **Audience:** *Testers*
- **Content:**
 1. Test Report concepts
 2. Test Report process
 3. Test Report template

After the course, student will:

- Understanding what is Test Report, Defect Report
- Understanding the way to create test report
- Able to analysis about quality & progress based on data collection





Concepts

Test Report Concepts

Test Case Execution Status

Passed	Actual result is meet requirement (expected result)
Failed	Actual result isn't meet requirement (expected result)
Blocked	Can not executed because pre-condition was failed
Skipped	Not applicable, Not Available, out of scope testing
Not Yet Tested	Has not executed yet

Test Coverage: *The degree, expressed as a percentage, to which a specified coverage item has been exercised*

$$\text{Test Coverage} = \frac{\text{No of Executed Test Case}}{\text{Total Test Case}} \times 100 \%$$

Test Success Coverage: *The degree, expressed as a percentage of success, to which a specified coverage item has been exercised*

$$\text{Test Success Coverage} = \frac{\text{No of Passed Test Case}}{\text{No of Executed Test Case}} \times 100 \%$$

Defect Report Concepts

Defect Type	Description
Business logic	
Security – Access control	
Feature missing	
Functionality (Other)	
Performance	Slowly, not response as expected time.
Requirement misunderstand	Team misunderstand requirement from customer specs
Data – Database integrity	
User interface	Layout of application different with screen design like image, color
Coding logic	
Document	

Defect Report Concepts

Defect Severity	Weight	Description
Fatal	10	Critical defect making the system crash, cannot recover data
Serious	5	Defect making the major function cannot work or work incorrectly. E.g. User can see/do the activity without his permission.
Medium	3	Defect making the minor function cannot work or work incorrectly. E.g. System returns incorrectly with invalid data, boundary value, performance slowly.
Cosmetic	1	Defect of interface, no impact to functionality. E.g. Layout of form not good, wrong with Tab order, default focus, short key...

Defect Report Concepts

Defect Priority	Description
Immediately	Defect should be fixed right away or within 01 day after logging
High	Defect should be considered fixing within 02 - 04 days after logging
Normal	Defect should be considered fixing within 05 - 08 days after logging
Low	Defect can be delayed (to be fixed later when appropriate)

Defect Metrics

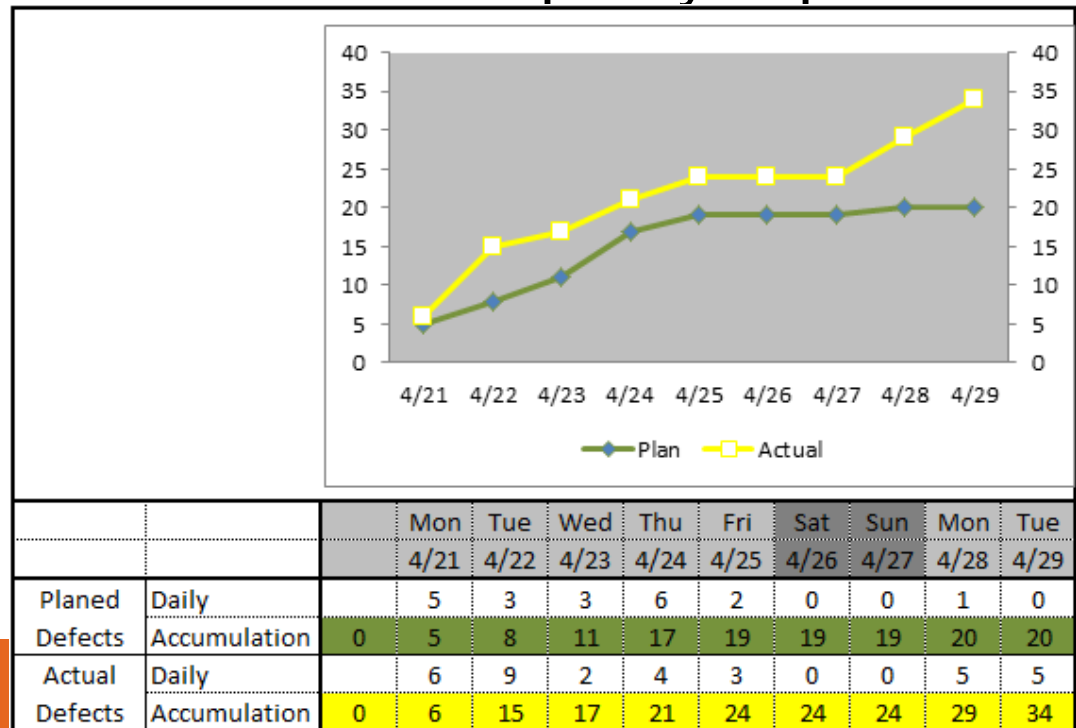
Leakage: *measure quality of the product and service after delivery for acceptance test (QC Activity = Acceptance test)*

Defect Rate: *metric to measures quality of overall project's products.*

$$\text{Defect Rate} = \frac{\text{Total No of weighted Defects of a product}}{\text{Product size}}$$

Defect Trend:

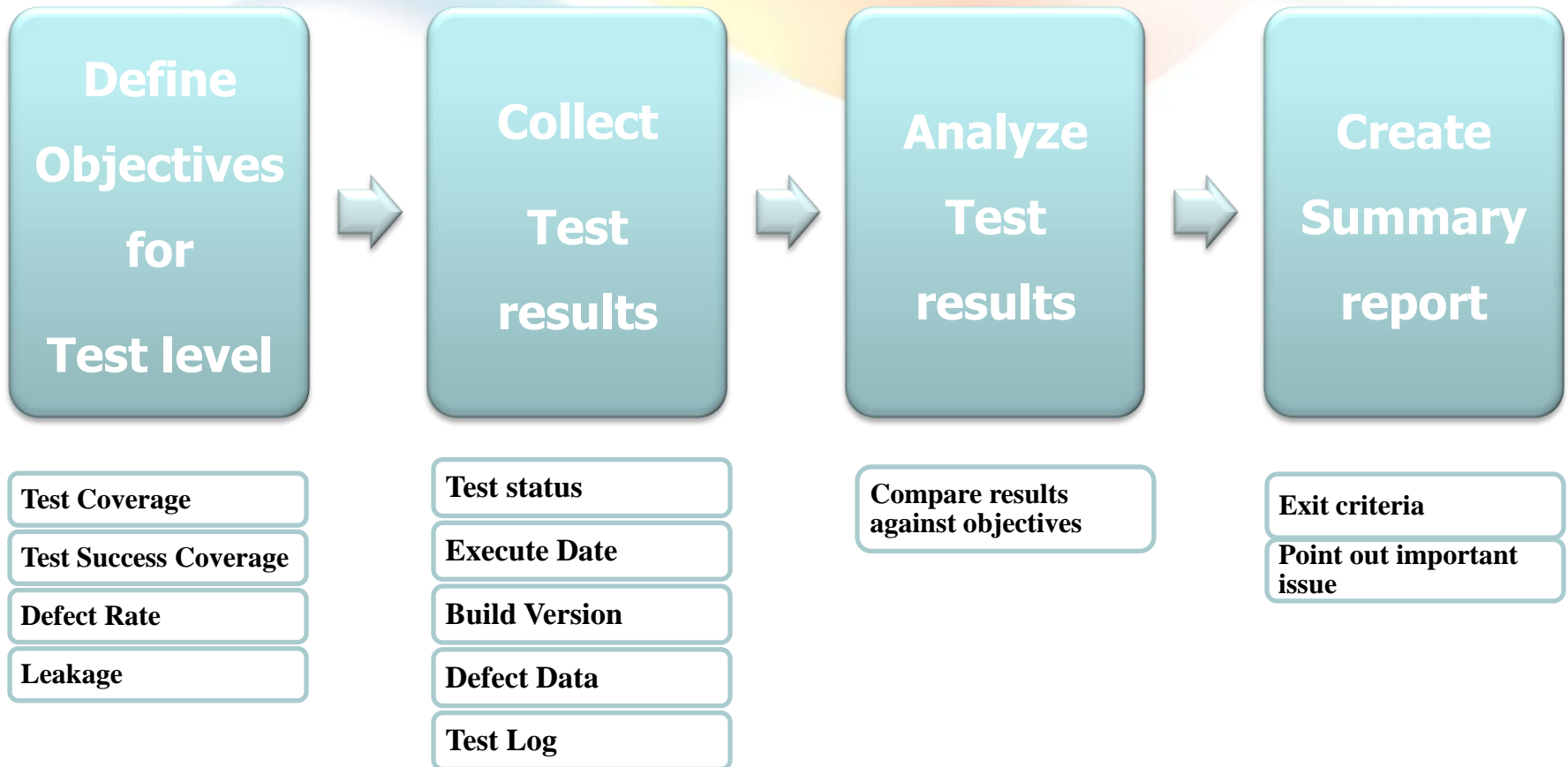
- Give an overall picture of product quality
- Predict defects in the near future (next days)
- Identify high-risk areas to focus for quality improvement



An abstract graphic featuring a horizontal orange line at the top. Below it, a large, soft, wavy shape in shades of blue, yellow, and orange flows across the upper half of the slide.

Process

Test Report Process



When to create the report?

- End of testing level: UT, IT, ST, UAT
- Daily, Weekly, or Milestones
- Critical bug was found

Questions for creating report

- How can testers present that information in an easy-to-understand format?
- How can I present the information so that it is believable?
- What is important point need to take action?

- Send report to review before baseline a report for team.
- No focus to personality
- As a service you provide





Templates

Test Result Report Template

TEST REPORT

Project name	<Project name>	Reviewer	<Reviwer>
Creator	<Creator>	Approver	<Approver>
Note			

Test Coverage: **46%**
Successful Test Coverage: **33%**

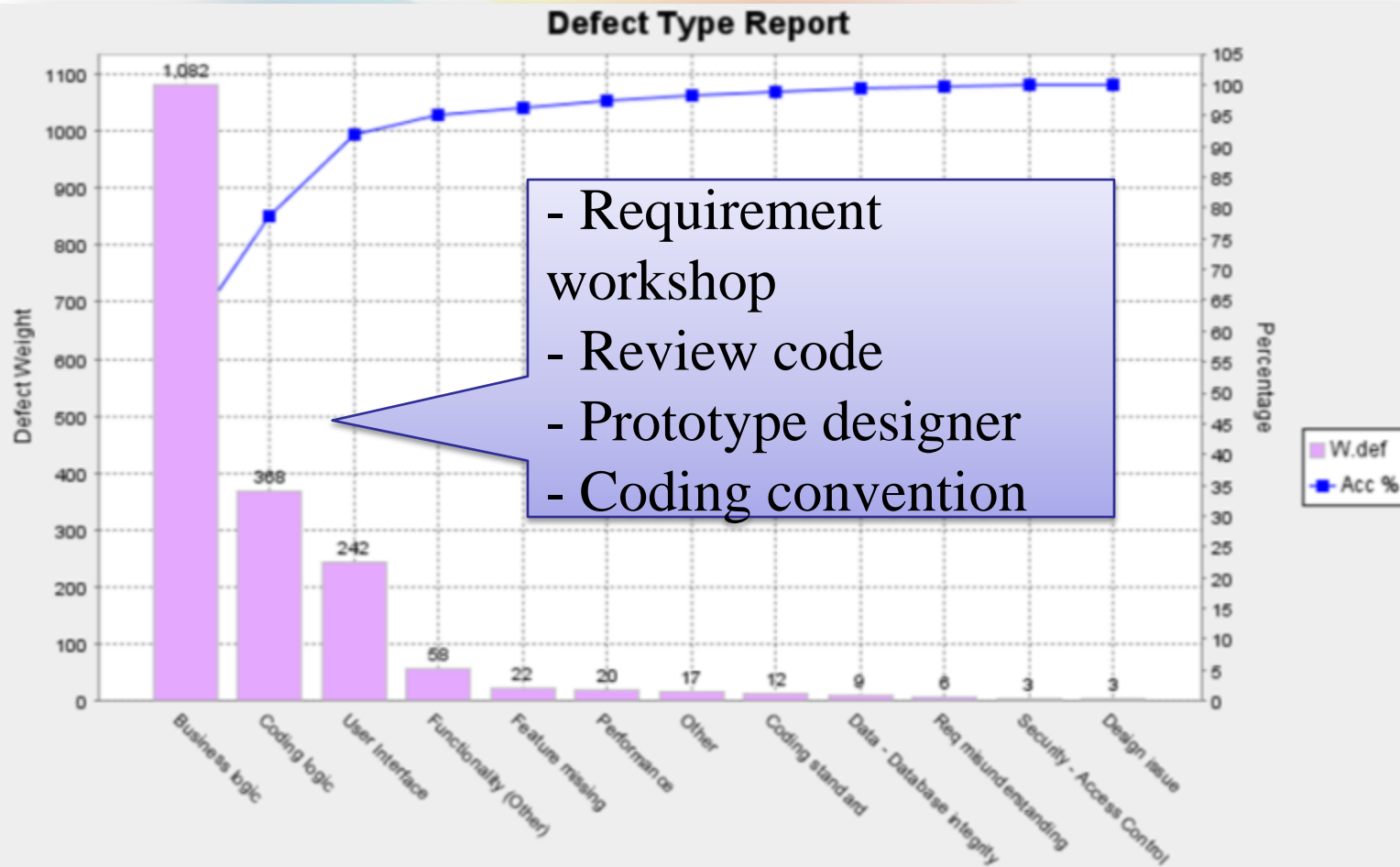
Date: <yyyy/mm/dd>

No	Items	Tested	Passed	Failed	Blocked	Skipped	Not Yet Tested	Total	Tested Coverage
1	Function 1	23	15	5	3	7	18	48	48%
2	Function 2	26	20	4	2	10	22	58	45%
3									
4									
5									
Total		49	35	9	5	17	40	106	

Defect Type Report

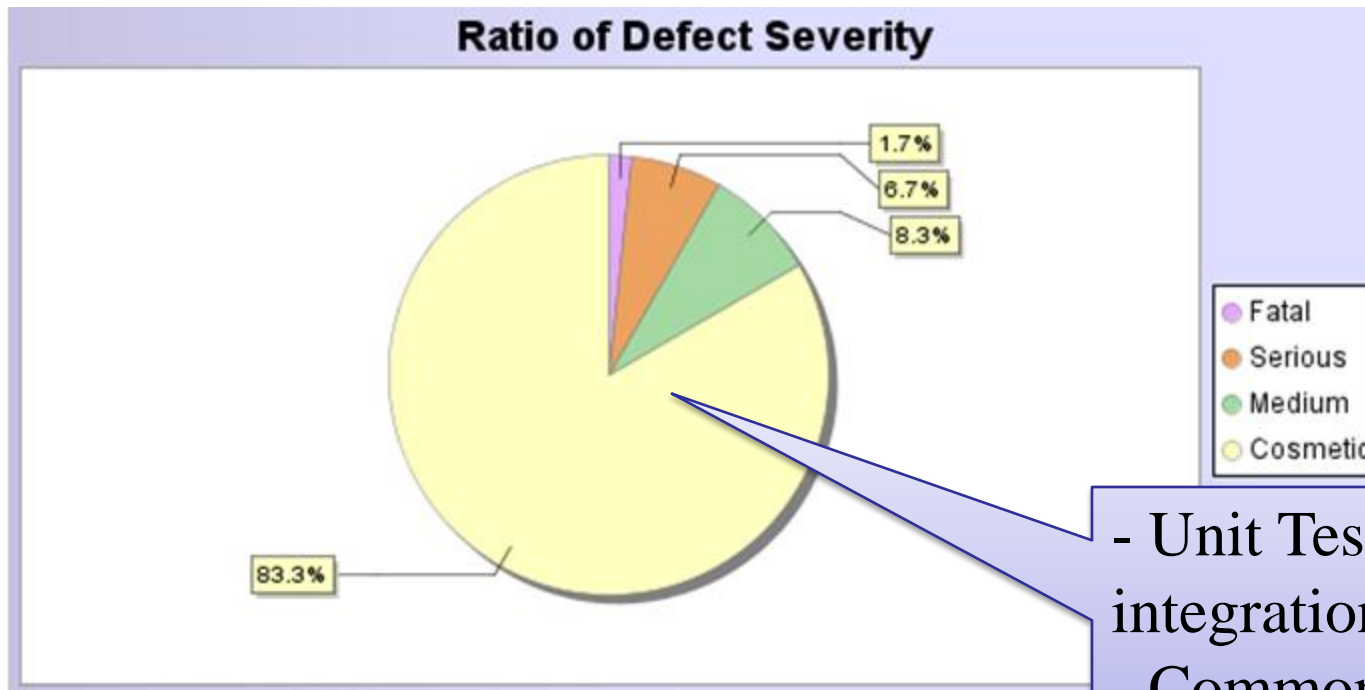
Purpose: defect high-defect types

Defect Type
Business logic
Coding logic
Coding standard
Data - Database integ
Design issue
Feature missing
Functionality (Other)
Other
Performance
Req misunderstanding
Security - Access Cont
User Interface
Total



Defect General/Severity Report

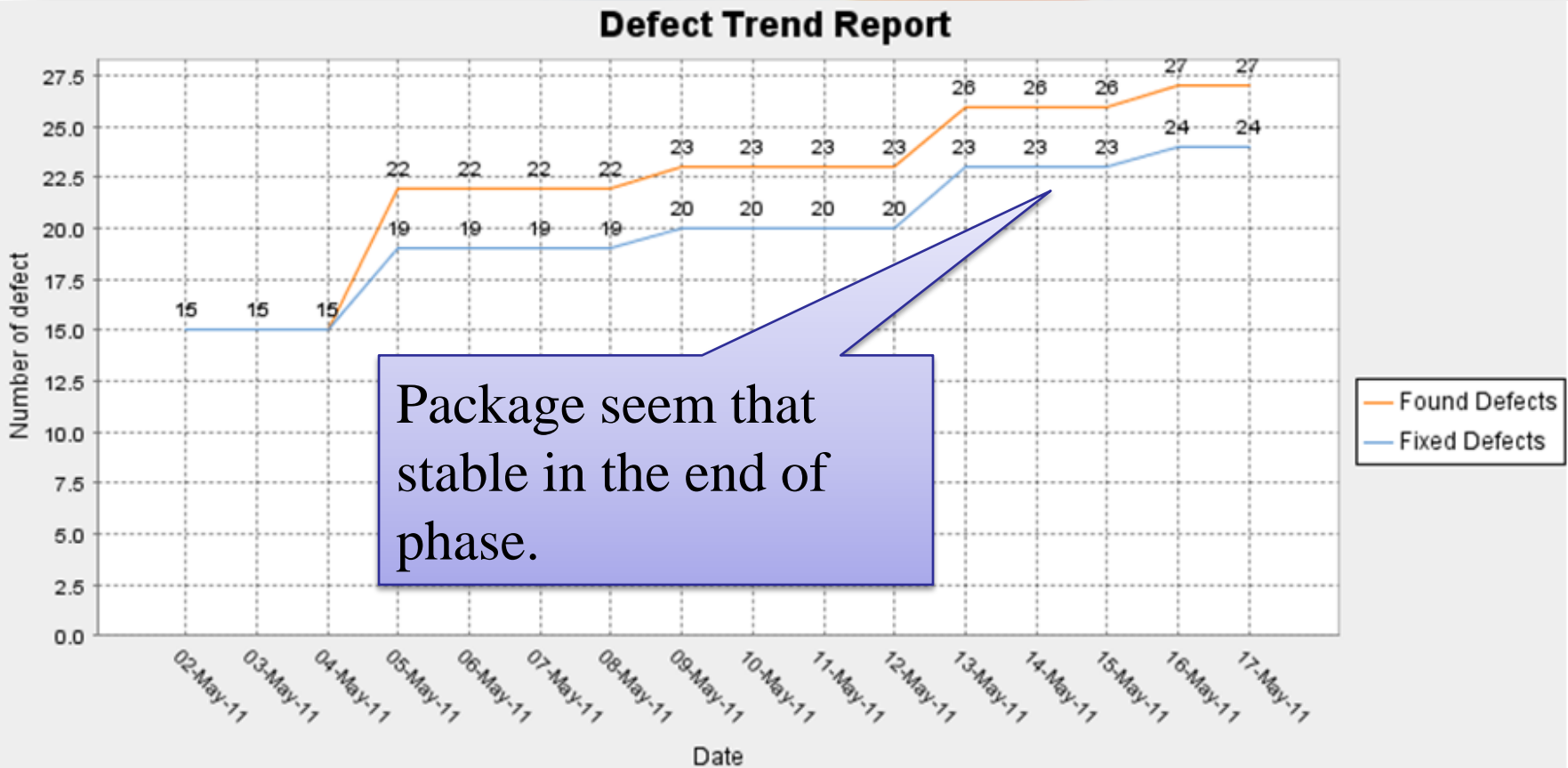
Purpose: detect defects relating to severity cause to system hangs or functions work incorrectly



- Unit Test before integration
- Common defects relating interface

Defect Trend Report

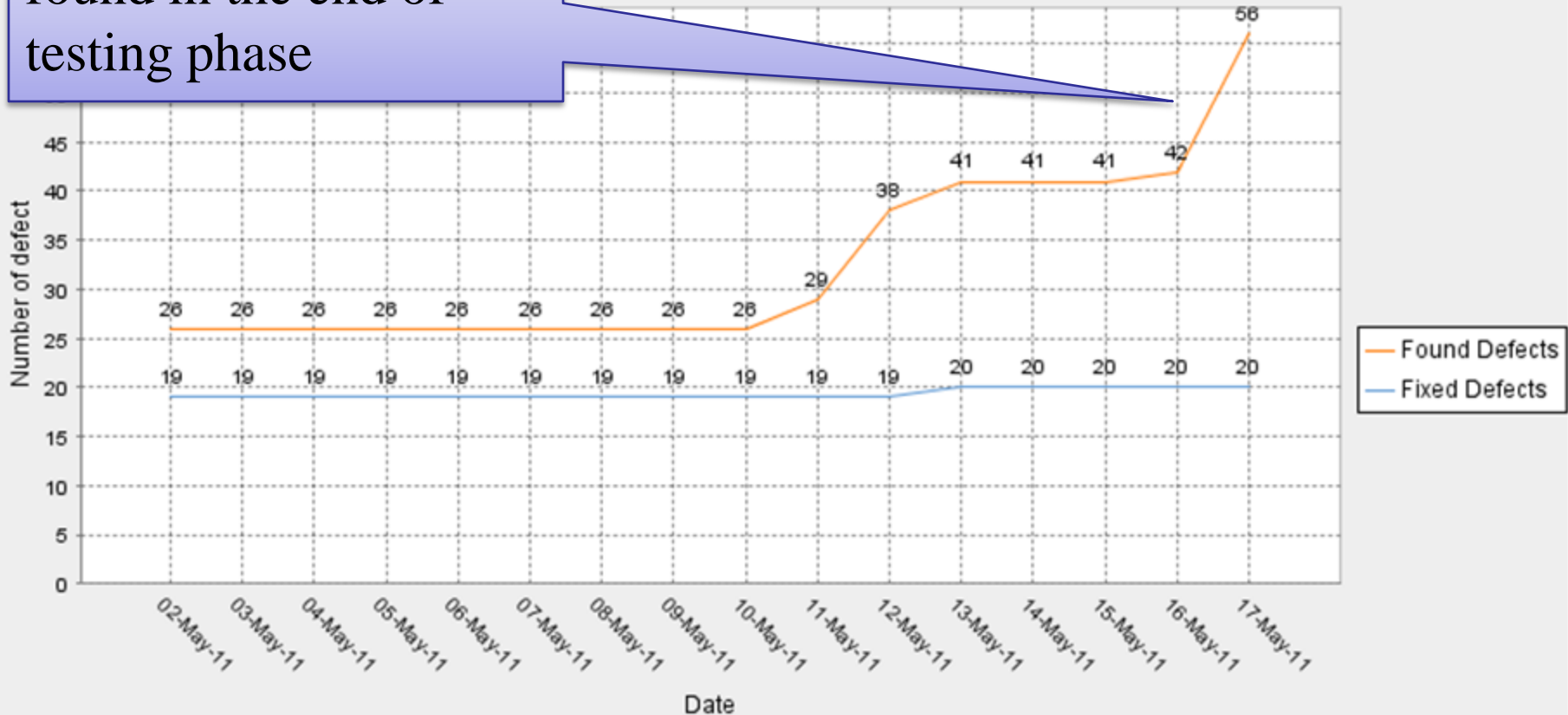
Purpose: give general picture of the defect trend, predict defects in the near future



Defect Trend Report

There are many defect found in the end of testing phase

Defect Trend Report



Defect by Test Case

Purpose: List defect found by Test Case

Test case name/ID	Fatal	Serious	Medium	Cosmetic	Total Defect	Total (W.def)
5910-0001				1	1	1
5945-0001			1		1	3
5897-0001				1	1	1
5951				1	1	1
6011				1	1	1
5964				1	1	1
5943-0001				1	1	1
5902-0001				1	1	1
5920-0001				1	1	1
5952				1	1	1
5963				1	1	1
1474240				1	1	1
5946				1	1	1
5965		1			1	5
5898-0001				1	1	1
5944-0001				1	1	1
5905-0001				1	1	1
5917-0001				2	2	2
5962		1		2	3	7
5895-0001				1	1	1
5918-0001				1	1	1
5878-0001				1	1	1
5888-0001				1	1	1
5948				1	1	1
6019			1		1	3
5907-0001				1	1	1
Total		2	2	25	29	41

Test Summary Report

Test Summary Report: a document summarizing testing activities and results. It also contains an evaluation of the corresponding test items against exit criteria (E.g. final metrics, status of passed or failed, resource use, efficiency...)

Test Summary Structure:

- Summary
- Test Case result report
- Defect Report
- Open point

An abstract graphic featuring a horizontal orange line at the top. Below it, a large, soft, wavy shape in shades of blue, yellow, and orange flows across the upper half of the slide.

QUIZ