Software Maintenance : A Tutorial
- Keith H.Bennett

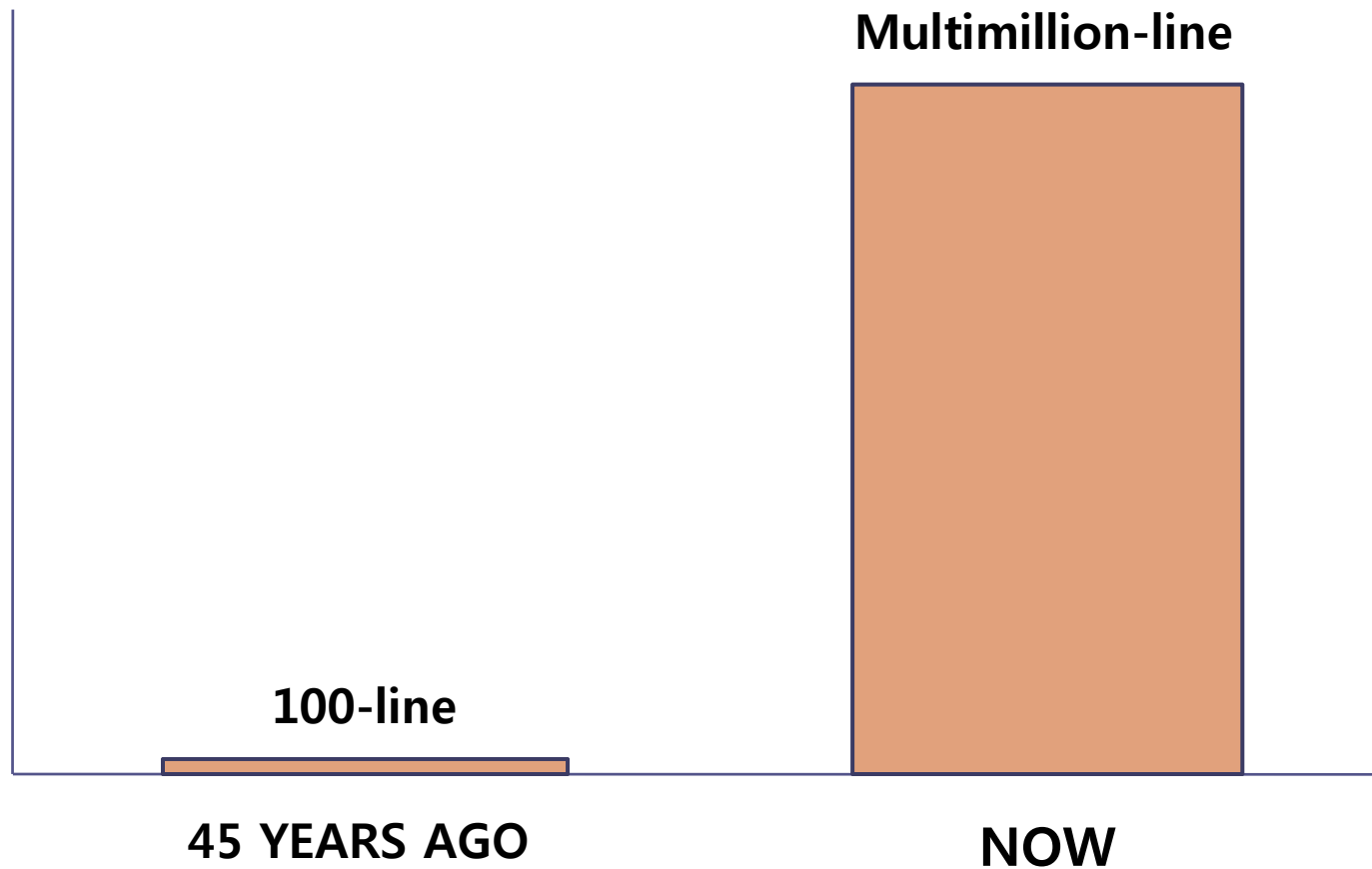컴퓨터시스템
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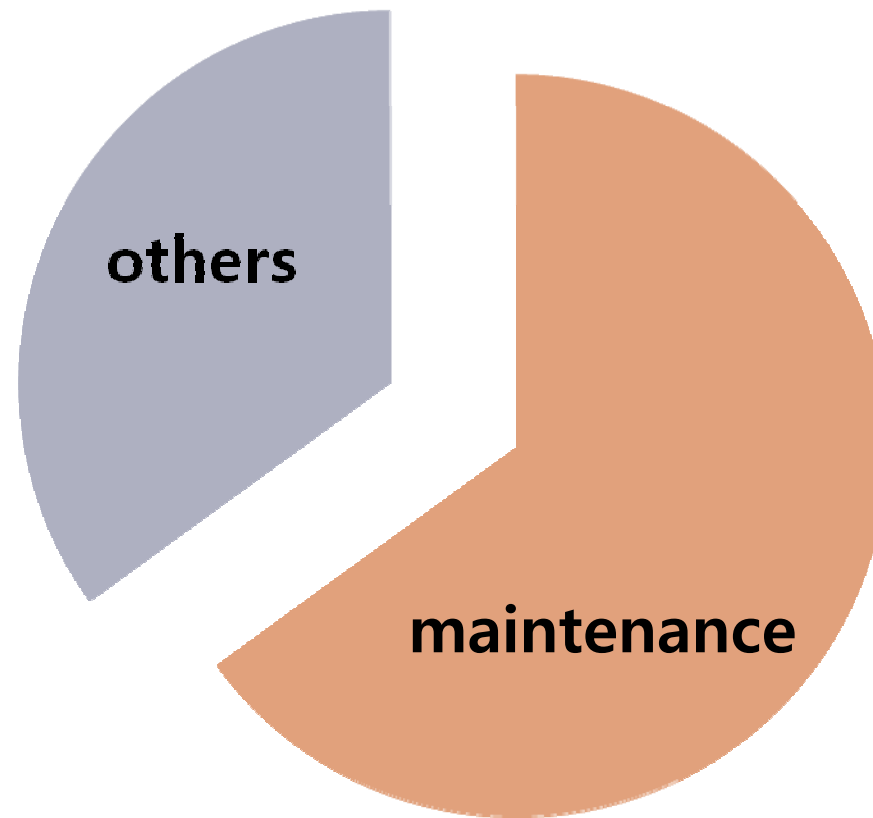최 종 우

OVERVIEW

PART 1

The rapid increase in the size

- **Evolving such system to meet continually changing user needs is difficult because of complexity.**

What is software maintenance?

- **IEEE definition :**
  -modifying
  -improve perfomance
  -adapt to a change

Total life cycle costs
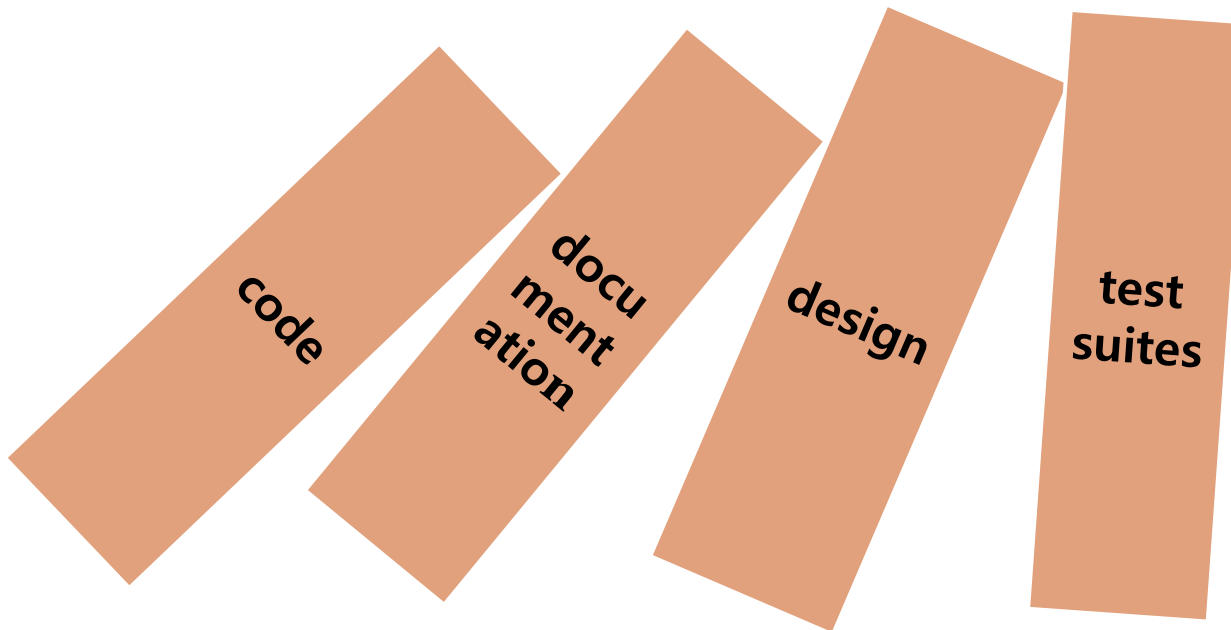
Should not be degraded

Reliability
Maintainability

PART 2

Ripple effect

code

docu
ment
ation

design

test
suites

problems

1 2 3

The alignment with Organizational Objectives

: time and budget

Process issues

: additional activities

Technical issues

: be still not available

solutions

1 2 3

Not technical, but manageral

requires financial investment

Solution 1.

COCOMO techniques

Process management

: to develop a product
or perform a service

Solution 2. 4 keys stages

1. Help desk
2. Analisys
3. Implementation
4. Release

necessary to determine the cost of making a change

1. user-expressed problem

2. several soultions

3. make a decision

All ripple effect must be investigated.

PART 3

Legacy system

old
heavily modified

BUT,

still doing useful work

Reverse engineering

To provide help in program comprehension

summary

What is software maintenance?

- IEEE definition :
  -modifying
  -improve perfomance
  -adapt to a change

- **Software maintenance and the organization**
- **Process models**
- **Technical Issues**

- **Legacy System**

- **Reverse Engineering**

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