

A large white scalloped-edged shape is centered on the page, serving as a background for the main title text.

MANAJEMEN PROYEK SISTEM INFORMASI

POLITEKNIK ELEKTRONIKA NEGERI SURABAYA

2016



PENDAHULUAN

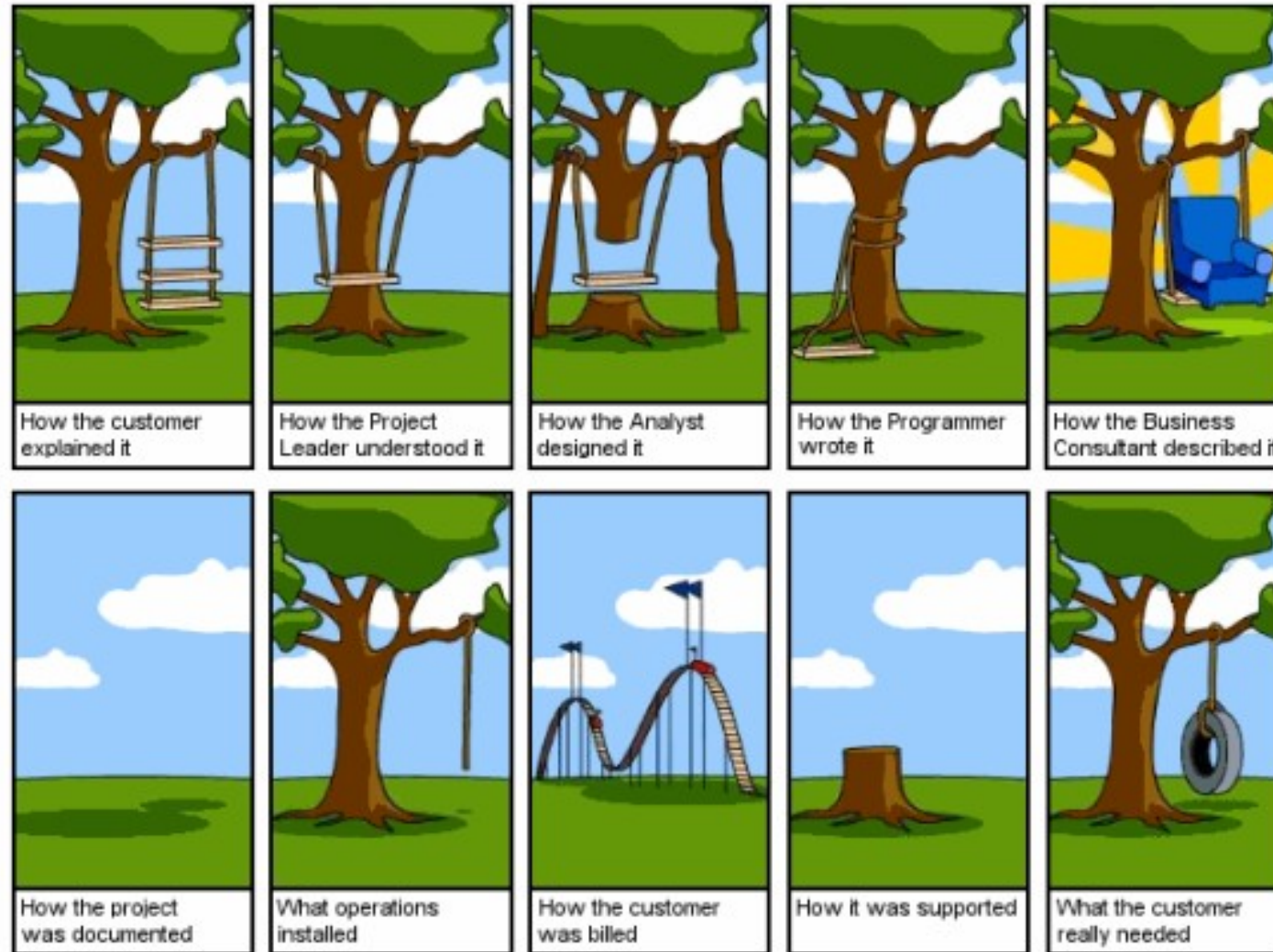
MANAJEMEN PERANGKAT
LUNAK

Q. #1

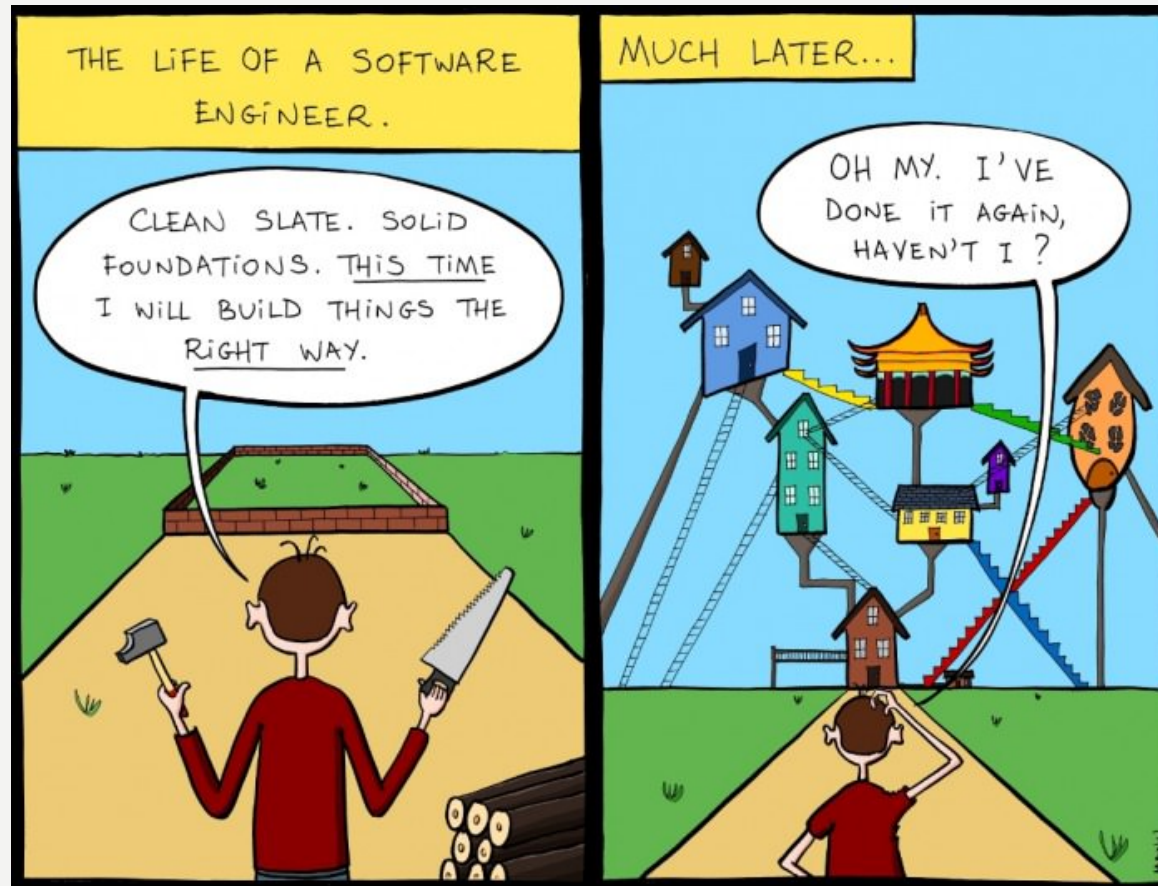
- **Are you sure** that the *software* you built will run properly in accordance with the *requirements*?

- a. Yes, off-course**
- b. Not sure**
- c. Don't know**

THE "ROCK" PROBLEM



THE "ROCK" PROBLEM



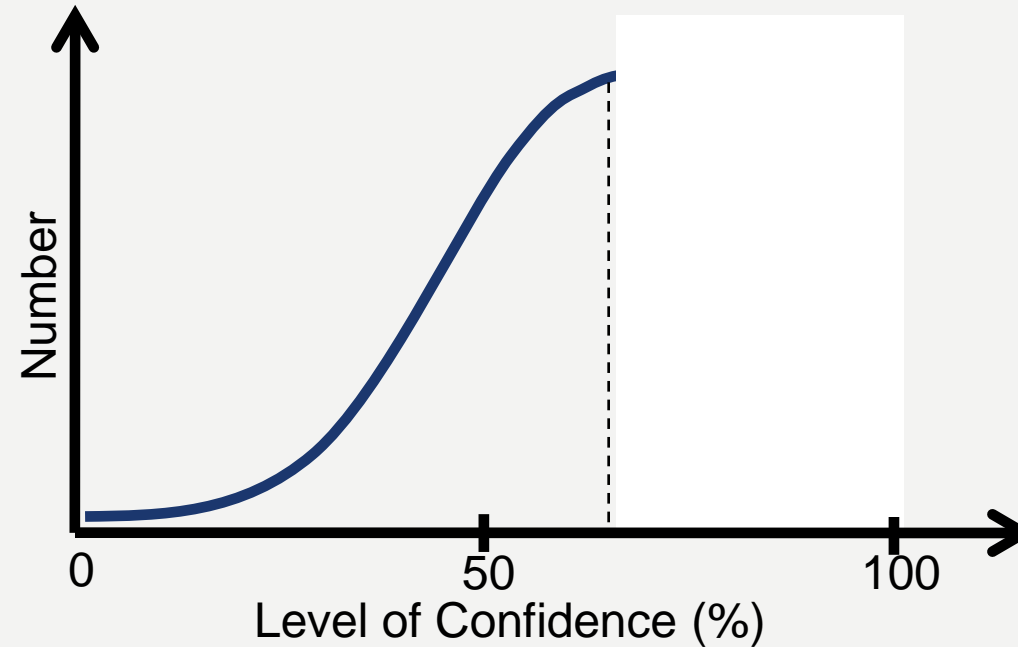
9GAG.COM/GAG/633509

THE “ROCK” PROBLEM

- The “Rock” Problem gives us a perspective that it is almost impossible to catch and equate the requirement definition to all stake-holders.
- It means: software development will build a software that is never completed at the eyes of stake-holders.
- Software development is never finished. It is a long-life development cycle.

Q. #2

- **How confident** are you that the *software* you built will run properly in accordance with the *requirements*?



SUCCESS RATE *)

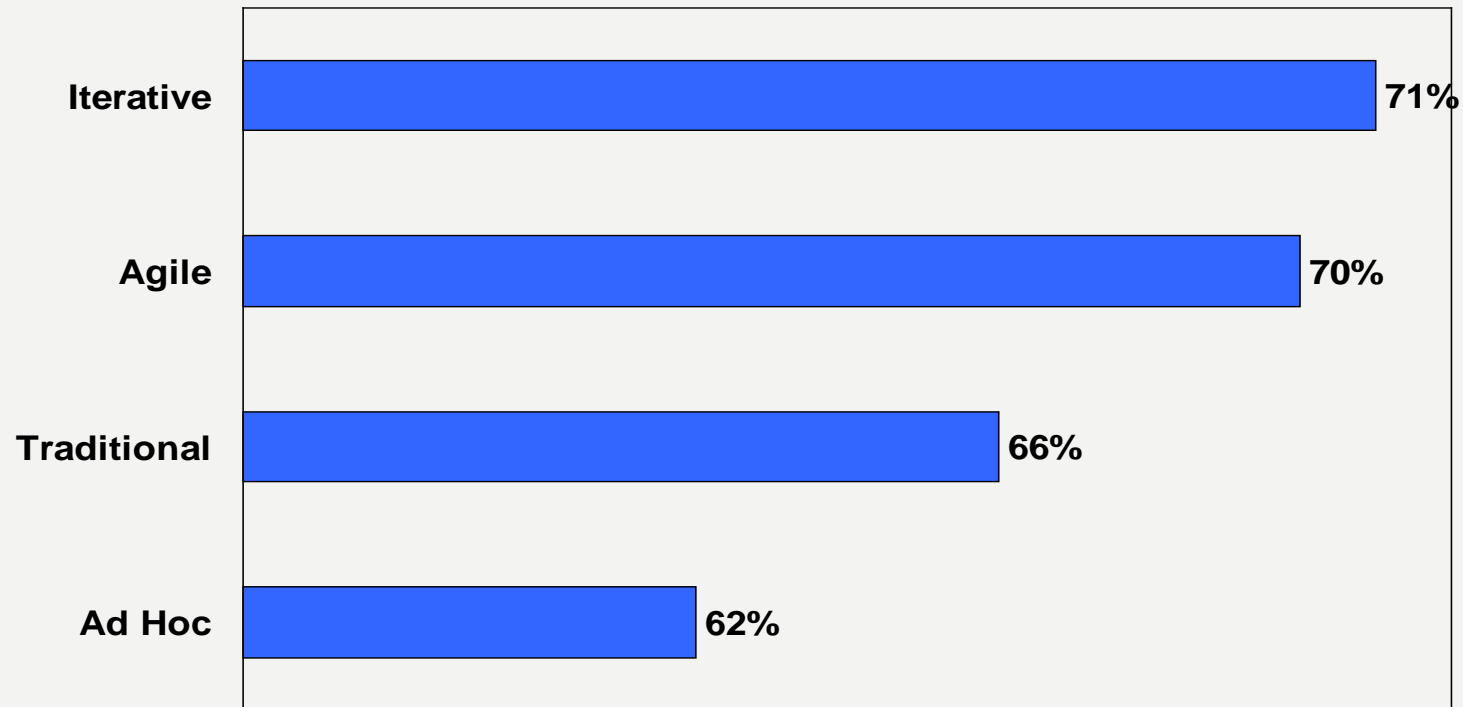
Based on Chaos Report of Standish Group, @1995

- The Standish Group research shows a staggering 31.1% of projects will be cancelled before they ever get completed.
- Further results indicate 52.7% of projects will overcost 189% of their original cost estimates.
- The average overrun is 222% of the original time estimate.
- The success rate was only 16.2%.

*) Success means “on time, on budget, on spec.”

SUCCESS RATE *)

Based on Ambysoft.com Survey on Dec, 2008



*) Success means NOT on time, on budget, meeting the specs.

SUCCESS RATE *)

Based on Ambysoft.com Survey on Dec, 2008

- TIME: Which is more important?
 - Delivering on time according to the schedule
 - Delivering when the system is ready to be shipped
 - It does'n matter to me

39,5%

57,5%

3,0%

SUCCESS RATE *)

Based on Ambysoft.com Survey on Dec, 2008

- FUNCTIONALITY: Which is more important?
 - Building the system to the specification
 - Meeting the actual needs of stakeholders
 - It does'n matter to me

15,5%

83,4%

1,1%

SUCCESS RATE *)

Based on Ambysoft.com Survey on Dec, 2008

- QUALITY: Which is more important?
 - Delivering systems on time and on budget
 - Delivering high quality, easy to maintain systems
 - It does'n matter to me

16,6%

81,9%

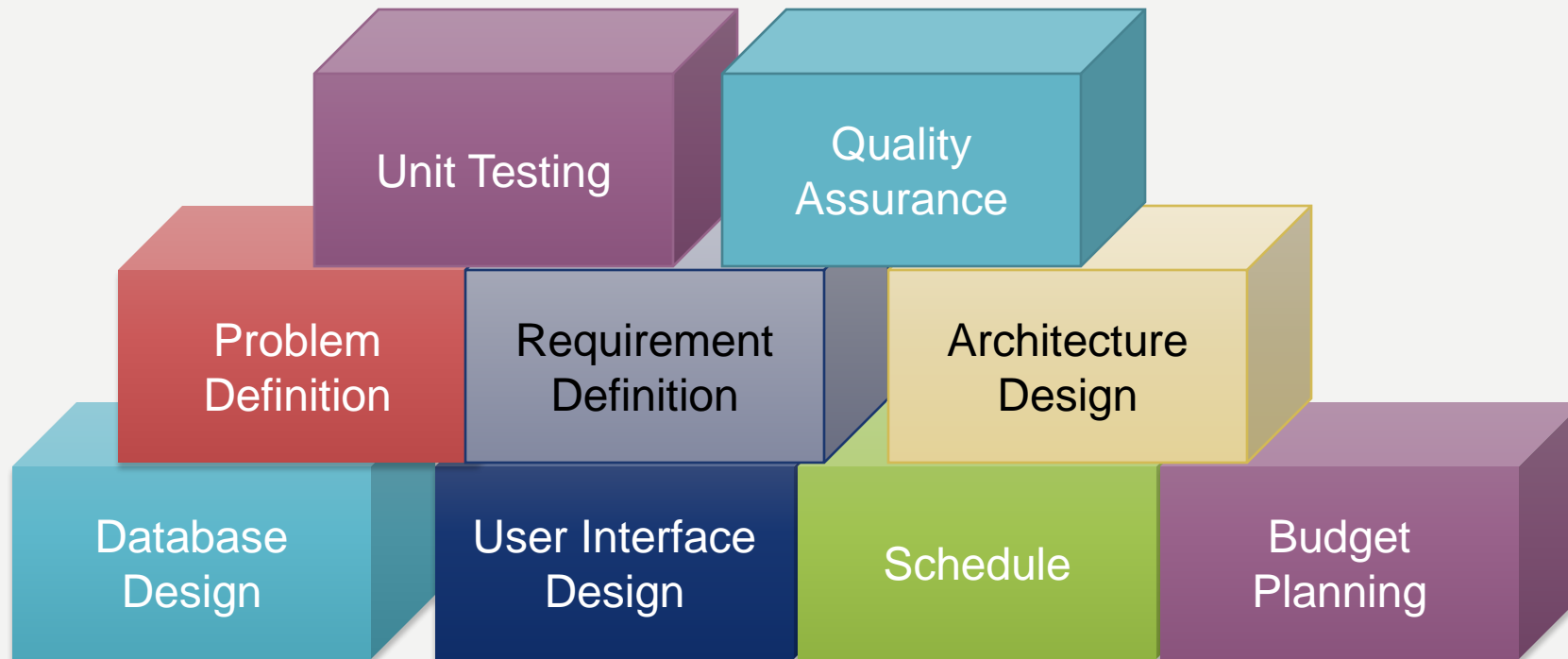
1,5%

SUCCESS FACTOR

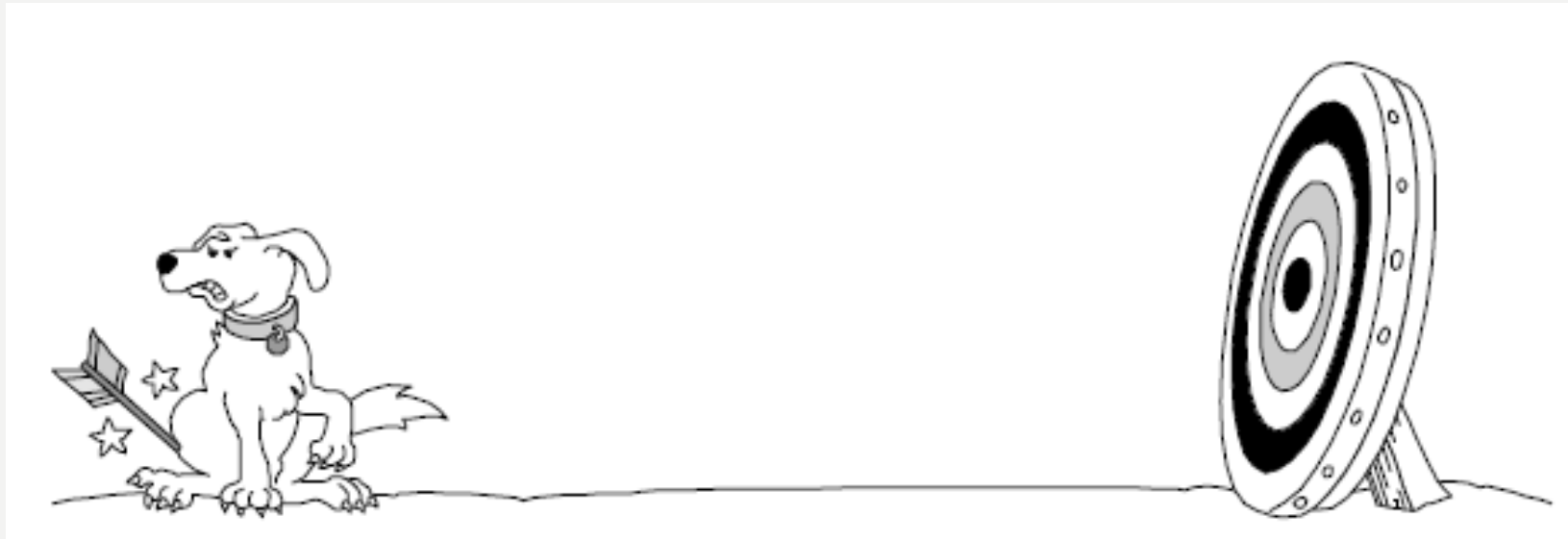
- Very important to meet and match the success factors between all stakeholders in developing system.

Q. #3

- **What factors affect** the level of your belief in the success of software that you built?

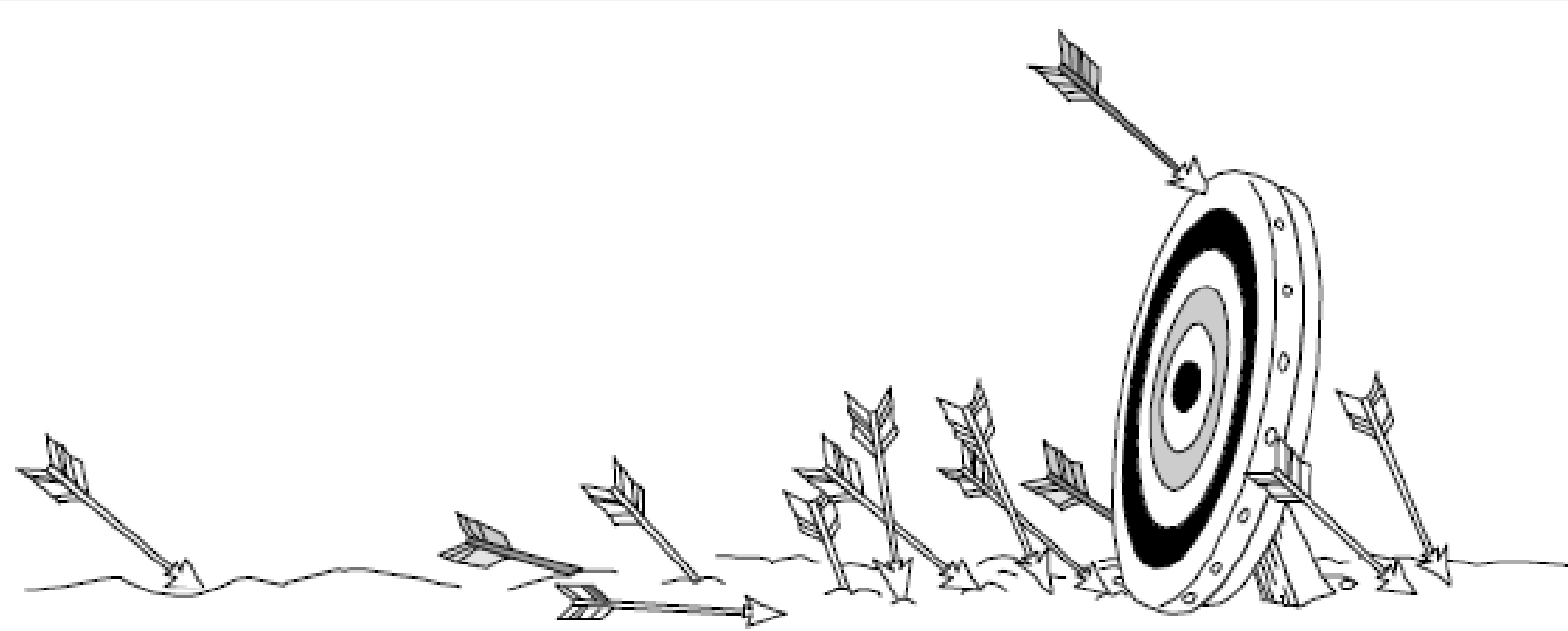


#1. PROBLEM DEFINITION



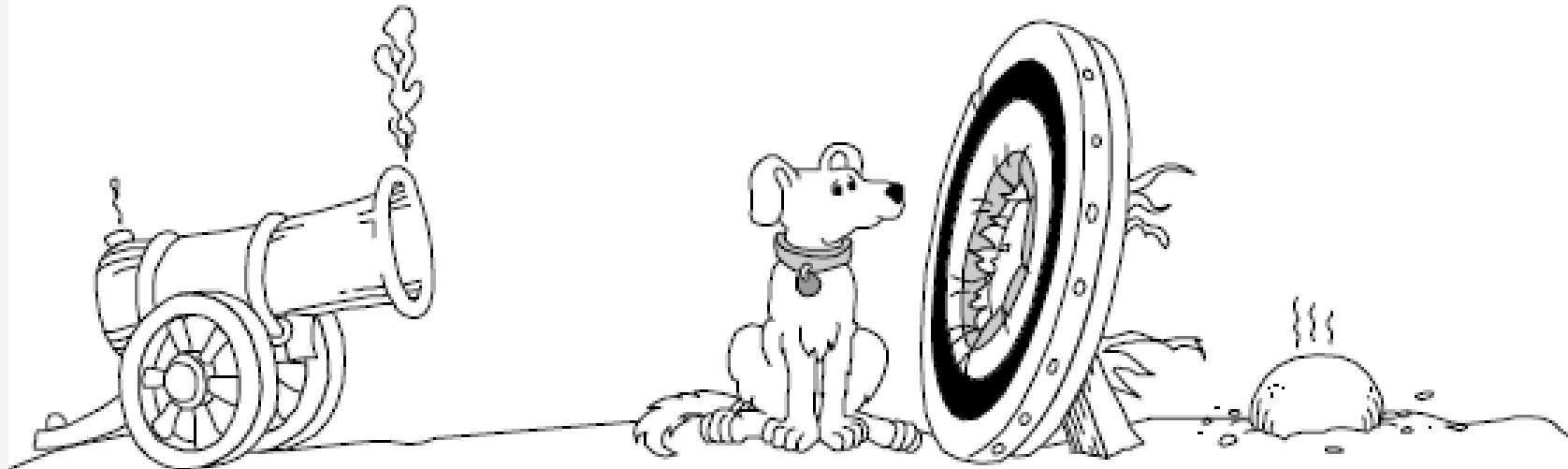
- *Without a good problem definition, you might put effort into solving the wrong problem. Be sure you know what you're aiming at before you shoot.*

#2. REQUIREMENT



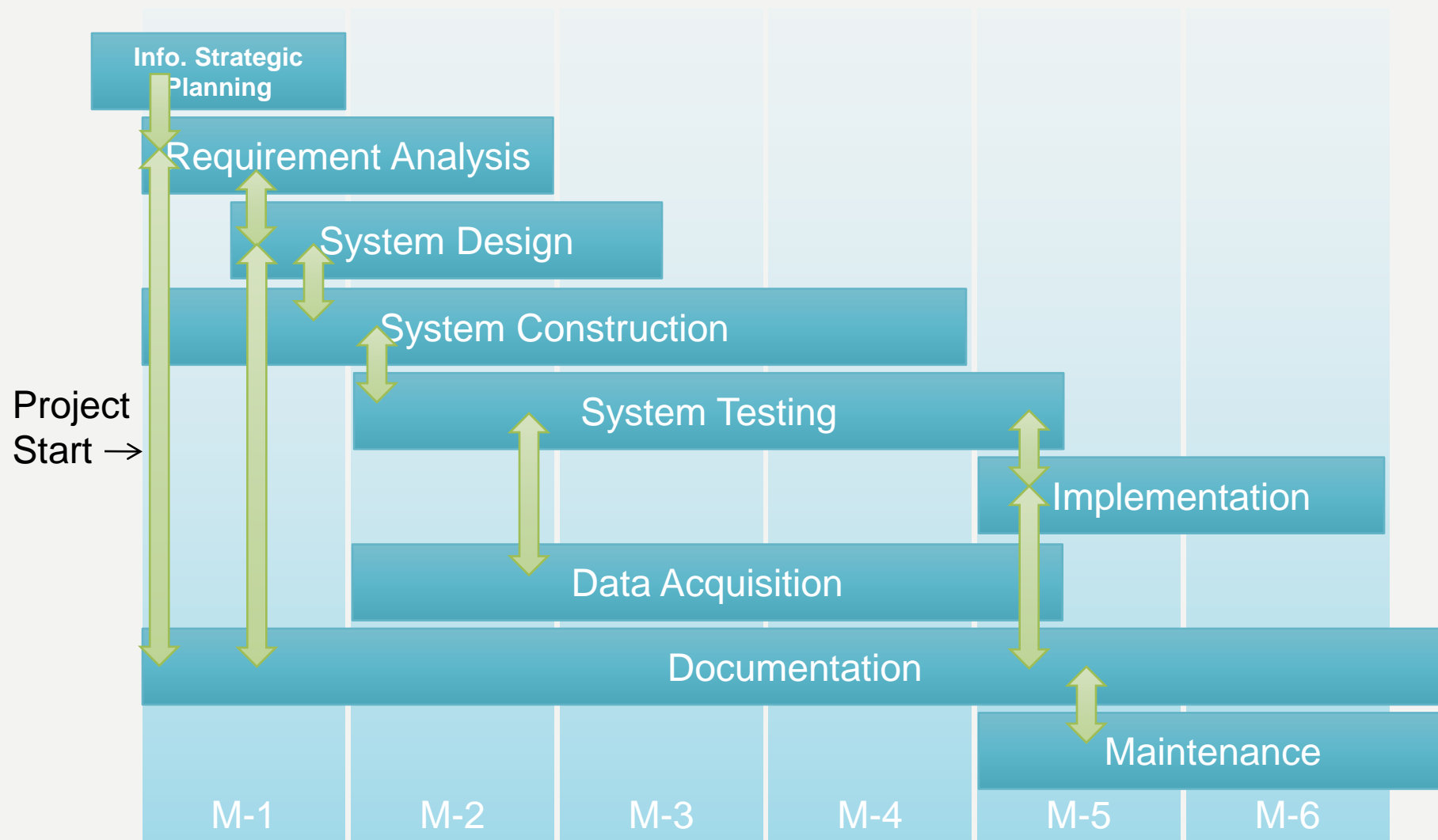
- *Without good requirements, you can have the right general problem but miss the mark on specific aspects of the problem.*

#3. ARCHITECTURE

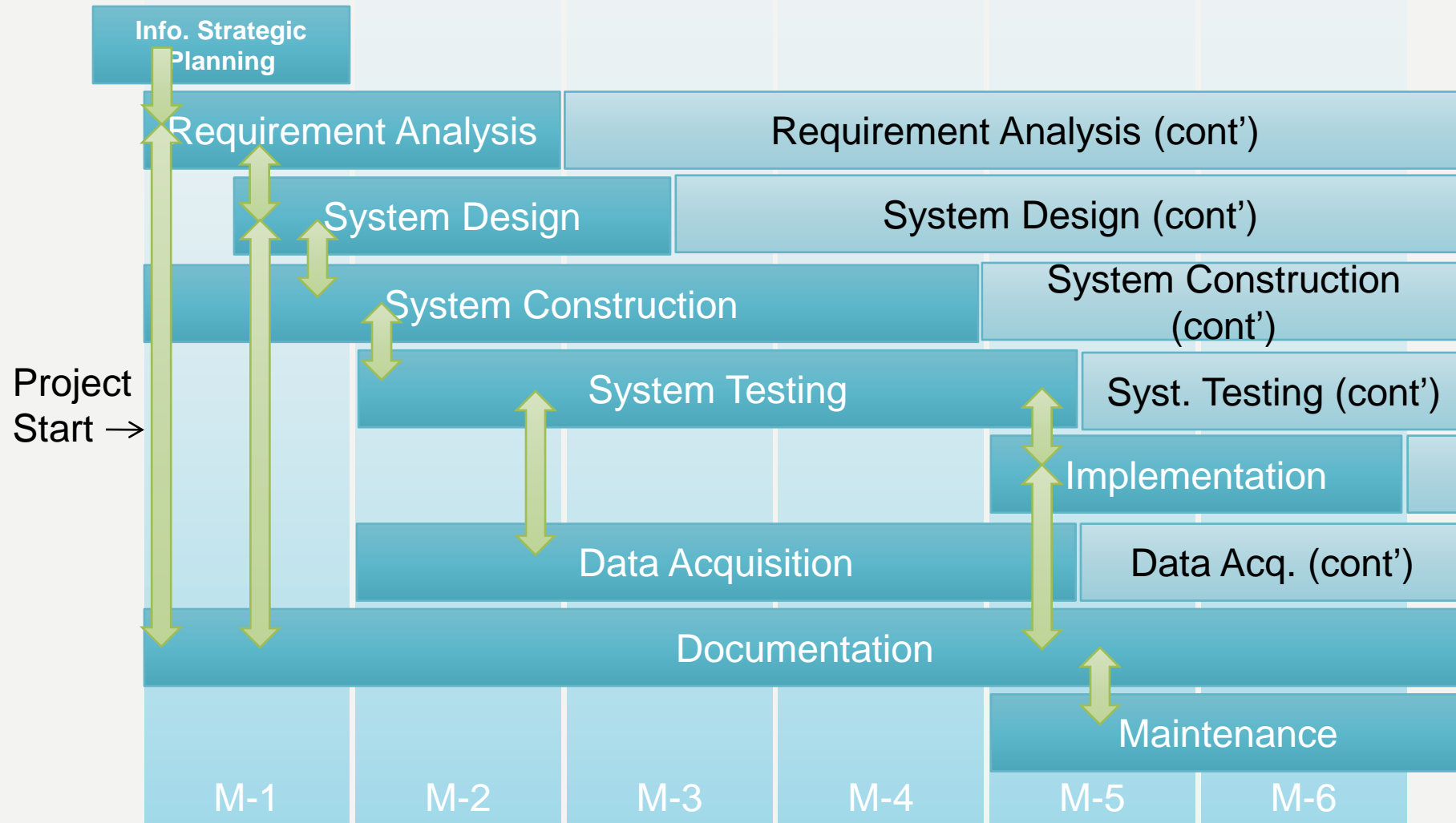


- *Without good software architecture, you may have the right problem but the wrong solution. It may be impossible to have successful construction.*

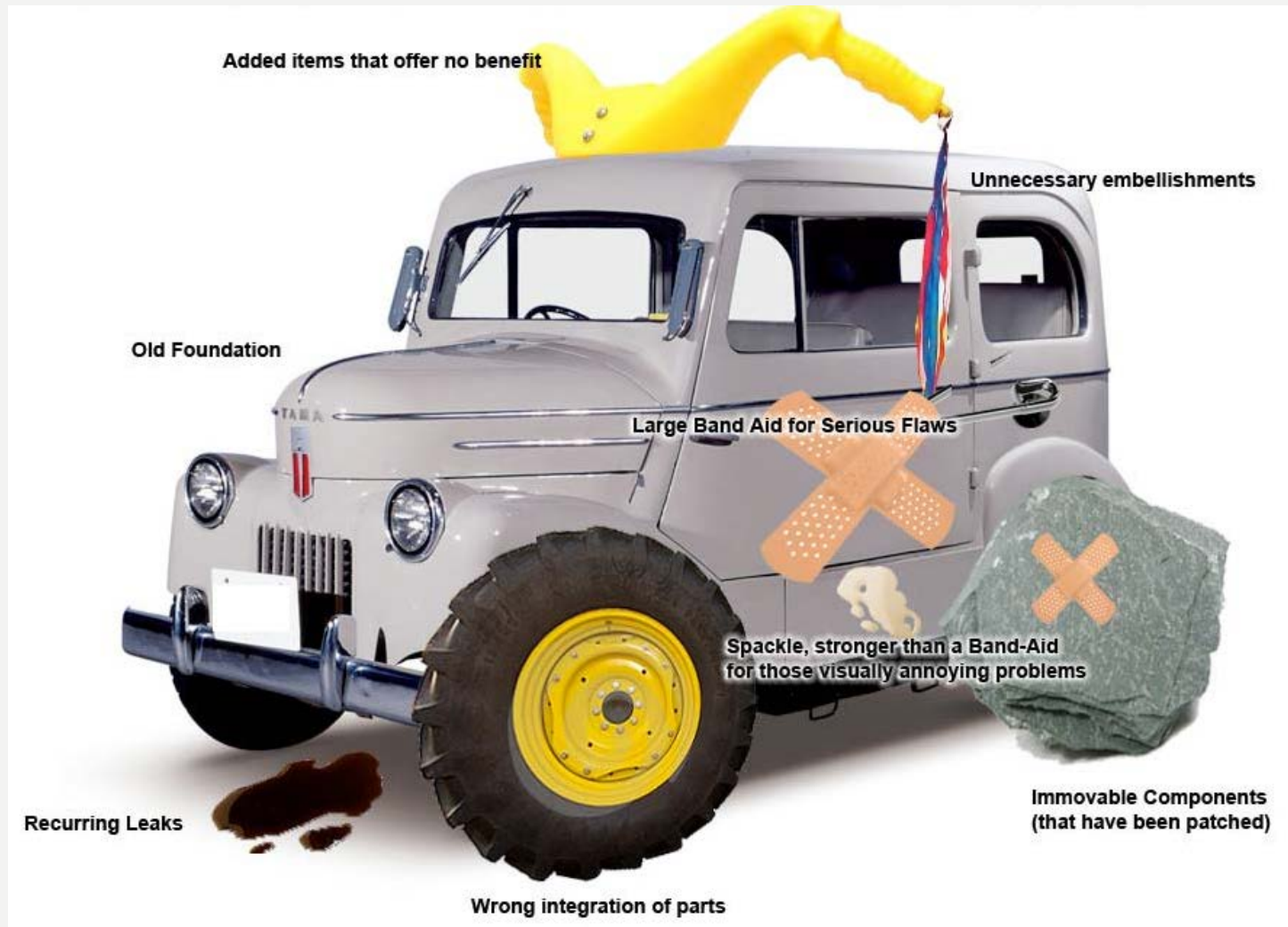
#4. SCHEDULE



#4. SCHEDULE



THE REAL HAPPENED

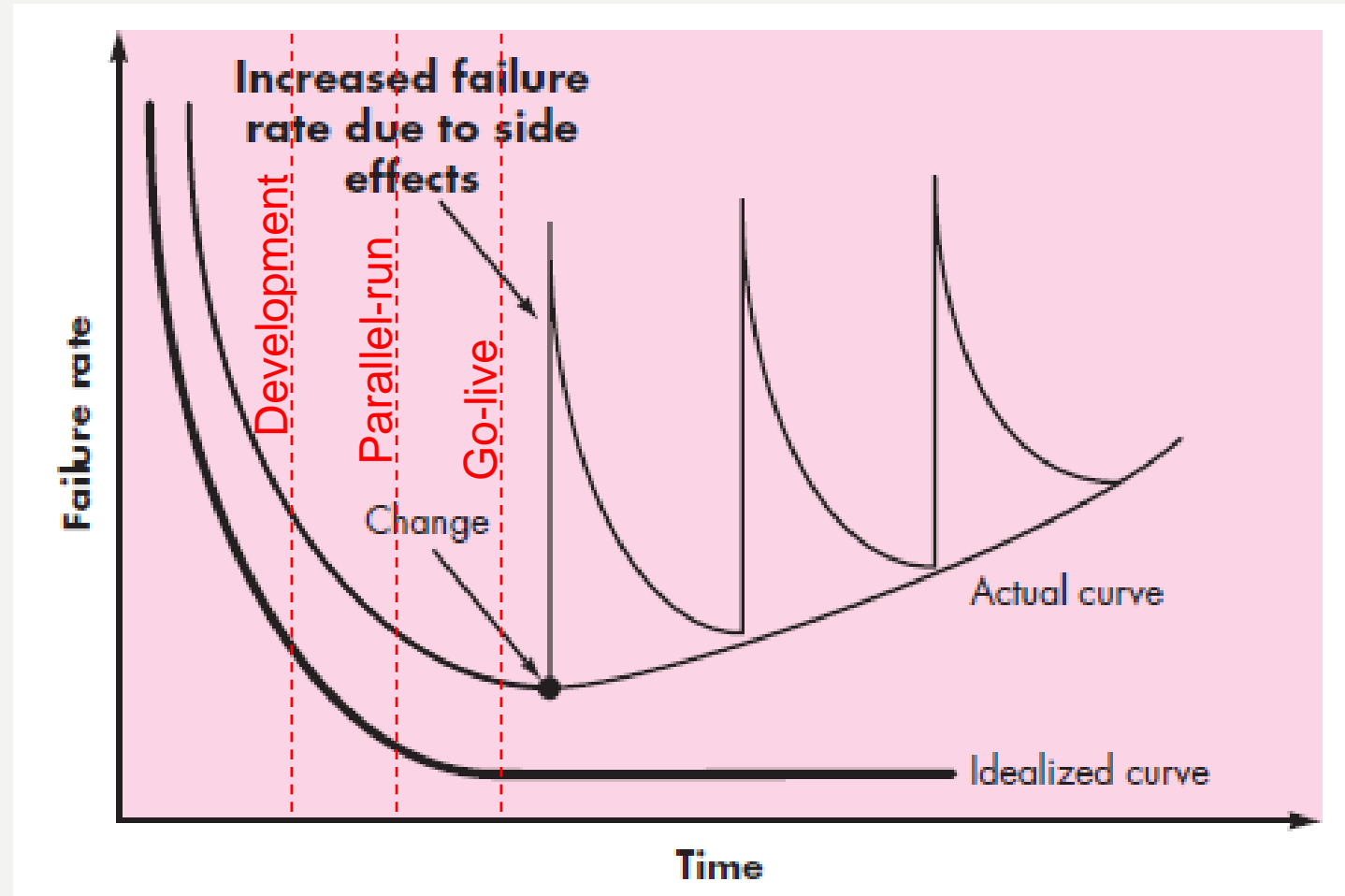


THE IRONY OF CONSTRUCTION

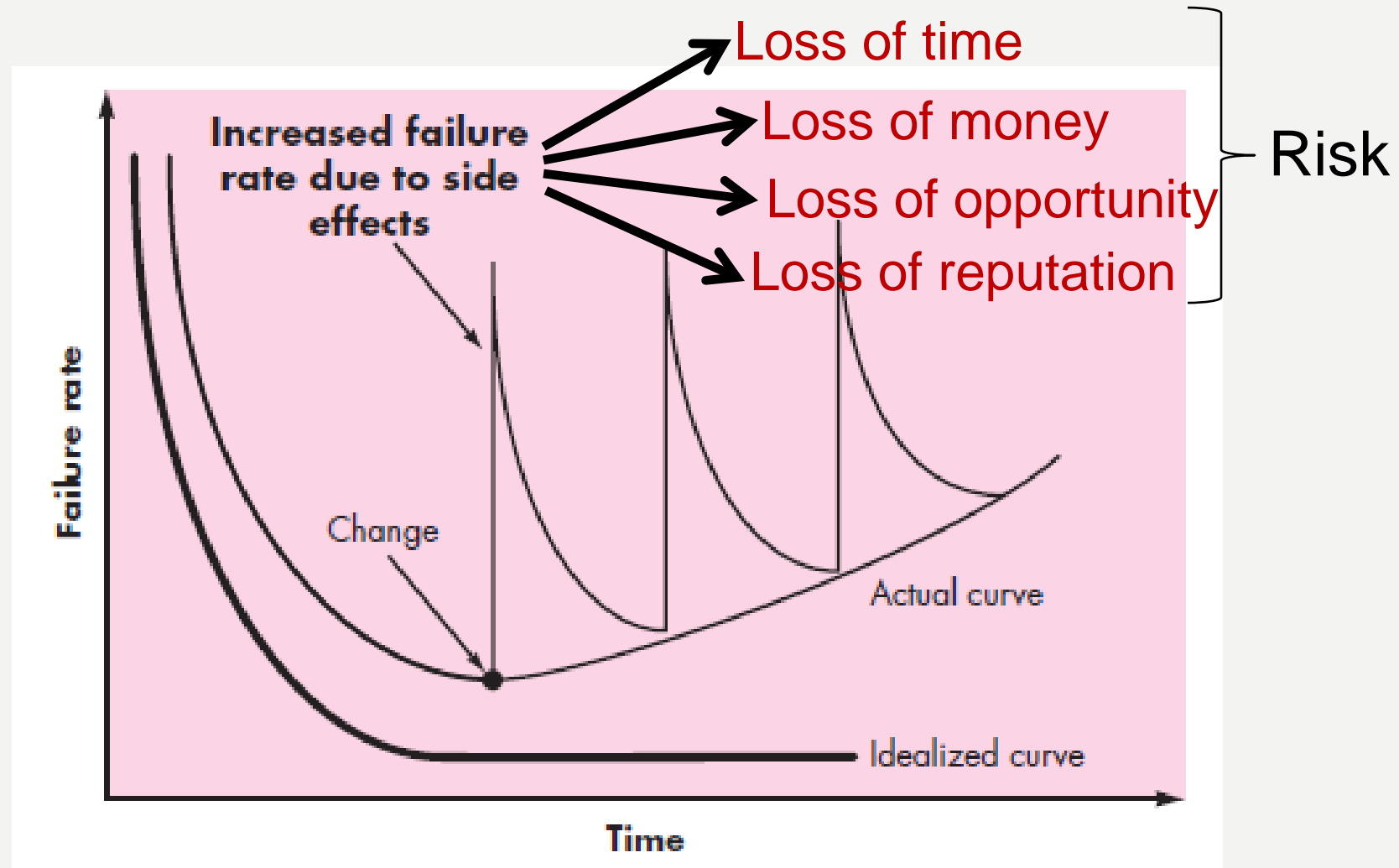
Code Complete of McConnell

- Requirements can be assumed rather than developed; architecture can be shortchanged rather than designed; and testing can be abbreviated or skipped rather than fully planned and executed.

S/W FAILURE CURVE



GENERATING "RISK"



REFERENSI

- *“Introduction to Risk Management”*, BAHTIAR H. SUHESTTA, IT Consultant, Writerpreneur, and Founder of An-Nabwah Group