THE NINE PRINCIPLES

### TECHNICAL DEBT

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## THE PODCAST

### \*Managing Technical Deb

Reducing Friction in Software Development

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Software Engineering Radio: Ep. 481



Managing Technical Debt: Reducing Friction in Software Development (\*1)

(\*1) The pictures of this presentation have been taken from this book.



# **1-AN ABSTRACT CONCEPT**

#### **TECHNICAL DEBT REIFIES AN ABSTRACT CONCEPT**





## 2 - INTEREST AND DEBT

#### IF YOU DO NOT INCUR ANY FORM OF INTEREST, THEN YOU PROBABLY DO NOT HAVE ACTUAL TECHNICAL DEBT



Interest: Monetary charge for the privilege of borrowing money.

When you take a decision, you don't have the debt itself



# **3 - THE INEVITABILITY**

#### **ALL SYSTEMS HAVE TECHNICAL DEBT**

### Every project has decisions





### 4 - TRACE TO THE SYSTEM

#### TECHNICAL DEBT MUST TRACE TO THE SYSTEM





# 5 - DEBT IS NOT BANKRUPCY





### 6 - ARCHITECTURAL DEBT - THE HIGHEST COST OF OWNERSHIP

#### ARCHITECTURE DEBT HAS THE HIGHEST COST OF OWNERSHIP

We can classify the technological debt in different types

Some are more important than others

The more you build on top of a decision, the more debt it means

Architectural decisions are the base of most decisions in a project

Most debts are architectural on their roots



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### 7 - ALL CODE WAS CREATED EQUALS



# 8 - NO ABSOLUTE MEASURES





# 9 - EVOLUTION OF THE SYSTEM

#### TECHNICAL DEBT DEPENDS ON THE FUTURE EVOLUTION OF THE SYSTEM



### Reasons to change a system

Accumulation of consequences

Anticipated use of the system

**RELEASE 1: Technical Debt Is Low** 



RELEASE 2: Technical Debt Is Medium



**RELEASE 3: Technical Debt Is High** 



# QUESTIONS