

# Introduction of Software Engineering

*Chapter 9:*

## Software Configuration Management (SCM)

VŨ THỊ TRÀ

©2018, Danang University of Education

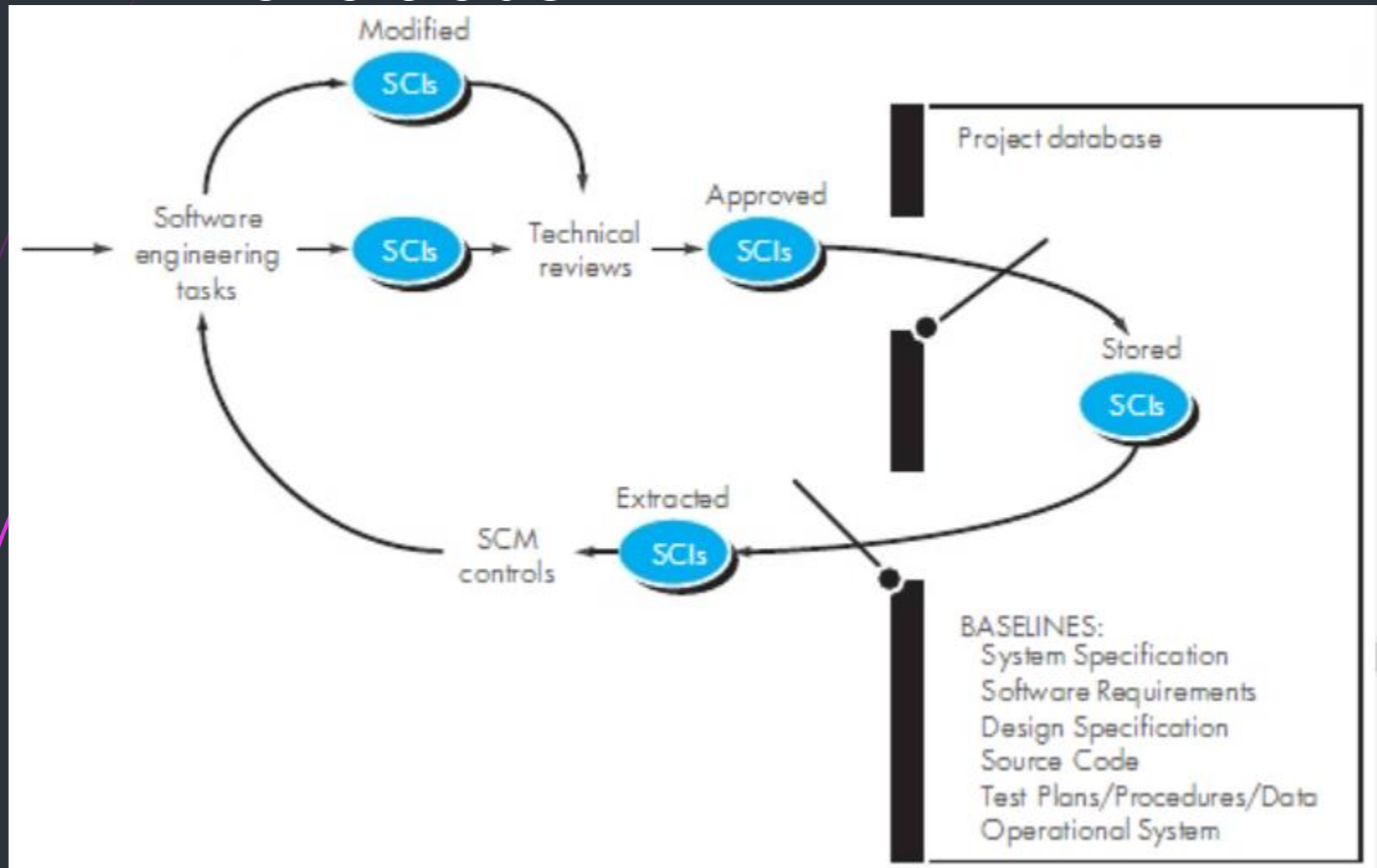
# CONTENTS

- **SCM: Elements, Baselines, Items (SCIs)/Objects**
- **The SCM Repository**
- **The SCM Process**
- **CM for WebApps**

# Elements of SCM

1. Component elements
2. Process elements
3. Construction Elements
4. Human elements

# Baselined SCIs & the Project Database

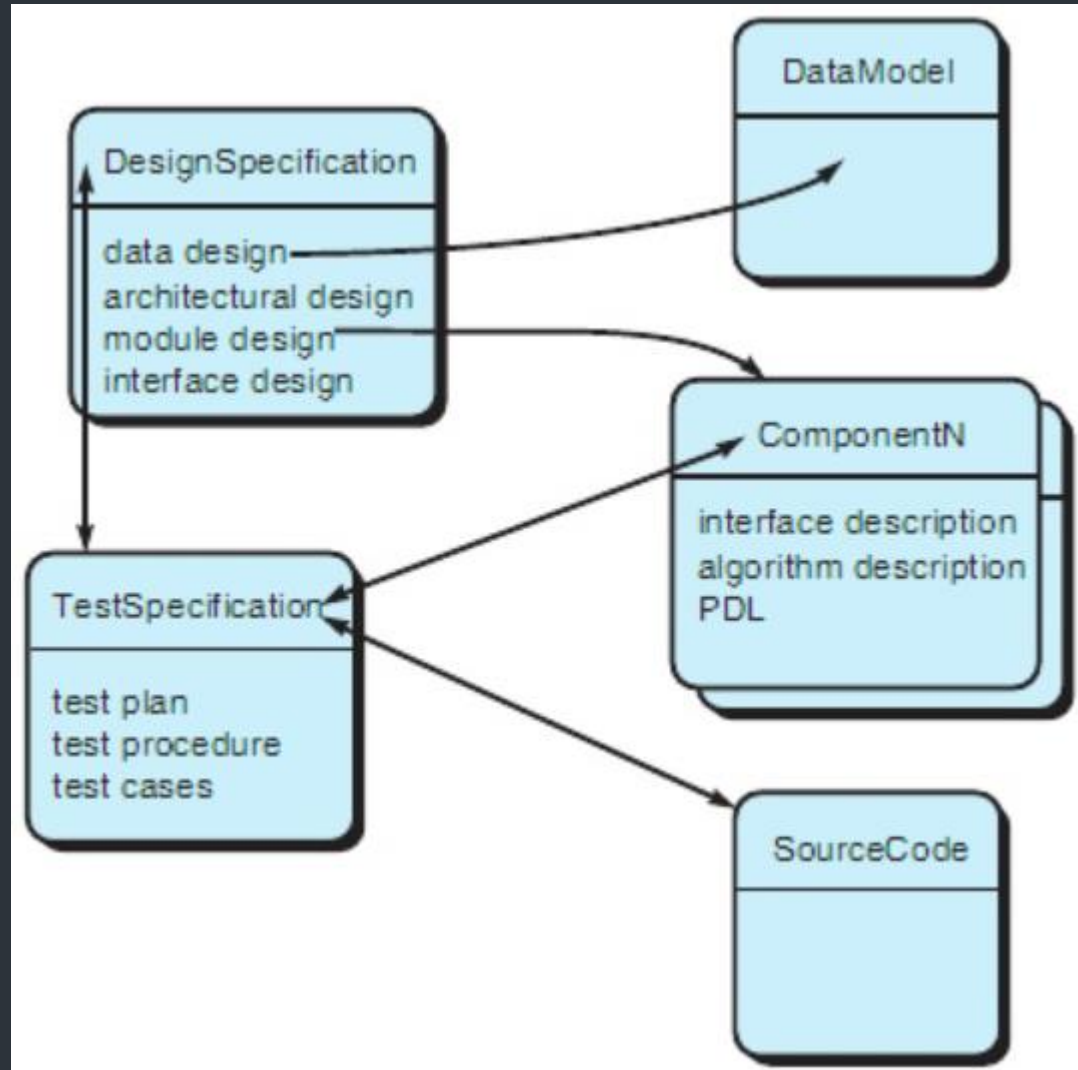


# Software Configuration Items (SCIs)

*An SCI is all or part of **a work product** (e.g. a document, a suite of test cases,...)*

- SCIs are organized to form configuration objects in the project databases

# Configuration Objects



# The Roles of SCIs

- Manage dependencies and changes of SCIs/Objects
- Guarantee the work product quality

# CONTENTS

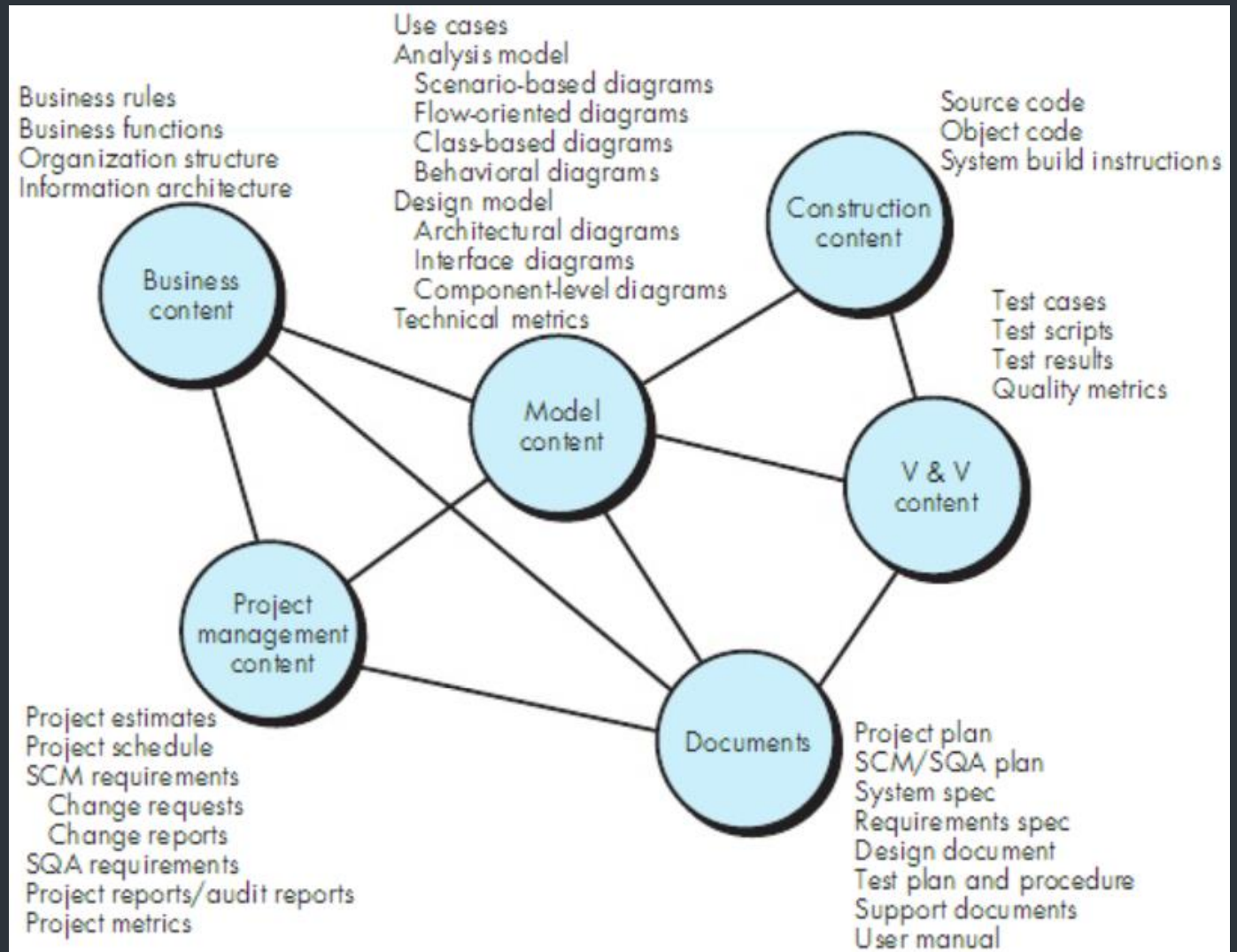
- **SCM: Elements, Baselines, Items (SCIs)/Objects**
- **The SCM Repository**
- **The SCM Process**
- **CM for WebApps**



# The SCM Resposistory

*The SCM Resposistory is **a set of mechanisms** anf **data structures** that allow a software team to manage change in an effective manner.*

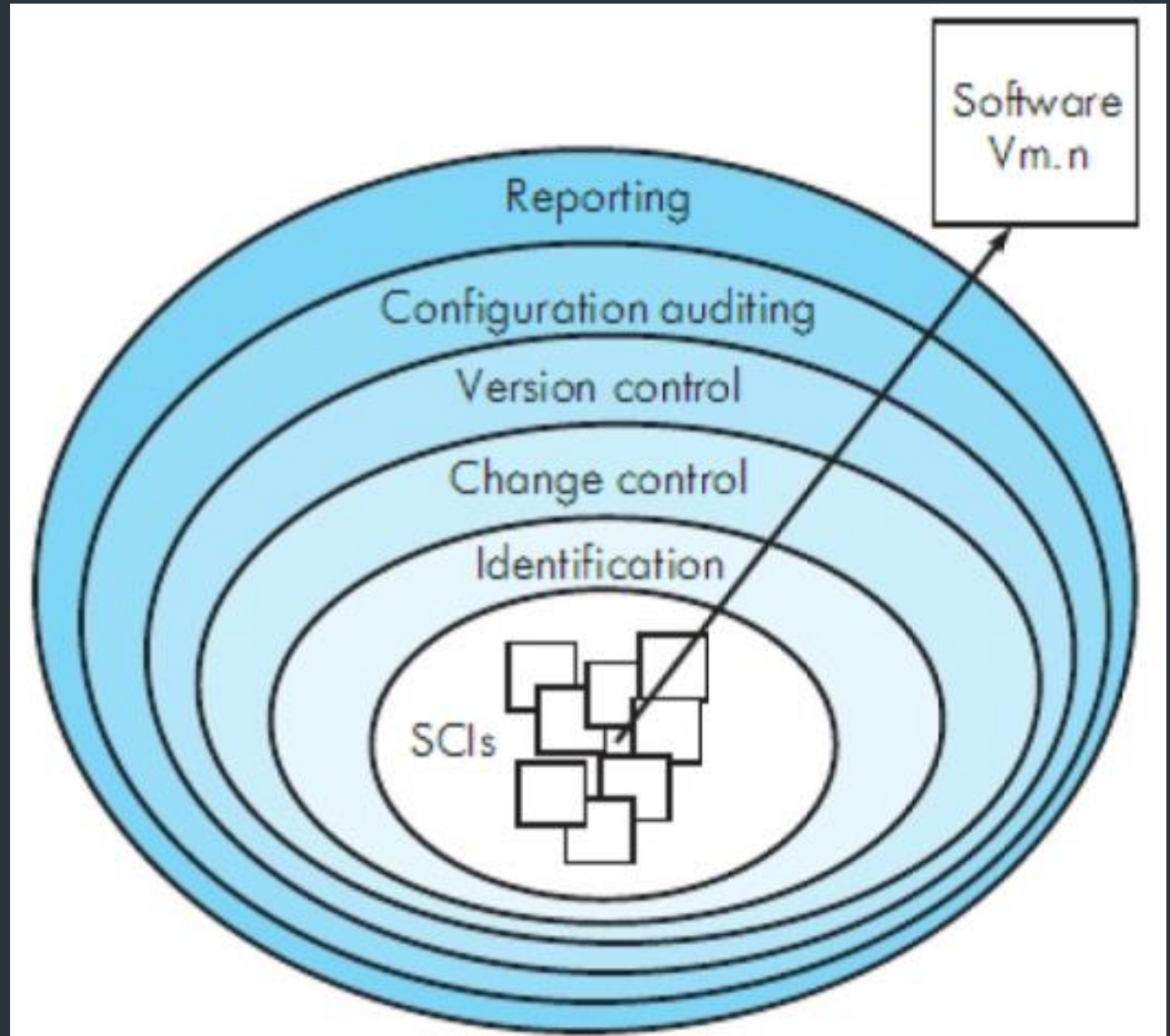
# Contents of Repository



# CONTENTS

- SCM: Elements, Baselines, Items (SCIs)/Objects
- The SCM Repository
- **The SCM Process**
- CM for WebApps

# The SCM Process



# The SCM Process

- Identification of Objects in the SC
- Version Control
- Change Control
- Impact Management
- Configuration Audit

# CONTENTS

- SCM: Elements, Baselines, Items (SCIs)/Objects
- The SCM Repository
- The SCM Process
- **CM for WebApps**

# Example: CM for WebApps

- Dominant Issues
  - Contents
  - People
  - Scalability
  - Politics

# Content Management System

