



THAPAR INSTITUTE  
OF ENGINEERING & TECHNOLOGY  
Deemed to be University

# SOFTWARE PROJECT MANAGEMENT AND SCM

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# WHY SOFTWARE PROJECT MANAGEMENT ??

- Requirements not understood or communicated properly or not clear even to the customer.
- When we start building software based on such incomplete/ ambiguous/ unclear requirements this is going to fall in a **90% complete syndrome**.

**Soln..** Gather / frame the requirements in the beginning itself

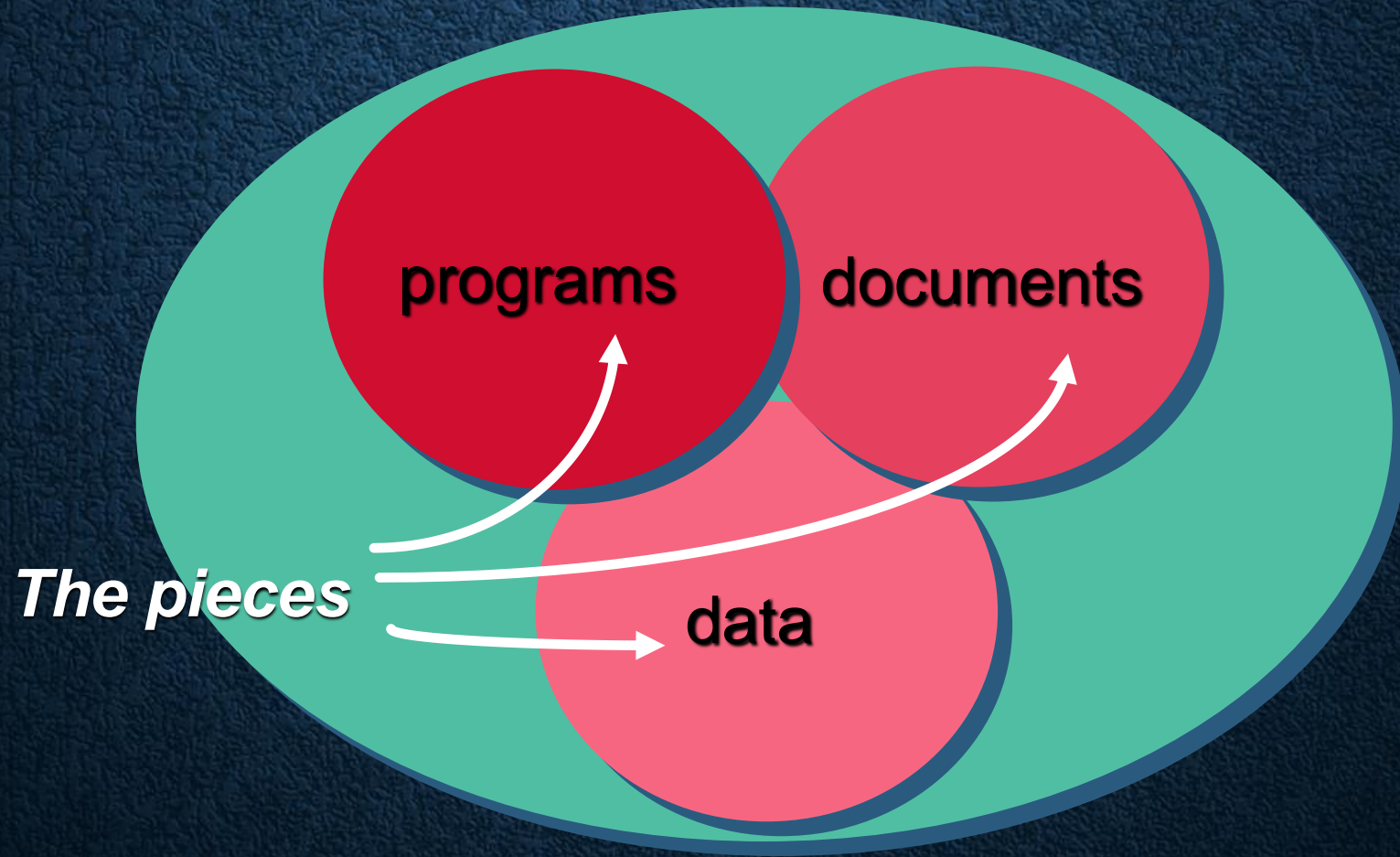


# SOFTWARE PROJECT MANAGEMENT

- Umbrella activity for SDLC process
- *It includes following processes:*
  - **Estimation** - Planning, Organising, Monitoring and Control for **Software size, time, cost, and Effort**
  - **Software Configuration Management**



# THE SOFTWARE CONFIGURATION



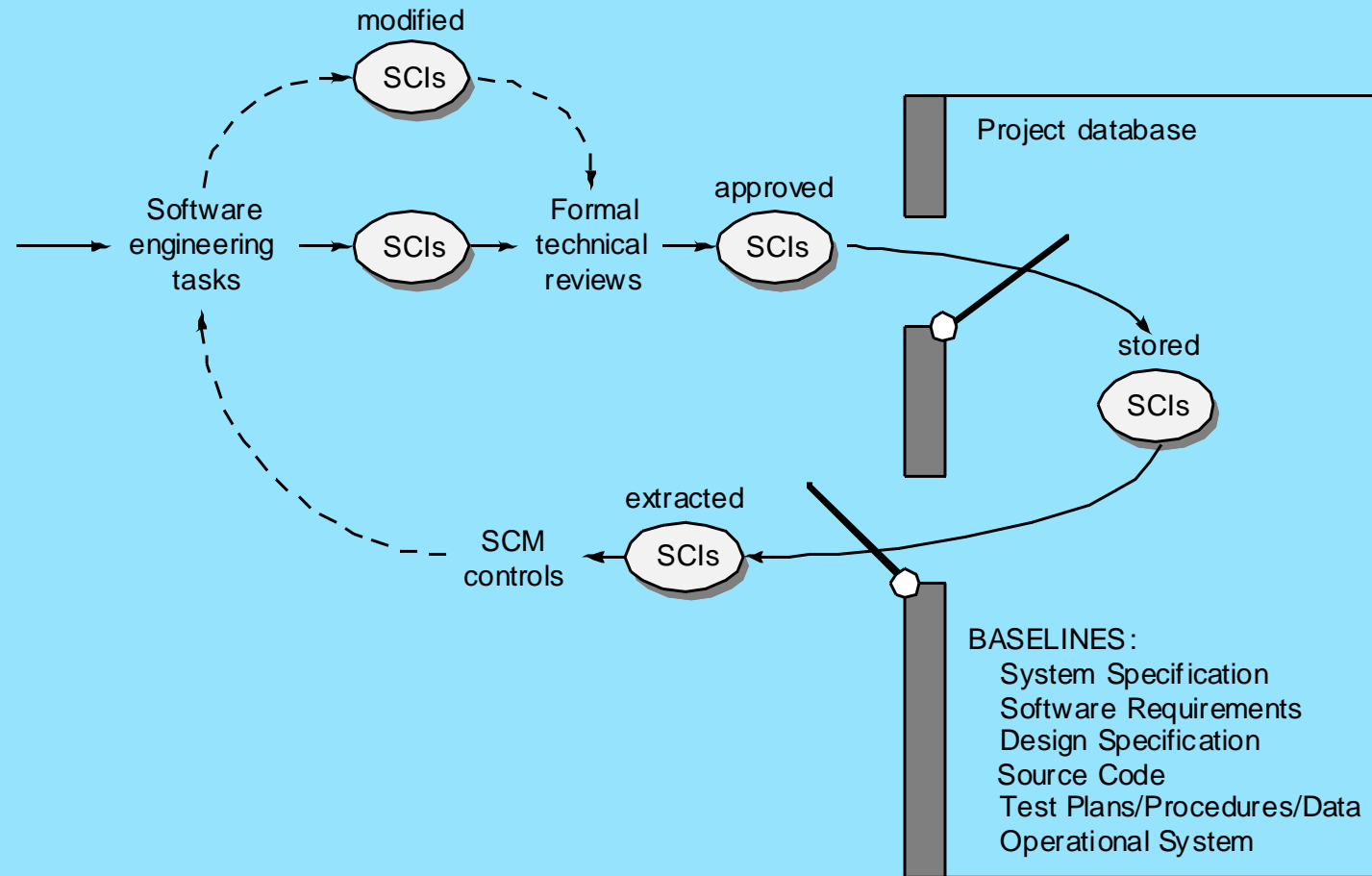


# BASELINES

- The IEEE (IEEE Std. No. 610.12-1990) defines a baseline as:
  - **A specification or product that has been formally reviewed and agreed upon, that thereafter serves as the basis for further development, and that can be changed only through formal change control procedures.**
- a baseline is a milestone in the development of software that is marked by the delivery of one or more software configuration items and the approval of these SCIs that is obtained through a formal technical review



# BASELINES





# CHANGE CONTROL PROCESS—I

need for change is recognized

change request from user

developer evaluates

change report is generated

change control authority decides

request is queued for action

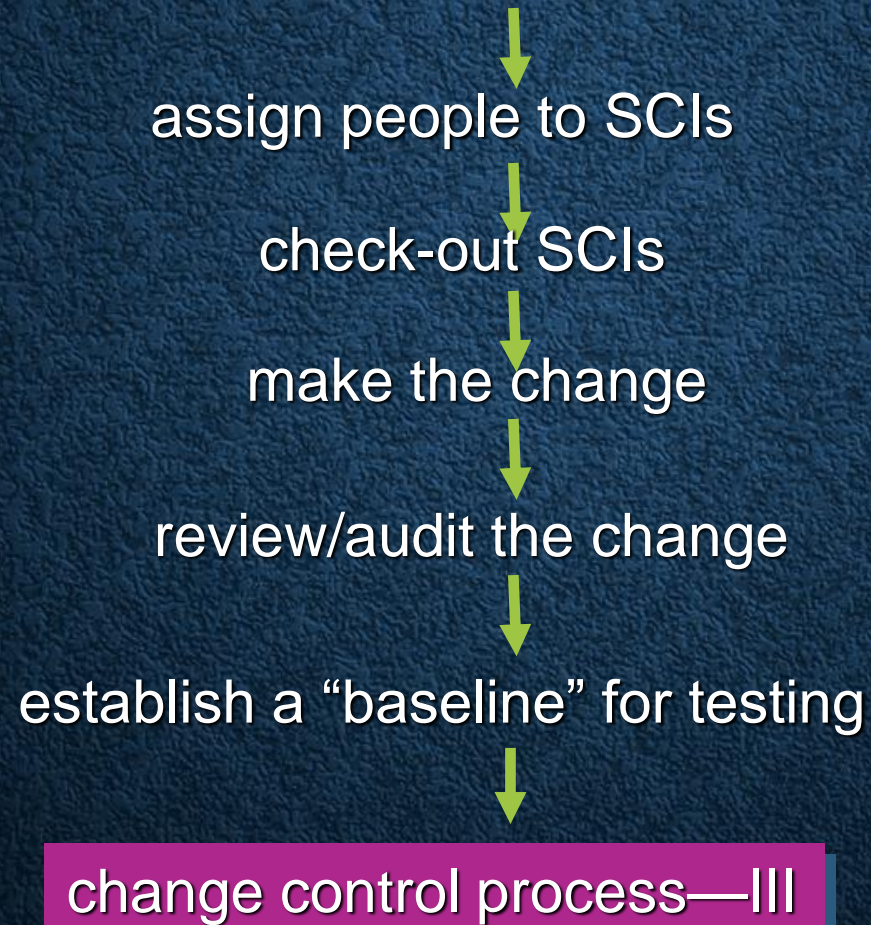
change request is denied

user is informed

change control process—II

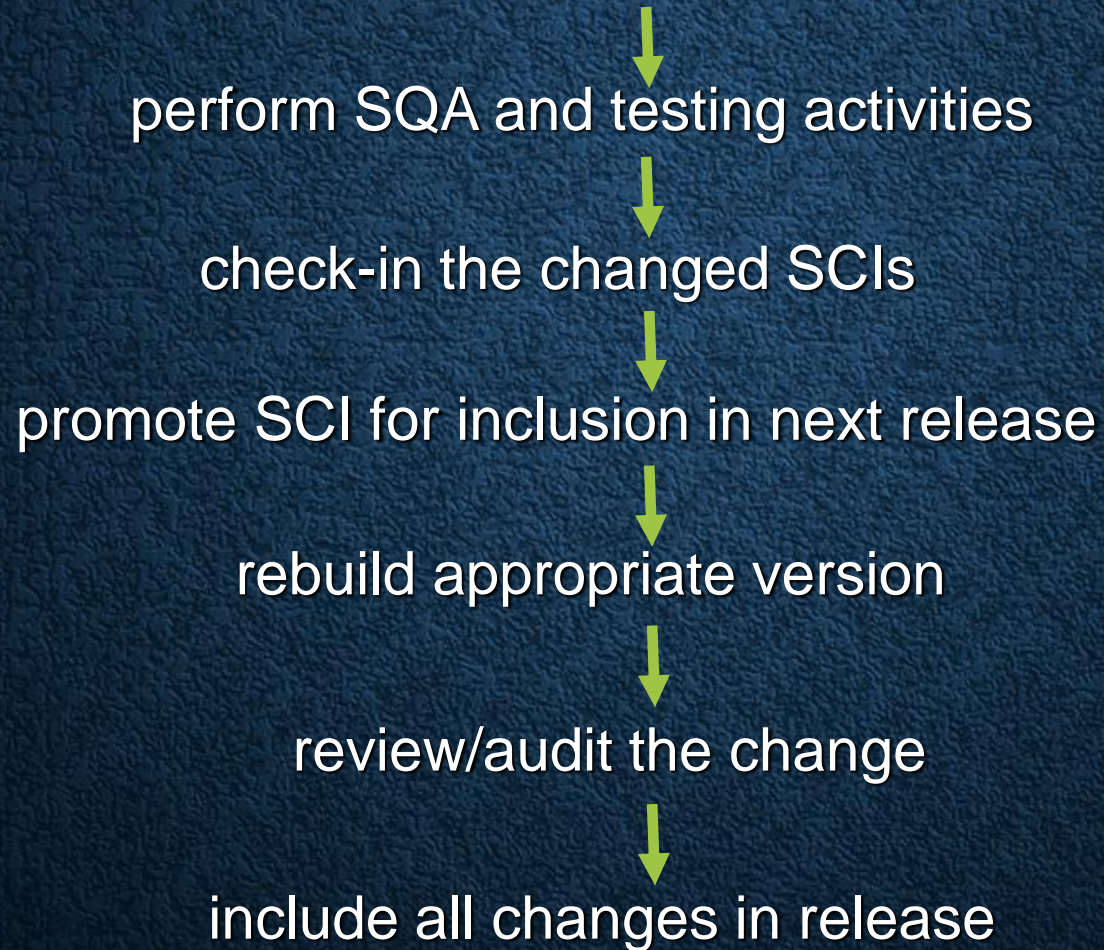


# CHANGE CONTROL PROCESS—II





# CHANGE CONTROL PROCESS—III





## References:

Pressman, R. Software Engineering: A Practitioner's Approach. McGraw-Hill