

CS 301 Software Engineering Module - 39

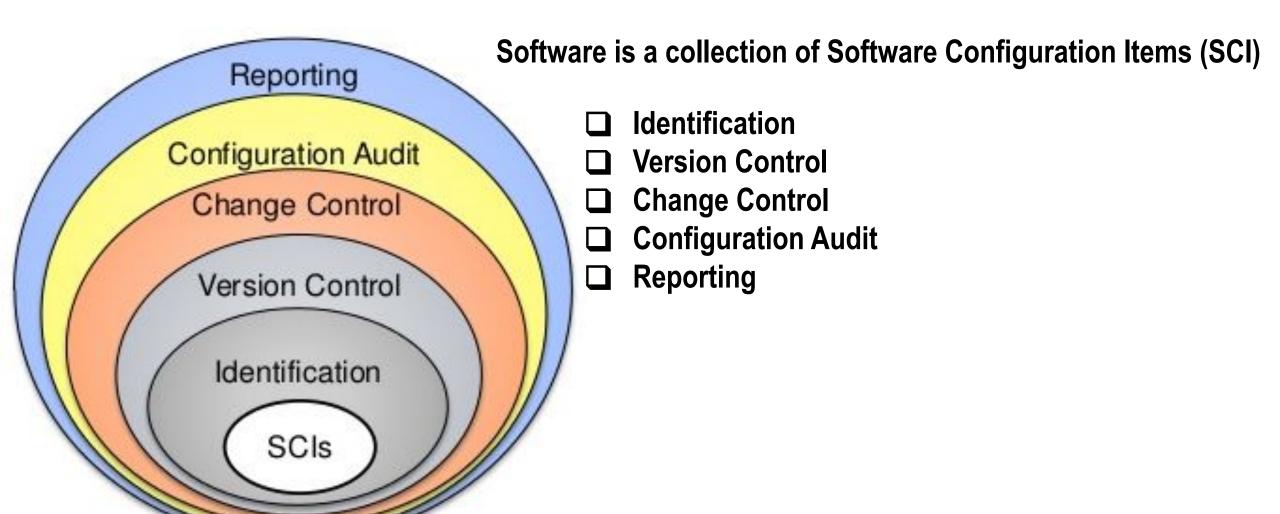
Eswaran Narasimhan

At the end of this session you will be able to:



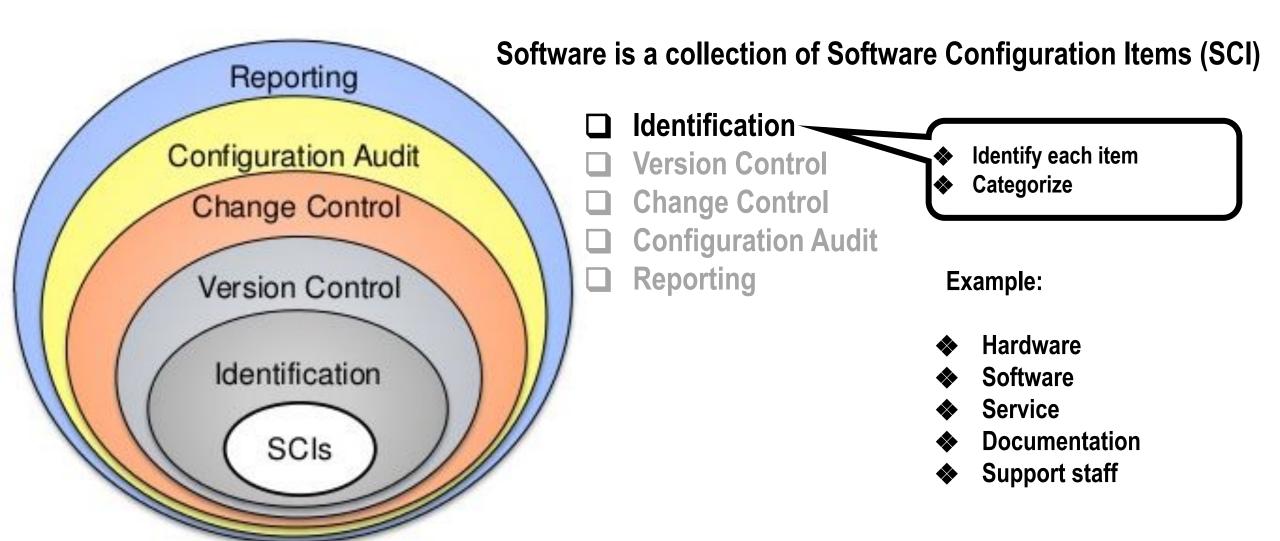
- ☐ Understand the rationale of software configuration management
- ☐ Understand the elements of project monitoring and control



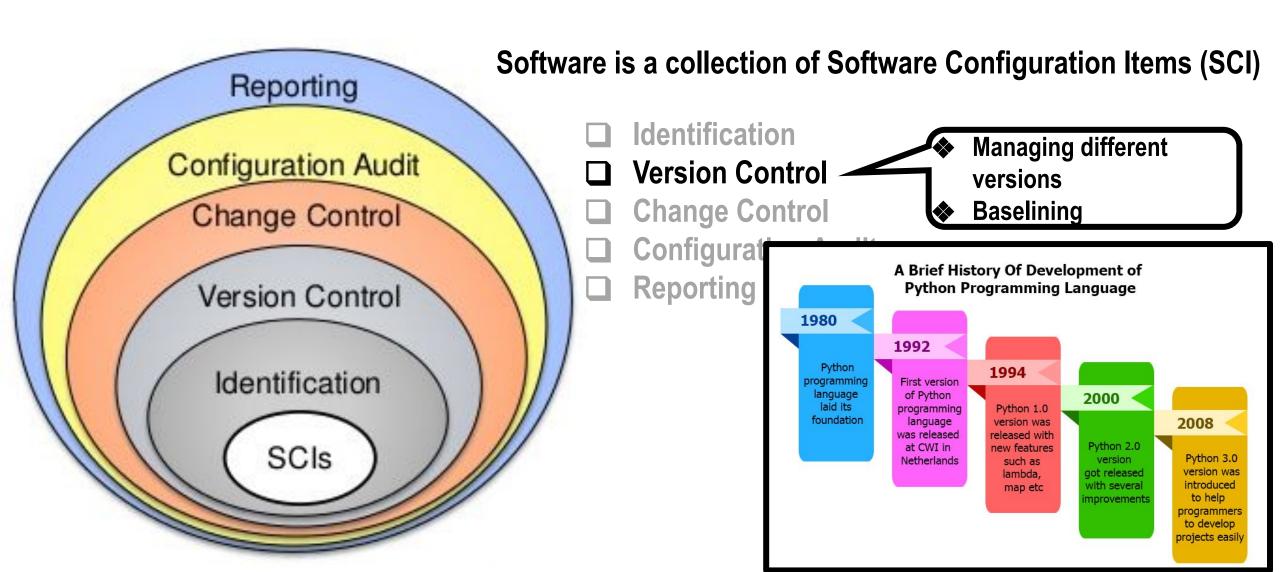


https://www.slideshare.net/AmitUdhwani/software-configuration-management-47680372

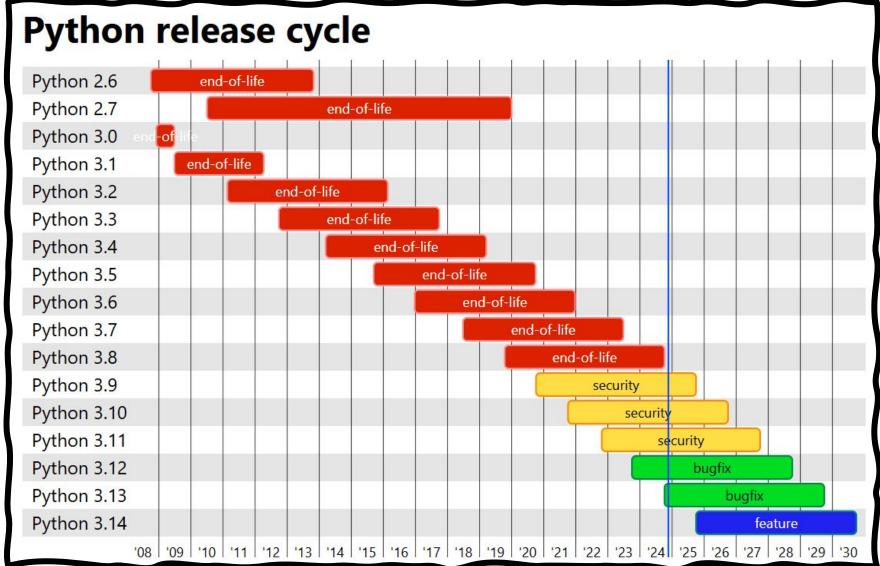




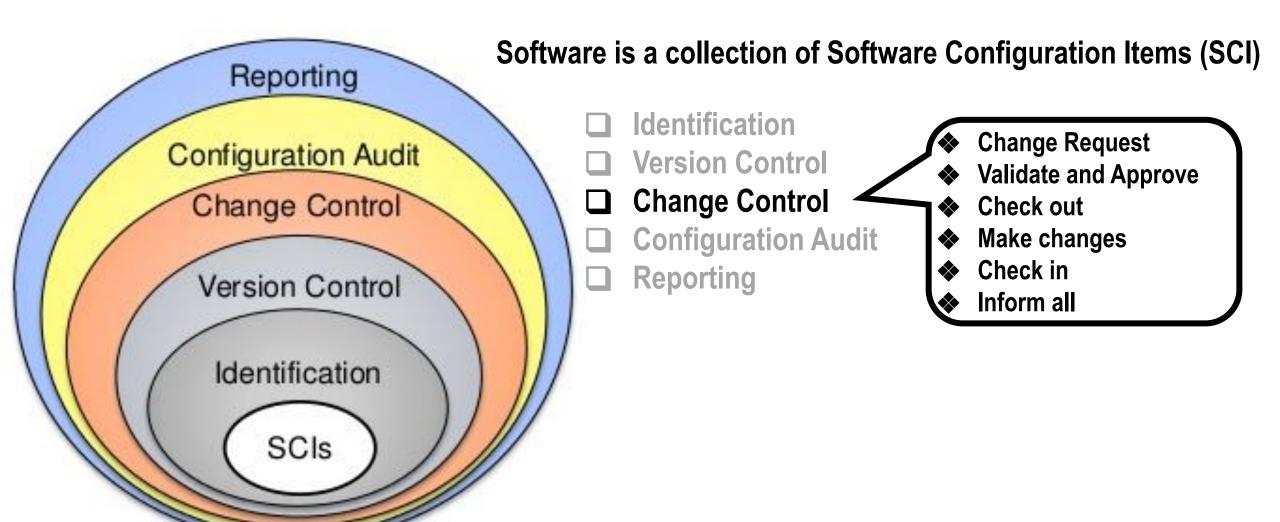




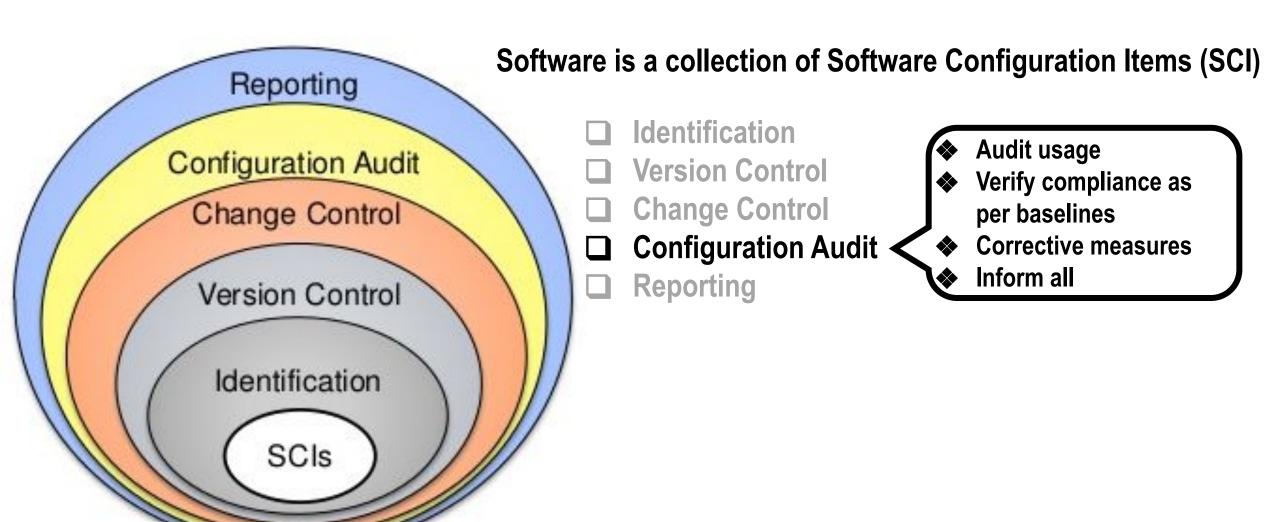




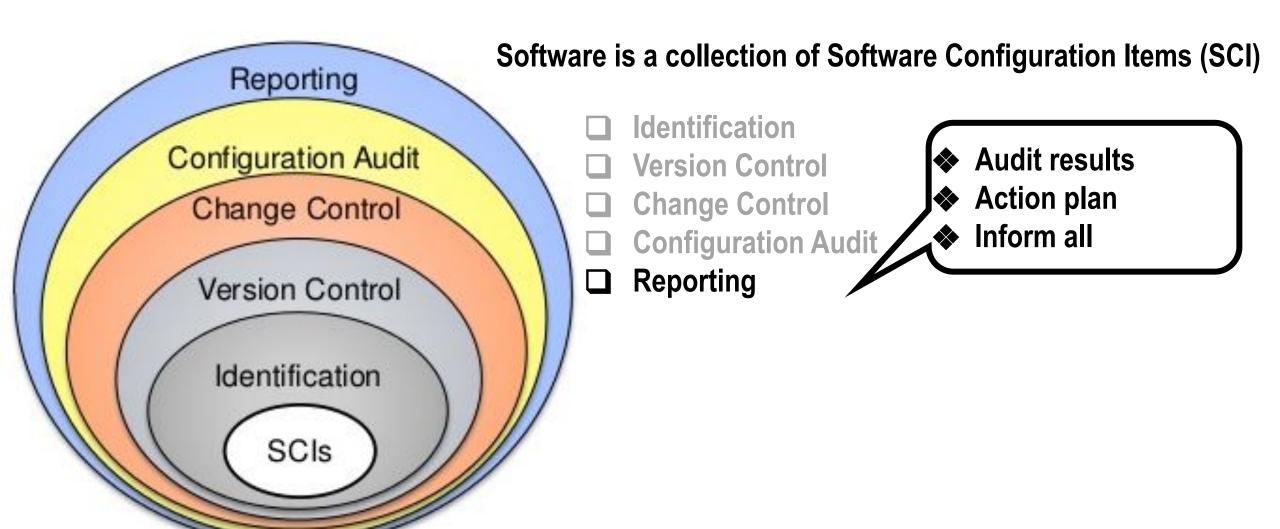
















- ☐ Integrated Change Control
- → Validate Scope
- ☐ Control Scope
- □ Control Schedule
- □ Control Costs
- Control Quality
- □ Control Communications
- □ Control Risks
- Control Procurements
- □ Control Stakeholder Engagement





- Change of any kind
 - Cost, resources, time,
 - scope
 - **Change Management**
 - **Process**
 - **Reviewed Regularly**
 - **Audited**



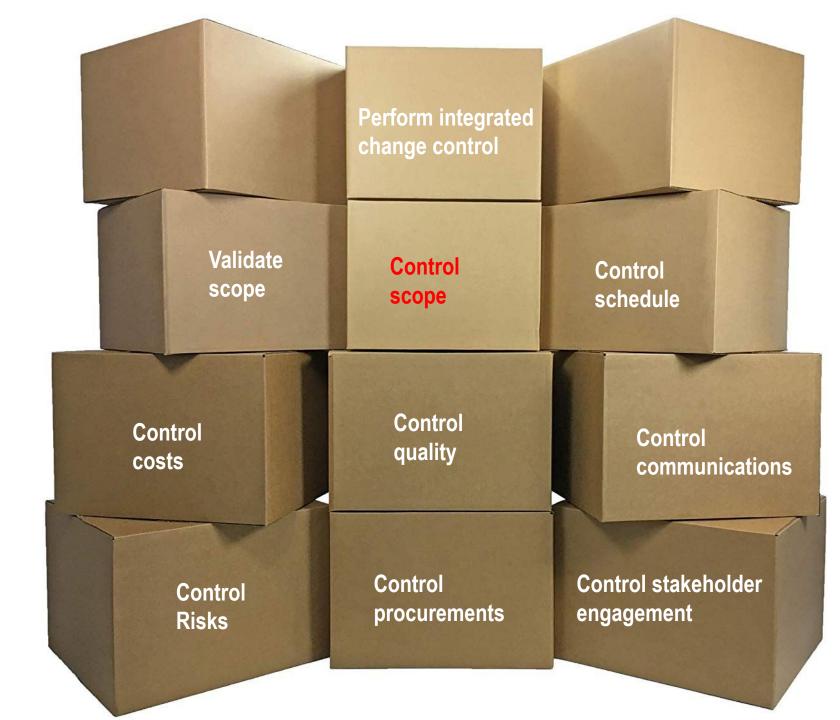
Are within the definition of scope
 Nothing additional is being done
 Is it prioritized?

Is it consuming expected

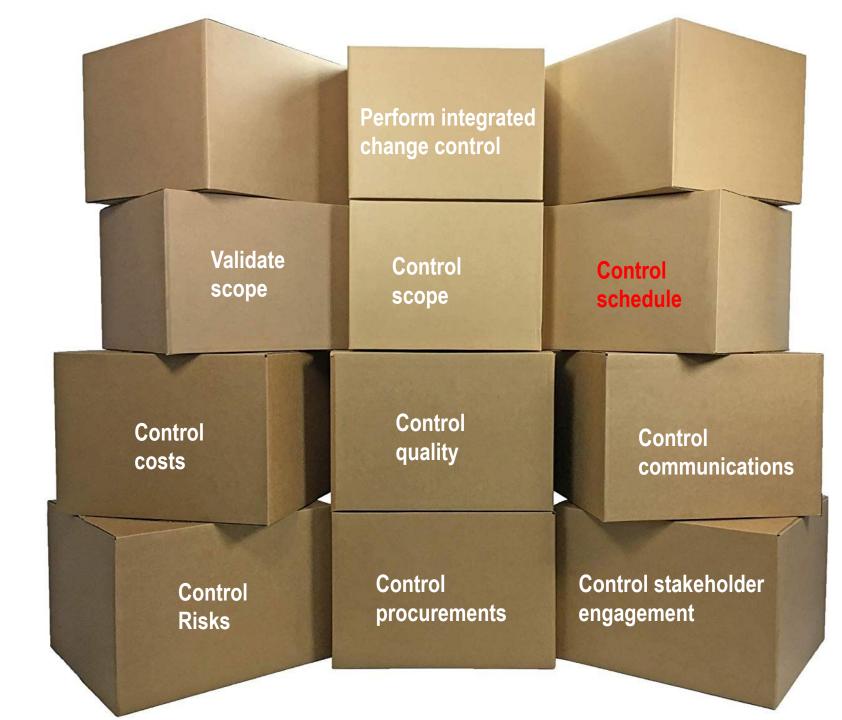
resources?



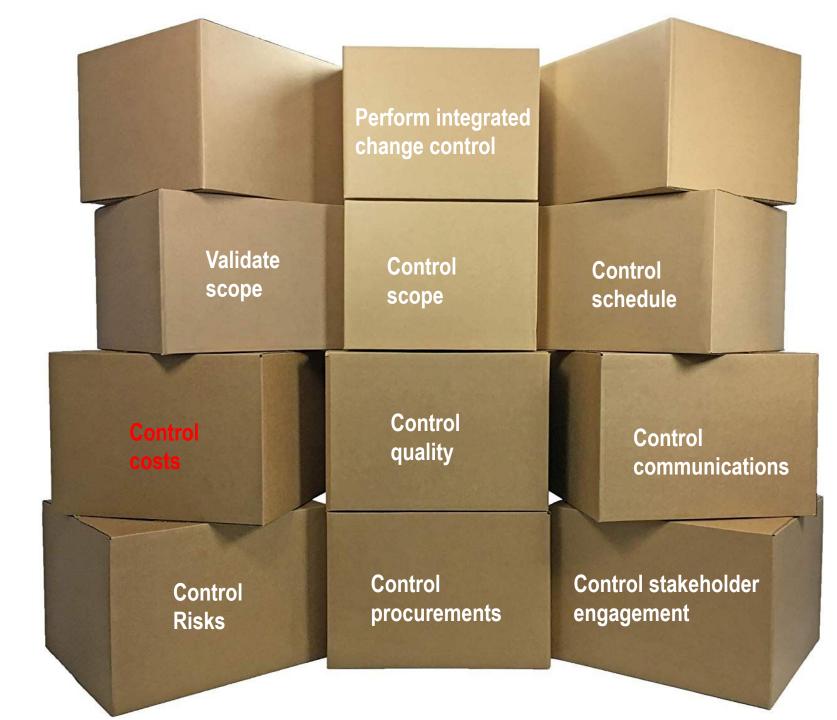
- ☐ Is the scope agreed upon?
 - Is the creep under control?
 - Is it a must have?
 - All are stakeholders
 - agreed?
 - Will it stretch schedule?



- ☐ Are we on schedule?
 - Can we make up time by bringing in more resources?
- Should we outsource?
 - Can we reduce scope?
 - Can we take in more
 - scope?
 - Can we reduce team size?



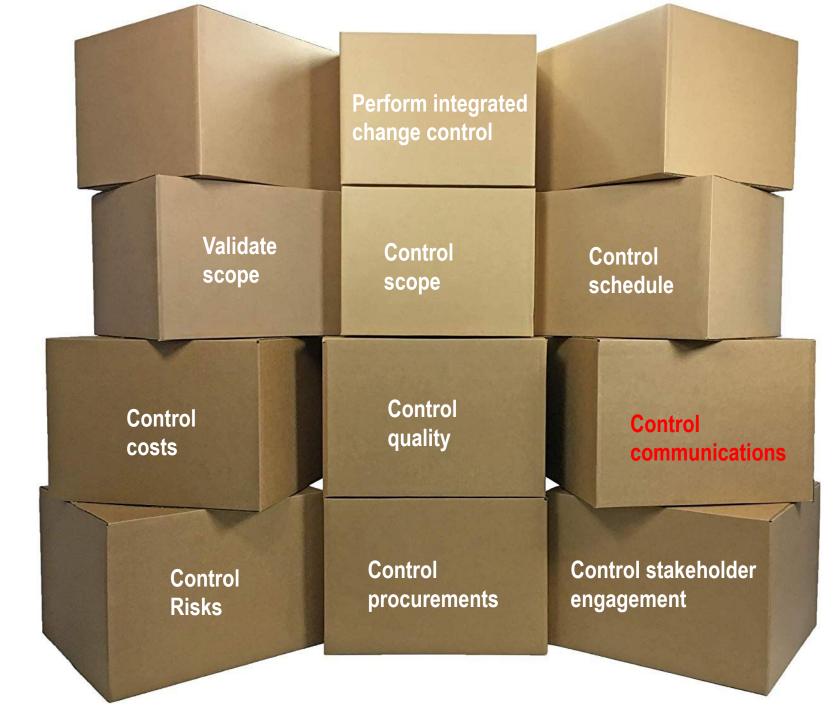
- ☐ Can we reduce burn rate?
 - Can we outsource?
 - Can we reduce scope?
 - Can we reduce FTE?
 - What are the idle
 - resources?



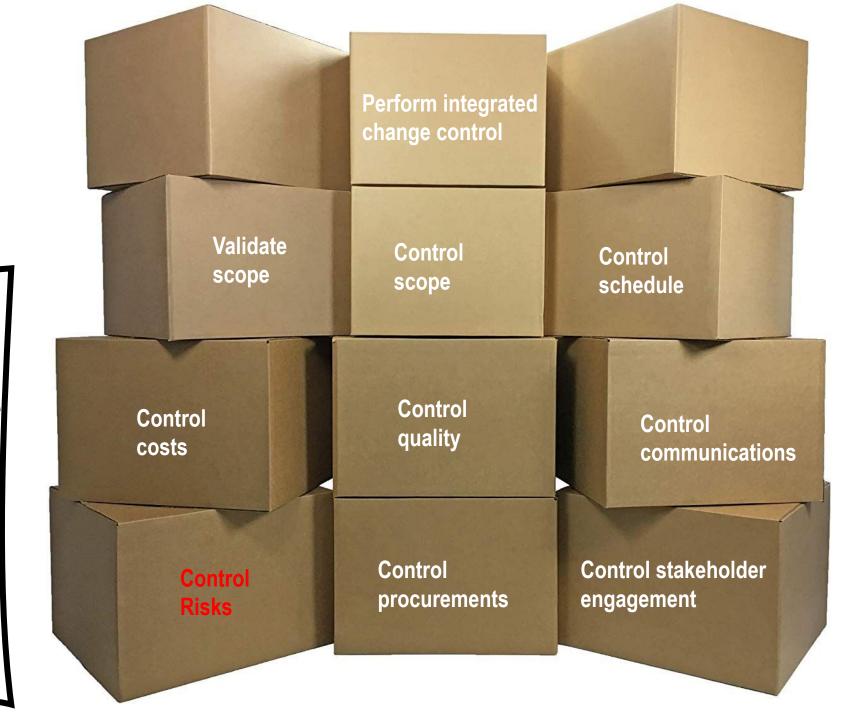
- ☐ Is the development as per standards
 - What is the code coverage of testing
- What is the defect rate?
- What is the user acceptance defects?
 - How are the metrics in
 - code quality tests?
 - Are Dev-ops procedure followed?



Are everyone on same page?
Is the latest status available to all?
Have all been included in updates?
Are all developers have access to latest check-ins?



- ☐ Are all risks been identified?
 - When was the last risk review done?
- Are risk mitigation procedure in place?
- Are alternate vendors in place?
- What is the level of resource availability
 - Are interface handshakes in place?



Are procurements / recruitments as planned?
 Are all standards and version acceptable?
 Are there sunset dates on software elements?
 Are there changes in delivery dates of suppliers to project deliverable dates?



- ☐ Are all stakeholders up to date?
 - Are stakeholder changes managed?
 - Have changes in scope, schedule communicated to stakeholders?







- ☐ Understand the rationale of software configuration management
- ☐ Understand the elements of project monitoring and control