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Why do all IT-project fail?

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2013-12-12



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Agenda

- **Presentation**
- **To drive IT-project (statistics)**
- **Project overview**
- **Requirements**
- **Conclusion**

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It is not easy to drive IT-projects

“The Gartner Group estimates that 51% of projects finish over budget. What's more is they cost 189% more than expected.”

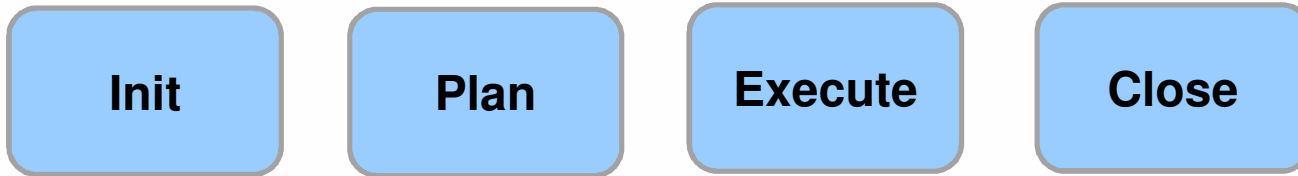
”30 % of IT projects never reach a result.” (GartnerGroup)

”Over 70 % of IT project overrun the time plan.”
(Harvard Business Review)

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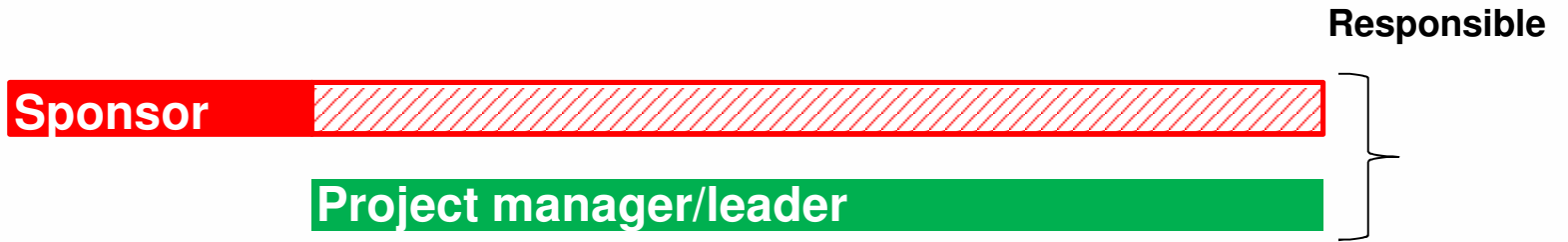
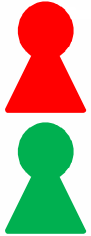
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Project models



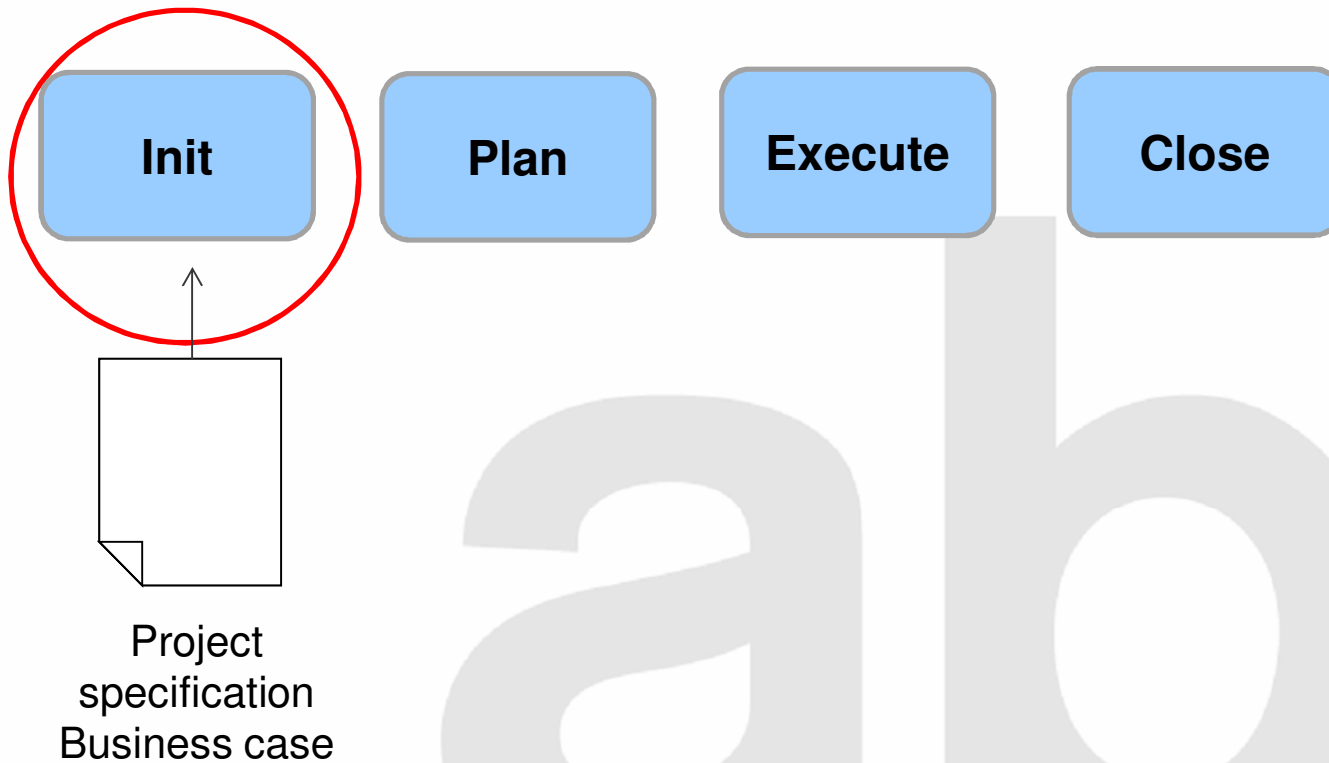
PRINCE2	PRE-PROJECT	INITIATION STAGE	SUBSEQUENT DELIVERY STAGES		FINAL DELIVERY STAGE	
PPS	PREPARE		EXECUTE		CLOSE	
PROPS	PRE STUDY	PROJECT PLANNING	START EXECUTE	GO ON EXECUTE	DELIVER	PROJECT CLOSE

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What is wrong?



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Project specification and Business case

- Ownership and accountable
- Contents
 - Current situation
 - Problem description (Business view)
 - Stakeholders (Parts of organization effected)
 - Expected outcome (Wanted situation)
 - Limitation: budget / time plan / assumptions / risks / external elements
 - Direction for solutions (details on next slide)



Init

Plan

Execute

Close

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Proposed solutions and base for decision

Traditional IT-projects

Should be used
More often

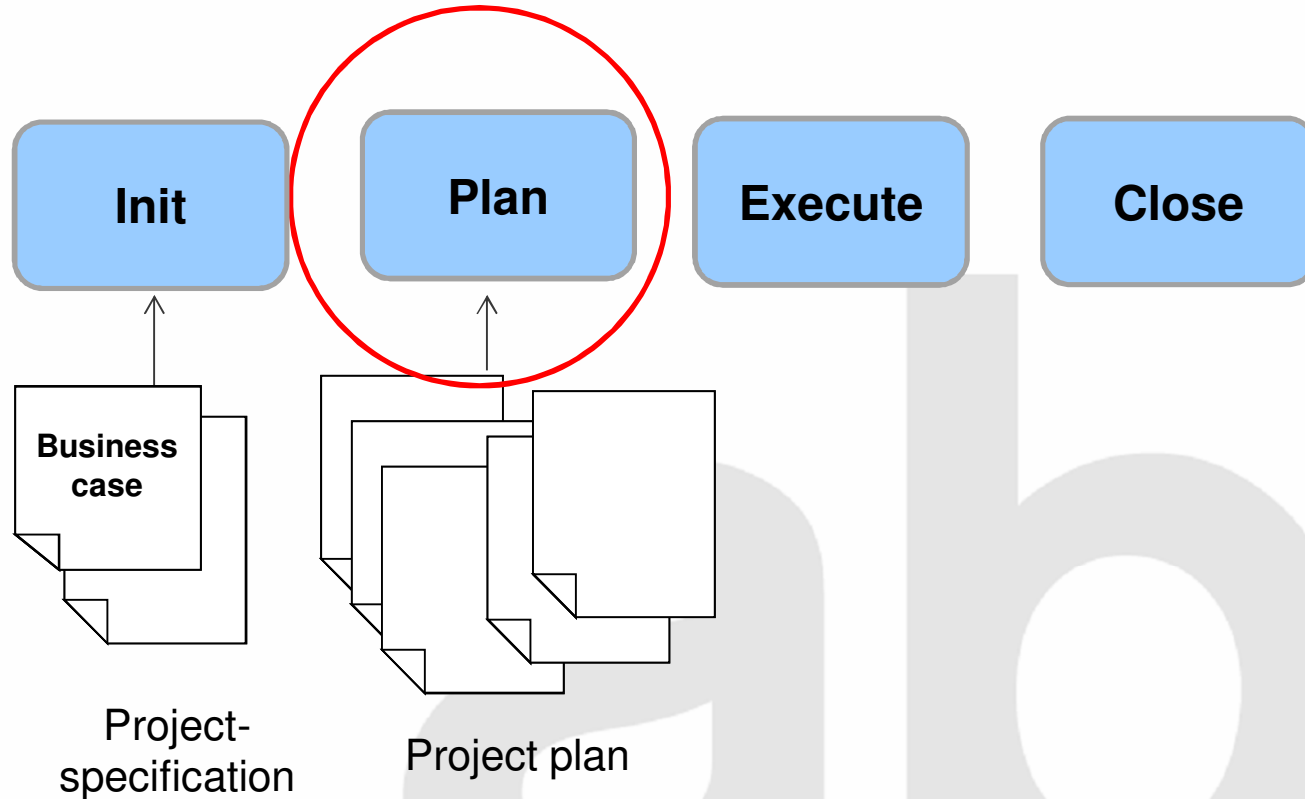
20%

	Buy	Build	Change	Nothing
Cost				
Income				
Requirements (high level)				
Solution				
Risk analysis				



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IT-project is started Why planning is important



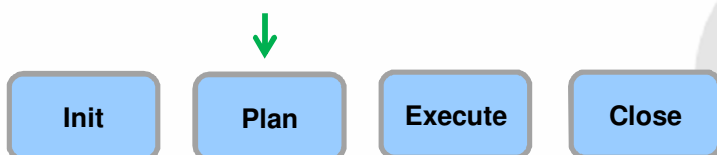
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Project plan

- **Contents**

- Background
- Purpose
- Prerequisites
- Current status
- Stakeholders
- Goal
- Time plan
- WBS
- Risk assessment
- Change control
- Budget
- Test plan
- Solution selected
- Resource plan
- Roles
- Hand over plan
- Rapport plan
- External resources plan
- Requirements on detail

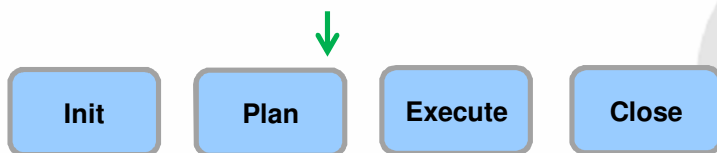
Sponsor is responsible to supply correct resources to create detailed requirements. Resources from both IT and business is required in order to ensure requirements with high quality



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Approval of project plan

- Project plan is decision support for steering group
- There are three options:
 - Approve and proceed
 - Revise
 - Abort



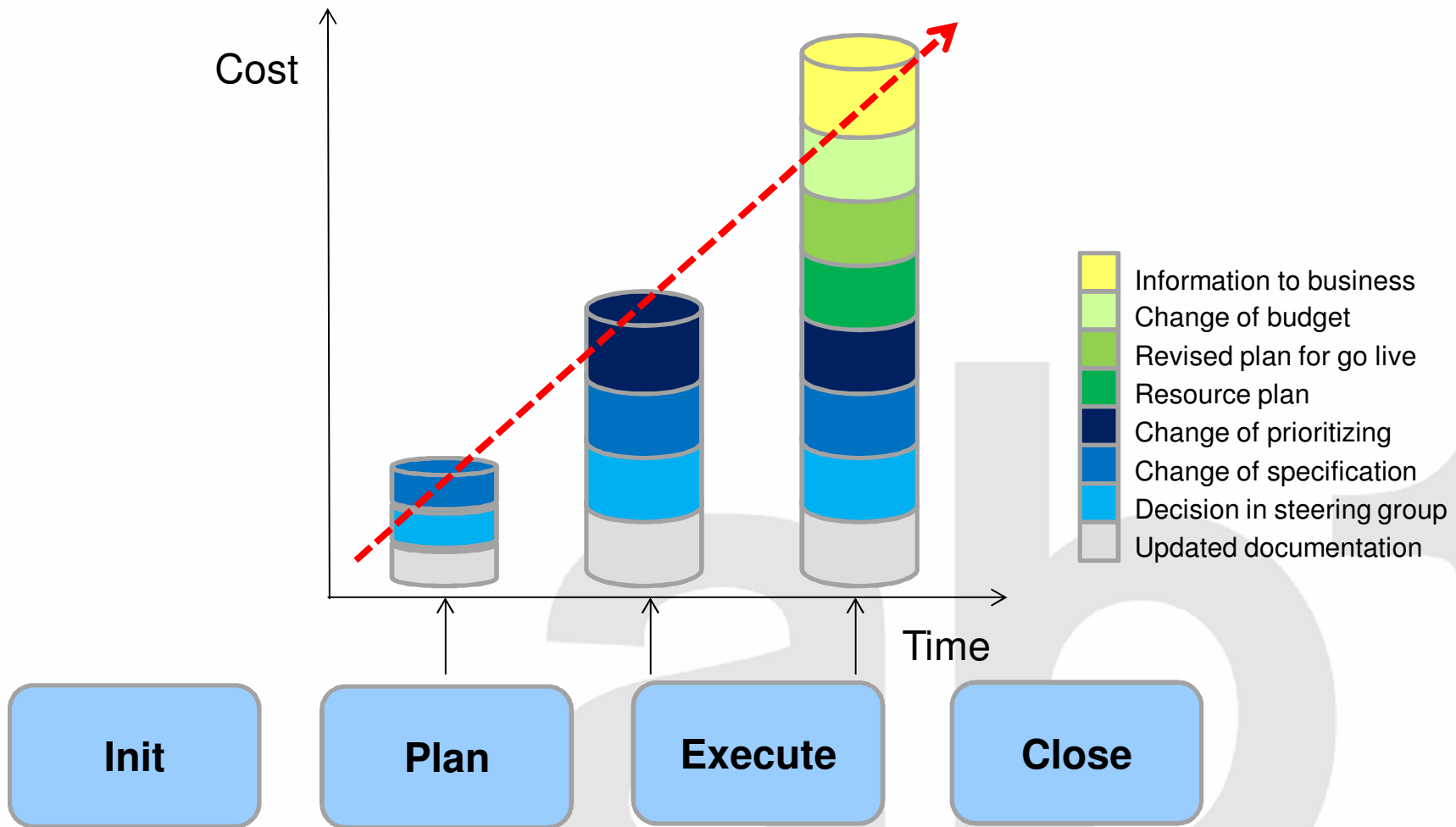
10%

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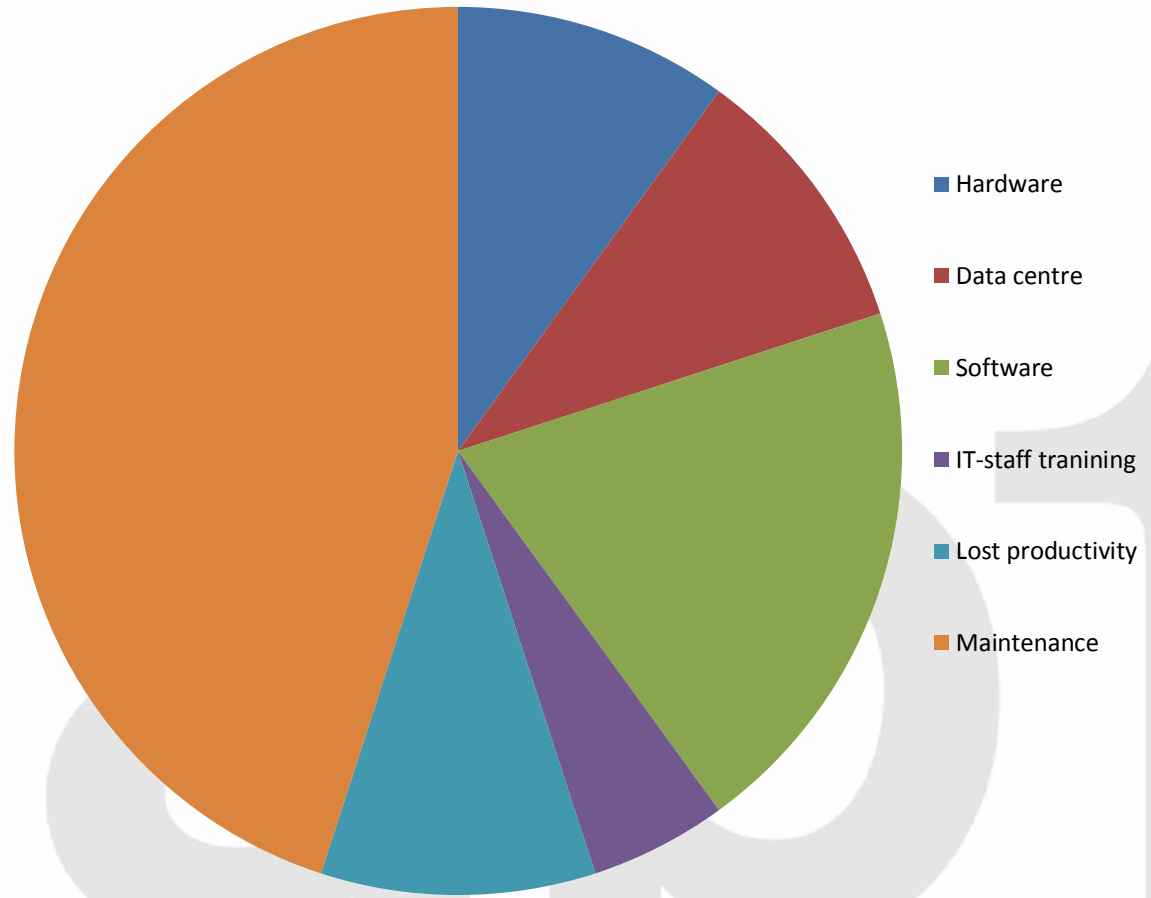
requirement management

Mistakes will cost later in project.



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Total Cost of Ownership (TCO)



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Requirement management

- Requirements are divided in two categories
 - None functional (Warranty ITIL)
 - Performance, security, scaling, maintenance,
 - Functional (Utility ITIL)
 - What shall the system do

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None functional requirement

- Scalability
- Availability
- Security
- Performance/load
- Technical design
 - Selection of HW, SW, OS, DB

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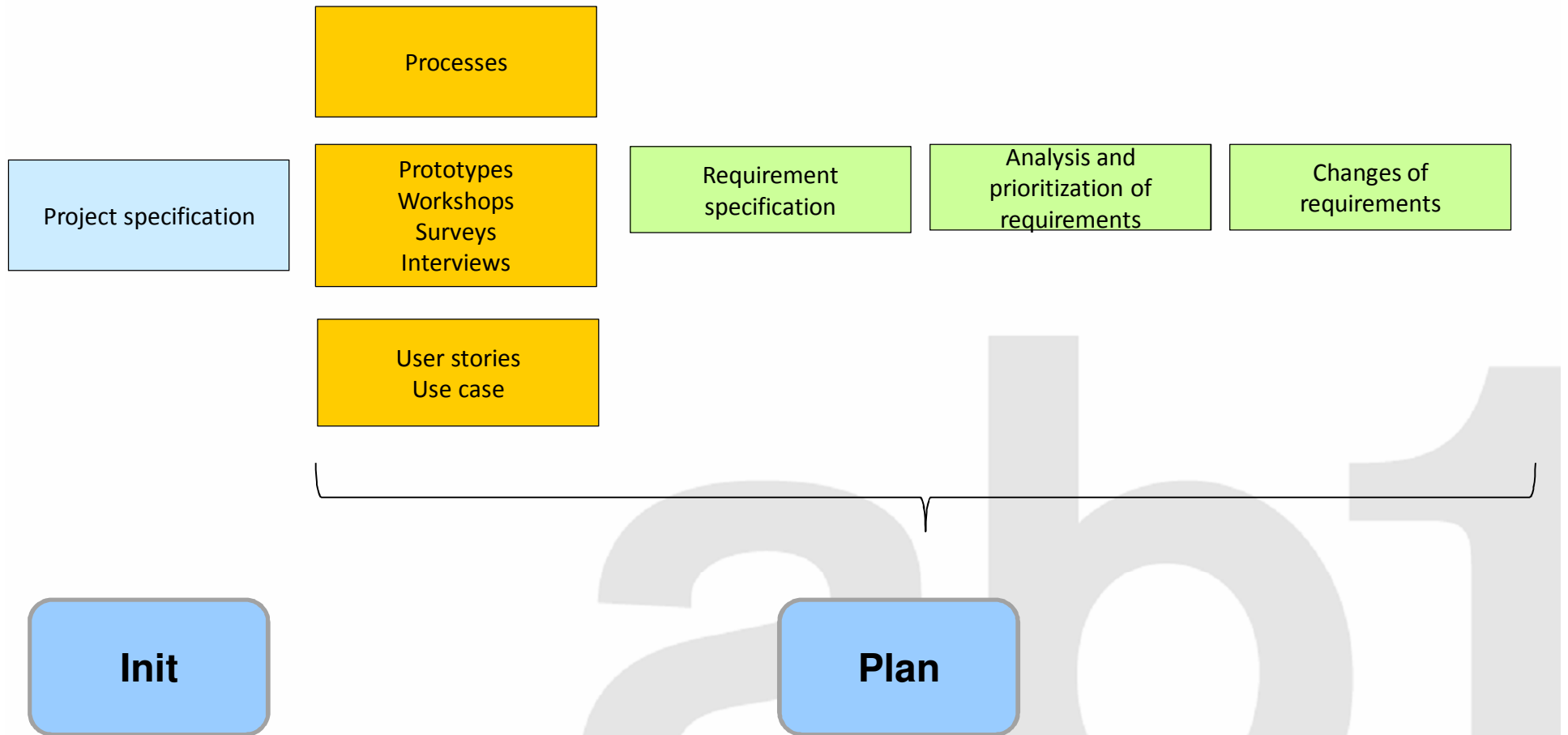
Functional requirement

- Upper management and middle management must prioritize work with requirements.
- Divide functional requirements in
 - Must
 - Nice to have

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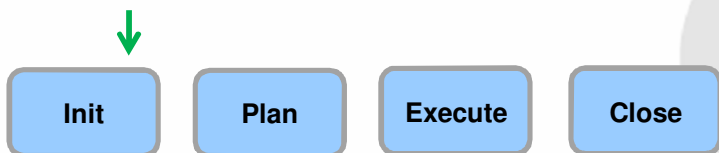
Requirement management



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Project specification

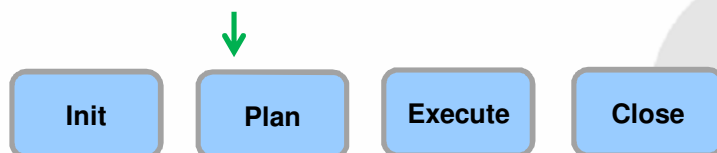
- Master input document for a project.
- High level requirements
- Stake holder analysis
- Life cycle plan
- Business case
 - Must show profit



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Processes

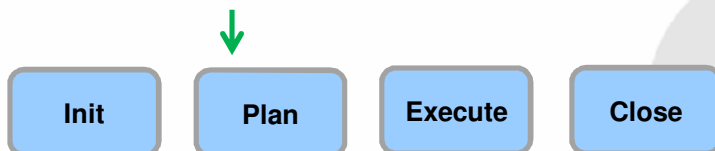
- Define today's processes
- Define wanted processes
- Important to include right people. This is not something for a new employees
- You need them to feel safe and open up



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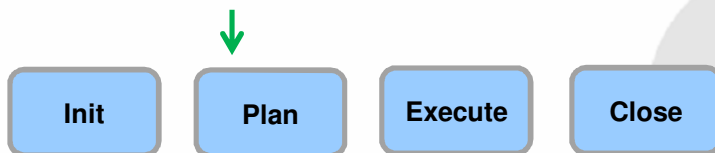
Workshop and prototypes

- Run workshop with stake holders or people representing stake holders
- Create simple prototypes
 - Could be done with HTML, php etc to test user interface
- Take use of experts



ab1 User stories

- A user story template
 - “As a <role>, I want <goal/desire> so that <benefit>“
 - “In order to <benefit> as a <role>, I want <goal/desire>“
- The term benefit is sometimes regarded as optional
- Put unique identifier on each user story

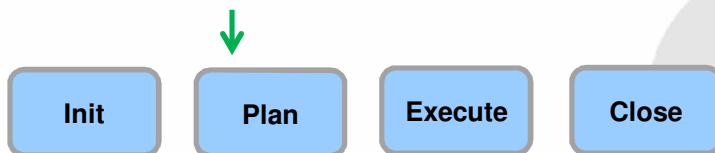


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User stories examples

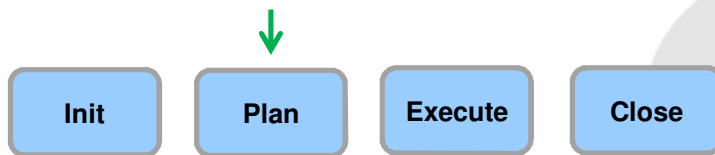
- **U1** As a HR-administrator I want to search for my employees by last and first name
- **U2** As a line manager I want to see the salary for my employee the last five years so that the raise this year will be relevant



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ab1 Specification of requirements

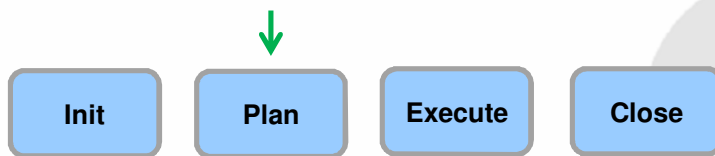
- Transform user stories to more specific requirements
- Make sure you can track back to processes, user stories and stake holders for every requirement
- Each requirement should have an unique identifier



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Examples of requirements

Req	US	Must Nice	Description
R1	U1, U2	M	There should be search field for department/unit, first and last name
R2	U2	N	Output from search should be salary for five years



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Analysis, validation and prioritization of requirements

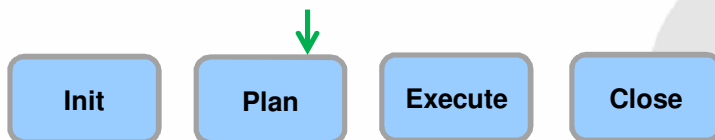
- Revise requirements in
 - Must
 - Nice to have
- Walk through every requirement and check if purpose and goal is aligned with the project goal
- Set priority of all requirements



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Change/removal of requirements

- You may need to change some requirements.
- All new/changed/removed requirement should be discussed with sponsor and stake holder



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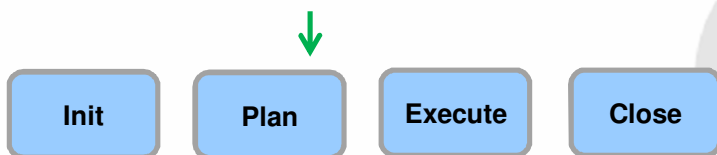
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Project plan

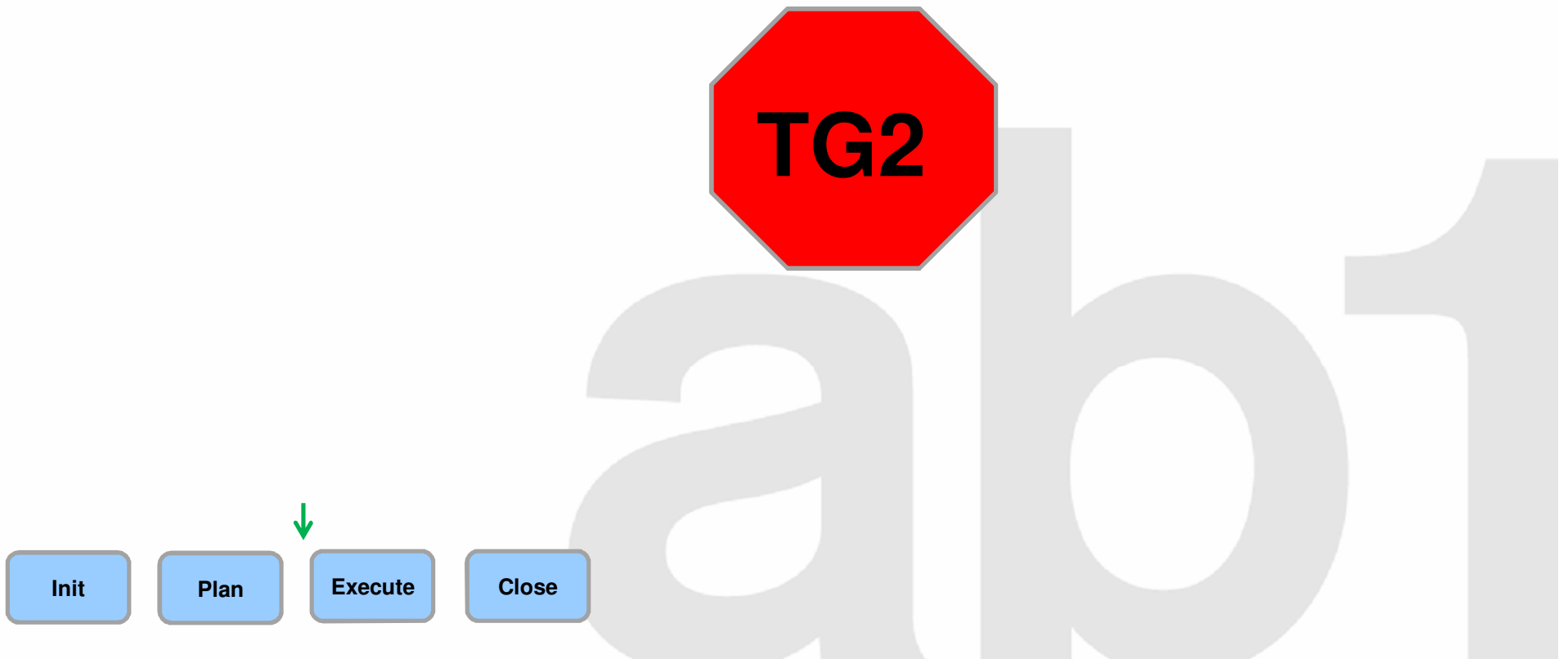
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Implement Change Control Board to enable a smooth and safe process for add/change/removal of requirements



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Execution/Design

- Make sure the designer reads in the following order
 - High level requirements
 - Wanted process
 - User stories
 - Requirements
- Just reading requirements will fail to see the whole picture

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New/changed requirements

- No matter how good your work with requirements is done. There will always be new/changed requirements.
- Take all new/changed requirements through Change Control process
- Failing to do so creates “scope creep”

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Conclusion

- **Many years in the business gives us:**
 - **Poor business case and bad requirement handling is responsible for 90% of all missed budgets.**
 - **Of them, 20-40% should not have been started.**



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Questions?