Mod. 3: Project Planning





Two Aspects of Managing Scope

Project Requirements

- Business
 Requirements
- Project
 Management
 Requirements
- Delivery Requirements

Product Requirements

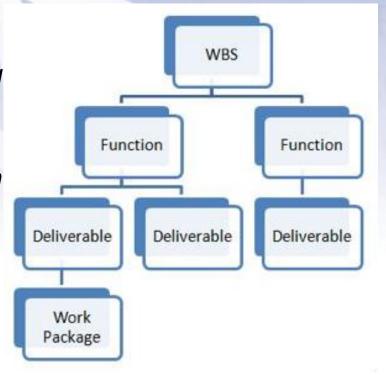
- Technical Requirements
- Security Requirements
- Performance Requirement



WBS Definition

PMBOK® Guide Definition

A deliverable-oriented grouping of project elements that organizes and defines the total work scope of the project. Each descending level represents an increasingly detailed definition of the project work.



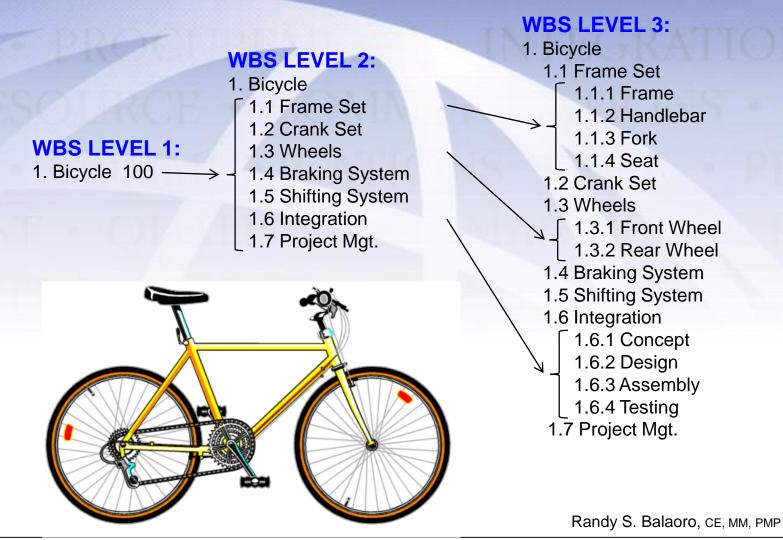


Work Breakdown Structure

- The tool for breaking down a project into its component parts.
- It is the foundation of project planning and one of the most important techniques used in project management.



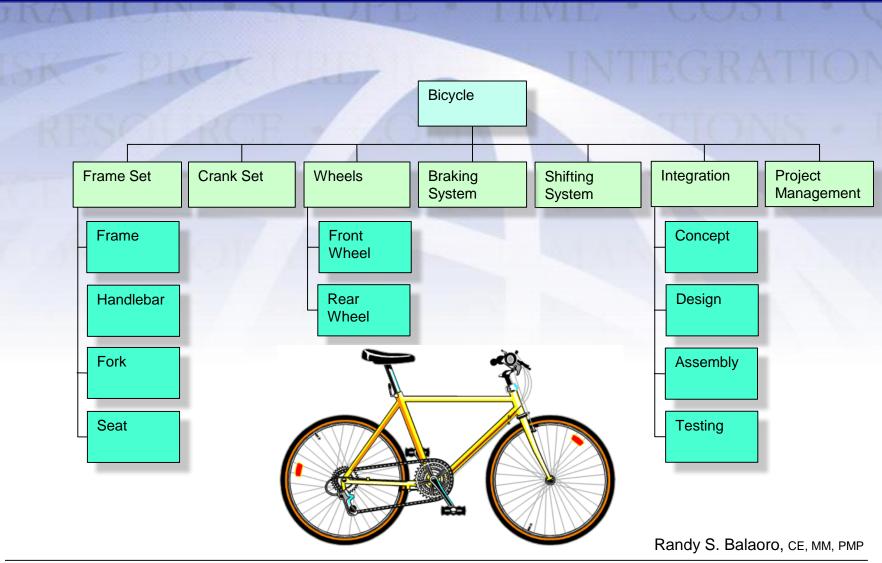
WBS Decomposition



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WBS in Graphical Form



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WBS in Outline Form





Advantages of WBS

- Provides a detailed illustration of the project scope
- Create accurate cost 2.3 and schedule estimates
- Monitor progress easily
- Basis for building project teams

Home Landscaping Project 1.0 Design home landscape 2.0 Put in lawn Acquire lawn material Install sprinkler system 2.2.1 Dig trenches 2.2.2 Install pipe and hardware Cover sprinkler system 2.3.1 Remove debris 2.3.2 Prepare soil 2.3.3 Plant lawn seed Build fence 3.1 Acquire fence material 3.2 Construct fence 3.2.1 Mark fence line and post 3.2.2 Install post Install fencing and gates
Randy S. Bal



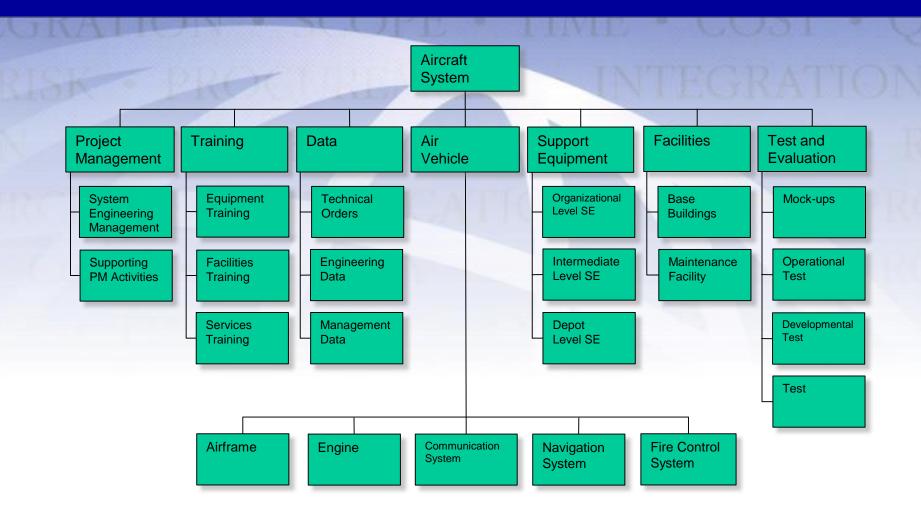
WBS Decomposition

There is no single best way to develop



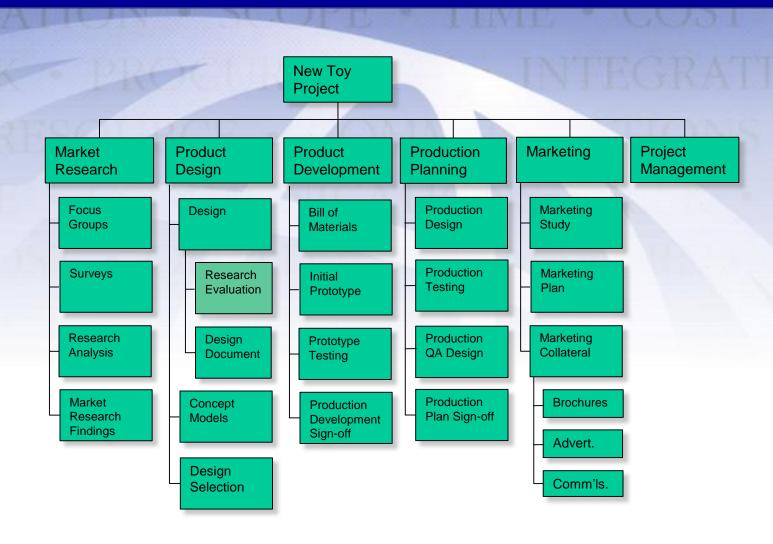


WBS for Aircraft Development



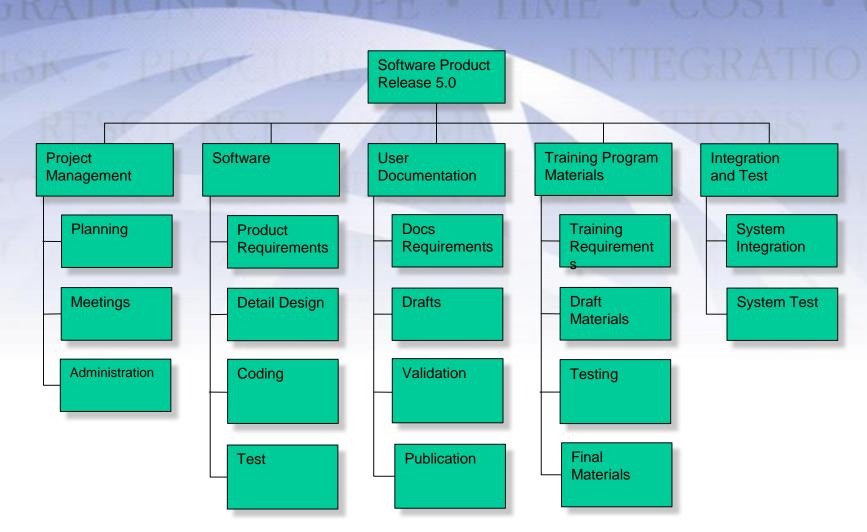


WBS for New Toy Project





WBS for Software Development Project





Criteria for a Successful WBS

- WBS must be broken down starting at the top
- Work packages must add up to the summary task
- Each summary task and work package must be named an activity that produces a product (use SMART Technique)





Criteria for a Successful WBS

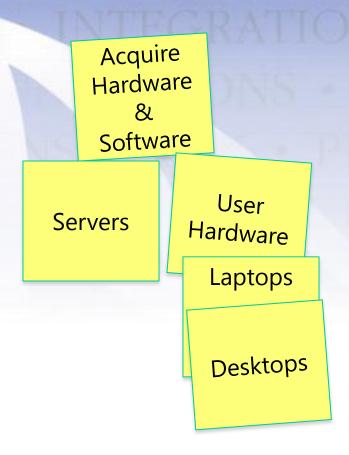
Specific

Measurable

Achievable

Relevant

Time-bound





Approaches to Developing WBS

- Guidelines: Some organizations, provide guidelines for preparing WBS.
- Analogy approach: Review WBS of similar projects and tailor to your project.
- **Top-down approach**: Start with the largest items of the project and break them down.
- Bottom-up approach: Start with the specific tasks and roll them up.
- Mind-mapping approach: Write tasks in a non-linear, branching format and then create the WBS structure.



End of Presentation



