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Planning Activities: Fig.3.9 [Hoffer2011, p.55]

- 1. Project scope, alternatives, and feasibility
- 2. Division into manageable tasks: breakdown structure
- 3. Estimating resources: resource plan
- 4. Preliminary schedule
- 5. Communication plan
- 6. Project standards and procedures
- 7. Risks identification and assessment
- 8. Preliminary budget
- 9. Project scope statement
- 10. Baseline project plan

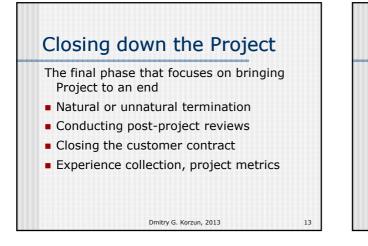
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Executing the Project

Putting the Baseline Project Plan into action

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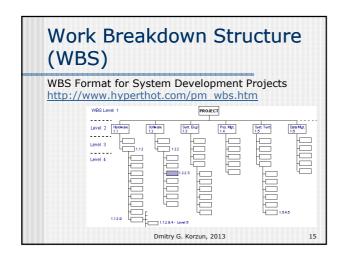
- Monitoring project progress
- Managing changes to the Plan
- Maintaining the Project Workbook
- Communicating the Project Status: Table 3.2 [Hoffer2011, p.63]

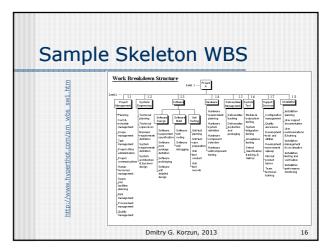


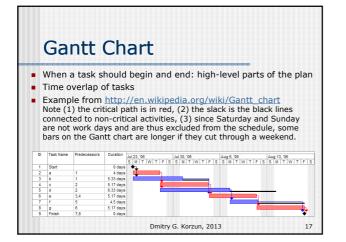
§2. Representing and Scheduling Project Plans

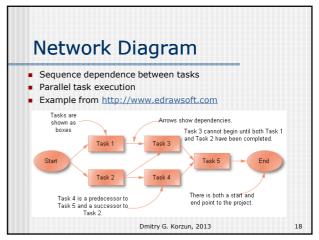
- Graphical or textual reports
- Gantt charts and network diagrams
- Cost control and estimation
 - Critical path method
- Program Evaluation and Review Technique (PERT)

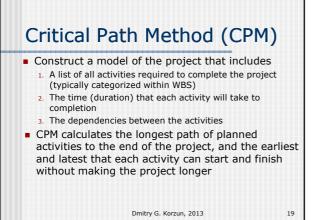
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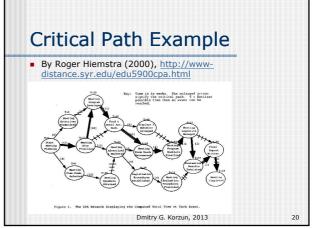












Expected Time Duration: PERT Method

- The Program (or Project) Evaluation and Review Technique (PERT) is a tool to analyze and represent the tasks involved in completing a given project
- The time needed to complete each task
- The minimum time needed to complete the total project

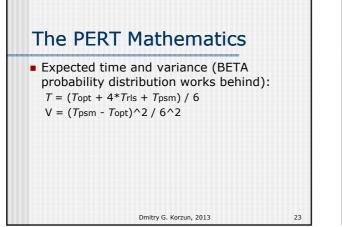
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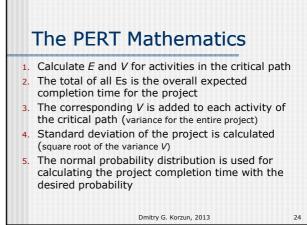
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Steps of PERT Method

- 1. Network diagram (activities, milestones, sequence)
- 2. Estimate Activity Times
 Optimistic time Topt: generally the shortest time in which
 - the activity can be completed
 Realistic (most likely) time *T*rls: the completion time having the highest probability
 - Pessimistic time Tpsm: the longest time that an activity might require
- 3. Determine the Critical Path
- 4. Apply in project management

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Risk Reduction through the System Life Cycle

 Hypothetical system development: risk decreasing, Fig. 5.3 [Kossiakoff2011, p.121]

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