

Project Planning & Control

Lesson 4

Gantt / Bar Chart - History, Representation, Progress Monitoring, Uses, Steps to draw a Bar Chart

Koshy Varghese, Ph.D.

Professor

Building Technology & Construction Management

Department of Civil Engineering

I.I.T. Madras





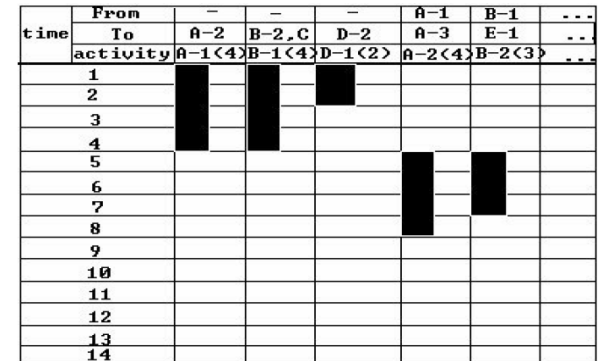
Learning Objectives



- Gantt Charts
 - History
 - Representation
 - Alternatives
 - Monitoring
 - Exercise
 - Demo - Spreadsheet

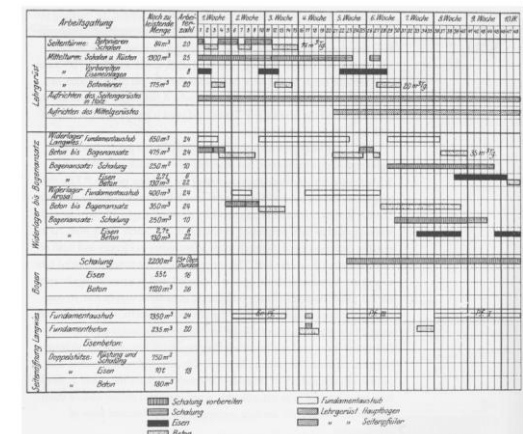


- **Karol Adamiecki**, 1890's- Polish engineer
 - ran a steel works in southern Poland
 - interested in management ideas and techniques.



Adamiecki's Harmonygraph

- **Henry Gantt**: Around 1910 (Some 15 years after Adamiecki)
 - American engineer and management consultant,
 - Worked with Frederick Taylor
 - Used for production in WW-1
 - Planning of Hoover dam & Interstate highways

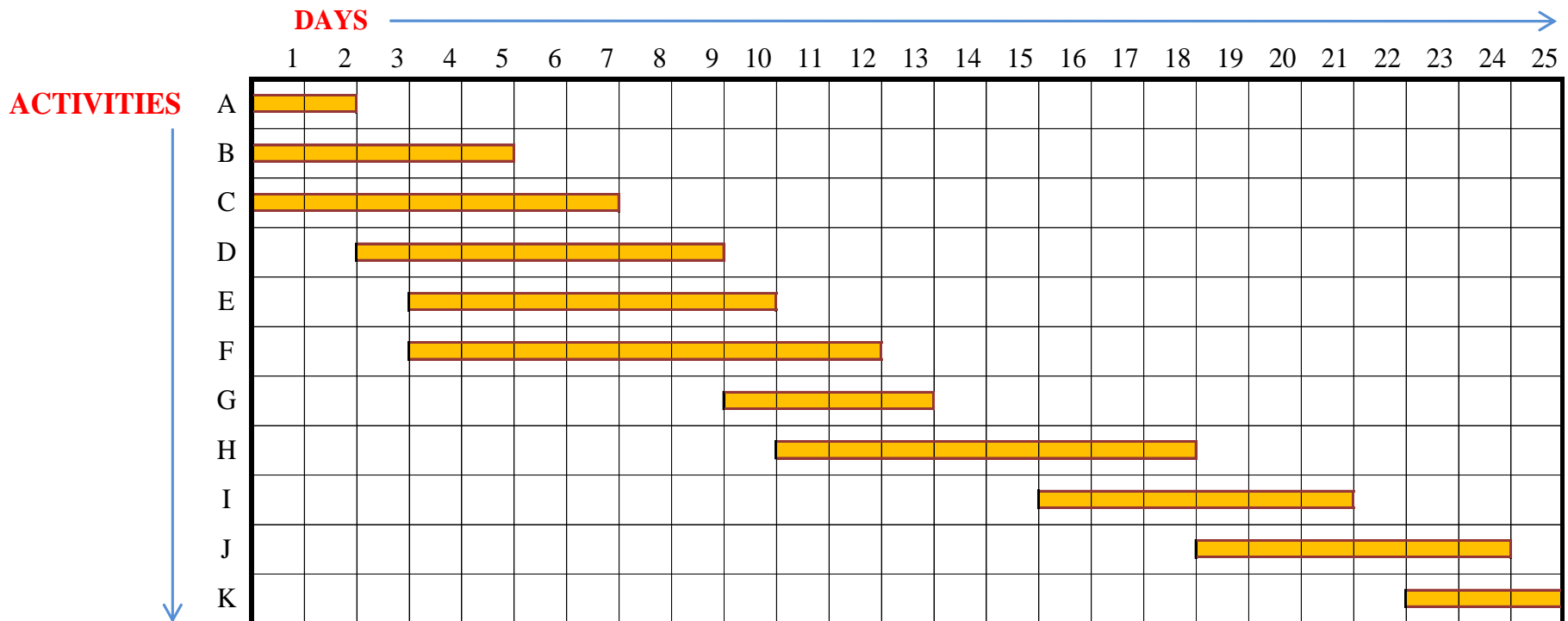




Representation

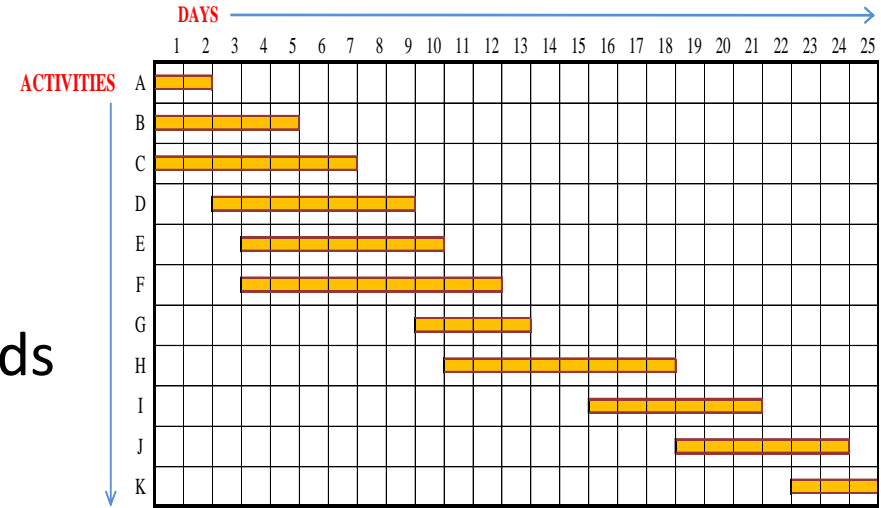


- One of the most popular and useful ways of showing activities (tasks or events) displayed against time
- On the **left** of the chart is a **list of the activities** and along the **top** is a **suitable time scale**
- Each **activity** is represented by a **bar**; the position and length of the bar reflects the start date, duration and end date of the activity.





What does Gantt chart show you??



- What the various activities are
- When each activity begins and ends
- How long each activity is scheduled to last
- Activities to be performed on a given day
- Where activities overlap with other activities, and by how much
- The start and end date of the whole project



Non-Continuous Activities

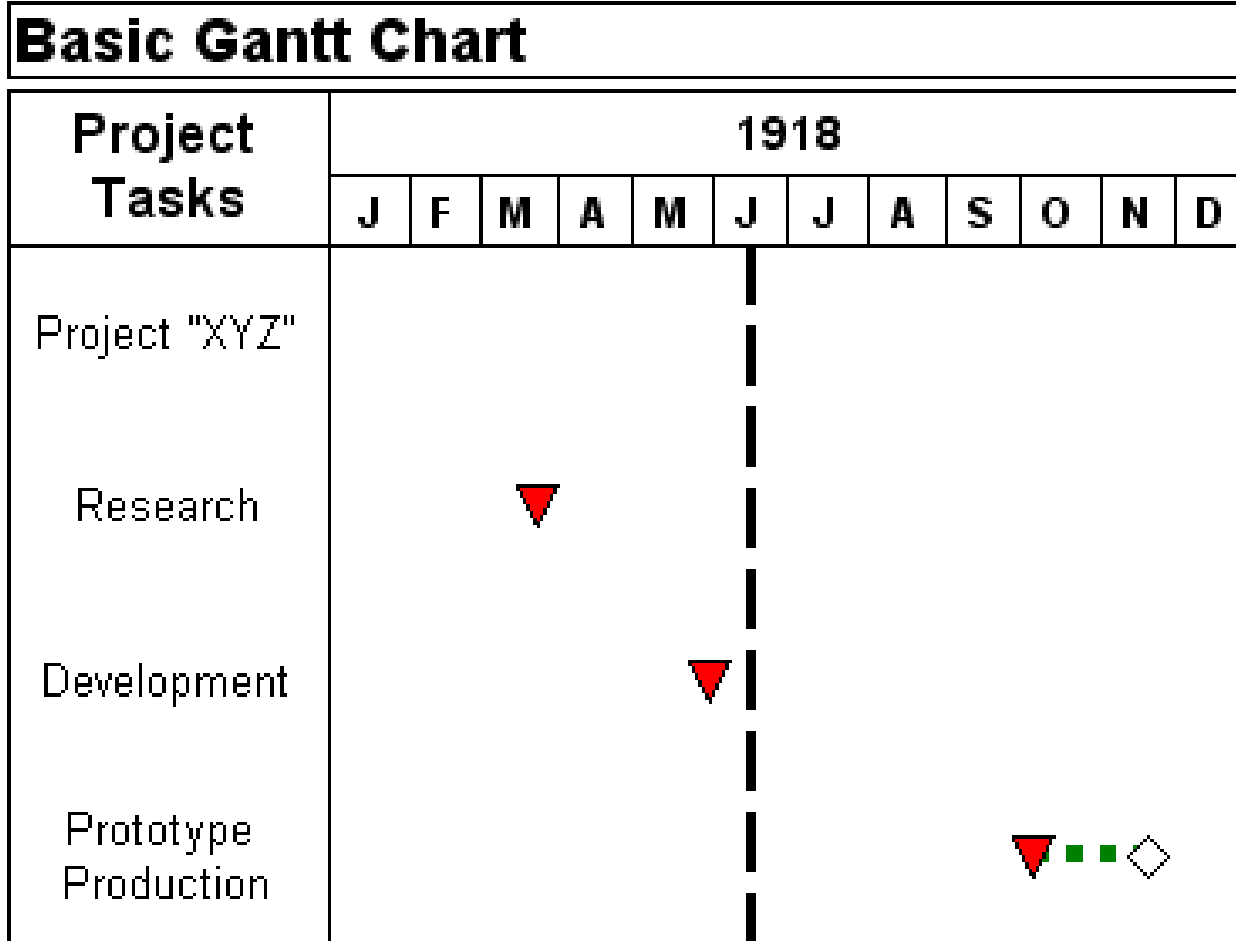


	Days						
Activities	1	2	3	4	5	6	7
A							
B							

	Days						
Activities	1	2	3	4	5	6	7
A							
B							



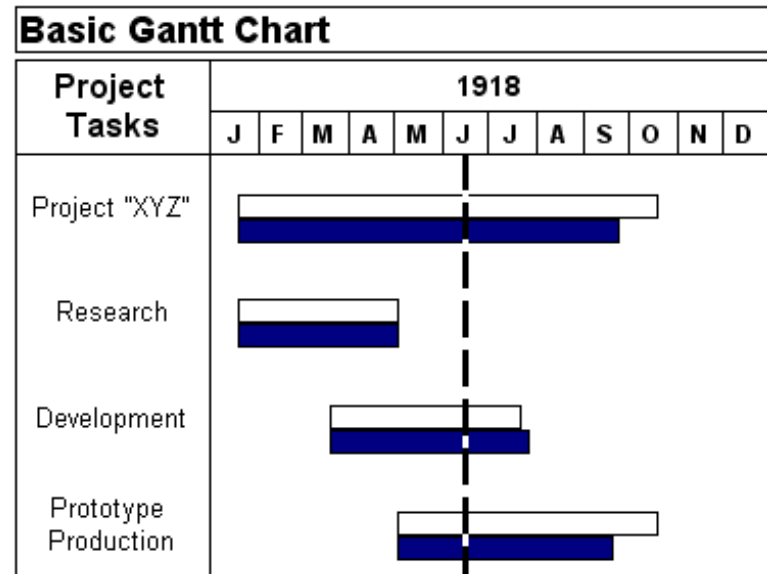
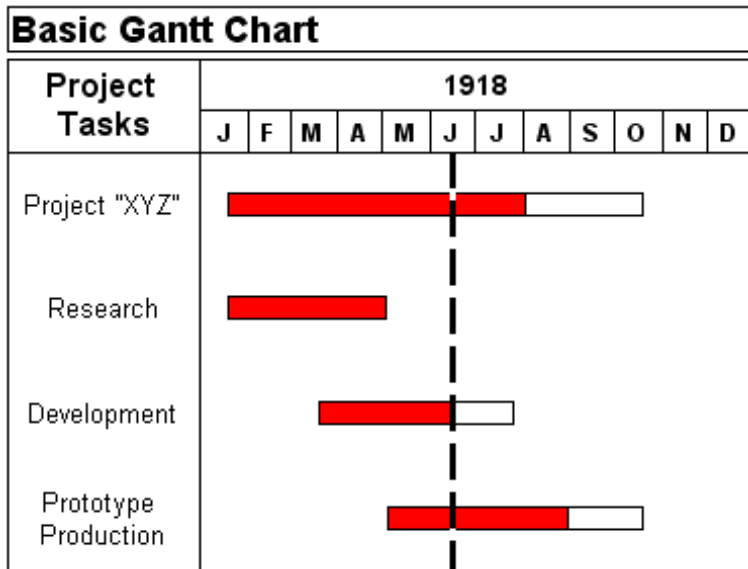
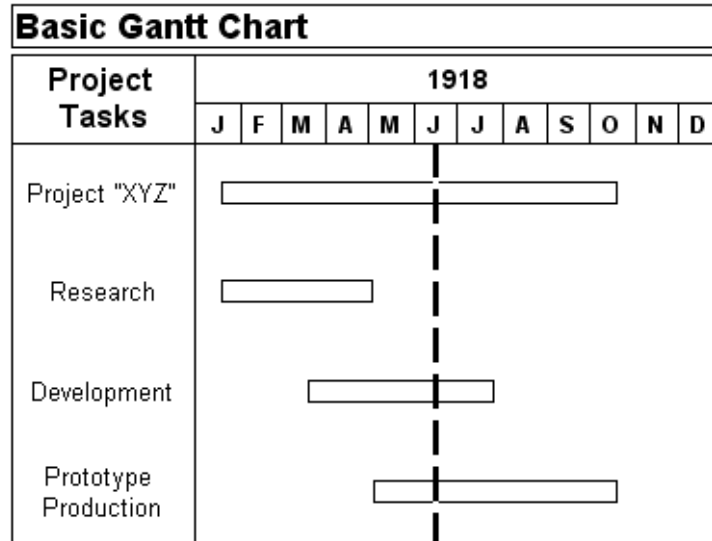
Milestones Chart



Source: <http://www.ganttchart.com/Evolution.html>



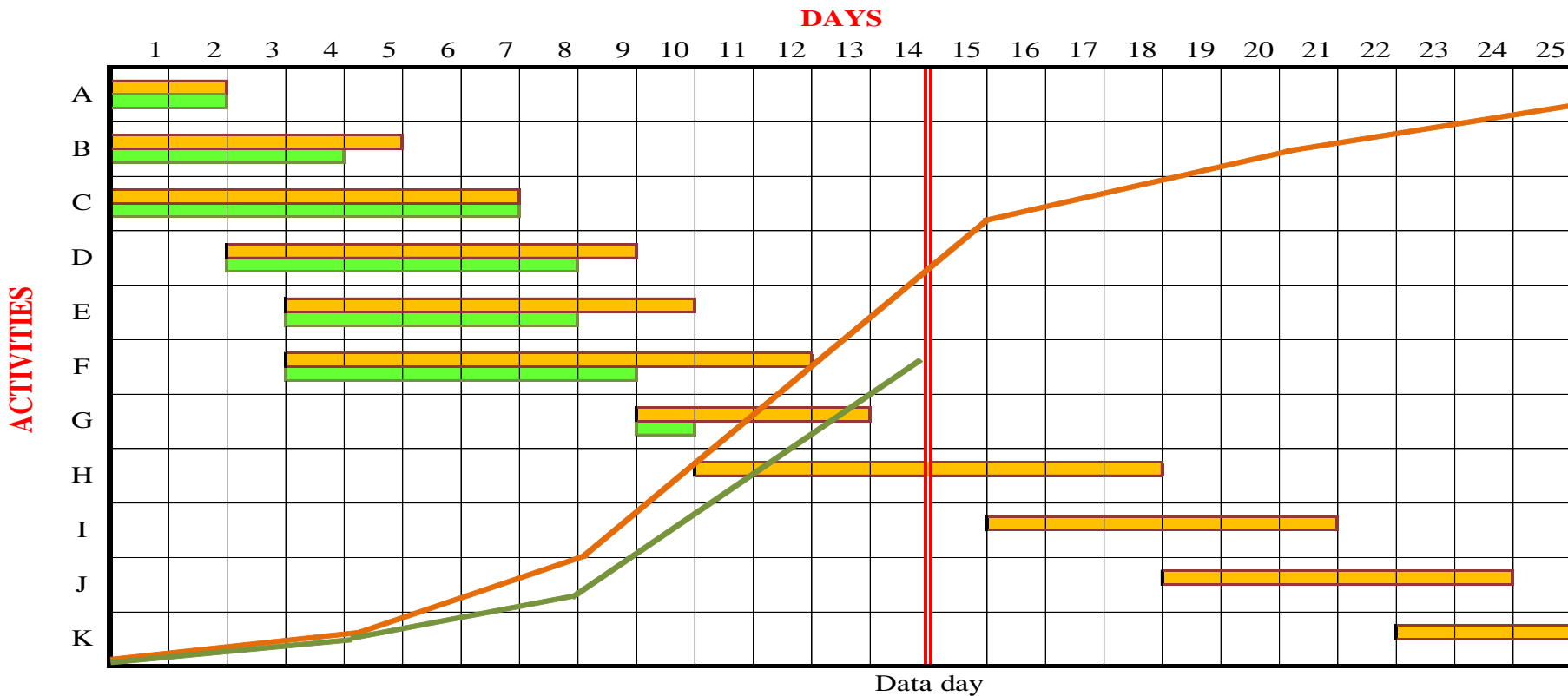
Progress Monitoring



Source: <http://www.ganttchart.com/Evolution.html>



Progress Monitoring





STEPS TO DRAW GANTT CHART

