



Tracking How Well are We Doing

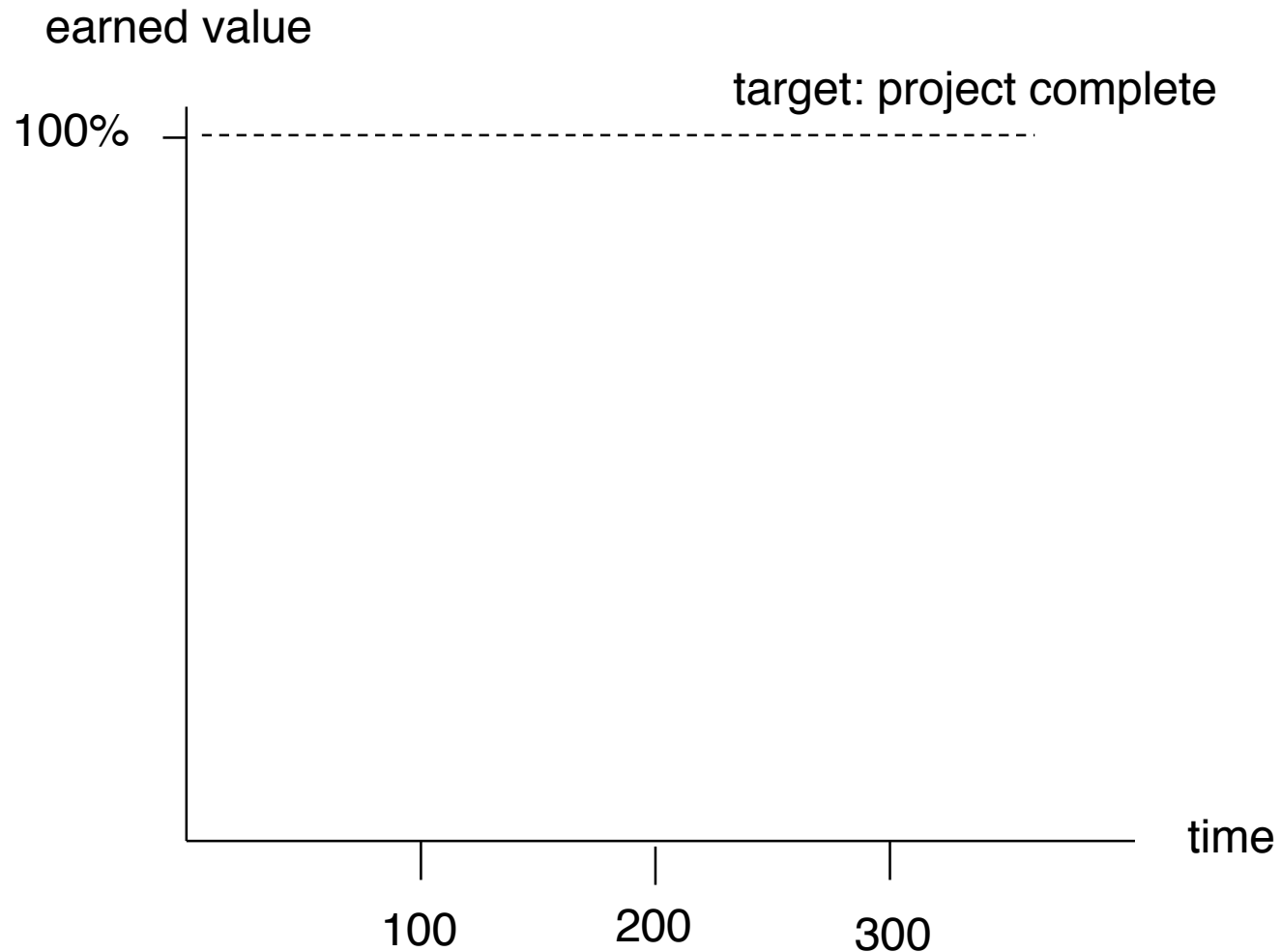
# Earned-Value Tracking Method/Chart

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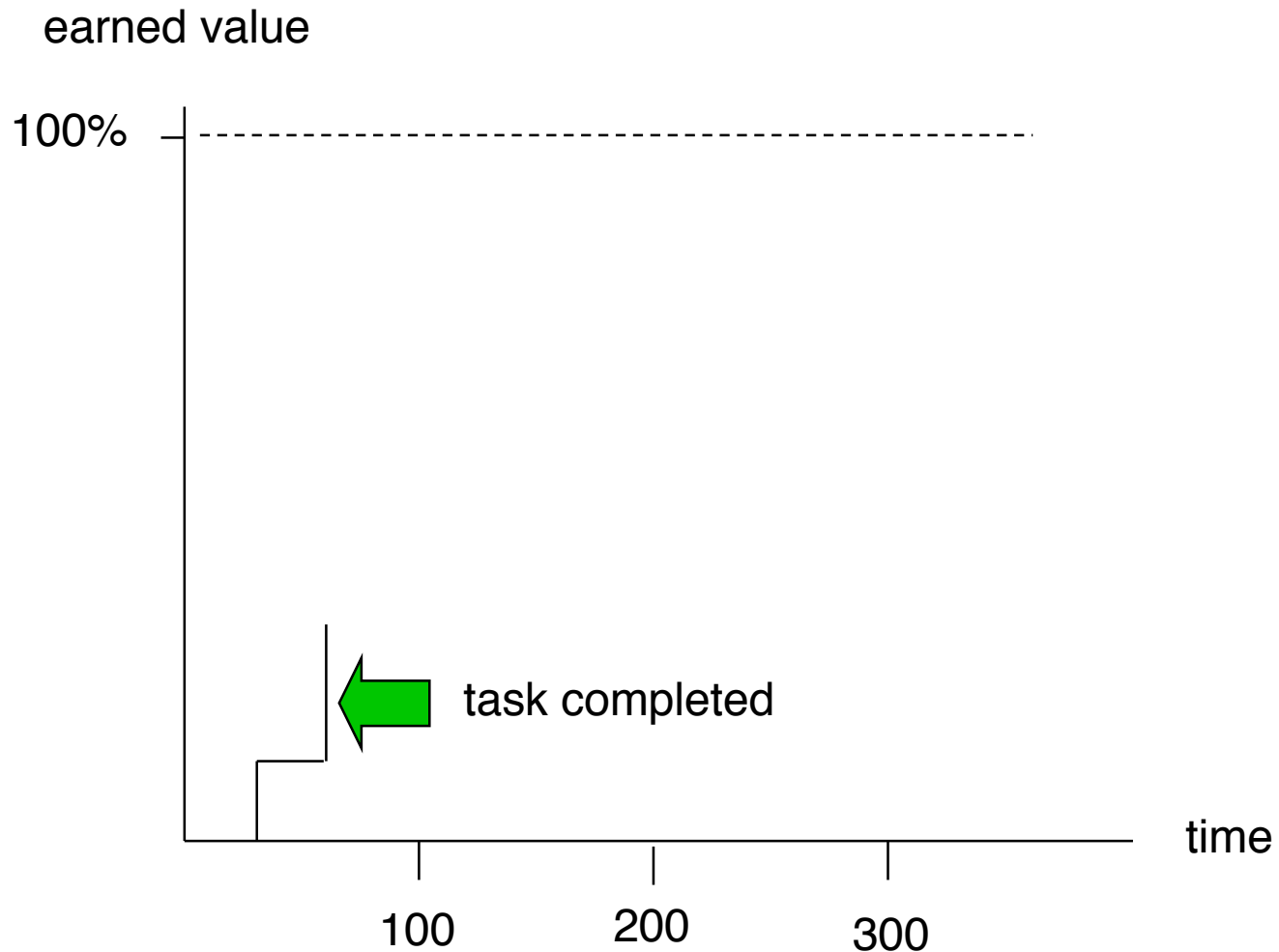
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- One way to track how close to “done” the project is:
  - As key parts of a product are **completed**, the product “earns value”.
  - Express earned value in % of total value or \$ (= % x budgeted amount for task)
  - Some variations allow **partial credit**, others don't.

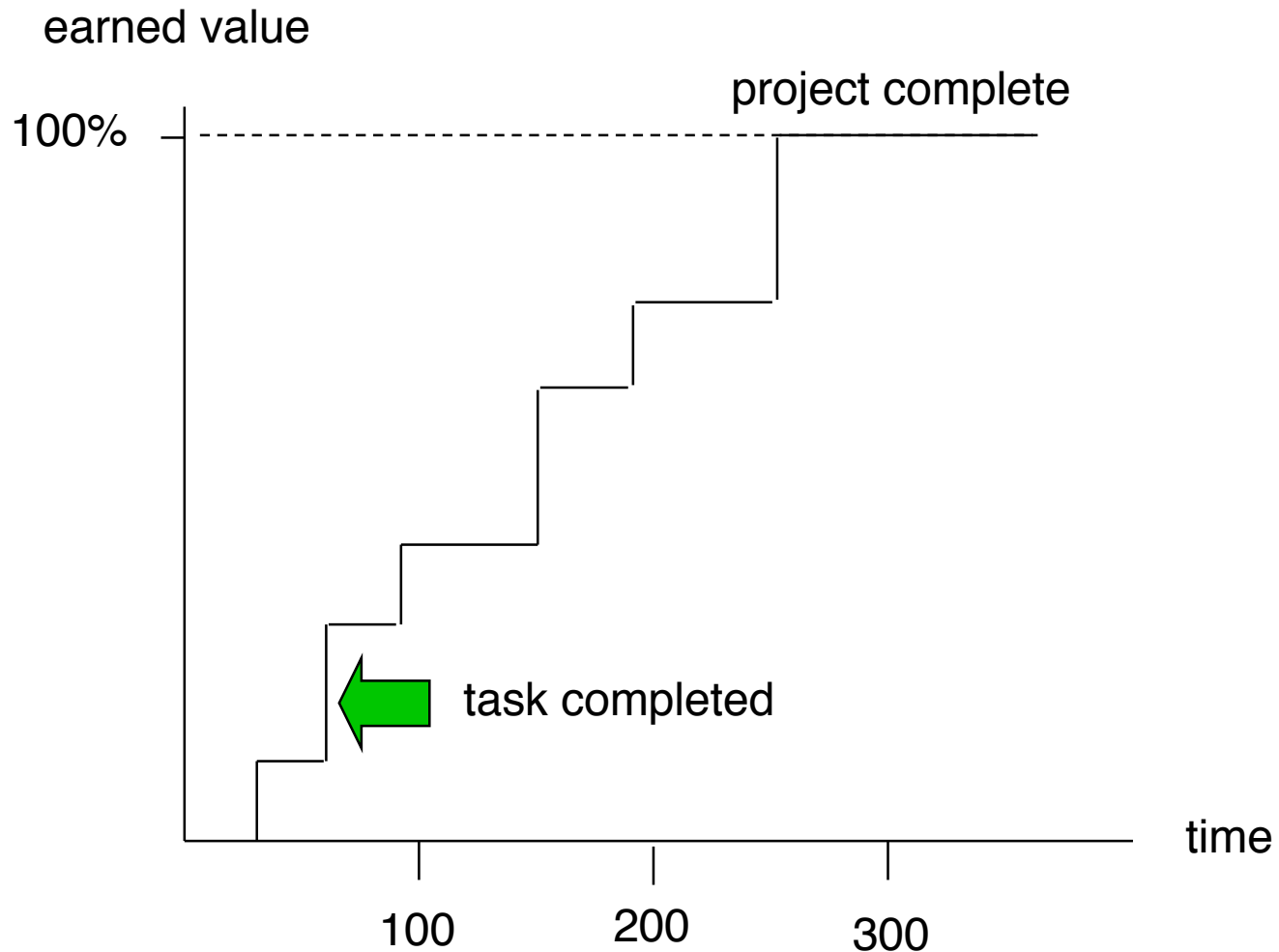
# Earned Value vs. Time



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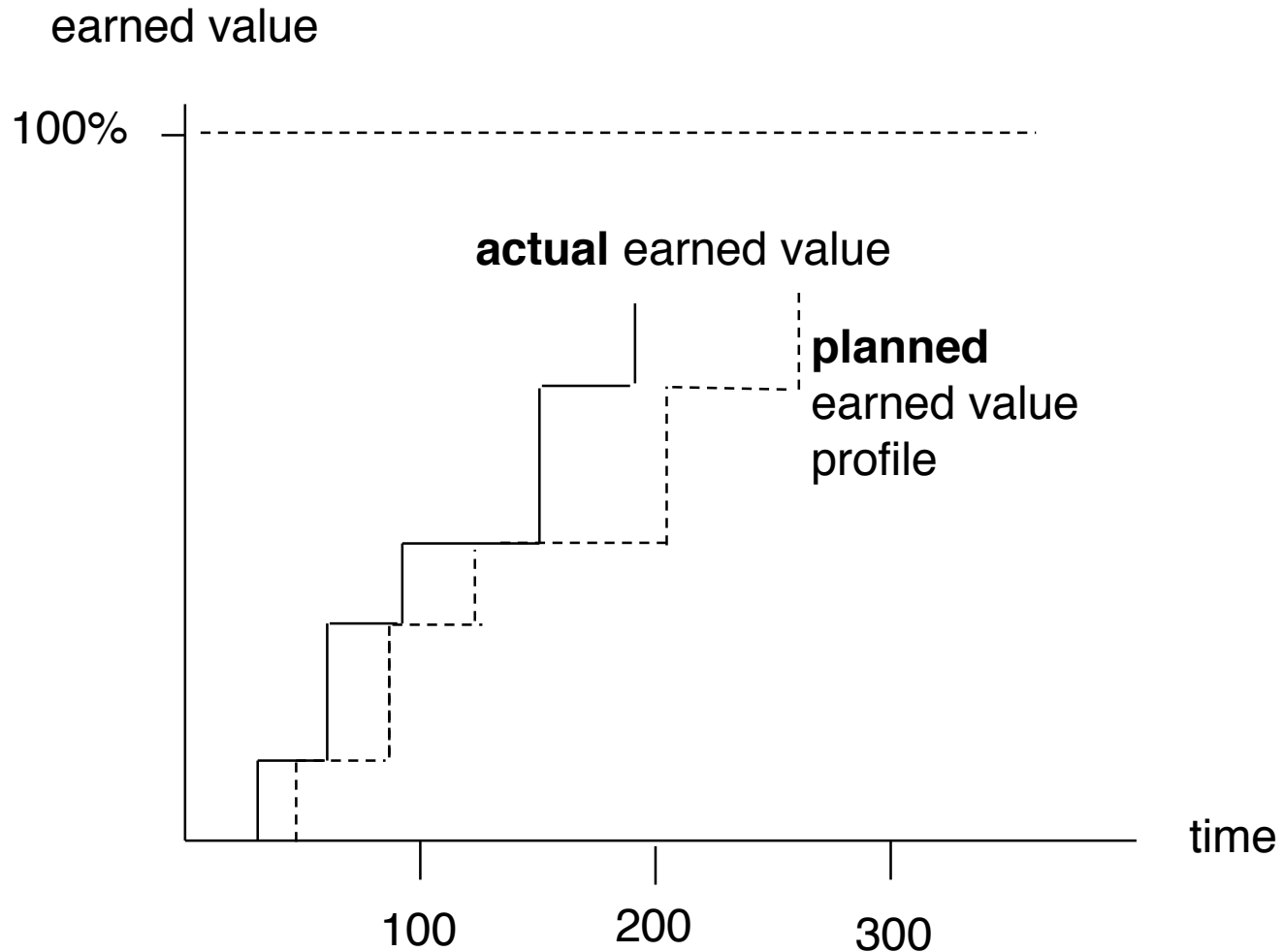
# Use of Earned Value Diagram

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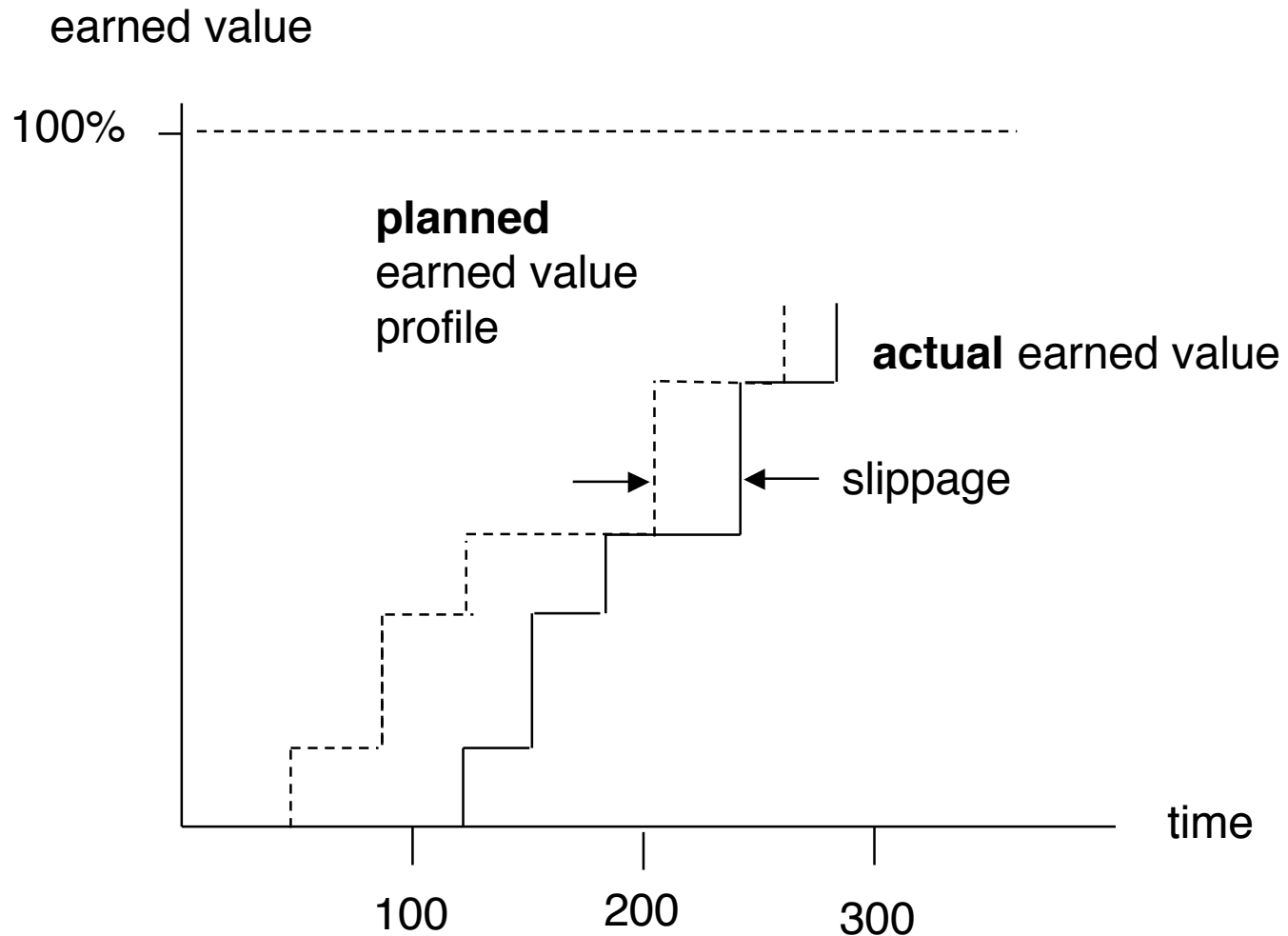
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- Based on project Gantt chart, create a profile **plan** of earned value
- Track **actual** earned value against plan
- Use **discrepancies** to make projections about delivery dates, cost, etc.

# Project Ahead of Schedule



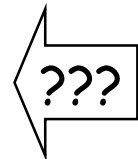
# Project Behind Schedule



# Earned Value with sub-tasks in \$ (% x budget)

## Earned Value Calculation Example

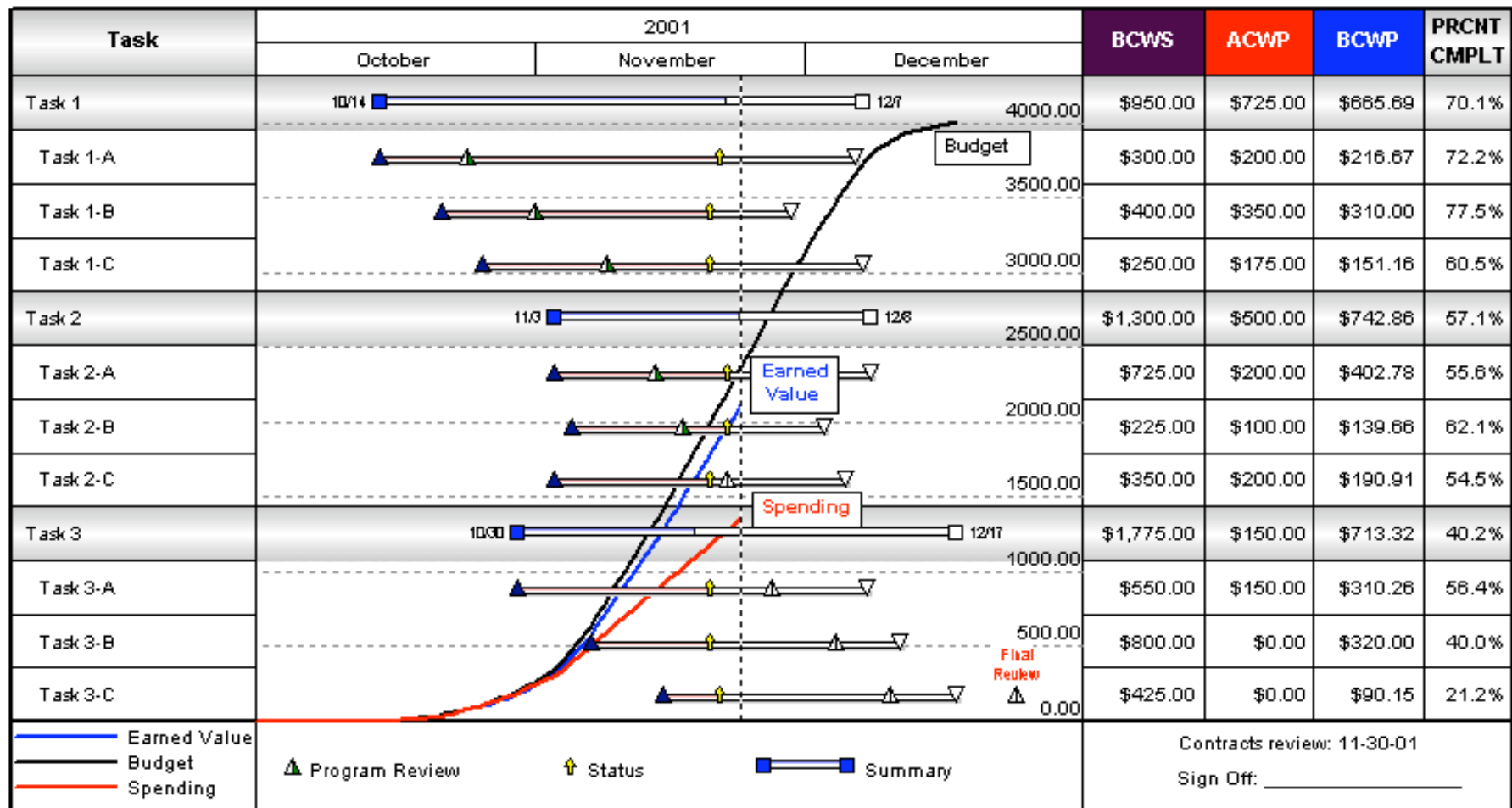
Task	2000												Budget	Percent Complete	Earned Value
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
Task 1														100.0%	\$0.00
Task 1-1													\$333.00	100.0%	\$333.00
Task 1-2													\$444.00	100.0%	\$444.00
Task 1-3													\$555.00	100.0%	\$555.00
Task 1-4													\$55.00	100.0%	\$55.00
Task 2														80.1%	\$0.00
Task 2-1													\$434.00	100.0%	\$434.00
Task 2-2													\$333.00	65.0%	\$216.45
Task 2-3													\$111.00	100.0%	\$111.00
Task 2-4													\$333.00	50.0%	\$166.50
Task 3														56.7%	\$0.00
Task 3-1													\$444.00	70.0%	\$310.80
Task 3-2													\$5,555.00	67.5%	\$3,747.
Task 3-3													\$666.00	37.0%	\$246.42
<b>BUDGET</b>															



# Example Gantt Chart with Earned Value Overlay

(source: <http://www.kidasa.com/information/solutions/evalue/index.html>)

## Contract Review Earned Value Report



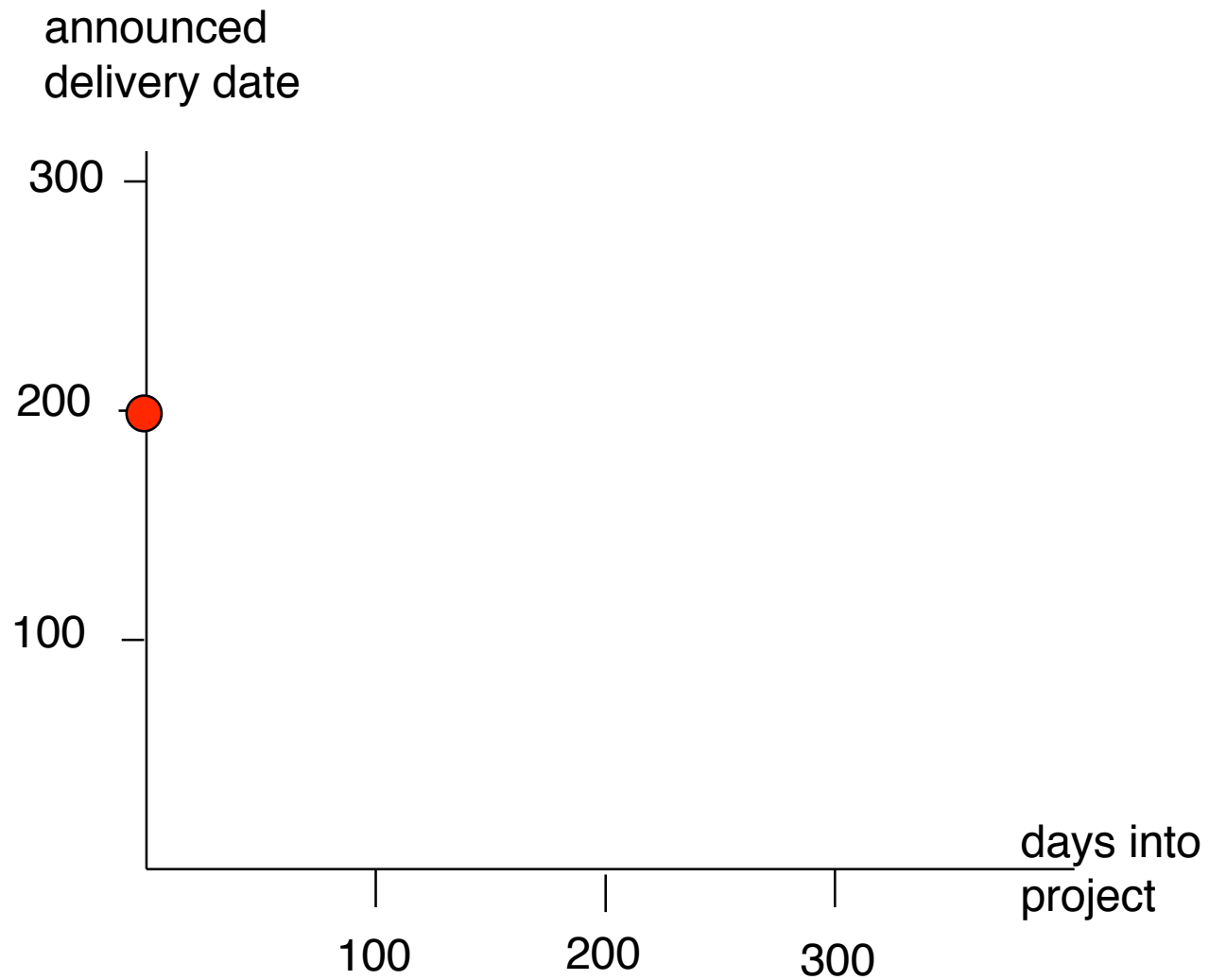
# Implication of Slippage

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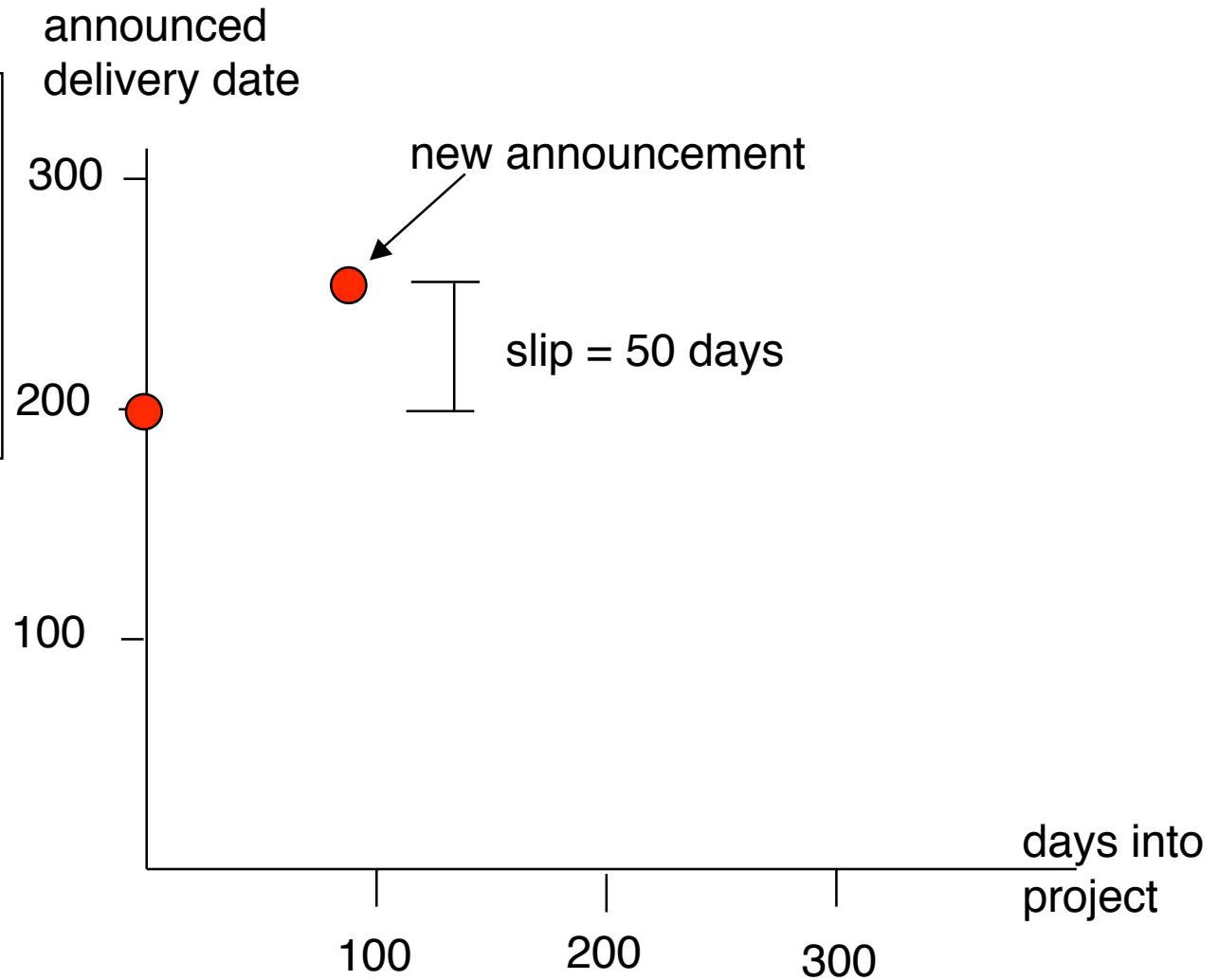
- Slippage in earned value may imply slippage in delivery date,  
  
especially if the slipped task is on the critical path.

# Slip Chart

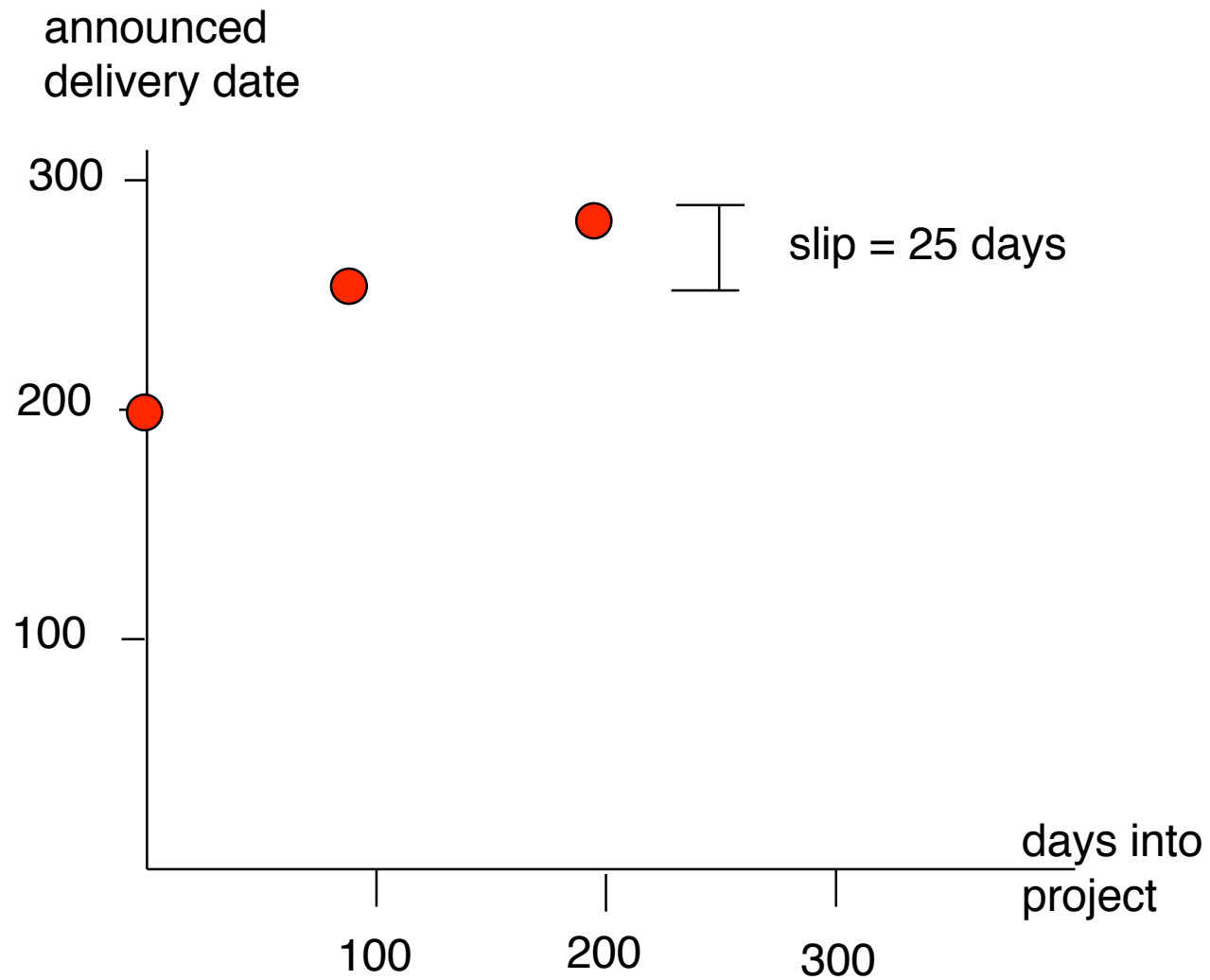


# Slip Chart

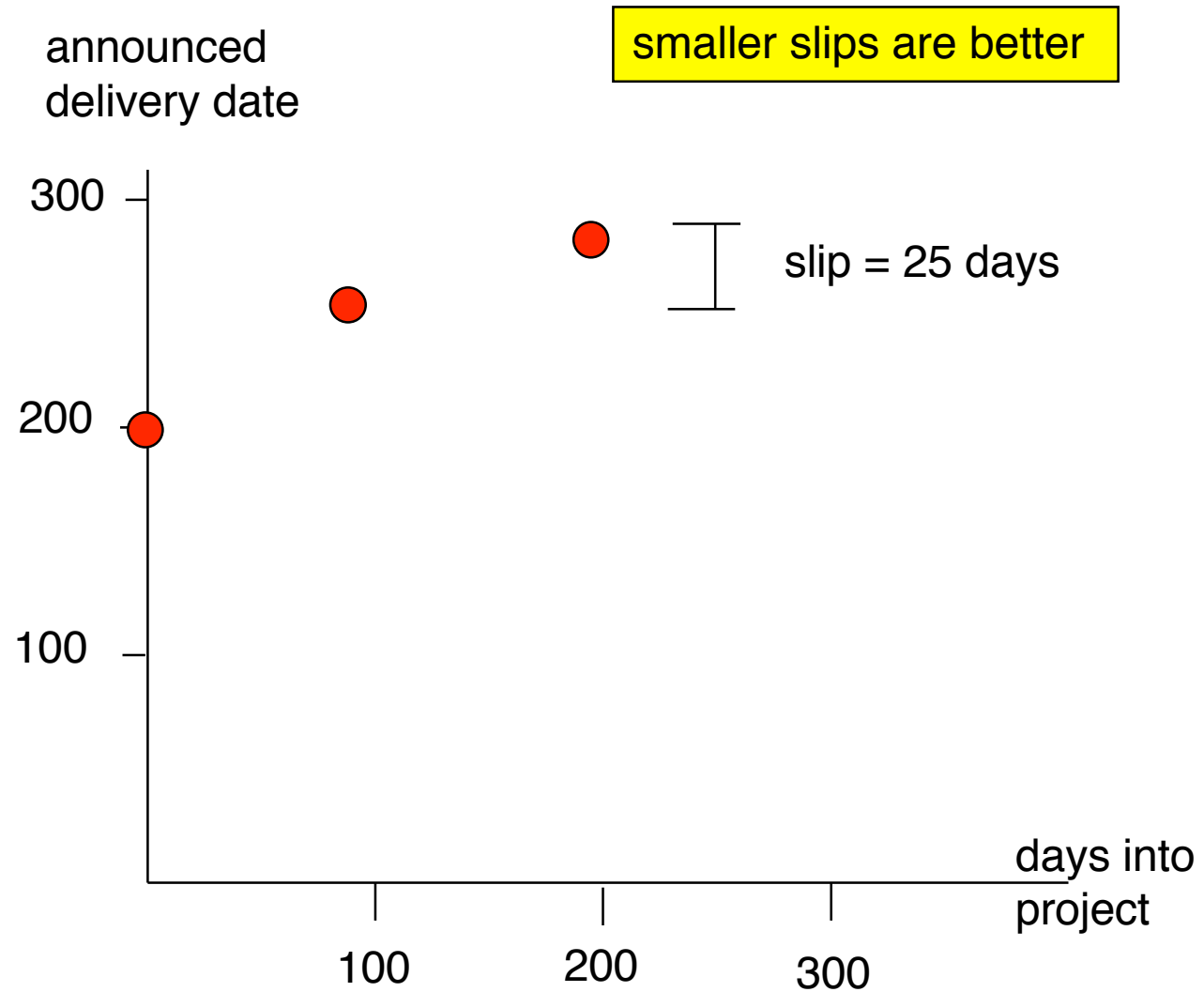
slip = delivery date  
minus  
previously announced  
delivery date



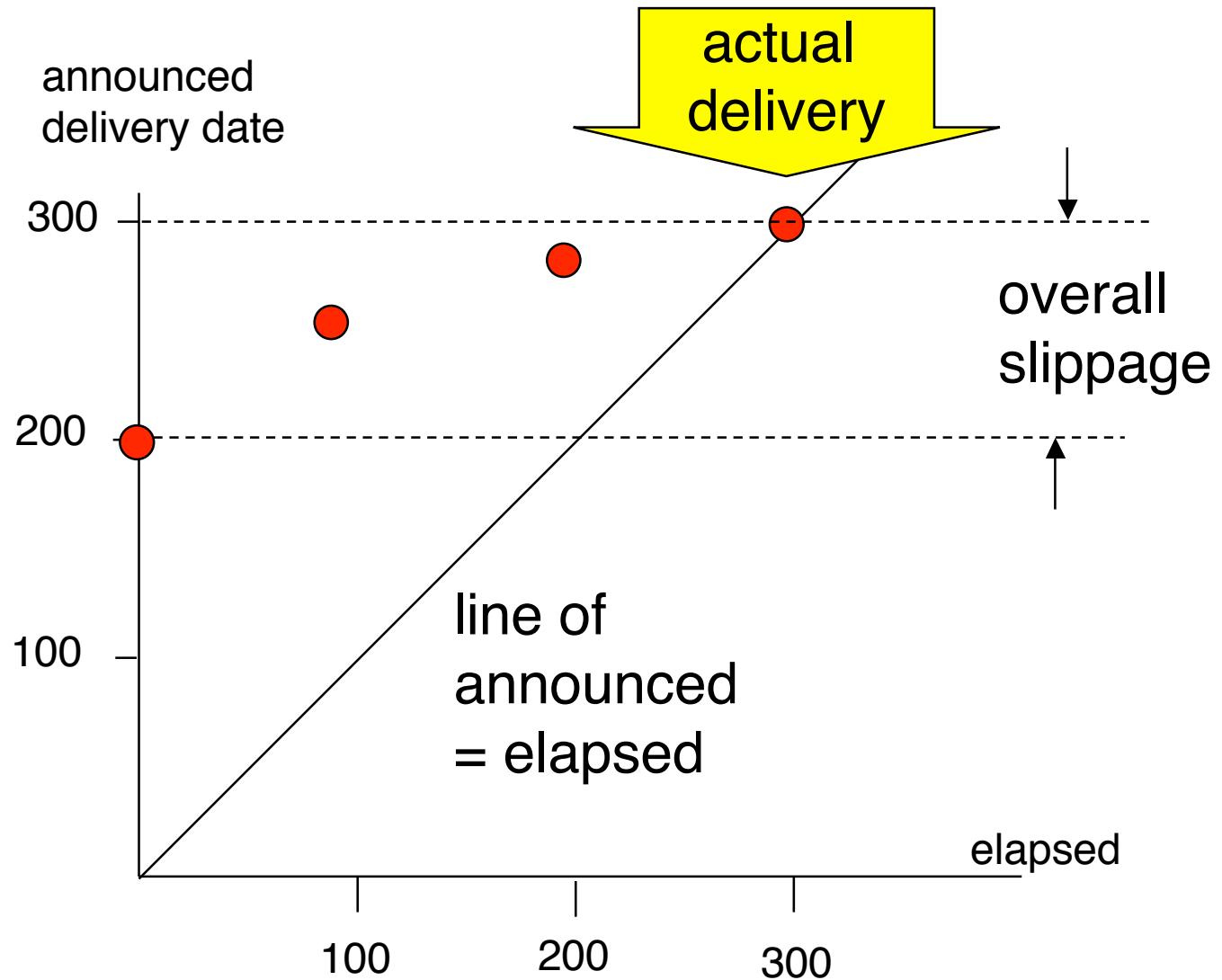
# Slip Chart



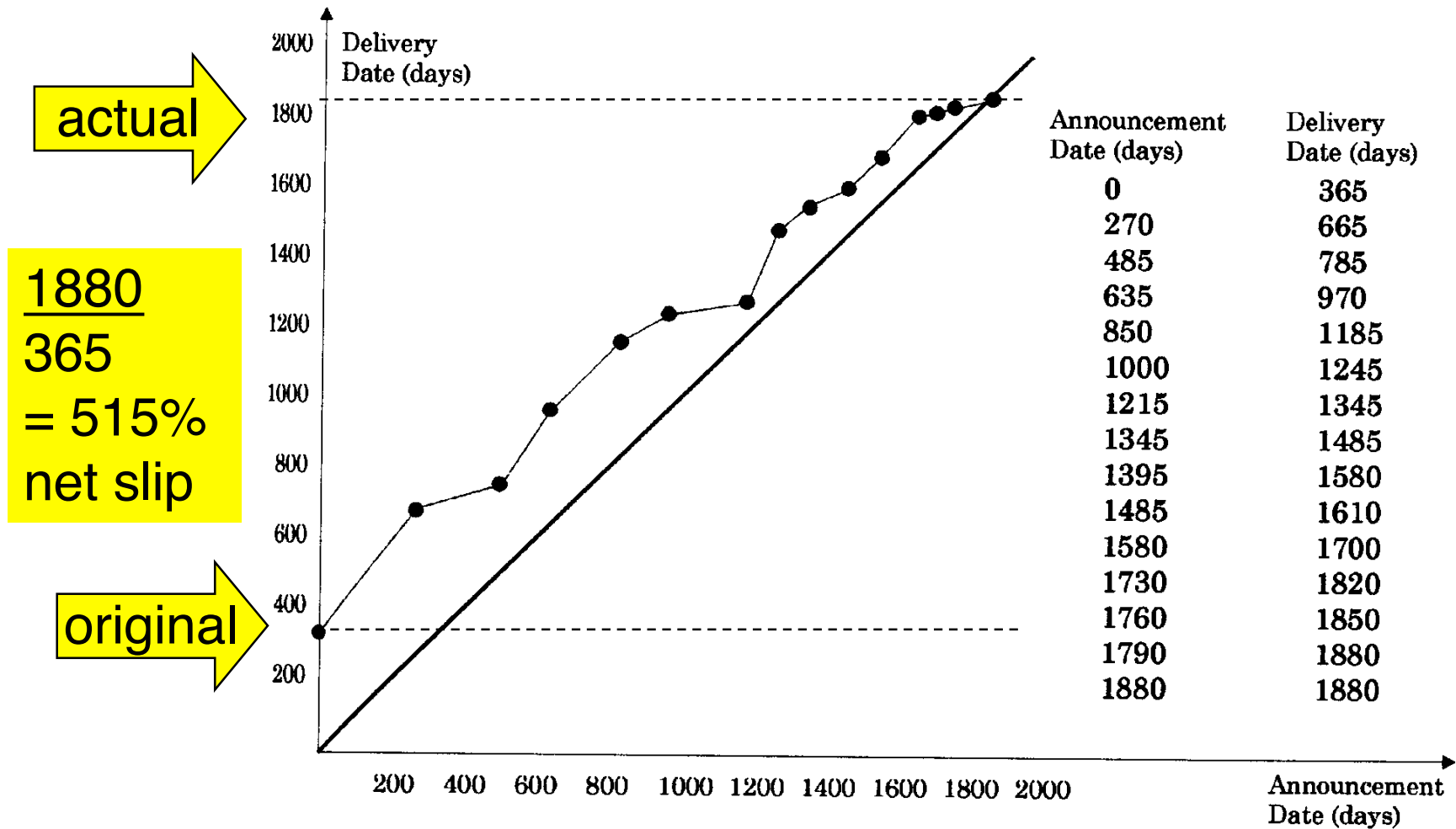
# Slip Chart



# Slip Chart



# Word for Windows 1.0 Slip



source: Dwayne Phillips, The software project manager's handbook, IEEE, 1998.

# Slip vs. Lead

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- slip = delivery date  
minus  
previously announced delivery date
- lead = previously announced delivery date  
minus  
date on which new delivery announced

# Example of Lead

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- lead = previously announced delivery date  
minus  
date on which new delivery announced
- Example:
  - Original delivery date = day 200
  - On day 100 announce new delivery date:  
day 300: *moderate lead*

# Example of Lead

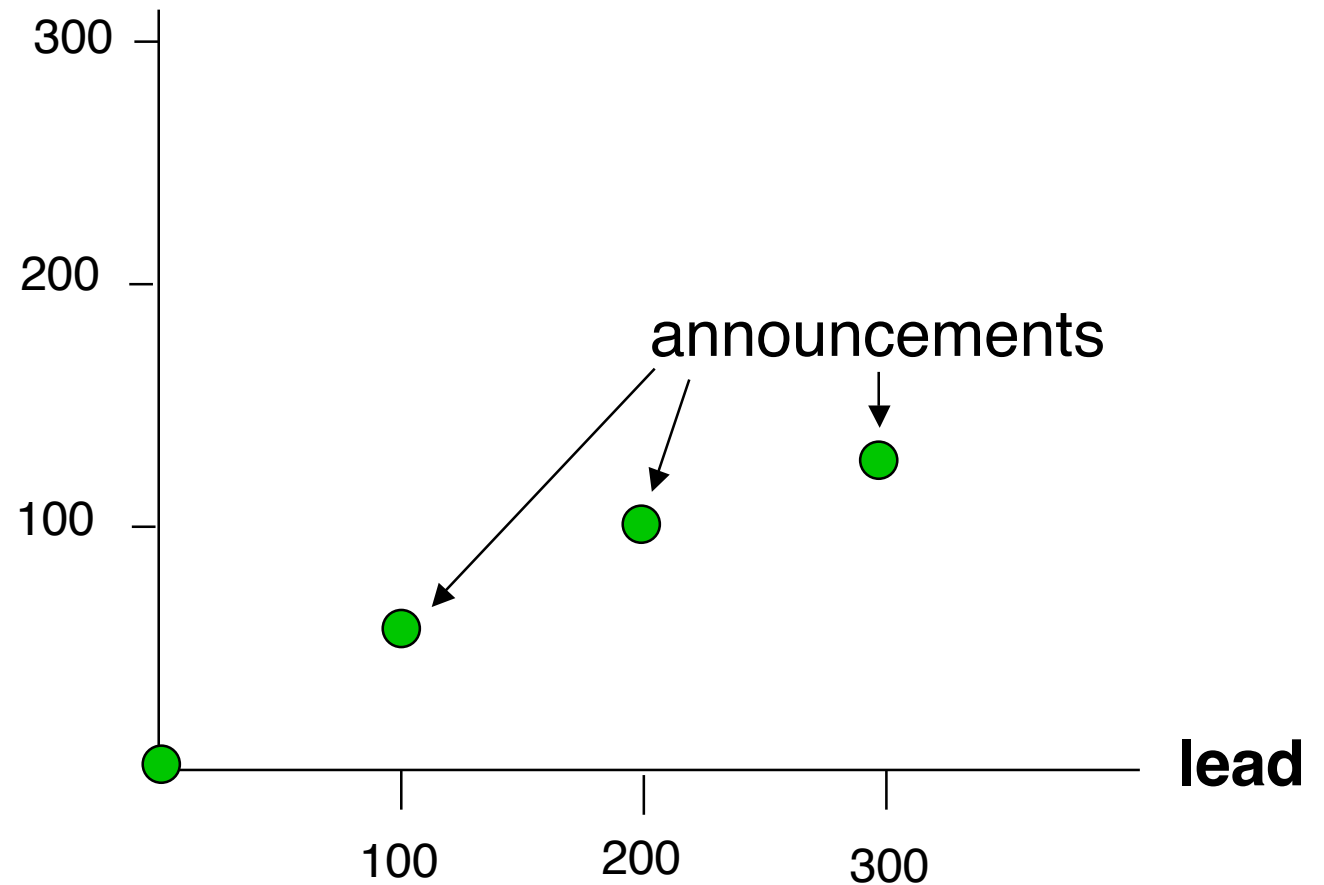
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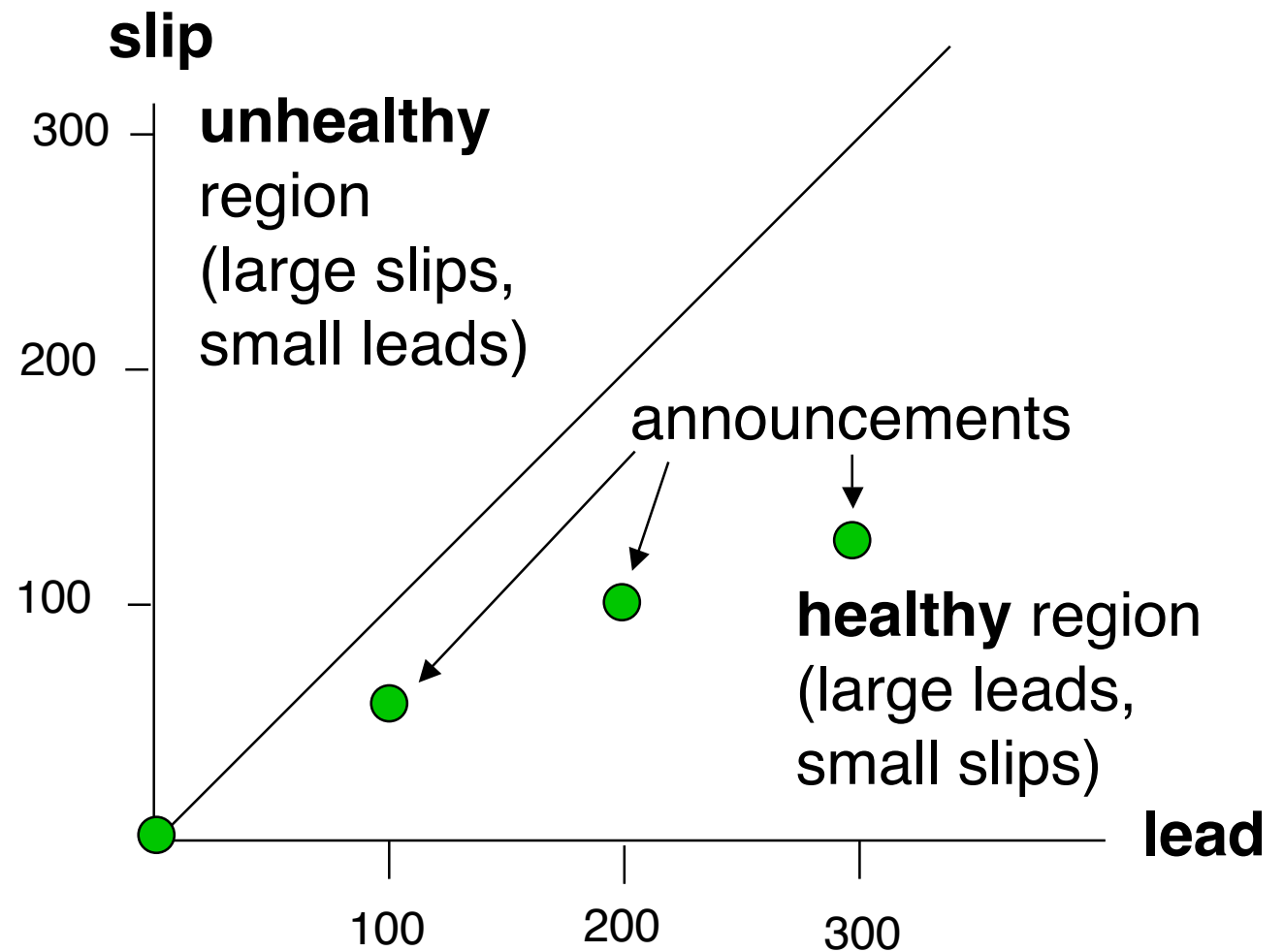
- lead = previously announced delivery date  
minus  
date on which new delivery announced
- Original delivery date = day **200**
- On day **195** announce new delivery date:  
day 300:      very **small lead**
- **Small leads are bad** (but small slips are good)

# Slip-Lead Chart (plots slips vs. leads)

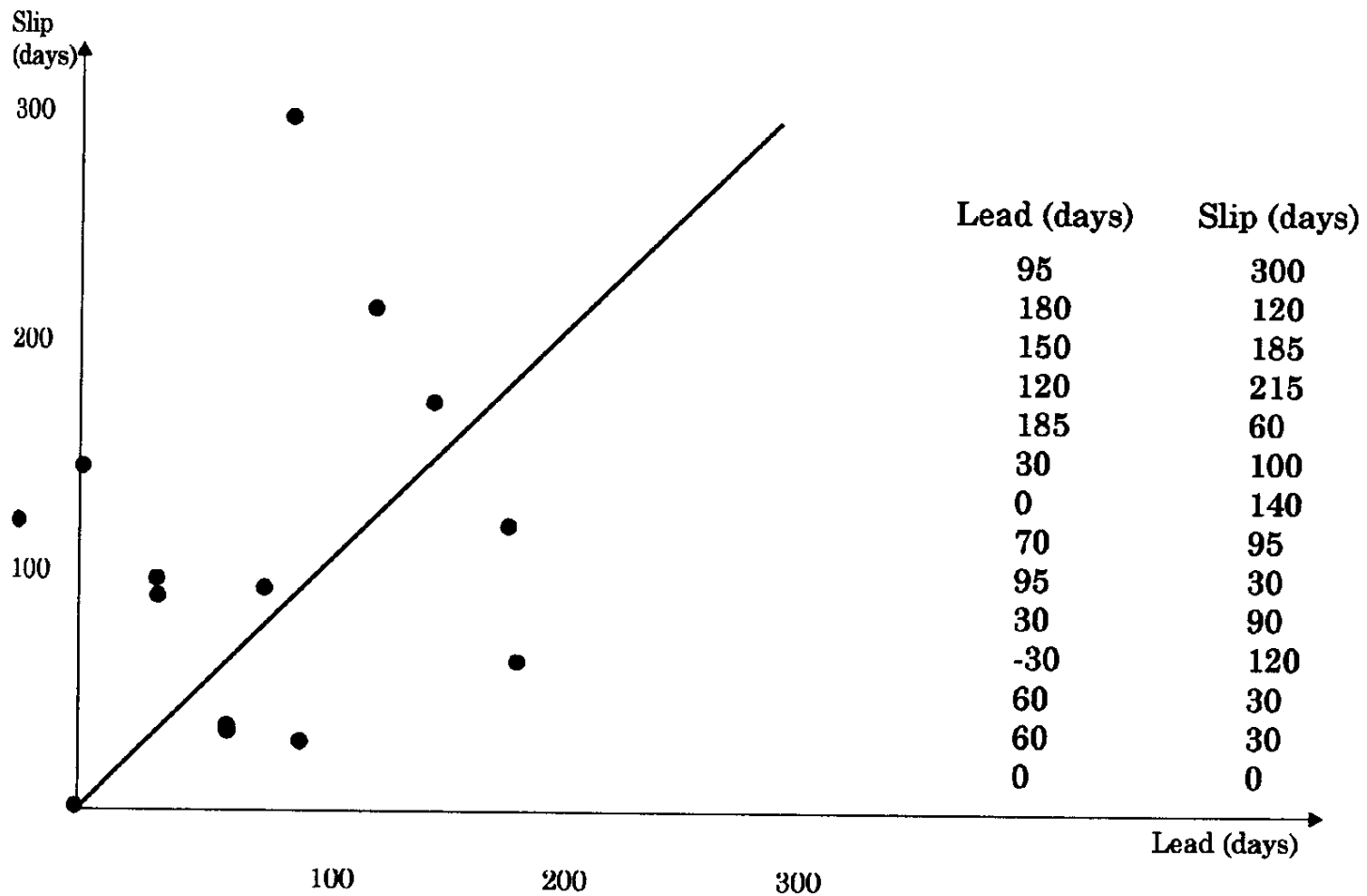
slip



# Slip-Lead Chart (plots slips vs. leads)



# Word for Windows 1.0 Slip/Lead



source: Dwayne Phillips, The software project manager's handbook, IEEE, 1998.