

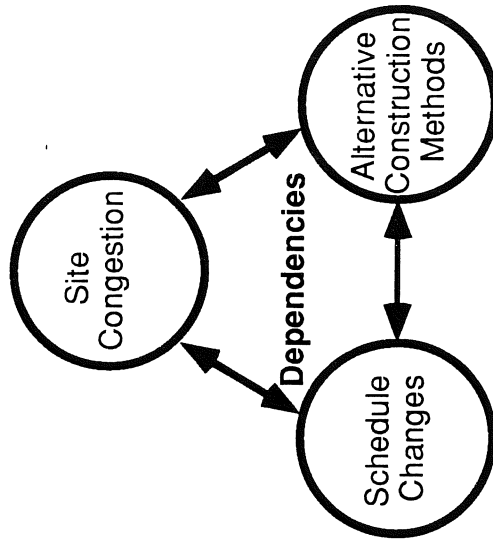
# MovePlan: Allocating Space During Scheduling

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## Motivation:

- Traditional computerized planning and layout tools are stand-alone systems.
- Existing layout algorithms construct a single layout for the entire project duration.
- Space interacting with time is a resource that must be planned for.
- Computers augment human tasks by keeping track of positions, so layouts need not be static.



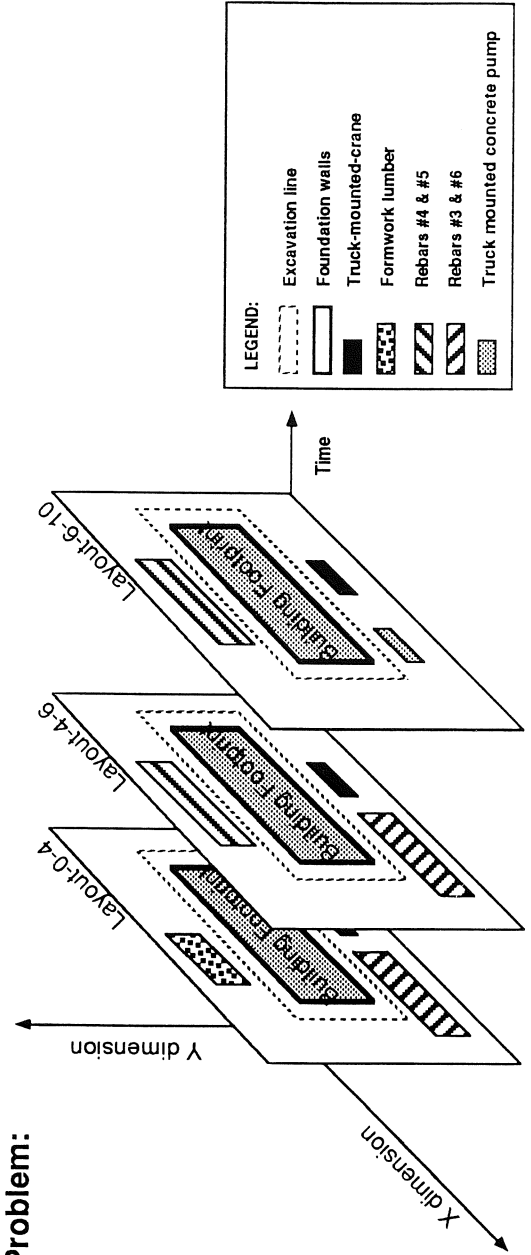
## MovePlan Research:

- Product:**  
 Develop an interactive graphical support tool to help:  
 • Construct an activity schedule.  
 • Depict resource use over time.  
 • Construct different layouts for different time spans.
- Assumptions:**  
 • Resource on site for activity ES to EF  
 • Resource positions may differ in different time spans.
- Features:**  
 • User selects layout time span.  
 • MovePlan only permits time spans that extend over consistent layouts.  
 • MovePlan positions resources located in time-overlapping layouts and user positions other resources.  
 • User may change positioned resources if MovePlan can maintain consistency over affected layouts.

## Goals:

- Enable planners to consistently construct layouts changing over time.
- Assess viability of integrated layout-scheduling.
- Use MovePlan as a knowledge acquisition tool.
- Use knowledge gained from field practitioners for developing future extensions.

## Problem:



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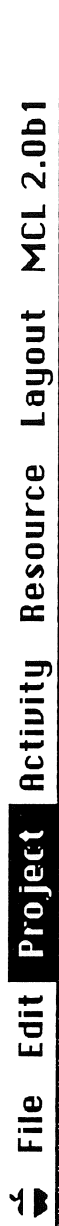
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## Implementation:

object-oriented language  
 Macintosh Common Lisp 2.0

## Moveplan Menubar:



## MovePlan Input:

**Project**

Project Name:   
 Site Dimensions:   
 Space Units:   
 Start Date:   
 Time Units:

**New Activity**

Description:   
 Duration:   
 Predecessors:   
 Resources:

**New Resource**

Description:   
 Dimensions:

## Moveplan Output:

