







#### INVESTMENTS IN EDUCATION DEVELOPMENT

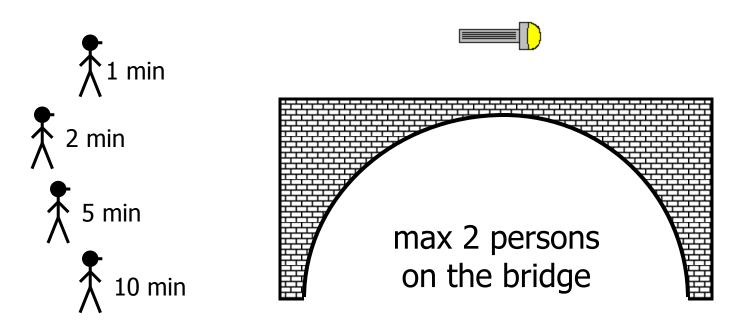
# TOC = Theory of Constraints

Critical Chain
Projects with Floating Objectives
Double-level management of Programs
and Portfolios

#### Individual work

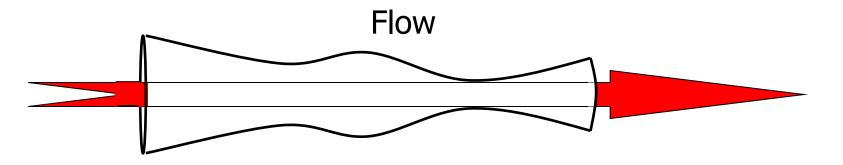
- Who will be the first?
- And with the right answer?

# The Quickest Pass Over an Old Bridge



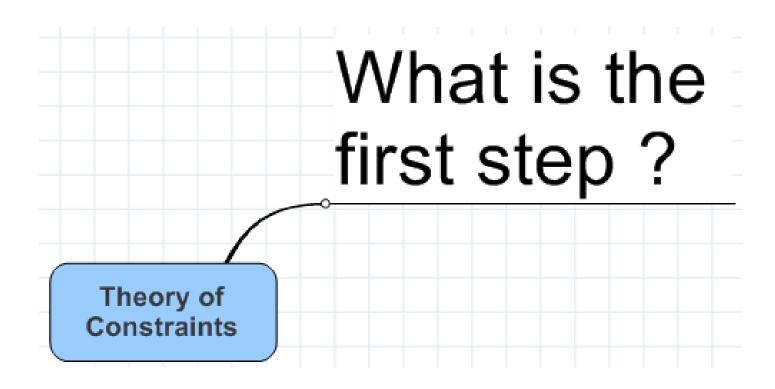
In what order the wayfarers have to go to reach next bank in the shortest time interval? End: All of them are on the next bank.

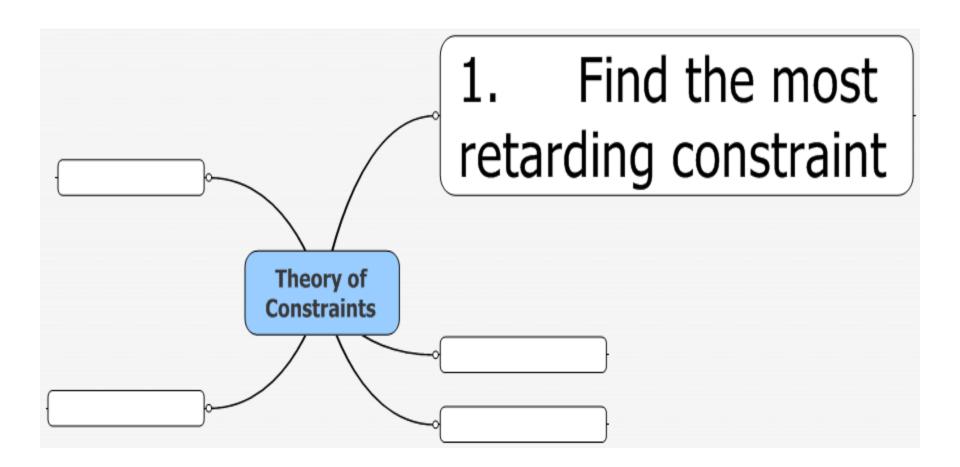
# Theory of Constraint



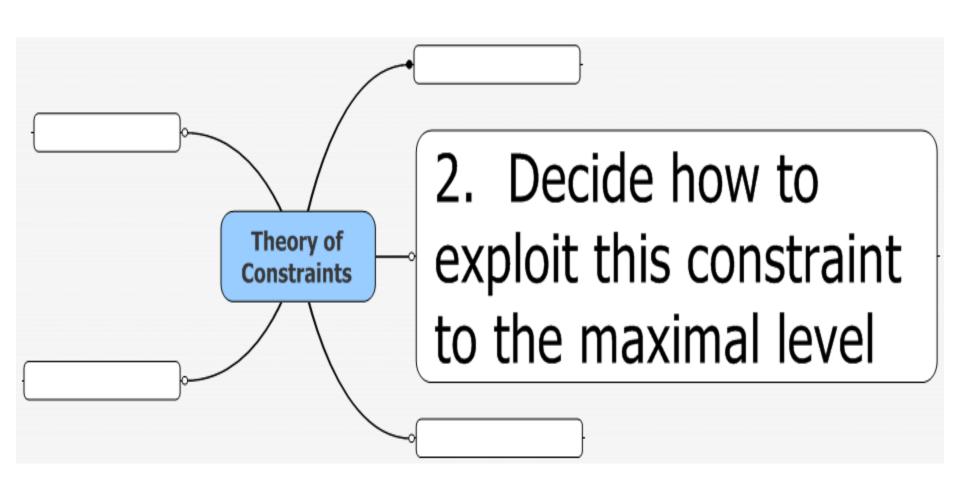
Flow is a criterion according to which the one place within the possible solution space is chosen, which is "most retarding".

Effective investments – quick benefit.

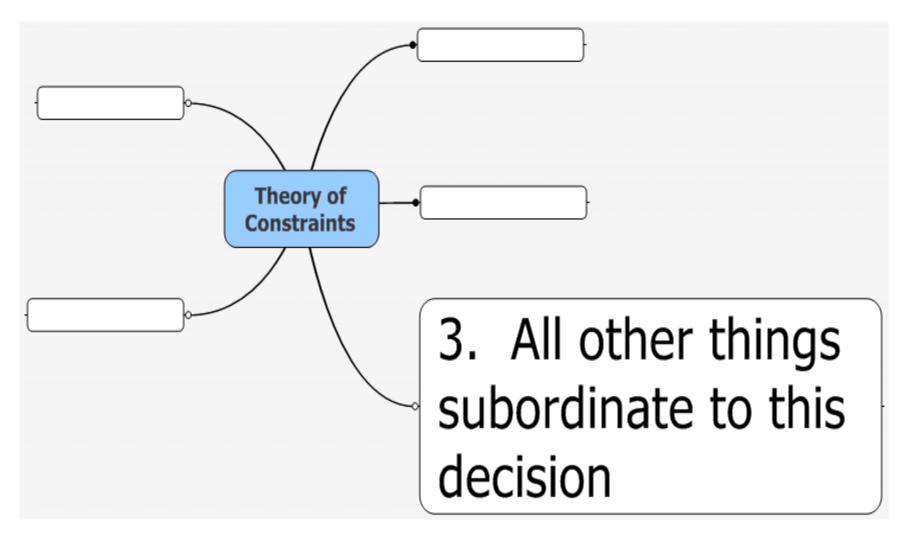




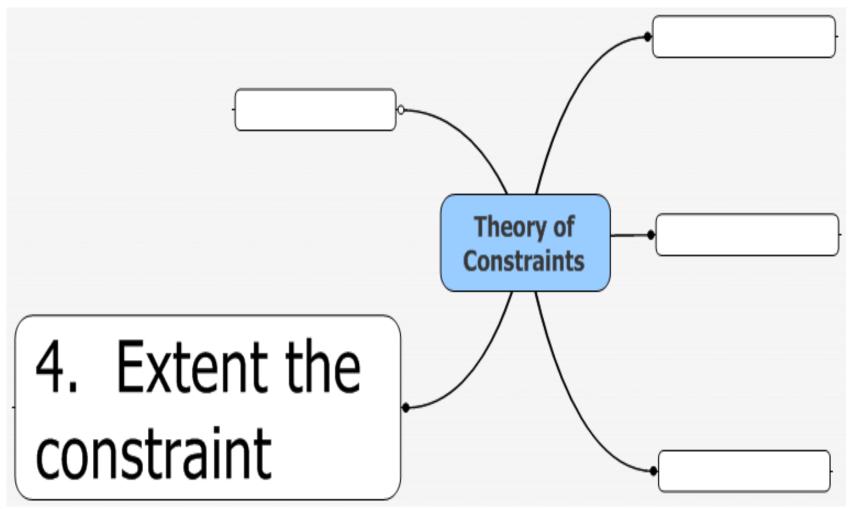
What is the second step?



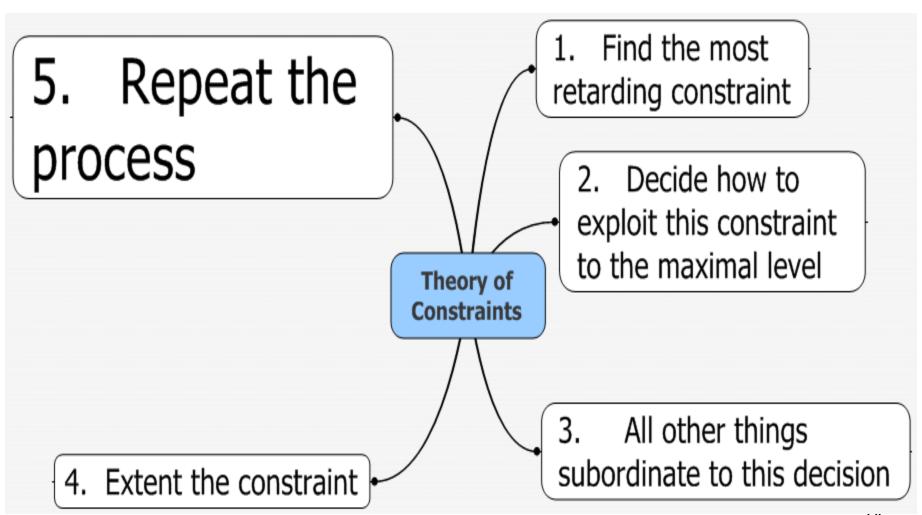
What is the third step?



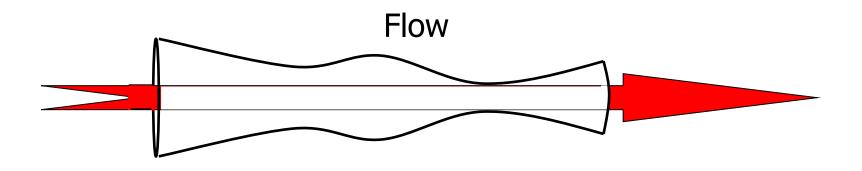
What is the fourth step?



What is the fifth step?



### TOC – think of it over this picture

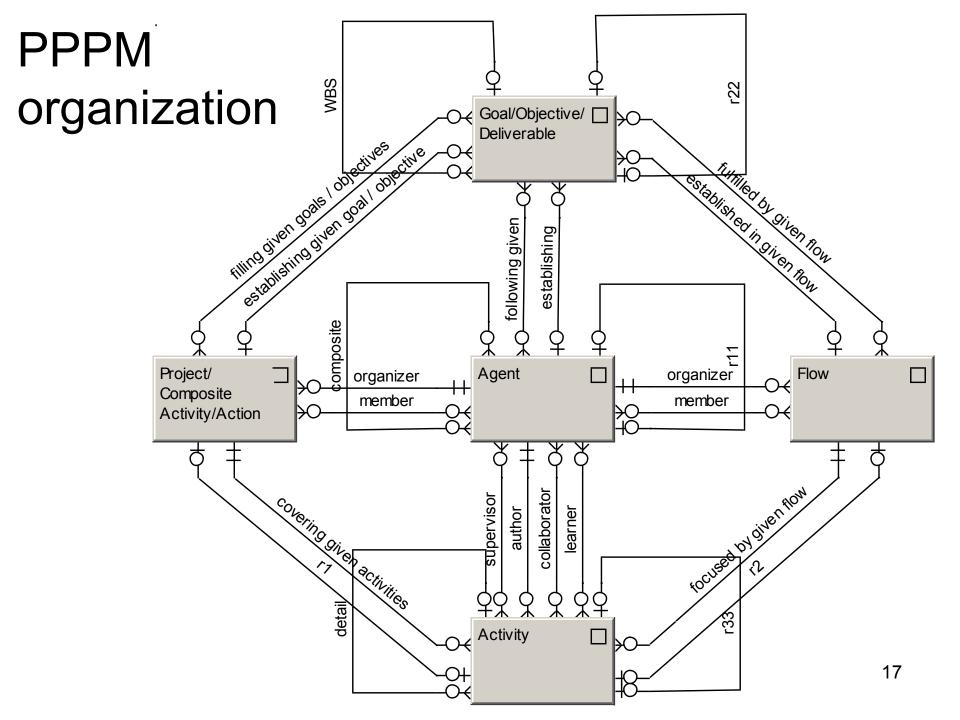


Flow is a criterion according to which the one place within the possible solution space is chosen, which is "most retarding".

Effective investments – quick benefit.

# What is the most retarding "place" within PPPM?

Brainstorming Discussion

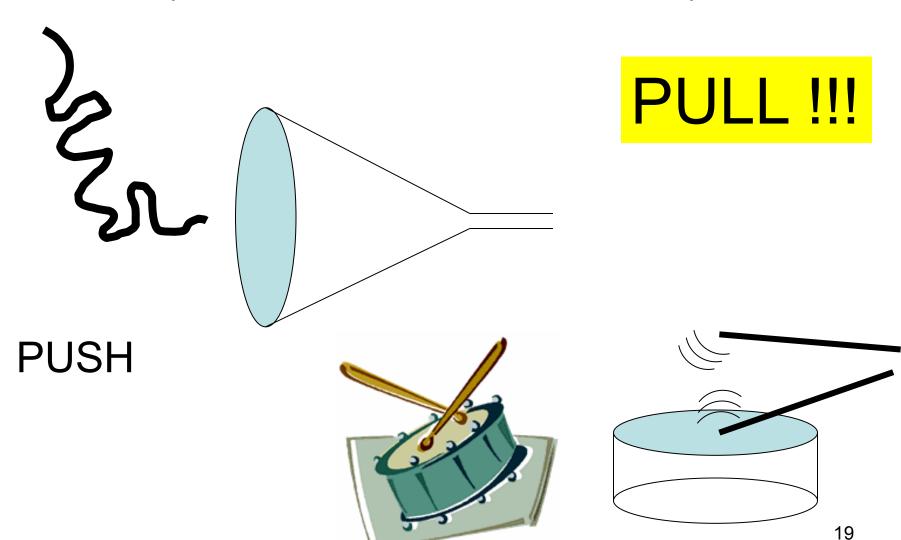


## Principles of TOC based PPPM

- The agent focuses on the very one task, he/she/it is running.
- The agent reports accomplishing of the task and hands over "the baton".
- Actions start not before the constraint permits it.
- "Rope and Drum" principle. Work rhythm.

### Rope and Drum Principle

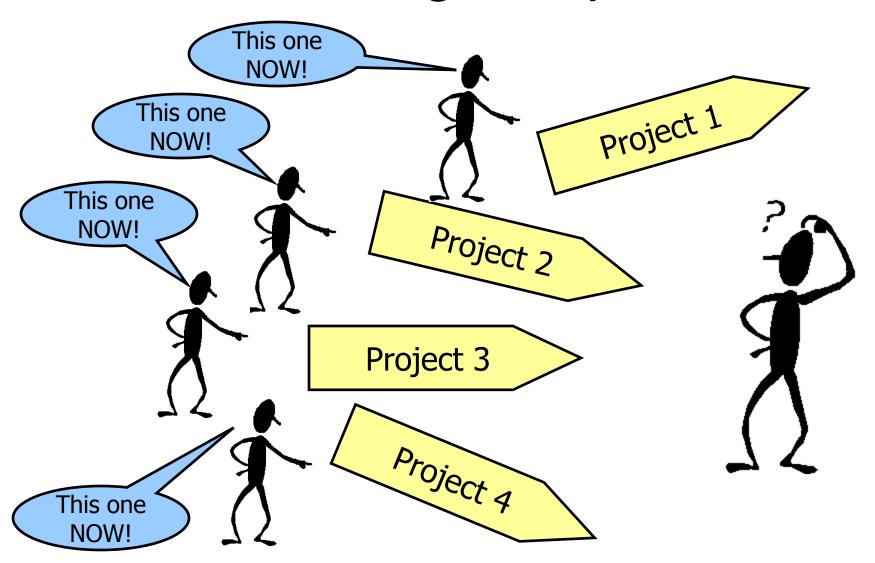
(explanation on funnel and cord)



## Rope and Drum Principle

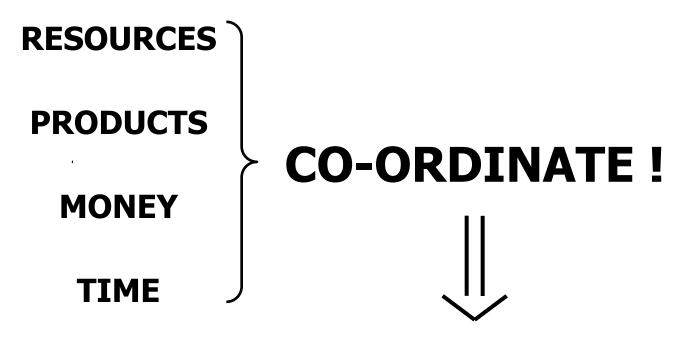
- The work must not be pushed through a team of agents!
- The work must be pulled through a team of agents!
- The work must be done in a regular rhythm!

## Multitasking and priorities



# What to do with a situation: one project affects the other projects?

What projects in one group mutually shares? What are they pass on?



**Decide on priorities** 

#### Remember the Discussion:

- What is a constraint in a Program or Portfolio of Projects?
  - What makes the greatest troubles?
  - What constraints to realize the project in shorter time and for less money?

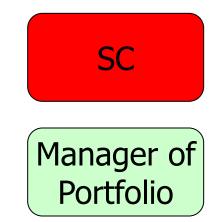
# REDUCE MULTITASKING OF CRITICAL RESOURCES!!

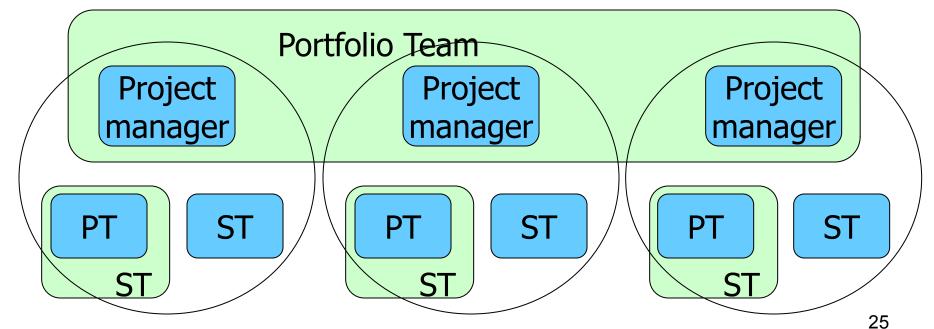
#### Discussion

- What other is a constraint in a Program or Portfolio of Projects?
- Do you think "milestones" will help us ?!?
- Do you know what consequences follow from milestones setting?
- Do you know what is a "critical path"? (If not, then learn!!)
- Is the critical path enough for planning and realization of projects within a Program or Portfolio?

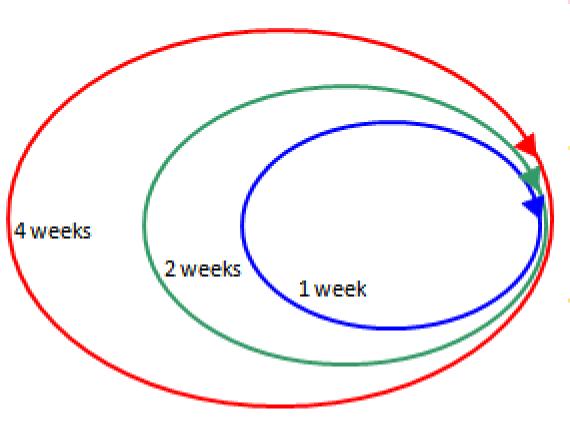
#### Double-level management – MILE

(Management In Large Extent)



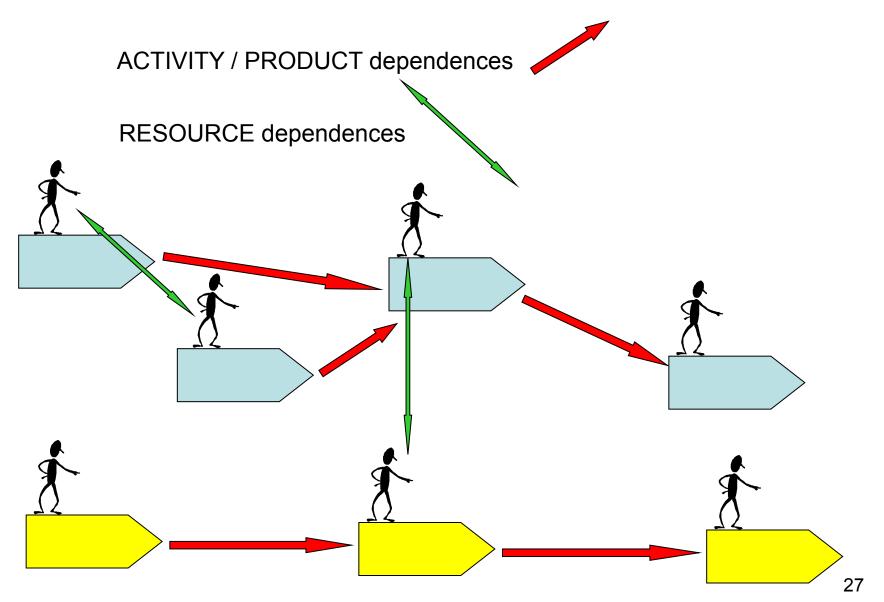


# Portfolio and Program Management Principle



- Project Mill
  - single project daily operating agenda
- Portfolio/Program Mill
  - influences and impacts among Projects
- Steering committee Mill
  - influences and impacts between Portfolio/Program and Business

### **Critical Chain**



#### Critical Chain

 Critical Chain is such sequence of depended activities from various projects of a program or a portfolio, which constraints to finish a project or a set of projects early, with the same set of resources.

