



1



Technology and Innovation Management Portfolio Management

Prof. Dr.-Ing. Henrique Rozenfeld

University of São Paulo



São Carlos Engineering School Production Engineering Department Advanced Manufacturing Nucleus Integrated Engineering Group



Goals of the lecture

To explore basic knowledge and capabilities Busselton CB and on TIM

TIMO

To present approaches, tools, methods and concepts useful for ΤΙΜ

Egu

TIM: integrated Technology and Innovation Management

YORK

Freman

Lecture Content

Theory

- Basic definitions
- Innovation management
- Technology management

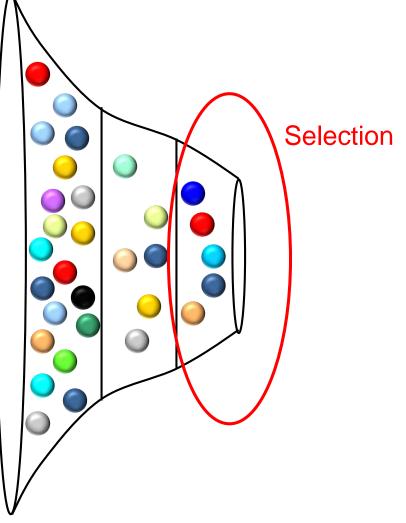
Hands-on activities

- Roadmapping
- Design thinking (value proposition)
- Portfolio management
- Business Model Innovation

Integrated technology and innovation management (TIM)



 Present the basic principles of portfolio management

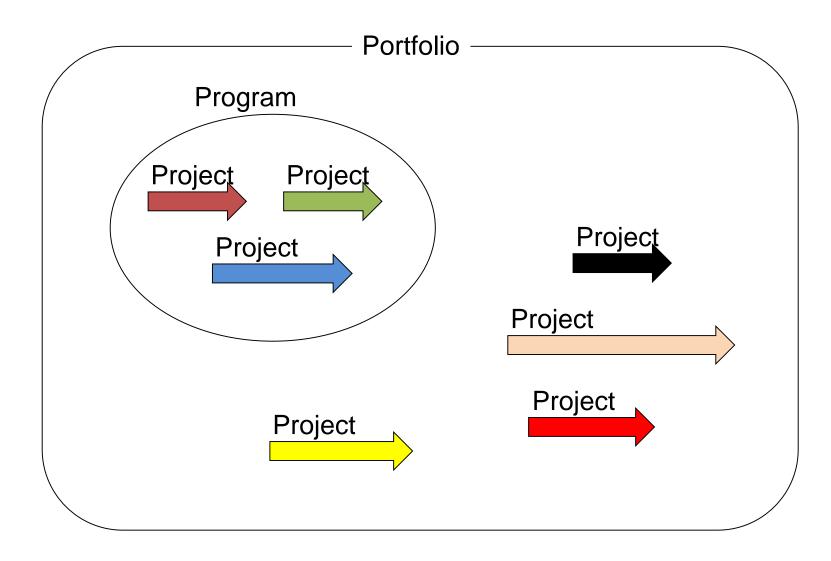




What is a portfolio?



Definition of portfolio of projects and/or programs

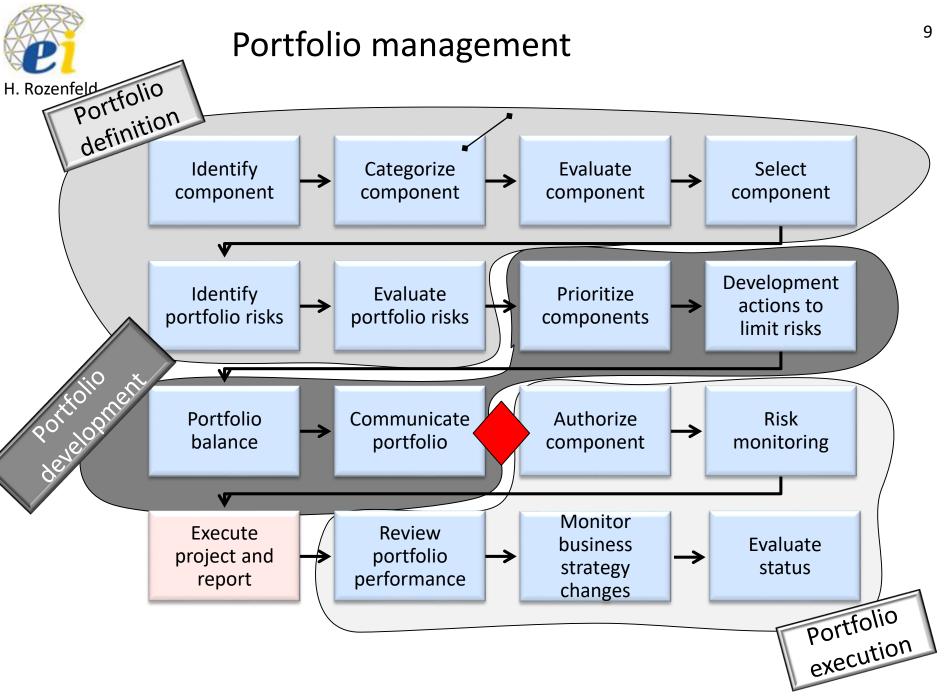




Portfolio planning



- Identify projects
- Prioritize projects (portfolio)
- Authorize project
- Planning project
- Control project
- Monitoring portfolio



Project Management Institute (PMI), 2008. The standard for portfolio management.



- Aligns execution with strategy. Each selected project must play a role in carrying out the strategy of the organization. No more pet projects!
- Maximizes the value of the entire portfolio of projects to get the "most bang for the buck." Taken together, the projects must have a high return on the organization's investment. This may be in terms of dollars or other measures that are important to the organization.
- *Balances* the portfolio. Makes sure that it is not lopsided---for example, by being too risky or too focused on short-term results.