

### **Faculty of Engineering**

**School of Mechanical and Manufacturing Engineering** 

**Corey Martin** 

# Projects in Organisations

# What is strategy?

A plan of action designed to achieve a long-term or an overall aim or objective.

http://www.oxforddictionaries.com

A careful plan or method for achieving a particular goal usually over a long period of time.

http://www.merriam-webster.com





# **Characteristics of objectives**

S	Specific	Be specific in targeting an objective		
M	Measurable	Establish a measurable indicator(s) of progress		
A	Assignable	Make the objective assignable to one person for completion		
R	Realistic	State what can realistically be done with available resources		
Т	Time related	State when the objective can be achieved, that is, duration		

Source: There's a S.M.A.R.T. way to write management's goals and objectives, George T. Doran 1981, Management Review



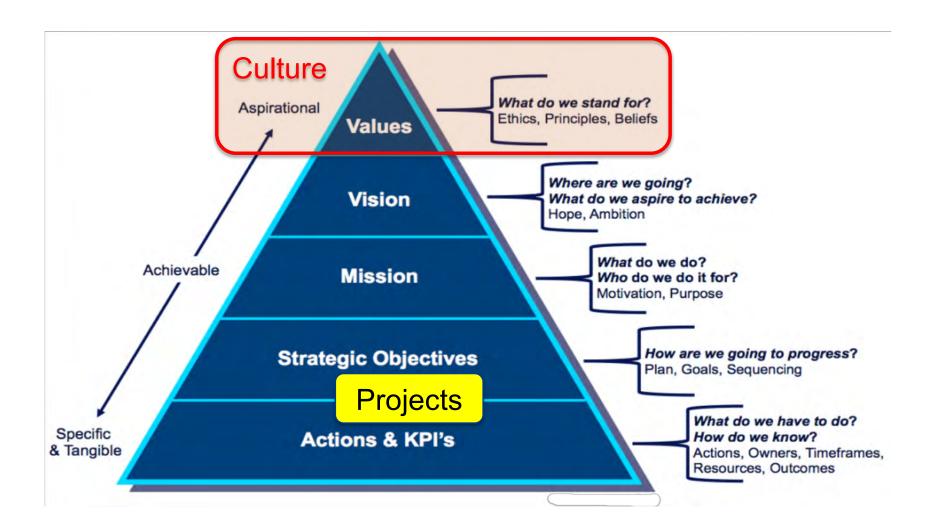
# **Organisational strategy**

An expression of how an organization needs to evolve over time to meet its objectives along with a detailed assessment of what needs to be done.

Developing an organizational strategy for a business involves first comparing its present state to its targeted state to define differences, and then stating what is required for the desired changes to take place.



# Strategy and projects





# Examples of some common organisational strategies

 To increase the size of the organisation to realize economies of scale and increase market share.

 To move into new areas of focus to utilize the organisation's existing resources, as the organisation's primary markets mature or decline.

 To acquire or merge with similar organisations in order to reduce competition.



# Examples of some common organisational strategies

 Creating products or services that are perceived in the marketplace to be so new, so different or so superior (often by applying cutting-edge information technology) that they expand "performance boundaries" and make existing products or services obsolete.

 To provide the lowest cost solutions in the marketplace.



## Why is strategy important for project managers

 Project managers must respond to changes with appropriate decisions about future projects and adjustments to current projects.

 Project managers who understand their organisation's strategy can become effective advocates of projects aligned with the firm's mission.



# Strategic management

Strategic management is the process of assessing "WHAT an organisation is" and deciding "WHERE the organisation would like to be in the future" and and "HOW to achieve this using the available resources".

End result is often to improve its competitive position/competitive advantage



# Strategic management process

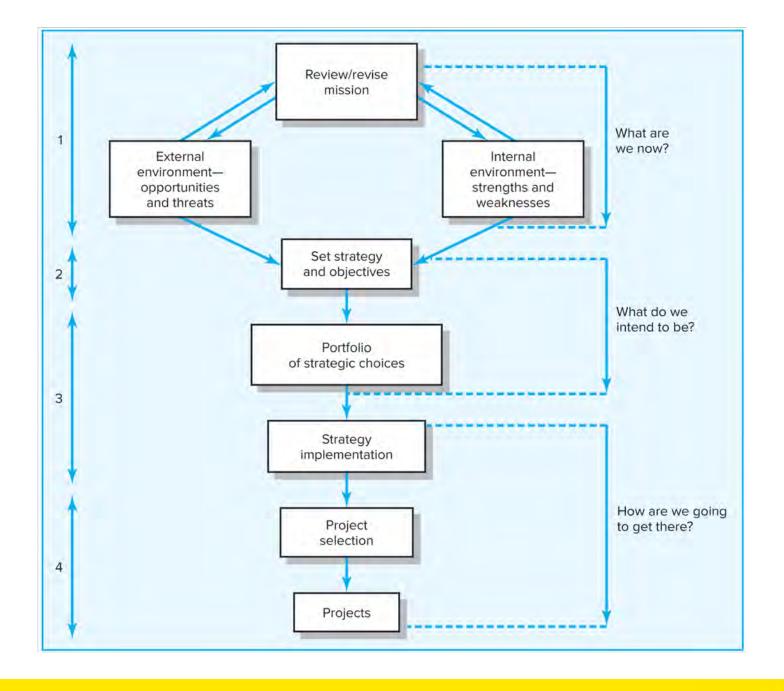
1 - Review and define the organisational mission.

2 - Set long-range goals and objectives.

3 - Analyse and formulate strategies to reach objectives.

4 - Implement strategies through projects.







# Multi-project challenges

- Not able to align with the overall strategies of the organization
- Failure to prioritize the selection of projects by their importance of their contribution to the firm;
- Are not integrated throughout the project life cycle;
- Do not match project planning and controls with the organizational culture to make appropriate adjustments in support of project endeavors.



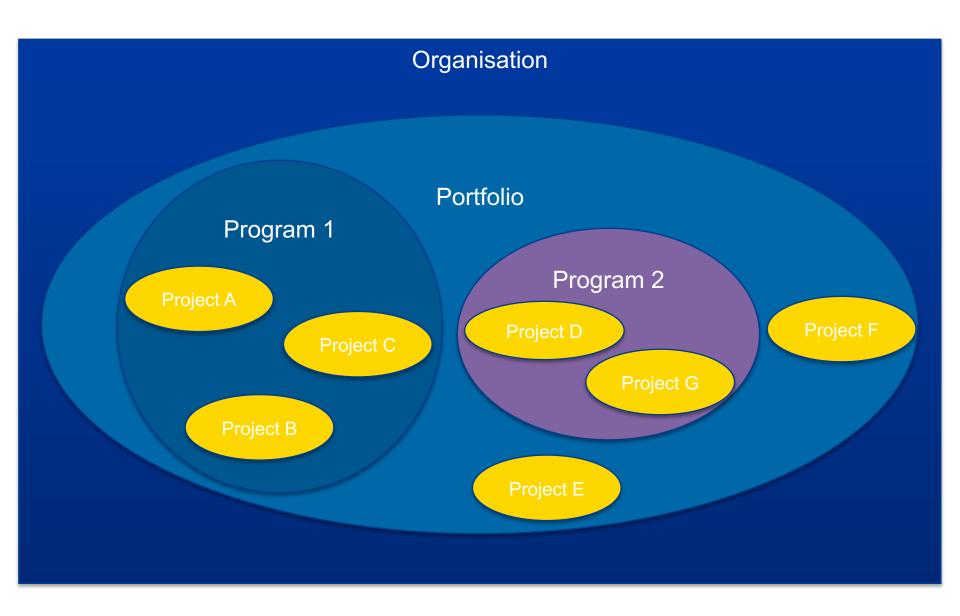
# Projects in an organisational context The 3 "P's"

Portfolio

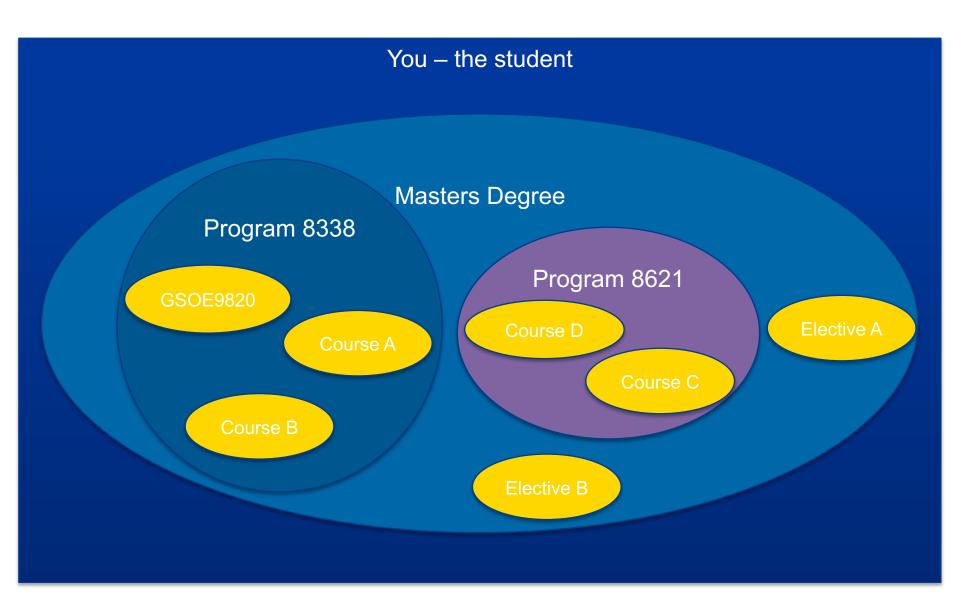
Program

Project











# Portfolio management system

The aim of a portfolio management system is to ensure that projects are aligned with strategic goals and prioritised appropriately.

It can often be the link between strategic organisation goals and the project.



# Major functions of Portfolio management

- Oversee project selection;
- Monitor aggregate resource levels and skills;
- Encourage use of best practices;
- Balance projects in the portfolio in order to represent a risk level appropriate to the organisation;
- Improve communication among all stakeholders;
- Create a total organisation perspective that goes beyond silo thinking;
- Improve the overall management of projects over time



# Benefits of portfolio management

- Builds discipline into project selection process.
- Links project selection to strategic metrics.
- Prioritizes project proposals across a common set of criteria, rather than on politics or emotion.
- Allocates resources to projects that align with strategic direction.
- Balances risk across all projects.
- Justifies killing projects that do not support organization strategy.
- Improves communication and supports agreement on project goals.



## Components of a portfolio management system

Project classification

Selection criteria

Proposal sourcing

Proposal evaluation

Ongoing management



# Ongoing portfolio management

Involves monitoring and adjusting selection criteria to reflect the strategic focus of the organisation.

### Responsibilities

- Small organisations key individual
- Large organisations project office

### **Senior management**

- Provide guidance in selecting criteria that are aligned with the organization's goals
- Decide how to balance available resources among current projects



# **Program management**

Is the process of managing multiple ongoing interdependent projects.

Program management allows for the projects to be coordinated, often over an extended period of time and are intended to achieve a specific goal.



# **Project Organisational structure**

"A (project) organisational structure defines how activities such as task allocation, coordination and supervision are directed towards the achievement of organizational aims".

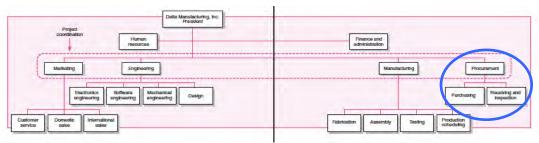




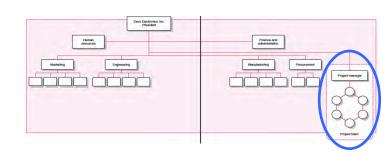


# Common types of project management structures

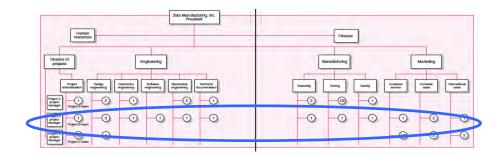
Functional



Dedicated Project Teams
/Projectized



Matrix





# Reality of project organisation structure

Every company has its own ideas about how to organize itself and its work.

It is highly probable that if three companies doing similar work could be compared, three different organization structures would be found.

Further, all three companies might be equally successful (or equally unsuccessful), implying that it is not always possible to say with any degree of confidence that there is one best organization solution.



# **Functional Organisation of projects**

 Used when the interest of one functional area dominates the project or one functional area has a dominant interest in the project's success.

 Different segments of the project are delegated to respective functional units.

Coordination is maintained through normal management channels.



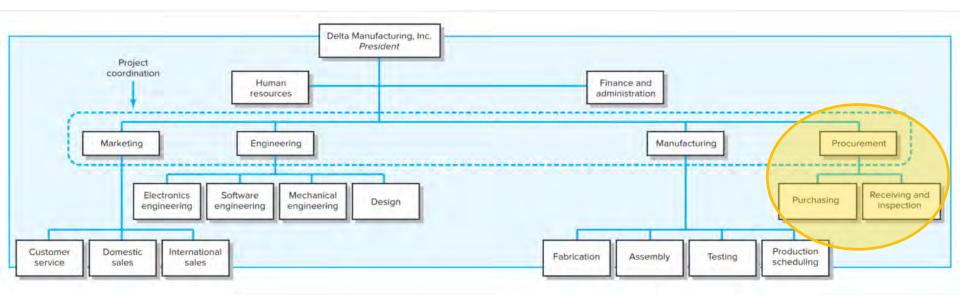
## **Functional**

### **Advantages**

- 1. No/little organisational change
- 2. Flexibility in use of staff
- 3. In-Depth Expertise
- 4. Easy Post-Project Transition

### **Disadvantages**

- 1. Lack of Focus for project
- 2. Poor Integration across org.
- 3. Typically slower to complete
- 4. Lack of Ownership





# **Dedicated Project Teams**

• In a *projectised* organization where projects are the dominant form of business, functional departments are responsible for providing support for its teams.

 Teams operate as separate units under the leadership of a full-time project manager.



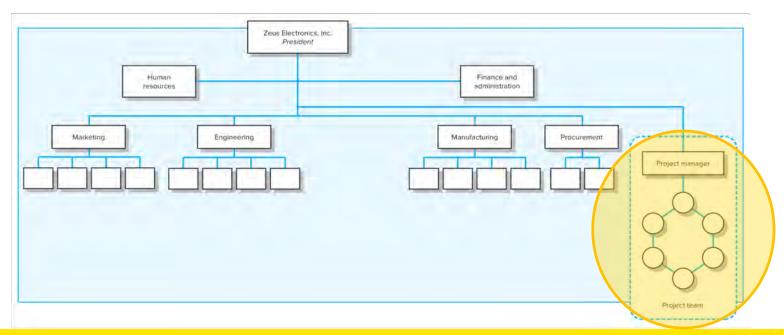
# **Dedicated project teams**

#### **Advantages**

- Simple independent from functional organisation
- 2. Fast Full attention
- 3. Cohesive motivated
- 4. Cross-functional integration

#### **Disadvantages**

- 1. Expensive additional staff
- Internal strife "us vs. them"
- 3. Limited technological expertise
- 4. Difficult post-project transition staff reassignments





# **Matrix Organisation of projects**

- Hybrid organizational structure (matrix) is overlaid on the functional structure.
  - Two chains of command/ "bosses" (functional and project)
  - Project participants report simultaneously to both functional and project managers.

- Matrix structure optimizes the use of resources.
  - Allows for participation on multiple projects while performing normal functional duties.
  - Achieves a greater integration of expertise and project requirements.



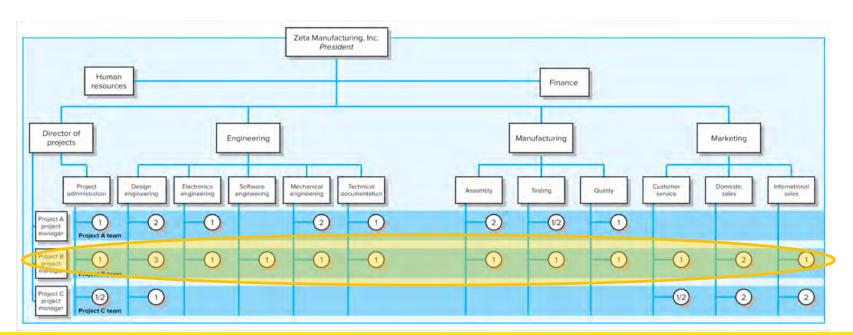
## **Matrix**

#### **Advantages**

- 1. Efficient sharing resources
- 2. Strong project focus dedicated PM
- 3. Easier post-project transition
- 4. Flexible use of appropriate expertise and resources

#### **Disadvantages**

- Dysfunctional conflict PM and FM tension
- 2. Infighting Different priorities
- 3. Stressful who is my boss?
- 4. Slow consensus needed





### **Different Matrix forms**

# Weak

 The authority of the functional manager predominates and the project manager has indirect authority.

# Balanced

 The project manager sets the overall plan and the functional manager determines how the work is to be done.

# Strong

 The project manager has broader control and functional departments act as subcontractors to the project.



# Choosing the most appropriate project structure

Org Structure>	Functional	Matrix			Desired and
Characteristics		Weak	Balanced	Strong	Projectized
Project Mgr's Authority	Little or None	Limited	Low to Moderate	Moderate to High	High to Almost Total
Resource Availability	Little or None	Limited	Low to Moderate	Moderate to High	High to Almost Total
Who controls project budget	Functional Manager	Functional Manager	Mixed	Project Manager	Project Manager
Project Mgr's Role	Part-time	Part-time	Full-time	Full-time	Full-time
Project Mgr Admin Staff	Part-time	Part-time	Part-time	Full-time	Full-time

