

# **The Process Analysis as a Frame to Merge Social and Technical Issues in the Design of Information and Management Systems**

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# **My Experience**

- **Development of Management Systems for Quality and Sustainability**
- **Process Analysis as support to design the Management System**
- **Organizational Behavior as a key feature of Management System**

# **Socio-technical Perspective.**

## **Keywords**

- **Human needs must not be forgotten when technical systems are introduced**
- **Research approach has an action component**
- **No theory without practice, no practice without research**

# **Contents and Proposals**

- **Analysing the meaning of ‘Socio-technical perspective’ in the current scenario**
- **Suggesting the Process Analysis as a possible support for ‘Socio-technical design’**
- **Proposing research on Analysis criteria and Design process**

# **What does 'Social' mean?**

- **The social relationship between employer-employee has evolved in the relationships between the organization and its stakeholders**
- **The identity of an organization is deeply influenced by social behaviors**

# External and internal context

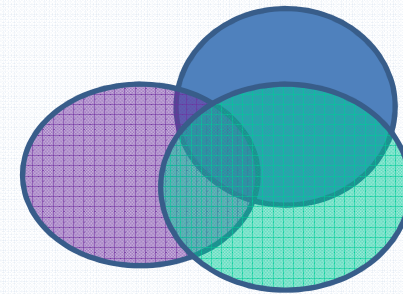


# **What does 'technical' mean ?**

- **Databases for decision making**
- **Erp systems for production and provision of services**
- **Web systems for marketing, sales and purchases**
- **Automation for manufacturing and office activities**

# The Proposed Approach

- The Process Analysis could be a frame to merge the social and the technical issues
- The Process Analysis is a common point in the fields of:
  - Information Systems
  - Management Systems
  - Organizational Behavior
- The Process Analysis could be an effective tool for supporting design





# **Process Analysis. Challenging points**

- **Adaptive Case Management: methods for analysing the complexity of the organizations**
- **Forthcoming ISO Standards: the concept of 'promoting awareness of the process approach'**
- **Organizational Behaviour studies: direction and causal order of processes**

## **Process Analysis. Weak points**

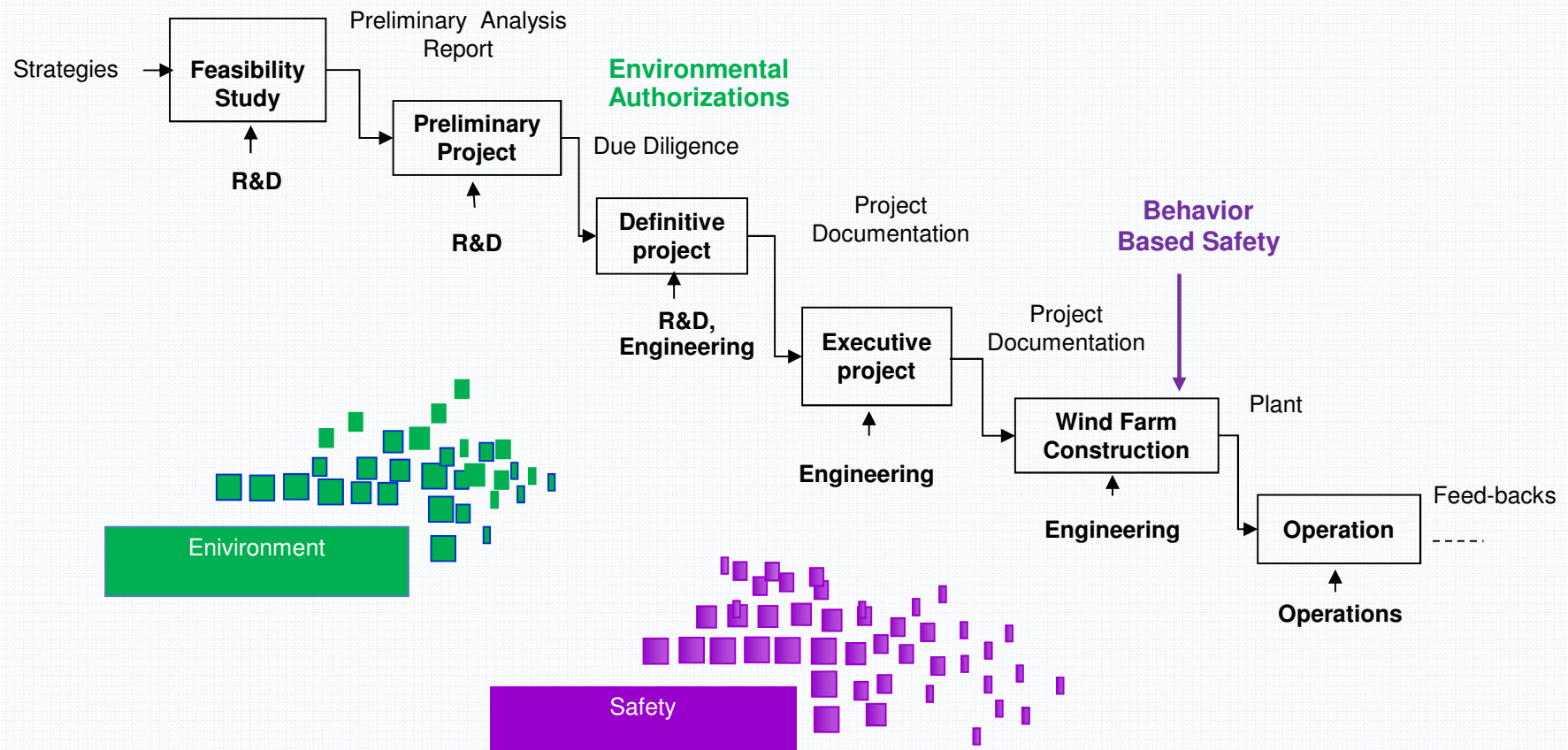
- **Methods and tools subordinated to Information Technology**
- **In Organizational Behavior, prevalence of an academic approach**
- **Attention to describe the results and not the practice exploited to reach them**

# **Research proposal.**

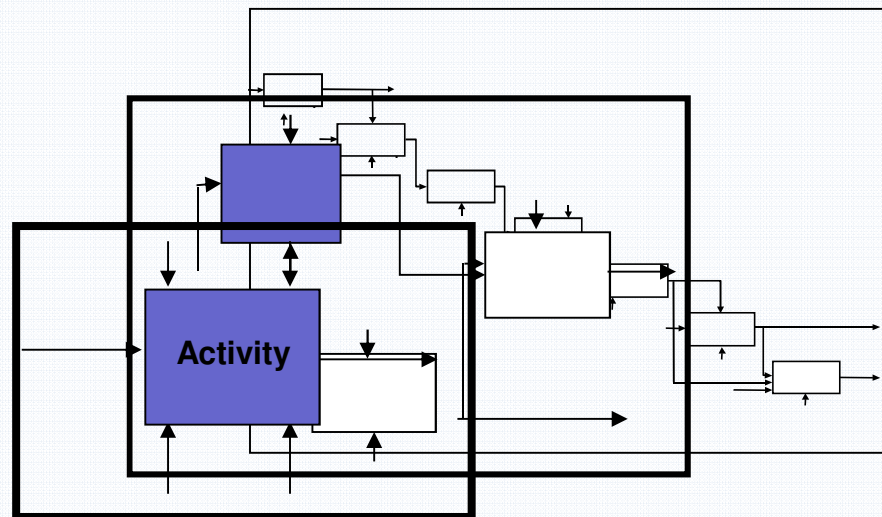
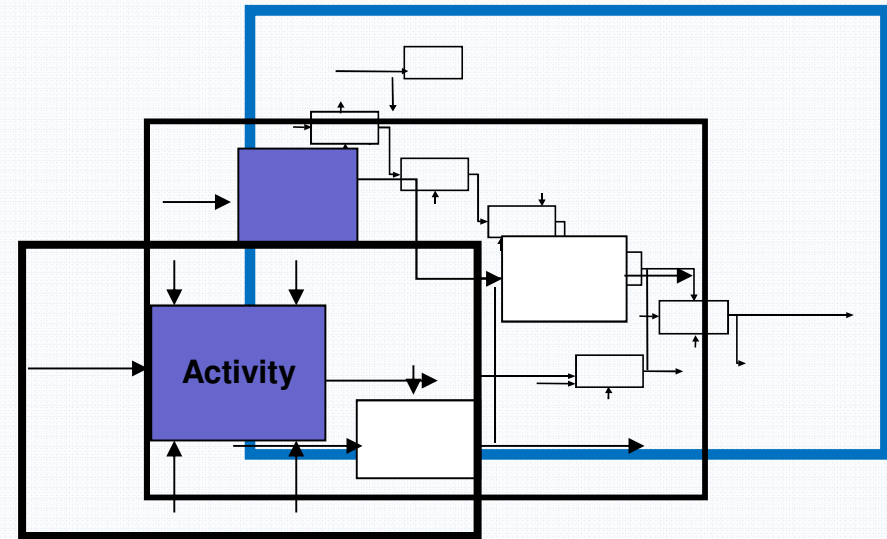
## **Process Analysis Criteria**

- **How the criteria followed for the analysis could be useful to encompass complexity**
- **Some topic to address:**
  - **The mangement model of the organization**
  - **The context of the company and the stakeholder's point of view**
  - **The direction for performing the analysis**
- **Several factors and several coordinates describe the conceptual space**

# Stakeholder's points of view



# Direction of the analysis

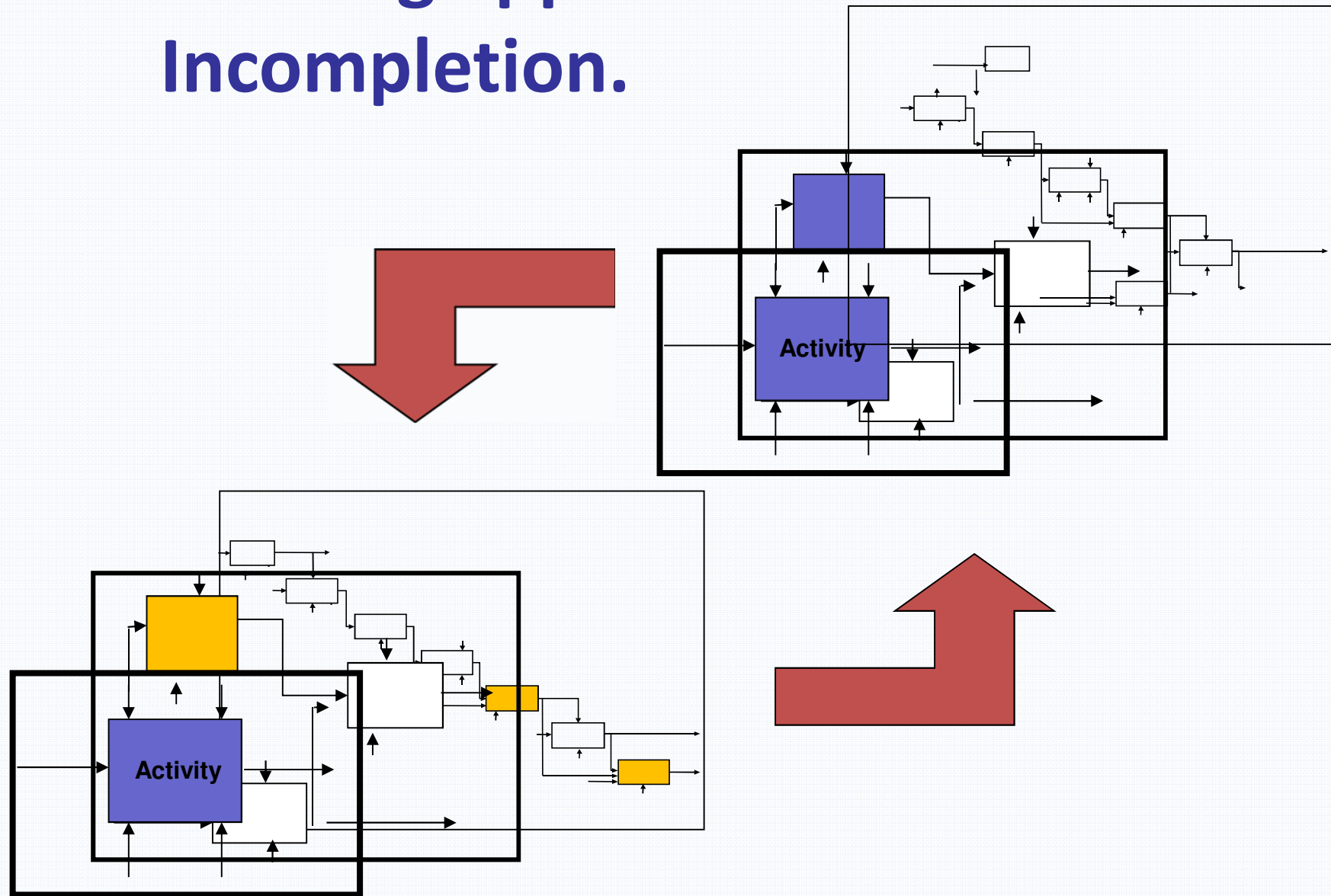


# Research proposal.

## Design

- **How the design could support a social approach**
- **Some topic to address:**
  - Process Analysis could be useful to capture and modify social and collective behaviour
  - Defining the scope, the interfaces, the internal and external subjects that compose the working team
  - Never-ending approach. The design could not end with the releasing of a result
- **Exploring and defining the phases and the features of the design process**

# Never-ending approach. Incompletion.



# Outlook

- **Merging Information Systems, Management Systems and Social Behavior to effectively support the organizations**
- **Performing cross functional activities with researchers and practioners**



**Thank you**