

# Team roles in business process re-engineering

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## Abstract

The paper aims to clarify the team roles and skills involved in business process re-engineering of five different manufacturing units in the electronics industry using case study approach. The research is focused on the team roles and the functional ability and the training needs of the 39 teams and 232 team members involved in BPR. The data collection was made through documents, interviews, questionnaires, group methods and observations. The research problem was stated as follows: Is there a suitable framework of team role classification to be used? What are the skills needed by the team in BPR? What is the role of the team leader in re-engineering? The first result was that the classification of team roles by Platt et al. (Teams – A Game to Develop Group Skills, Gower Press, London, 1988) is applicable with BPR teams. The other results include the finding that teams need such skills as teamwork, organising, finishing, meeting, project work, innovation, and resource investigation skills. Also the research shows that team leader should provide any of the skills needed if they are not present with the team itself. © 2002 Elsevier Science B.V. All rights reserved.

**Keywords:** Business process re-engineering; Team ability; Manufacturing

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## 1. Introduction

The original article by Hammer [1] aroused interest in business process re-engineering or BPR. While there have been numerous BPR projects undertaken since then, relatively little empirical research has been undertaken in this field [2, 3]. BPR inevitably means making changes in the working lives of the staff involved. Much of the literature focusing on technologies accepts that this is a problem, or ignores it. Much of the writing on

BPR concentrates on the need for valiant and visionary leadership, but offers little help on how these changes should be managed [4]. According to Horney and Koonce [5] one reason for the failure of re-engineering efforts is a lack of penetration to the deepest organisational levels. A sociotechnical approach, giving attention both to the technical and to the human systems, seems likely to develop [6]. Advocates of sociotechnical systems were the first to recommend using the team as a basic unit of organisation.

In Finland there has been some work which, however has no direct bearing on the structure of this study, where team involvement in BPR has been studied. Rajala [7] has presented a framework for customer oriented business process modelling,

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Tikkanen [8] and Alajoutsijärvi and Tikkanen [3] have carried out wide theoretical and empirical analysis concerning a network approach to industrial business processes. Tinnilä and Bask [9] have emphasized the importance of operational and strategic measurement of business processes and Tinnilä [10] has presented a conceptual analysis of process management and discussed the links between executional and structural views on business processes. Tikkanen and Pölönen [11] have evaluated business process re-engineering projects in 21 large Finnish organisations and one finding is that strong personnel involvement and training is a basic requirement for the success of a BPR project. On the other hand, there has been lately some critical writings concerning BPR. For example, Stoddard et al. [12] criticise, “what was implemented in the regions differed from the design and was not as radical as planned”. In BPR efforts, ownership and commitment is needed throughout the organisation, particularly during implementation.

Traditionally, analyses of groups and teams have concentrated on the assumption of individuals and individuality. The focus of research and the knowledge has not been on how to analyse and develop re-engineering teams. In the literature the importance of business, technical and functional skills is brought out [13–16]. In teamwork the necessary, prerequisite, functional skills have been proposed to be problem solving, leading meetings, communication and reaching consensus. What these functional skills must be in business process reengineering is not detailed. In this research the functional skills (innovation, resource investigation, organising, teamwork, meeting, finishing, evaluation and project work) are defined based on Belbin's [17] model of eight key team roles and on the modification of Platt et al. [18] those roles (innovator, resource investigator, organiser, team worker, chair, finisher, evaluator and shaper) which are essential in managing teams.

## **2. Business process re-engineering**

Since the original articles by Hammer [1] and Davenport and Short [19], organisations have used business process re-engineering to seek

improvements in their business performance. A number of writers (e.g. [20–23]) have defined business processes. According to Davenport [20, p. 5] “a process is simply a structured, measured set of activities designed to produce a specified output for a particular customer or market”. Hammer and Champy [21, p. 35] have defined business processes as “a collection of activities that takes one or more kinds of input and creates an output that is of value to the customer”. Laakso [23, p. 25] adds to his definition the necessary resources needed. In this study the definition of business process is based on Laakso's definition with the difference that output is defined to be a product or service. Thus, in this study a business process is defined to be: “A structured measured set of activities and flows that use necessary resources to provide specified product or service for a particular customer.”

In several publications [1,24,21,25,20,26,22] methods have been proposed for the analysis and optimisation processes. Teams are meant to be basic units of organisations, but models for building, evaluating and developing teams for business process re-engineering are not emphasised in those studies. Only one re-engineering process model [26] which includes chartering and building up the re-engineering team was found in the literature surveyed. The model is based on one case study. How to analyse and develop teams for business process re-engineering is not detailed in the model of Stoner and Greenwood [26].

## **3. Role theories**

Roles are shared expectations of how one person must, or wants to behave in a group. Different individuals will occupy different roles. A role depends on the context of work, groups, and families, organisations and communities such as teacher, husband, supervisor and chairman. The role at work is a mixture of personal needs, behavioural characteristics and expectations of the environment. According to Adair [27] role behaviour is the way of acting which is considered appropriate to a role. Various factors – functional, traditional or custom – shape what is thought to be this appropriate behaviour. Adair [27] defines role as:

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