

PROGRAM OF PRODUCTION IMPROVEMENT (PPI)



Motivation. Most factories and services (banks, insurances, healthcare centers and municipalities) grow by the unstructured aggregation of equipment and people through the time. Hence, their delivery delays, costs, quality and variety of products differ from the ones desired by the customers.

Goals. The program of production improvement (PPI) is a set of continuous activities directed to re-organize the factories and services so that they work with the efficiency required by the customers. As a consequence, the firms get more customers and make more profits. This program is compulsory for firms that make components for integrator firms.

Program overview. The PPI includes the activities in the shown flowchart. The employees that are coached by our experts participate in these activities.

Weaknesses of current approaches to improve the efficiency. There are several approaches to improve the efficiency of the factories and services: Total quality management, lean, kaizen, value-added, six sigma. All these approaches include the activities in the shown flowchart. However, they do not include formal tools to identify the potential improvements, nor to evaluate their multiple effects.

Advantages of our improvement program. Our program includes the training of the intervention team on reference models™. Using the latter this team can conceive immediately a multitude of improvements. The reference models are artificial intelligent models that capture the improvements

implemented by the efficient firms. In addition, our program includes the construction of simulation models that quantify the multiple effects of the improvements avoiding the implementation of flaw improvements.

