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The other day came across a description of the direction of one of the universities. It reads: graduates who have gained knowledge in the direction of management can work in organizations of all forms of ownership, regardless of the sectorate of the economy. This profile is universal. Effective managers with fresh, relevant knowledge are waiting in many areas. For those who have mastered modern management, where the question of personal choice is to work. Since such specialists are waiting almost everywhere ..

In principle, I think, for most people of great dissonance, this information will not cause. Indeed, what's the difference than to manage? Everywhere you need the same skills. It doesn't matter what they do, airplanes or pencils. Engineers will do, only collect and manage their team.

However, let's try in the quote above to replace management on engineering. Graduates who have gained knowledge in the direction of engineering can work in organizations of all forms of ownership, regardless of the sectorate of the economy. This profile is universal. Effective engineers with fresh, relevant knowledge are waiting in many areas. For those who have mastered modern engineering, where a personal choice is to work. Since such specialists are waiting for almost everywhere .. I think many will say here: so. Stop stop. And what exactly this engineer will be able to do. Is he an aircraft industry engineer or an engineer-pencilian?

Can the manager be universal and why do we require the separation of specializations for engineers, and not always for managers?

From the point of view of systemic thinking in the project system scheme, there are three areas of interest: entrepreneurial, engineering, managerial.

The entrepreneurial area is engaged in the construction of market (entrepreneurial) hypotheses. This area answers the question of what to do?. In this area, we will find out what the target system needs to be built. The engineering area solves issues of embodiment of the target system. In this area, we will learn from which components, the modules will be the target system where they will be placed. The manager of the same area is engaged in ensuring that the target system is made. That is, managers are not engaged in the target system itself, and the system of ensuring that the target system is building. From here, apparently, and the collision of the separation of specializations from engineers and managers arises, even in people who study systemic thinking. Engineers apply hands to target systems, and these systems are different, and everyone sees. Managers are engaged in providing systems. And they, these systems of the provision, are seen as the same. These are people with tools (and in our time it is often not with some specialized tools, but with computers and tablets). However, this is not the case. The company (system of support) depends on what the target system will do what we will produce. The manager must keep the target system in

the head and, based on this, build the necessary security system. For different target systems and their oversystems will be different systems of provision.

Let me remind you, the main alpha managerial areas of interest are: method, team, work. That is, managers must manage the project team, its coherence and unity, follow the use of certain methods (methodologies) in the project and actually, control the work flow itself. And these three alpha will differ significantly depending on the plane you are making or pencil. So far there is no entrepreneurial hypothesis and engineering solution, there is also no management, as it is not clear which system to build.

Therefore, as in the case of engineers, to successfully build target systems, managers should also be specialized. They must understand the subject area, the industry in which they work.

Also, let us express the idea that, perhaps, our different attitude towards the separation of managers and engineers comes from the Soviet education system, the heir of which we are currently. In the USSR, the main emphasis in education was made on the engineering area. This made it possible to create one of the most powerful, and, therefore, specialized engineering schools in the world. While in the managerial and entrepreneurial region, people came through an engineering. For example, directors of the factories often became their main engineers.

Of course, managers, like engineers, have some common disciplines, knowledge of which is united independently of the industry. But this is how in mathematics there are conditions necessary and sufficient. Knowledge of such general minced disciplines is a prerequisite for a successful target system, but not sufficient. I want to hope that in the university, the description of which I led to the above, the students explain.

P. S. By the way, with the division of specializations of entrepreneurs the same story. But this is well written here.

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alex.

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