

ECOSYSTEM OF EDUCATION COMPETENCE CENTER OF THE INDUSTRY 4.0

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The task is to organize an educative process to prepare the specialists in direction of the Industry 4.0 paradigm. The Industry 4.0 paradigm means to create industrial companies with digital informative technologies and which function automatically. To work in such companies they must prepare the specialists of profile competences. It is clear that the educative program scientific content must contain the property of interoperability for all technologies which are used together in a digital production. To attain informative technologies they need to create technological and branch centers of competences which are specialized preparation of highly-qualified personnel. There is a structure and components description for an Industry 4.0 competences branch center.

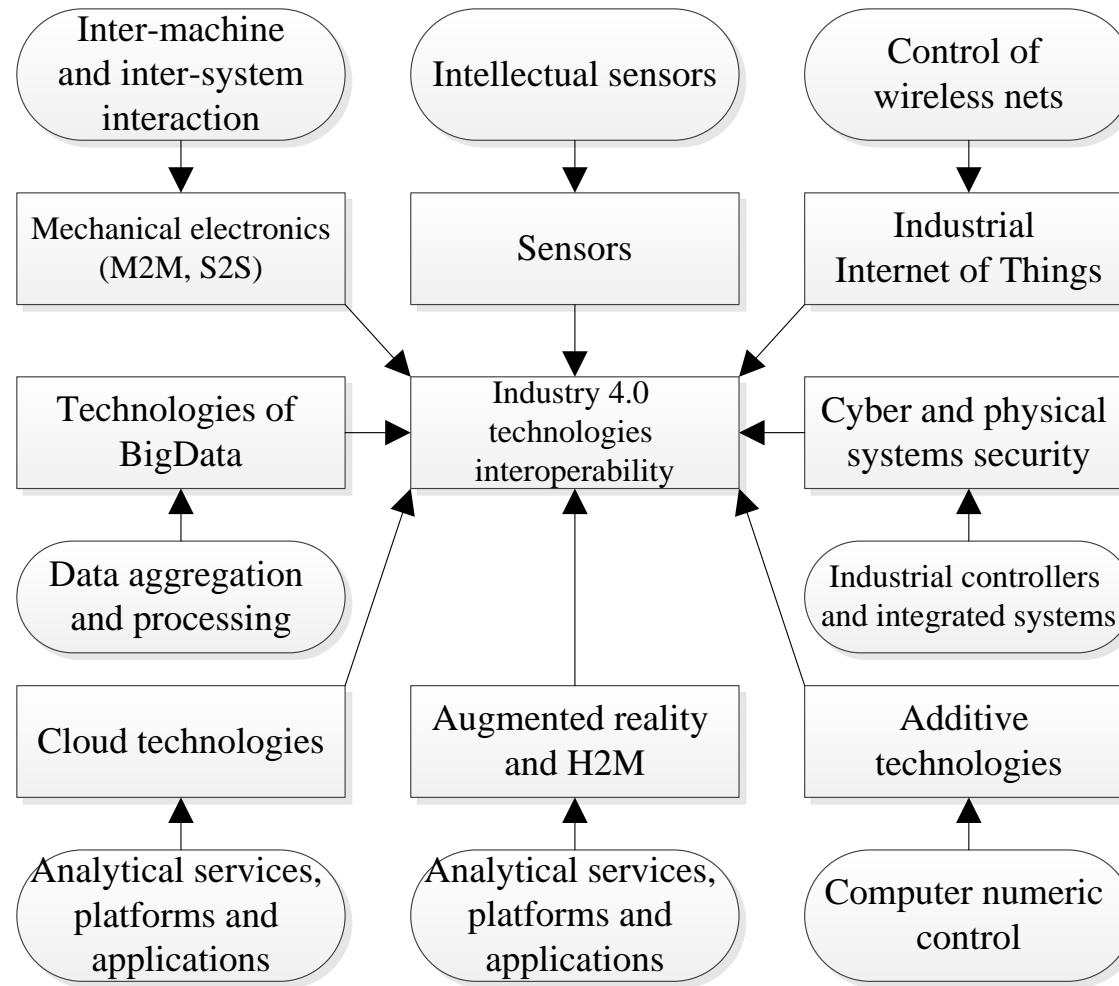


Figure 1. Main technologies being applied in digital companies.

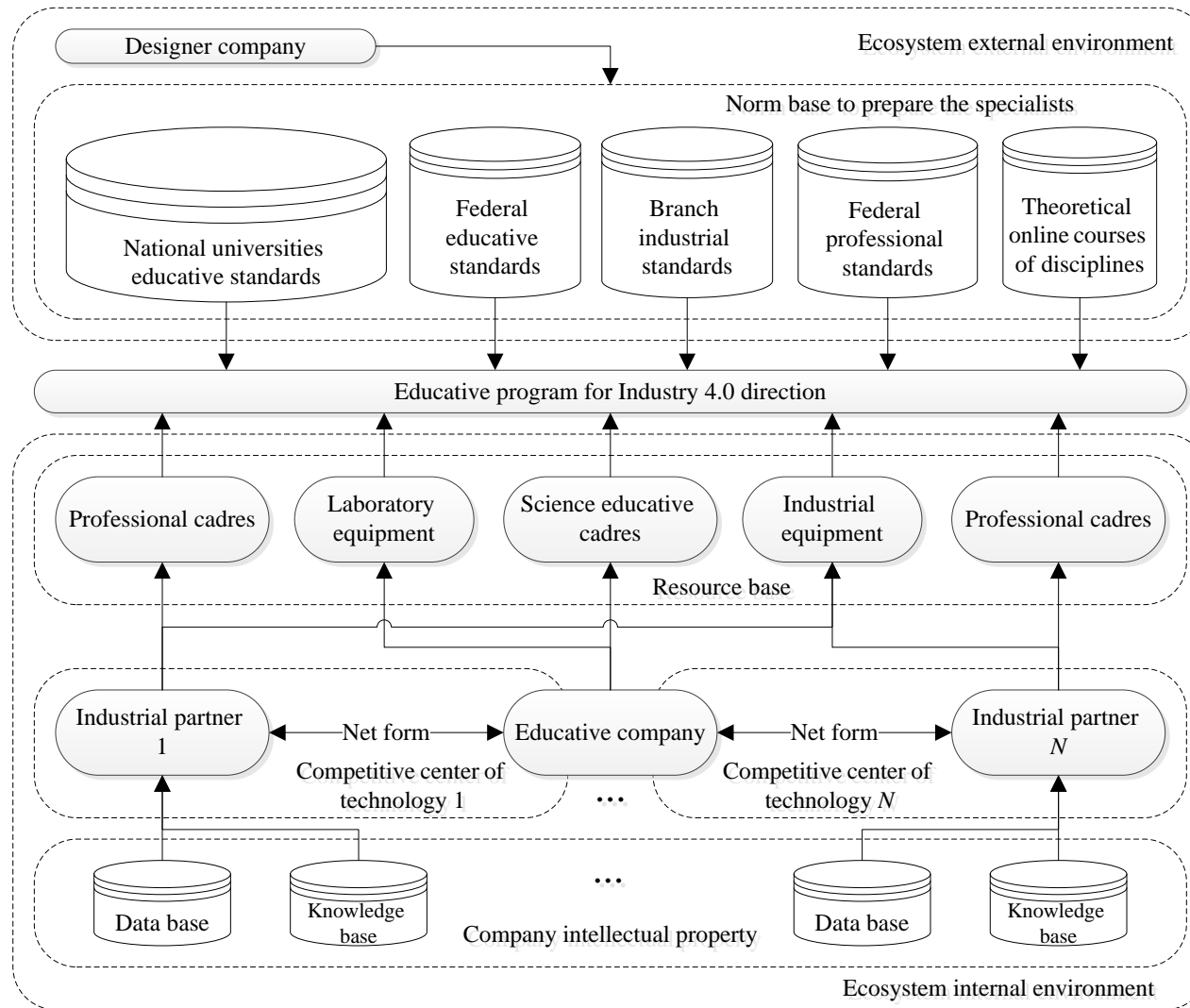


Figure 2. The industry 4.0 branch competitive center ecosystem.

Practical application of technological and branch competences centers is done with interaction of big number of different property types of companies (state and private partnership) which has a resource provision sufficient for educative process and united for a single purpose of highly-qualified personnel preparation procedures completion processes.

Organization of state and private partnership in education today are to be regulated by laws and can be done in net form on the contract base for companies. Educative program net form contract defines the volumes and types of educative load which is realized by parties with their own resource provision and also the place for auditory classes and availability of specific specialists (scientists) to the educative activity.

The development of educative technologies in the Industry 4.0 paradigm must be done in practice by the branch competitive centers which prepare the specialists for cyber and physical automatic production. At the same time with the development of the educative technologies the education laws and standards must be perfected as well oriented to be applied in the conditions of the digital economy.