



# VICRUS

Global Digital Platform for reduction of transactional costs between economic agents in the process of development of new technologies and products

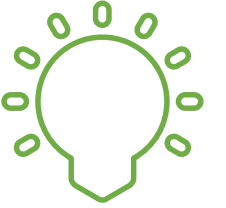
# VICRUS Digital Platform



Goal: reduction of transactional costs between economic agents of any kind during development of new products and technologies.

The VICRUS platform allows any agent to join collaboration and get the maximum reward from his or her competitive advantages which results in reduction of interactions costs.

# Problem



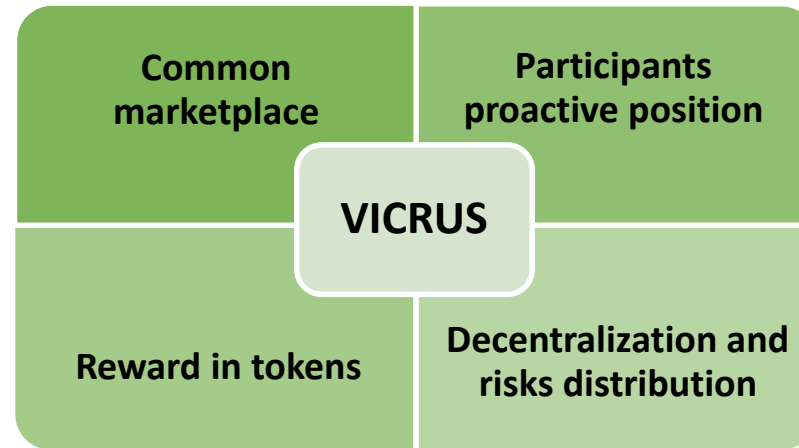
Excessive and almost obstructing costs for industry when developing new technological solutions and products that require innovative approaches and research.

These costs are of a different nature and take place at different stages:

- Target setting
- Expert assessment
- Search of executors with the appropriate competencies and expertise
- Analysis of scientific and technological knowledge relevant to the task
- Distribution and protection of intellectual rights
- Others



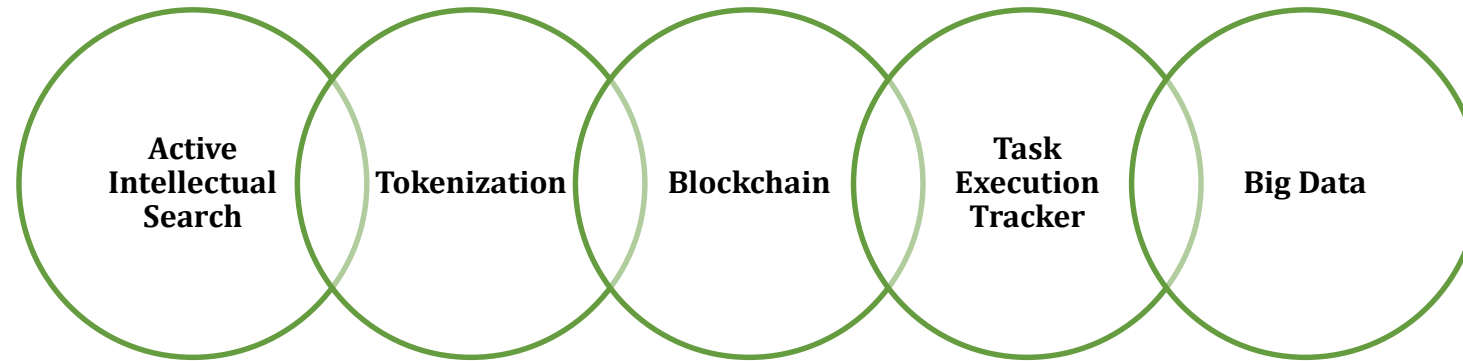
## Basic Principles of Building the Digital Platform



- A common market place for all participants types: customers, technology/expertize holders, technological brokers/integrators, executors, investors and others associated with inner token of the platform - tc0
- A proactive position of every participant that determines his or her rating and access to the platform infrastructure;
- Getting a reward from participating in various tasks in any roles. This reward consists not only in marketable tokens of the platform but also in changing of personal token «rate» as reputation indicator
- Decentralization of decision making and risks/arbitration distribution as a result of it

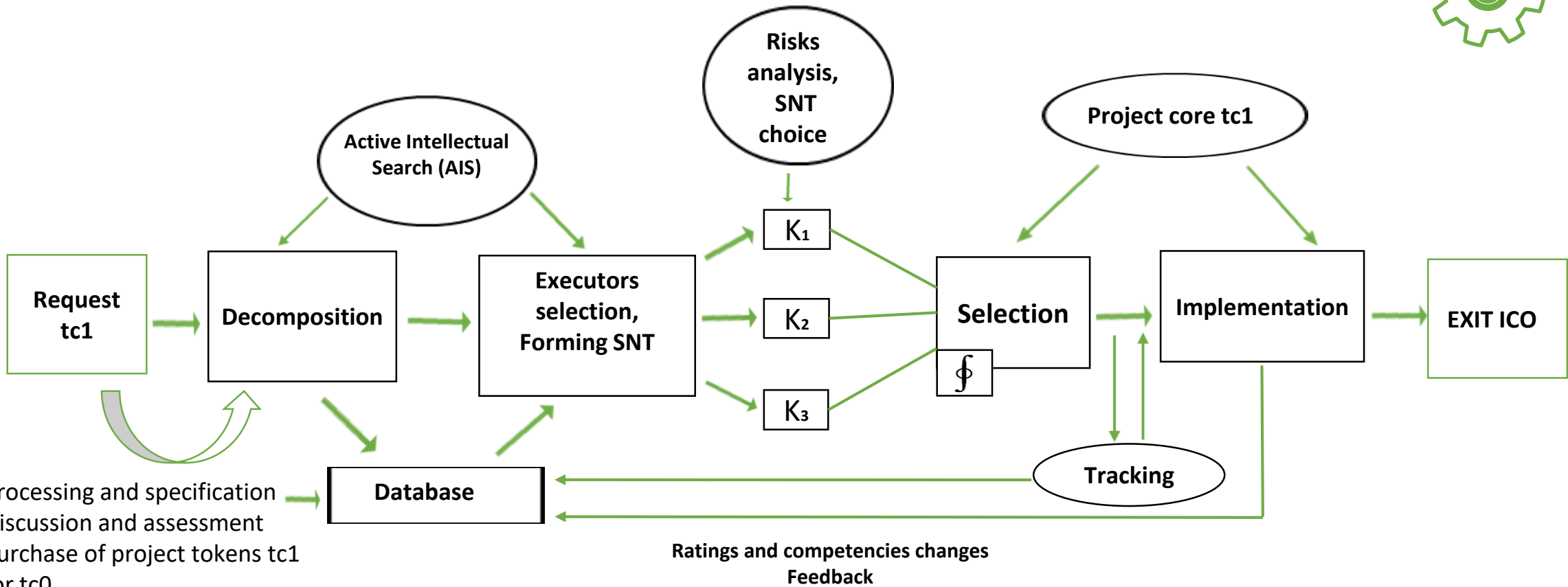
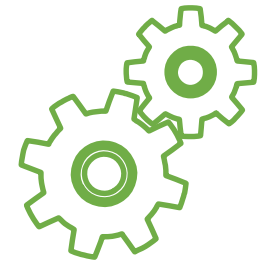


# Tools of the Platform



1. For Tasks decomposition **AIS (Active Intellectual Search)** is used that allows to work with external information: semantic search system that allows to decompose the task and select the appropriate executives with actual and confirmed expertise for every part of the task with their active confirmation of readiness to participate.
2. **Tokenization** allows to issue tokens tc1 for every project from the moment of their introduction on the platform. It will provide distribution of shares according to the participants' activity in this project.
3. **Blockchain** technology records all users' activities on the platform, including their intellectual property rights activities.
4. **Task execution tracker** allows to control stages of execution (validation of stage by stage payment), it provides structured information of the project and decreases risks of non-execution and arbitration tribunal.
5. **Big Data** technology allows to produce rankings according to any of the selected criteria, which makes it possible to assign weighting factors to a participant when making decisions on various types of tasks (a participant can act in various roles: expert, active participant, voting-founder, arbiter, customer, investor and etc).

# Logic of Task Solution Process



## Forming a Scale Network Team to Solve a Specific Problem



An Idea/task (hereafter Project) is published by the author/customer on the platform. The platform issues tc1 tokens for it. AIS determines a set of the necessary competencies for the solution (decomposition) and sends out requests to participants with the appropriate competences. If the necessary competence is not inside the platform or it is “expensive” a request is sent outside. When the appropriate candidate is found the author/customer can make an offer for him in tc0, tc0 + tc1 or in money. In this way a Scale Network Team is formed (SNT).

# Project Status



We have developed a digital platform for Universities. Its participants are students, laboratories, small companies, technological brokers. It was made without tokenization and blockchain. The mechanics of transition of task from setting to building a team and a solution.

The following tools have been developed and conceptually implemented:

1. Task decomposition
2. Assessment of the entire task and its parts within the community of platform participants
3. Selection of appropriate executors according to the competencies graph
4. Dynamic change in rating according to competencies
5. Manual reward mechanism





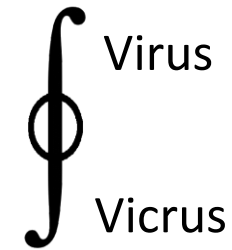
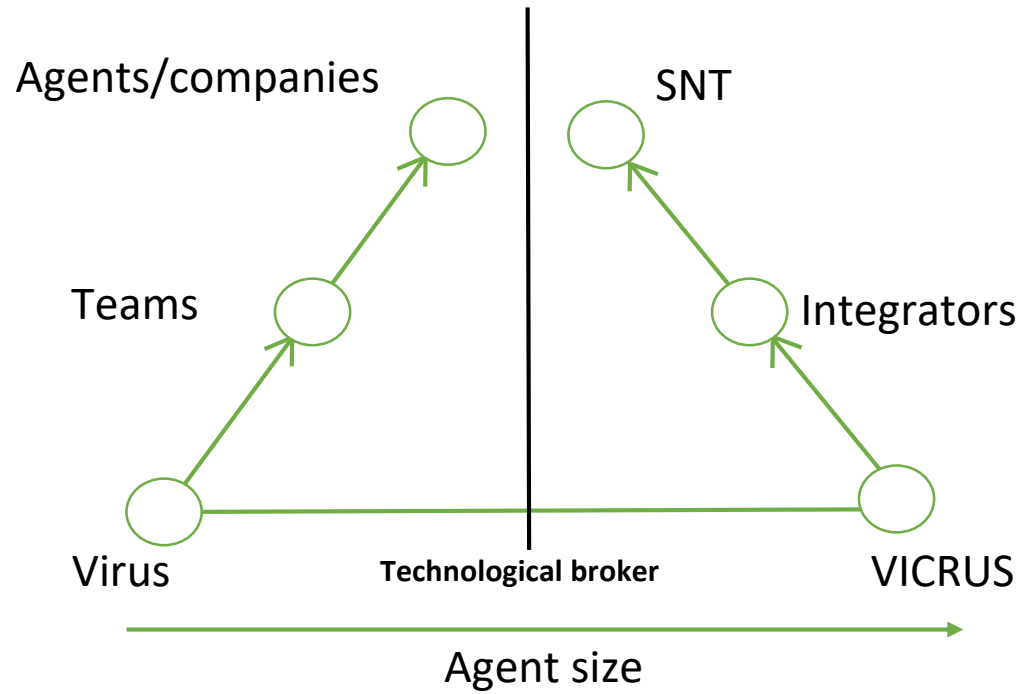
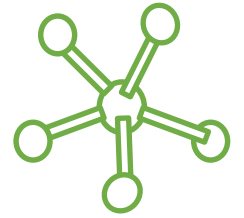
## What Should Be Done Next?

It will be necessary to integrate mechanisms of tokenization and blockchain into the existing algorithms of the platform. Platform token tc0 will be introduced to minimize the level of participation of moderators and fully realize all the functions of the platform. It will allow every participant to understand his or her role on the platform and use his or her proactive position to get the maximum reward.

The following mechanisms must be developed additionally:

- 1) Search and interaction with the external environment for high-quality building of network teams and getting the necessary expertise
- 2) Integration of all participant ratings and information within a single parameter - reputation and introduction of a participant's personal token as a result of it
- 3) «Risk rating» is a participant's risk of not fulfilling his or her obligations and blockchain-based arbitration (tied to clause 2)

# Digital Platforms Landscape



Vicrus algorithms optimization on the basis of Virus

## How Can we Cooperate?



**To implement such a global project our group needs partners both for further development and testing within bigger groups of companies and corporation that need R&D solutions.**

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