

# DEIP

decentralized research platform  
entirely governed by the scientific community

DEIP

DEIP enables researchers to work effectively and **manage modern scientific workflows within one ecosystem**: get grants, conduct research, get published and reviewed by experts.

The platform is entirely governed by the scientific community, reinforcing its not-for-profit structure/reinforcing it being a not-for-profit.

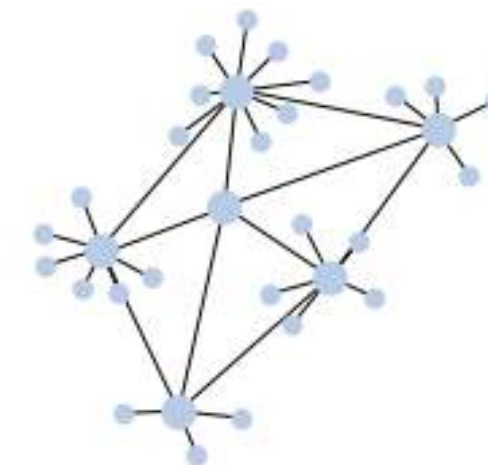
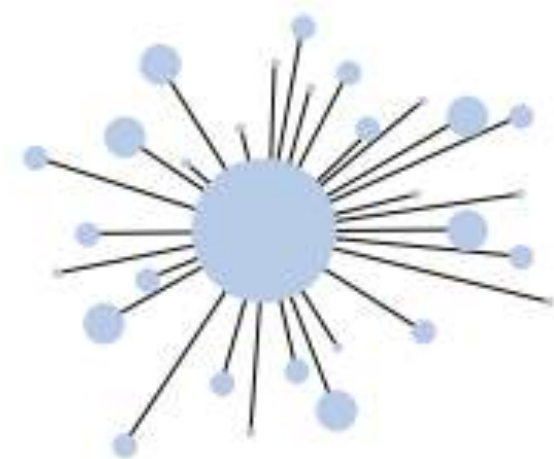
DEIP introduces **decentralized economy principles** to make scientific workflows more effective:

**How centralized systems work to date**  
(scientific journals, publishing houses etc.)

The main stakeholders – make all the important decisions and collect rewards, while scientists being left behind.

**How DEIP economic model works**

There's no central organization in charge.  
The researchers collectively make decisions on how grants are distributed, which researchers receive funding and afterwards are rewarded for their contribution to science.



DEIP introduces **decentralized economy principles** to make scientific workflows more effective:

- No fee to contribute
- Knowledge is in open access
- Expertise contribution is the main measure of reputation
- Research projects are digital assets
- The value of research as a digital asset is determined by the internal economy
- Scientific knowledge is directly monetized
- Emission of internal cryptocurrency is used to pay rewards to scientists
- Quality and objectiveness of research is incentivized by the economic model
- Platform is governed by the scientific community

# **DEIP opportunities for researchers and research groups**

# Be rewarded

Researchers – not the intermediaries like journals – are rewarded for the scientific contribution at the platform. In addition, they grow their reputation and can influence decision making.

The screenshot displays a user profile for a researcher. On the left, a 'Timeline' section shows a 'START' button and a series of blue dots representing milestones. A callout box highlights 'Chapter 2, Sharding capabilities of ...' dated '28 Jan, Alex Shkor'. Below the timeline is a 'Research' section with a list of four chapters, each with a dropdown arrow. The right sidebar contains several sections: '123 FOLLOWERS' with a 'FOLLOW' button; 'Reviews: 2' with an 'Add a review' button offering a 'reward 15%'; 'Citations: 10' and 'References: 7'; 'Research info' with 'Review reward 15%' and 'Total views 23 900'; and 'Total earned' with a breakdown: 'DEIP tokens 1000', 'Physics 900', 'Quantum Physics 500', and 'Computer Science 120'. A light blue circle highlights the 'Total earned' section.

Total earned	
DEIP tokens	1000
Physics	900
Quantum Physics	500
Computer Science	120



# Attract funding

Among DEIP members are funding agencies. They are motivated to use the platform as it facilitates their grant distribution processes.



# Tokenize

their research and thus monetize it. Each research published at DEIP is automatically granted Research tokens. Their owner – research group – can sell them to investors and attract financing.




Minsk Distributed Systems Research Group / Proposals / Token Sale

## Token Sale

**Solutions of differential systems with random and generalized components**  
Artyom Ruseckiy · Alex Shkor · Egor Tsaryk

This paper focuses on systems of differential equations with generalized coefficients and random components. The results of the paper refer to fundamental research and can be applied in the theory of stochastic differential equations with generalized coefficients.

Differential equations 599 2 20 Jan 2018

Started By:	 <b>Artyom Ruseckiy</b> Belarusian State University	On sale:	20%
Quorum: 100%	 <b>Alexey Kulik</b> Belarusian State University of Informatics and Radioelectronics	Soft Cap	100 000
	 <b>Egor Tsaryk</b> Belarusian State University of Informatics and Radioelectronics	Hard Cap	200 000
		Start:	May 20, 2018, 11:05
		End:	Jun 20, 2018, 00:00
		DEIP tokens spent:	10 000
		Research tokens bought:	3,71%



# Open access

to all research at the platform. All papers at DEIP are free to publish, cite and read. The authors whose papers are cited earn rewards from the platform. The copyright is guaranteed by blockchain protocol.

The screenshot displays the DEIP website interface. At the top left is the 'DEIP' logo. The top right navigation bar includes a search icon, a notification icon, a profile picture, and a blue 'Add Research +' button. Below the navigation bar, the left sidebar shows a 'Discipline' menu with categories: Humanities, Social sciences, Natural Sciences (Biology, Chemistry, Earth sciences, Space sciences), and Physics (Mechanics, Medical physics, Molecular physics, Newtonian dynamics, Nuclear physics, Optics, Plasma physics, Quantum physics, Solid mechanics, Solid state physics, Statistical mechanics, Theoretical physics, Thermodynamics). The main content area shows search filters for 'Quantum Physics' and '2018'. The 'SORT BY' options are 'Date', 'A-Z Title', 'A-Z Author', 'Reviews', 'Votes', and 'Citations'. The search results are displayed as a list of four papers, each with a title, authors, a 'Physics' tag, view counts, comment counts, and publication dates. The first paper is 'Phonon avalanche caused by the nonequilibrium of a dipole reservoir' by Esmeralda Mccurley, Gordon Rydberg, and Lena Mcfarling, published on 20 Jul 2018, with 1391 views and 3 comments. The second is 'Magnetism in metals and its influence on spin dynamics of conduction electrons' by Floria Ptacek, Raquel Oliveras, Alba Andersen, Ruben Dufault, Kera Loughran, Arlie Leger, Joanne Neilsen, and Sherell Golliday, published on 10 Jul 2018, with 599 views and 18 comments. The third is 'Functions of non-equilibrium electrons distribution' by Asha Gearing, Trula Bynoe, and Kurt Reinecke, published on 5 Jun 2018, with 9 views and 23 comments. The fourth is 'Magnetism in superconductor layered structures' by Artyom Ruseckiy, Egor Tsaryk, and Alexey Kulik, published on 1 Jun 2018, with 19 views and 7 comments. A 'Collapse all' link is visible in the top right of the results area.

DEIP

MY CHOISE Quantum Physics X 2018 X

SORT BY Date A-Z Title A-Z Author Reviews Votes Citations

Search results: 108 Collapse all

**Phonon avalanche caused by the nonequilibrium of a dipole reservoir**  
Esmeralda Mccurley · Gordon Rydberg · Lena Mcfarling  
Physics 1391 3 20 Jul 2018

**Magnetism in metals and its influence on spin dynamics of conduction electrons**  
Floria Ptacek · Raquel Oliveras · Alba Andersen · Ruben Dufault · Kera Loughran · Arlie Leger · Joanne Neilsen · Sherell Golliday +10 more  
Physics 599 18 10 Jul 2018

**Functions of non-equilibrium electrons distribution**  
Asha Gearing · Trula Bynoe · Kurt Reinecke  
Physics 9 23 5 Jun 2018


**Magnetism in superconductor layered structures**  
Artyom Ruseckiy · Egor Tsaryk · Alexey Kulik  
Physics 19 7 1 Jun 2018

Author

# Get reviews

by the professional scientific community for free. DEIP incentivizes its members to peer-review each other's works, and other expert members ensure that the review be of high-quality and unbiased.

**Reviews: 2**




Gordon Rydberg

20 Jan 2018 **Positive**

This paper focuses on systems of differential equations with generalized coefficients and random components. The results of the paper refer to fundamental research and can be applied in the theory of stochastic differential equations with generalized coefficients. The paper is well written, easy to follow and cites the most significant papers in the field. Below are my thoughts and suggestions on what else could be done in the continuation of the research. [more](#)

VOTE Phys. 2320

Quantum Optics 300 | Quantum Physics 78 | Physics 287



Cheryl Janson

20 Jan 2018 **Negative**

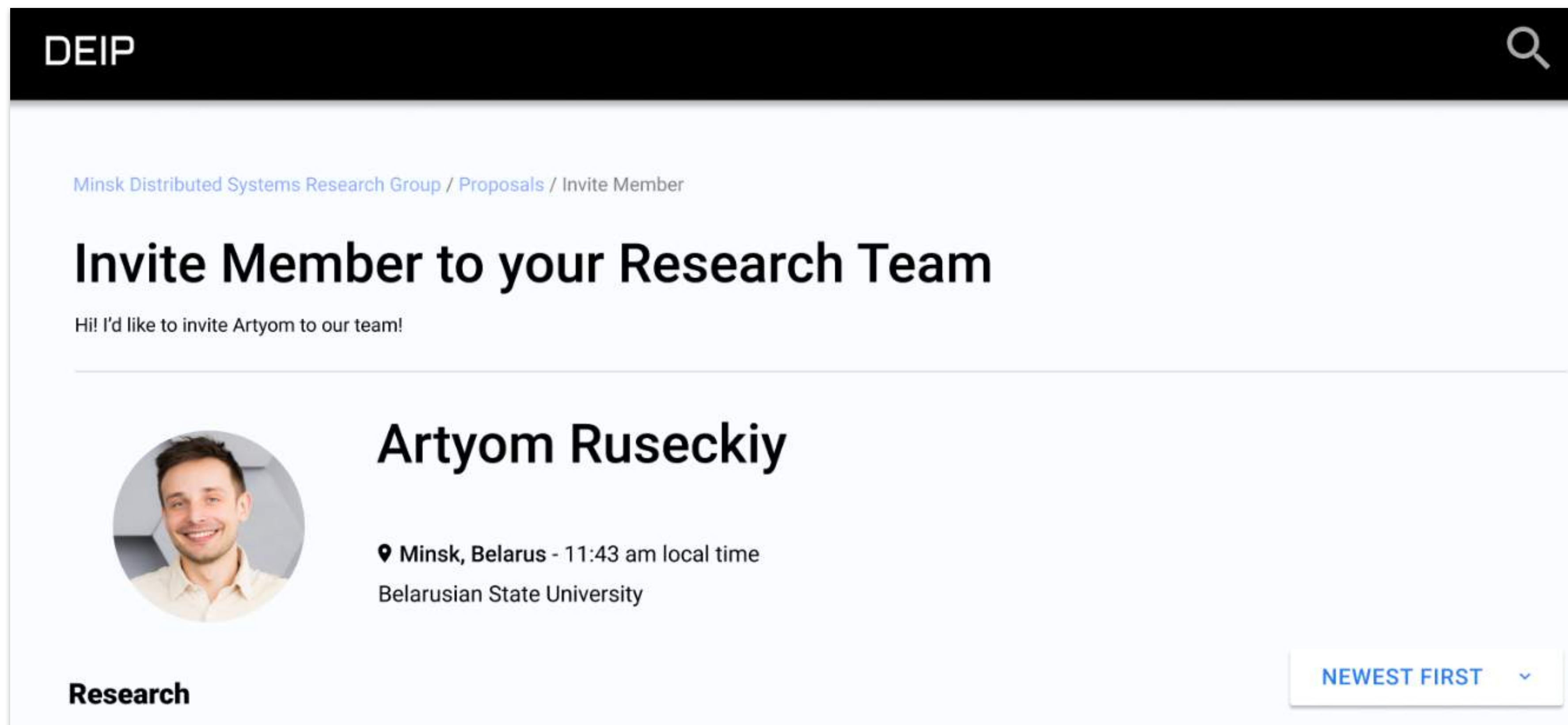
Although the research is well-structured, there are some issues about the assumptions that are not quite solved. Furthermore, the paper is sparsely cited and does not connect strongly to existing literature. [more](#)

VOTE Phys. 9520

Quantum Optics 21 | Physics 8787

# Invite new members to a research team or join a research

Each member of the platform has a profile representing their expertise contribution in a particular field within the platform. Research groups can view it and invite to join.



The screenshot shows the DEIP interface for inviting a member to a research team. At the top, the DEIP logo is on the left and a search icon is on the right. Below the header, a breadcrumb trail reads "Minsk Distributed Systems Research Group / Proposals / Invite Member". The main heading is "Invite Member to your Research Team". Below this, a message says "Hi! I'd like to invite Artyom to our team!". A horizontal line separates this from the profile of Artyom Ruseckiy. The profile includes a circular profile picture of a man, his name "Artyom Ruseckiy", and his location and time: "Minsk, Belarus - 11:43 am local time" and "Belarusian State University". In the bottom left corner, the word "Research" is displayed. In the bottom right corner, there is a button labeled "NEWEST FIRST" with a dropdown arrow.

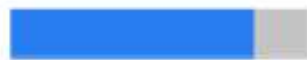




# Influence the development of their discipline

and science in general. DEIP members influence all decisions made on the platform: how grants will be distributed, how the platform itself will work and even look like etc.

### Research assessment

With your expertise tokens you can assess the following disciplines:

Discipline	Research tokens	Your expert tokens				
<b>Phys.</b>	12 000	4800		<table border="1"><tr><td>2400 tokens</td><td>50%</td></tr></table>	2400 tokens	50%
2400 tokens	50%					
<b>Quant. Phys.</b>	2 000	240		<table border="1"><tr><td>120 tokens</td><td>50%</td></tr></table>	120 tokens	50%
120 tokens	50%					
<b>Quant. opt.</b>	500	120		<table border="1"><tr><td>60 tokens</td><td>50%</td></tr></table>	60 tokens	50%
60 tokens	50%					

[Assess](#)

# How the platform works



# How the platform works

As a decentralized economy model, DEIP works through a **system of tokens**, each of them corresponds to a platform's particular function.



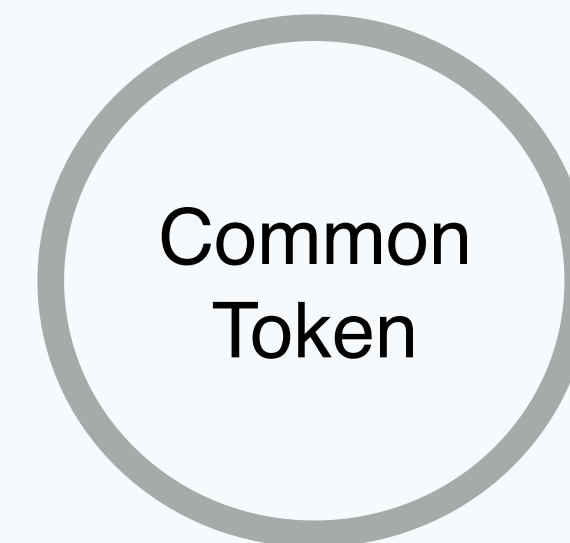
**Internal currency** of the platform used to reward scientists, finance research, distribute grants etc.



Instrument of **research group management**. Allows to facilitate collaboration within the group, establish project and leadership roles, voting rules etc.



DEIP most fundamental token that enables its members to **govern the platform** and influence grants distribution. The token can't be given or bought; it is earned as a proof of scientific contribution evaluated by experts from the corresponding discipline.



A **technical** token given to each new participant of the platform. It enables them to use all DEIP opportunities without any fees.



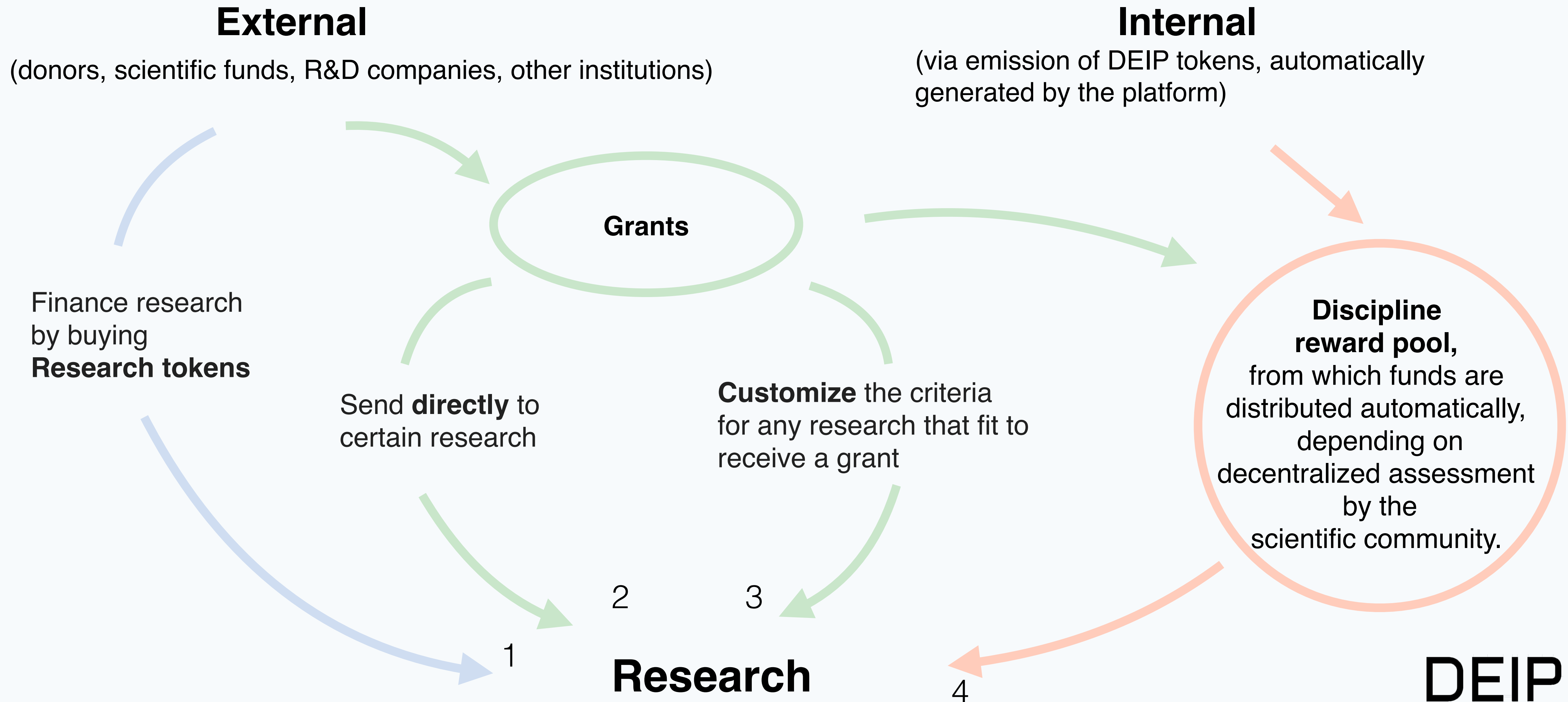
Equivalent of **ownership rights** for research. Initially a research group owns 100% of them and can sell some to attract financing. Research token holders get a correspondent part of all future passive income generated by the research.



Allows to create, curate and monetize **journals** on the platform.

# How research is funded at DEIP

2 sources of financing:



# **Some other insights into DEIP**

**Expertise contribution** and **expertise tokens** are in the core of all the processes at DEIP. They are earned through scientific contribution to the platform and used for researchers to govern it.

### Select Disciplines you're Working With

this is very important for the distribution of the expert tokens

POPULAR	ALL
Physics	Humanities
Quantum Physics	Social sciences
Quantum potics	Natiral Sciences
	Biology
	Chemistry
	Earth sciences
	Space sciences
	Physics
	Mechanics
	Medical physics
	Molecular physics
	Newtonian dynamics
	Nuclear physics

▲ Please be accurate, you'll need community assistance to change the disciplines

SET DISCIPLINES

Search, Messages, Profile, Add Research +

INVITE TO THE GROUP

### Expertise

Computer Science 712 045

123 Followers FOLLOW

ic paradigms. Dramatically  
nal supply chains.

BEST FIRST

linkedin.com/in/alexshkor

Alexshkor

Alexshkor

Alexshkor@deip.world



All collaboration on research is public and **tracked in the blockchain**.  
DEIP stores **time-stamped proof of authorship** and ownership to an immutable registry.

The screenshot displays a user profile on the DEIP platform. The main content area is divided into two sections: 'Timeline' and 'Research'. The 'Timeline' section features a horizontal line with five blue circular markers. The second marker from the left has a callout box containing the text 'Chapter 2, Sharding capabilities of ...' and '28 Jan, Alex Shkor'. To the right of the timeline are links for 'Details' and 'Roadmap'. Below the timeline is the 'Research' section, which lists four chapters with expandable dropdown arrows on the right:

- Chapter 1 [Efficient strategy of selection of bounded contexts within aggregate model in distributed systems](#)
- Chapter 2 [Sharding capabilities of append-only storage \(event store\)](#)
- Chapter 3 [Finality of distributed transactions in command-query responsibility segregation systems](#)
- Chapter 4 [Uniqueness constraints handling approaches in distributed systems](#)

At the bottom left of the main content area, it says 'Reviews: 2'. On the right side, there is a sidebar with several statistics and actions:

- 123 FOLLOWERS and a FOLLOW button.
- Reviews: 2, with a button '+ Add a review reward 15%'.
- Citations: 10 and References: 7.
- Research info table:

Review reward	15%
Total views	23 900
- Total earned table:

DEIP tokens	1000
Physics	900
Quantum Physics	500
Quantum Optics	120



Each research in every discipline is **evaluated and ranked** through decentralized assessment. Investors can make decisions with more confidence.

## Reviews 1/1



**Prof. Gordon Rydberg**  
Imperial College London

20 Jan 2018 **Approve**

**Review to:** [Monotonectally benchmark leading-edge.](#)

This paper focuses on systems of differential equations with generalized coefficients and random components. The results of the paper refer to fundamental research and can be applied in the theory of stochastic differential equations with generalized coefficients. [Read more](#)

Computer Science +300 ECI | Quantum Physics +78 ECI | Physics +2087 ECI



**Prof. Cheryl Janson**  
Institute for Theoretical  
Physics, Zurich

20 Jan 2018 **Reject**

**Review to:** [Monotonectally benchmark leading-edge.](#)

Although the research is well-structured, there are some issues about the assumptions that are not quite solved. Furthermore, the paper is sparsely cited and does not connect strongly to existing literature. However, the authors explained that the observed bulges are not due to mechanical deformation of their observation. [Read more](#)

Computer Science -200 ECI | Physics -100 ECI

You can **initiate a token sale** and thus attract funding to your project in just a few clicks. In the same way, it takes the other side a few clicks to send you DEIP tokens.

1 Amount      2 Start/End Date      3 Soft/Hard Cap

**Please type token Amount (%) you're going to sell**

20%  
80% left

[Back](#)      [NEXT](#)

### DEIP

## My Wallet

Token	Amount	Actions
DEIP token ?	12 000	<a href="#">SEND</a>
DEIP common ?	10 000	<a href="#">CONVERT</a>

### Research Tokens ?

TITLE	MARKET PRICE (Deip Tokens)	AMOUNT	ACTIONS
<b>Anaerobic Sludge Blanket Reactor Technology</b> Floria Ptacek · Raquel Oliveras · Alba Andersen <a href="#">+10 more</a>	10	10 %	<a href="#">SEND</a>
<b>Deep Gravitational Lensing survey</b> Ruben Dufault · Kera Loughran · Arlie Leger · Joanne Neilsen · Sherell Golliday	20	20 %	<a href="#">SEND</a>
<b>Magnetism in metals and its influence on spin dynamics of conduction electrons</b> Asha Gearing · Trula Bynoe · Kurt Reinecke	10	10 %	<a href="#">SEND</a>
<b>Magnetism in superconductor layered structures</b> Esmeralda Mccurley · Gordon Rydberg · Lena Mcfarling	10	10 %	<a href="#">SEND</a>



A research can **permanently generate income** for its Research token holders when cited in other research projects.

3. Passive reward sent to Research A is distributed among Research token holders correspondently to the percentage they own



2. X, Y, Z each sends 10% of their reward to Research A for citing it



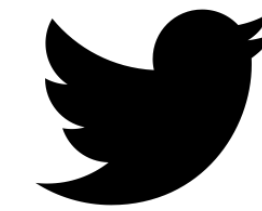
1. DEIP tokens are emitted to reward Research projects X,Y,Z (in case they're acknowledged to be of scientific value by the scientific community)

# DEIP.WORLD

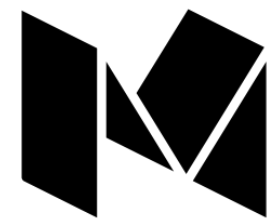
DECENTRALIZED RESEARCH PLATFORM



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