

WHITEPAPER

# INTERNATIONAL SCIENCE HUB

decentralized scientific platform

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## Problem

At the moment, scientists have difficulties in interacting with each other both within the scientific community and with the rest of the world, including representatives of business and the state. Scientists and specialists of different profiles often can not find application to their knowledge at the location where they are due to the lack of the necessary equipment and personnel, or due to the lack of demand for their knowledge. Very often there is a situation that in a certain area there are all the resources necessary for the study, but the necessary specialists are in short supply. The current conflict of resources significantly stops the development of scientific and technological progress.

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## Goal

The purpose of the international Science Hub platform is to create a working environment that would allow scientists from all over the world to unite. Users of the platform will be provided with all the functionality necessary for the most complex and time-consuming projects.

Thus, the specialist will be able to realize his free time; he will be able to find a solid part-time job, solving the tasks that are set by the customer, or even make work on the platform the main source of profit.

Customers, in turn, will be able to quickly search for specialists of different profiles and levels of training, which will greatly affect the speed of the study.

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## Platform

ISH "International Science Hub" is a decentralized scientific platform which is aimed at increasing the availability, quality and speed of scientific developments, innovations and technologies. The platform is based on the social network to create the required communication environment. On this basis, the platform integrates the necessary tools for collective execution of works, such as the system of tenders. The system of tenders, a tool for the organization and execution of works by a variety of specialists based on advanced outsourcing technologies. For a long time there are outsourcing platforms for designers, managers and programmers, but there is still no such platform for researchers.

We provide an opportunity for scientists of different profiles to work from anywhere in the world.

## Platform description

Any customer who has placed his project will be able to choose the researchers that he needs at the expense of our rank and reputation system in a matter of hours. The functionality of our platform will allow to establish a high level of response between the team members, which in turn will significantly affect the quality of the work done and will allow to complete the project as soon as possible. Platform participants will have the opportunity to publish their achievements, whether research, development or participation in conferences in their personal portfolio. Thus, the rest of the platform participants will be able to evaluate and comment on the achievements of other people, directly asking questions related to the projects.

## Platform features

- The system of tenders will allow to simplify the process of personnel selection for any project, as well as help to find quality performers.
- We have created a system of startups that will attract significant capital for independent research.
- We will simplify the conduct of commercial relations between business representatives and people of Science by delegating solutions to legal issues to the platform.
- ISH will give young scientists and students the opportunity to solve real practical problems and, accordingly, to earn on them already at the stage of training.
- Our platform has an advanced rating system for all participants of the platform, which creates a competitive environment between the participants and allows the customer to choose the best specialists.
- ISH will have its own library of knowledge that will allow young professionals to draw knowledge without any restrictions.

## Tender system

The system of tenders is a platform designed to place orders for the execution of works (tenders), search for performers and conduct the project at all stages of its implementation. The ability to decompose the task into a number of separate stages allows for adaptive planning and project management.

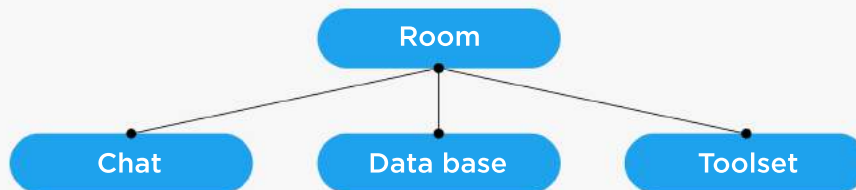
### • Concept

**The tender is issued in several stages:**

- 1) a technical specification describing the requirements for the final product, initial data, terms, a preliminary plan for the stages of work is being formed.
- 2) the Customer independently or with the help of the Manager creates a list of specialists required for the tender, their qualifications and the desired rating, as well as the share of funding that will go to the performer of a specific task.
- 3) the Customer buys a Science Token and reserves it, a smart contract is drawn up.
- 4) a tender with a list of required specialists distributed in time in accordance with the work plan is published on the site.
- 5) the project is assigned to a supervisor, a specialist with relevant knowledge of the specifics of the study area, leading the project at all stages of its implementation.
- 6) the Responding specialists are selected by the customer in accordance with the rating, background, and a number of other indicators. For each performer a contract is formed, which describes all the nuances associated with the acceptance of works. The contract also stipulates the remuneration for the contractor and guarantees for both parties to the transaction.
- 7) the non-linear stage of work performance Begins, at this time the specialists participating in the tender are provided with access to the tender room to provide quick feedback from the performers within the group with the customer.
- 8) participants who have fulfilled their duties receive payment, as well as rating points.
- 9) after the delivery of all works and checking them for correctness, the tender is announced to be completed, the customer receives all the results of the working group, all the performers receive a mark in their profile that they participated in this tender for a specific position.

- **Working group**

The working group is a set of all specialists participating in the project. Each working group has its own room. The project room provides a common chat for communication of performers within the group, tools for monitoring the implementation of current tasks, data storage. Within the working group, tasks are distributed according to the agile methodology.

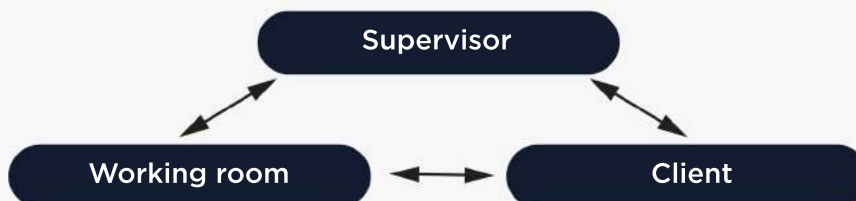


- **Rating system**

The rating of a specialist is an indicator of the quality of his work. The rating is made taking into account the achievements in the projects carried out by the specialist. The number of work performed, the quality of execution, the importance of projects are taken into account. Each user, at the beginning of his career, will have a neutral rating, that is, averaged over all users of the platform.

- **Control the execution of the tender**

Each working group will have a supervisor, a platform employee who will provide control over the timing of work, as well as provide legal support for the project and help to solve the issues arising during the work. Supervisor of the working group can be any verified user of the platform, and having the required skills to manage project teams and the necessary knowledge in the subject area of the project.



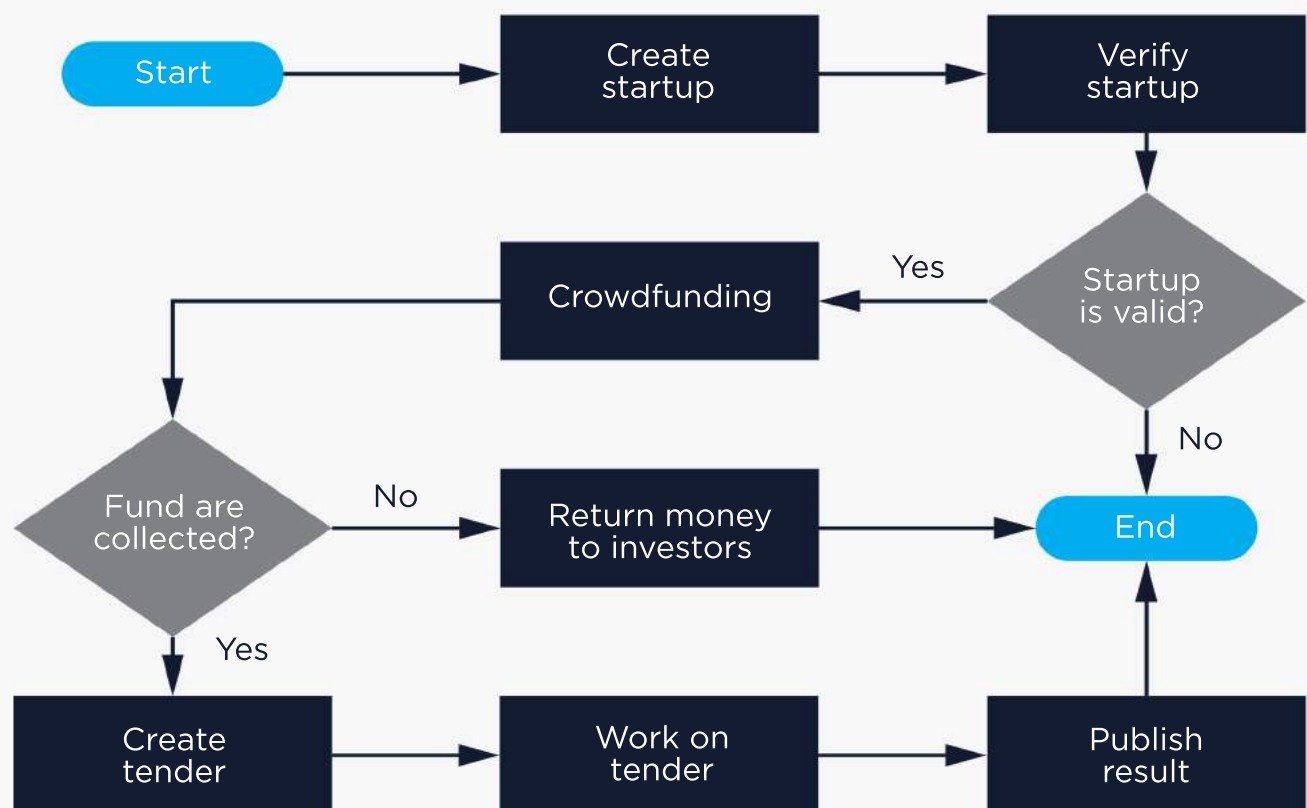


## Startup system

The system of startups is a crowdfunding platform that helps to attract funding for research purposes. The proceeds from the company's crowdfunding will be used to pay for the work of researchers engaged in the implementation of the project. The results of all startups are published in the public domain along with all accompanying documentation.

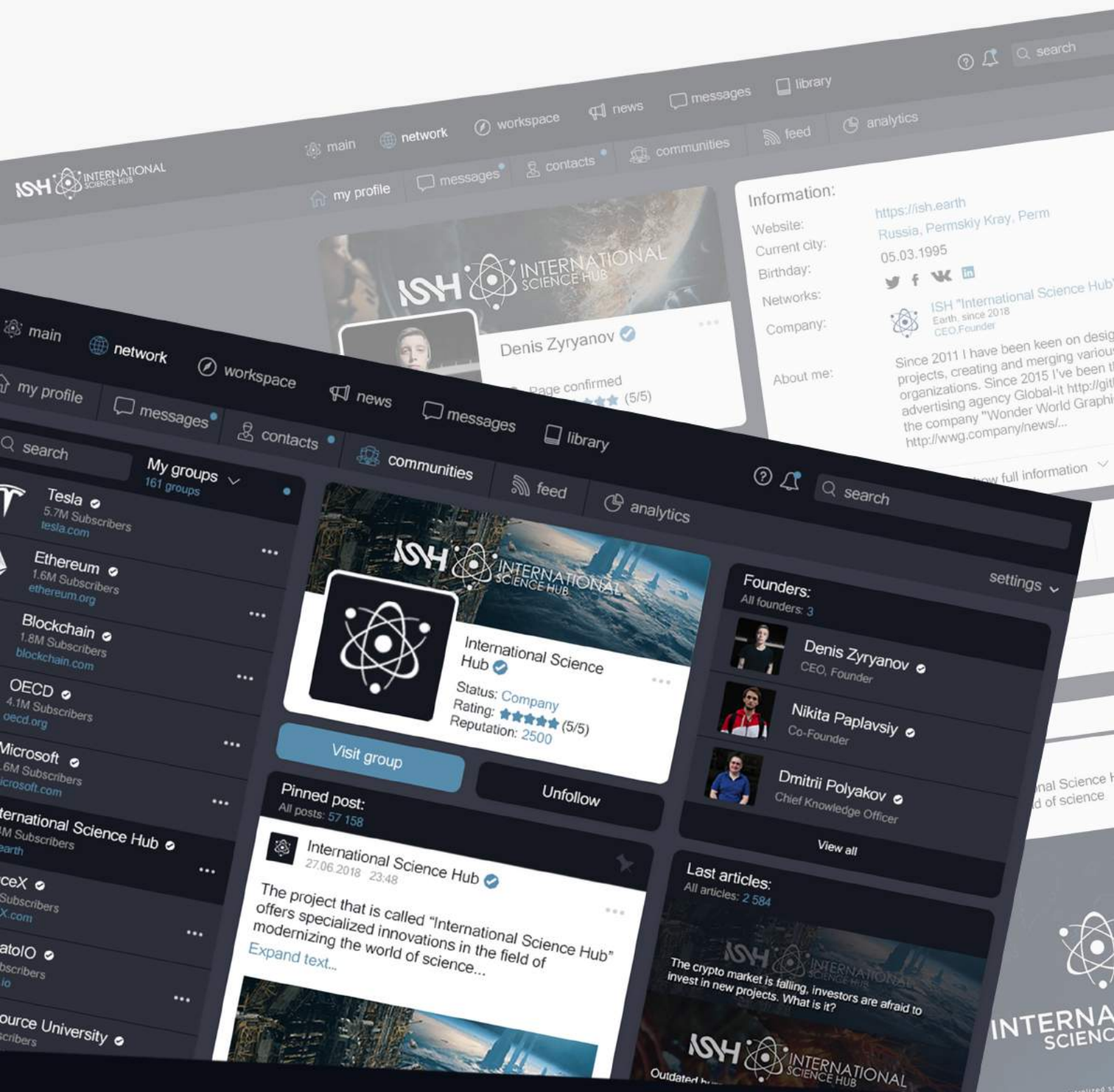
### The process of registration of a startup:

- 1) The user describes his idea and calculates the approximate cost of these works.
- 2) The evaluation Commission considers the application, and if it meets the requirements of the platform - approves the startup.
- 3) The fundraising begins. If the startup has not scored the minimum required amount for a certain period, the funds are automatically returned to sponsors.
- 4) In case of successful fundraising, a tender for the works described in the startup is formed and its implementation begins.



## Social network

The social network integrated into the platform will allow specialists to find new connections, publish works and share experience. This will create a favorable environment for communication and work within the platform. The internal rating system will help to choose the right performers for the customer. The social network is based on a subscription system that allows the platform participants to follow the authors they are interested in without the need to confirm the subscription by the second party.





## Intellectual property protection

Our team will provide legal protection of intellectual property to all users of the platform in accordance with international law. The platform will keep a record of all research on the platform in the register based on blockchain technology. This will allow researchers to confirm their authorship of their work in case of disputes.

## MOOC integration

The platform provides a platform for open online courses on the MOOC (Massive open online courses) concept. The courses of our partners will be placed on the site. During the course, the student will be offered training materials and practical tasks, the results of which are scored. To receive a certificate of completion of the course you need to score a fixed number of points for practical tasks. The certificate can be attached to the user profile in the future. Experience on our platform can be credited by the University, where the student is trained as the passage of research practice.

## Non-profit research

To support students and young scientists, the platform offers a number of research practices with the support of our partner universities. Practices are implemented in a system of tenders, the University publishes a set of practices for a specific profile, the group recruited participants and begins work on the task. In order to be able to pass the practice required to submit a document confirming the availability of the necessary knowledge: scan of the record book, certificates of completion of courses. Based on the results of practice, a decision is made on its protection.

## Knowledge base

Knowledge base, a repository of all research works ever done on the platform. All publications that have expired protection of trade secrets will be available for free access to all users of the platform. The platform will also help researchers to prepare materials for publication in leading publications around the world.

## Science Token (ST)

**Contract:** 0x2cf2d4919e639b25b806126eb5c97d043ffb0a70  
**Total Supply:** 500,000,000 ST  
**Decimals:** 8

### The purpose of the token

Our own token “ST-Science Token ” will help to avoid centralization of the economy within our platform. The token will completely replace any funds in research projects. If desired, those who did not have time to buy the “ST - Science Token” at the ICO stage, will be able to buy it on the partner exchange, and sell it there. The use of our token will help many specialists not to worry about their money, because it is completely safe. By choosing Ethereum, we have provided our users with the latest developments in the field of Blockchain. The platform that Ethereum provides is the best on the market. By choosing the Ethereum API, we have reduced the development and content costs of our Science Token. Our product will provide 100% low fee and fast transaction speed. In the future, our team plans to develop its own cryptocurrency built on our blockchain. This development requires time and money, so we can not provide it to our users at the start of the project.

### Token features

“ST-Science Token” will be presented on the internal exchange, the details of it will be announced later, as well as on legitimate exchanges-partners, which is why the holders of the token will be able to exchange it for cryptocurrencies for further withdrawal of funds for various purposes.

### Smart contracts

Smart contract is a convenient tool for tenders. It allows you to quickly and safely conclude a contract that will automatically pay the Science Token to the bidder (-s) for the work he has done. At the heart of smart contracts is the Ethereum blockchain platform, which makes it possible to perform it safely, and without the intervention of third parties.

## **ST as a means of payment**

Payment for all works on our platform, from freelancing to large commercial projects, is carried out in ST. Payments in ST for the executed order is a kind of salary. You can buy ST now within the ICO, and later on our local exchange, or on the partner exchange. Large customers in the face of business, who can not buy a token on the exchanges, will be able to purchase ST directly, through our Manager, by signing a contract with us and sending us the money to the account, we in turn undertake (as an intermediary) to buy the first positions of ST from our users on the internal exchange, in order to give them to the customer (the jurisdiction of the country and the policy of the Bank - in which we plan to work, allows to perform such operations). Thus, we do not lose the demand for Science Token and do not sell it directly. We understand that the crypto-currency market is unstable now, and in turn we will try to keep the price of ST, not allowing it to fall. To do this, we have a special reserve Fund, which we will use to protect our customers from the exchange rate fluctuations and ensure the liquidity of ST.

## **The use of ST in the tender**

The customer buys ST and then places a tender. After the placement of funds are reserved. A master contract is formed, smart contracts in which indicate the distribution of funds between specialists who will be hired for specific positions of the tender, as well as the conditions necessary for the payment. After hiring executors, a separate smart contract is formed for each executor in accordance with the master contract, which specifies the recipient of the payment . Full payment occurs only for the fulfilment of obligations on the part of the implementers according to the smart contracts. Individual transactions with reserved accounts, not stipulated by the master contract, are issued in the form of an additional smart contract by the customer. The payment system based on smart contracts provides transparency of payments and their terms for both parties of the contract.

## Token sale

At the initial stage, Science Token can be purchased during Presale or during 2 ICO rounds.

### **Presale (1 June 2018 - 15 August 2018)**

1 ETH = 3350 ST

Enter from = 3350 ST (1 ETH)

Softcap = 30 150 000 ST (9000 ETH)

Hardcap = 60 300 000 ST (18 000 ETH)

### **ICO part.1 (1 September 2018 - 31 October 2018)**

1 ETH = 1000 ST (Approximate cost)

Enter from = 10 ST

Hardcap = 100 000 000 ST (100 000 ETH)

### **ICO part.2 (1 November 2018 - 31 December 2018)**

1 ETH = 1000 ST (Approximate cost)

Enter from = 10 ST

Hardcap = 150 000 000 ST (150 000 ETH)

**ICO hardcap = 310 300 000 ST (268 000 ETH)**

*\* During the open ICO rounds (1 september 2018 - 31 december 2018), shares will be available when buying Science Token and other incentives.*

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## Use of funds

**Funds raised from the sale of tokens will be aimed at:**

- 1) Creating a platform (10%);
- 2) Development platform, maintenance personnel and office operations (45%);
- 3) The creation and maintenance of legal support systems (5%);
- 4) Marketing (10%);
- 5) Provision of volatility Ethereum (10%);
- 6) Team (10%),
- 7) Reserve ISH (10%).

**The distribution of tokens:**

- 1) Token sale on ICO (60%);
- 2) Reserve ISH (20%);
- 3) Exchange reserve(10%);
- 4) Team (10%);

*\* At all stages of development, we commit to publish full financial statements on the expenditure of funds collected during the ICO.*

## Roadmap

June 2018 - PRESALE of the tokens

4 Quarter 2018 - Start of the open round of ICO

4 Quarter 2018 - Beta Test of ISH Platform

1 Quarter 2019 - List Science Token (ST) to the exchange

1-3 Quarter 2019 - Formation of an international legal support service

2-3 Quarter 2019 - Development of a transnational intellectual property

3-4 Quarter 2019 - ISH Platform release

2020 - Opening of the international campus

2022 - Construction of an international scientific complex

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## Partners



Want to become our partner? Let us know by email: [info@ish.earth](mailto:info@ish.earth)

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