



GREENBAR



Engineering and IT- Solutions for vertical farming

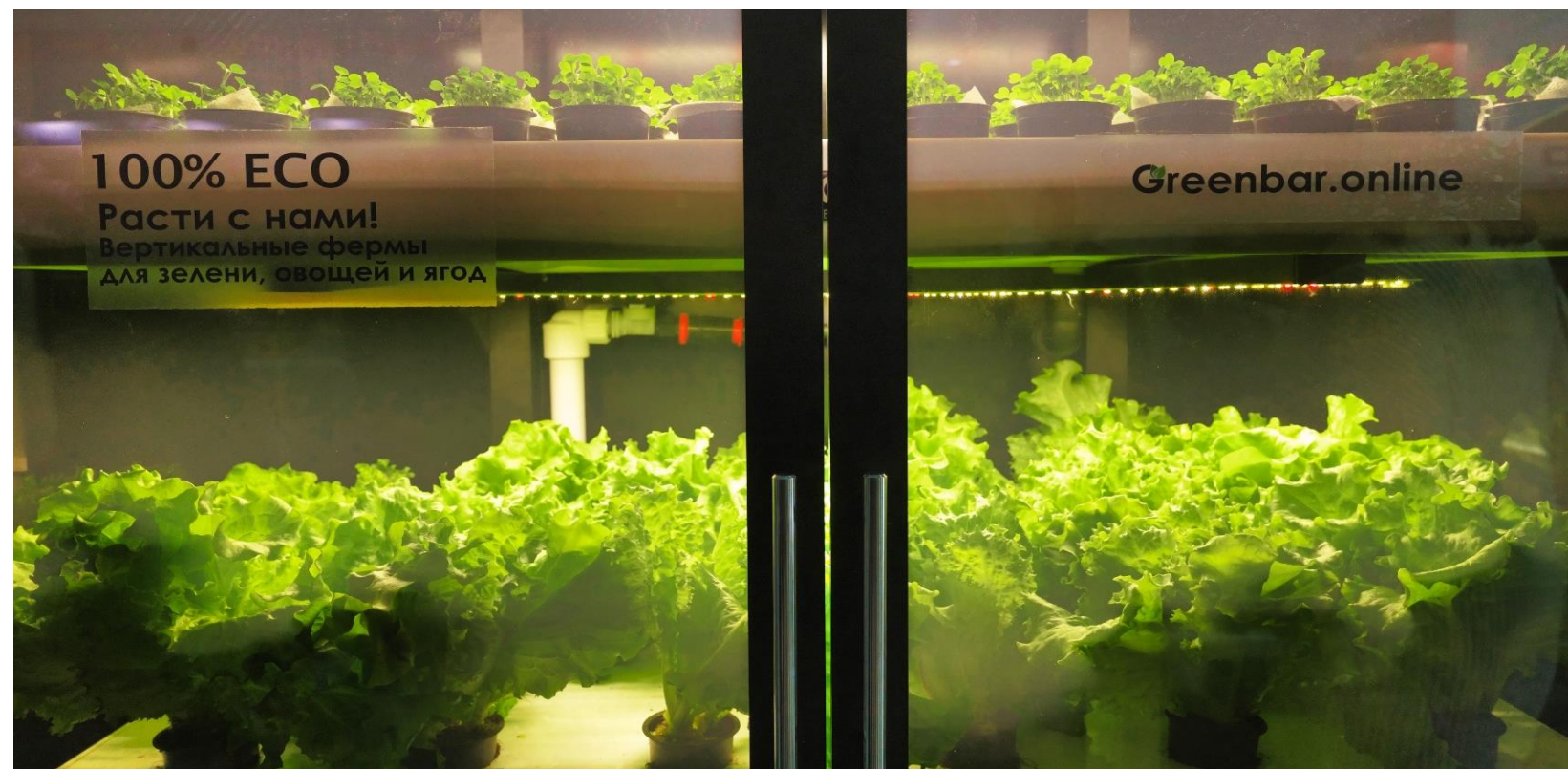
Invitation to partner with leading technology provider

Directory Member FoodTech 500 2021

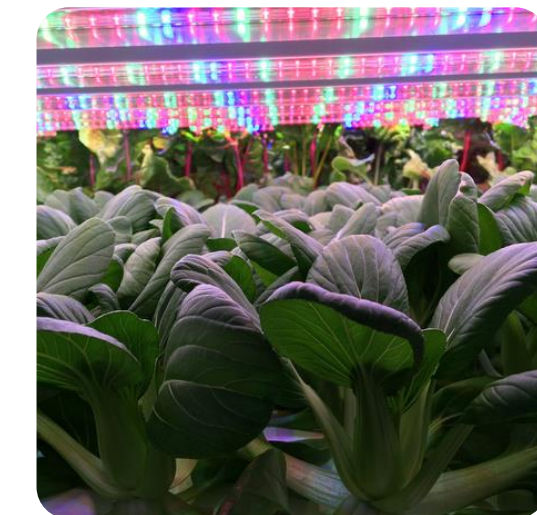


WE GROW

ON THE BASIS OF THE SOFTWARE "VIRTUAL AGRONOMIST"

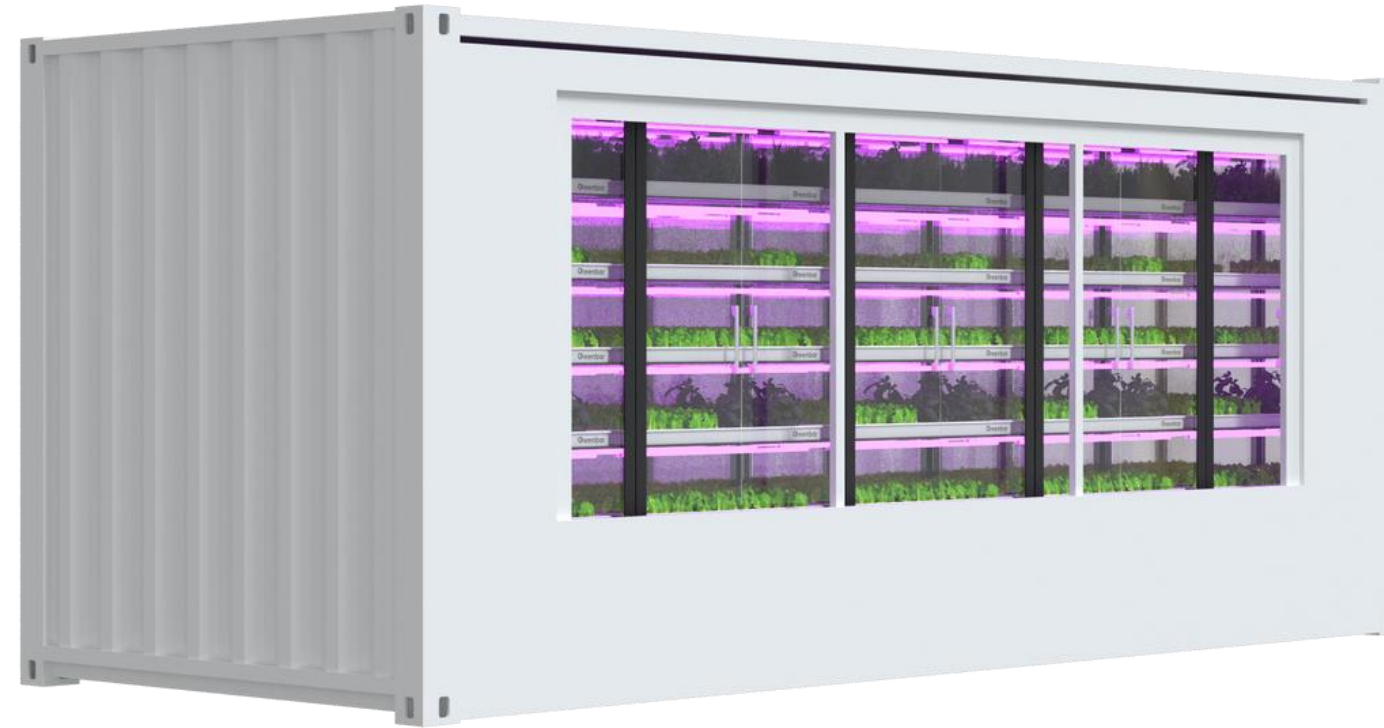


- ✓ MICROGREEN
- ✓ SALADS
- ✓ SPICES
- ✓ MEDICINAL HERBS
- ✓ EDIBLE FLOWERS
- ✓ BERRIES
- ✓ VEGETABLES
- ✓ FRUITS



Urban vertical farms

Our product line



**WE PRODUCE:
VERTICAL FARM MODULES AND CONTAINER
FARMS FOR GROWING ORGANIC FOOD AND
MEDICINAL PLANTS WITH AUTOMATED FARM
MANAGEMENT SYSTEM CALLED "VIRTUAL
AGRONOM".**

OUR SOLUTION

A NETWORK OF URBAN FARMS WITH A SINGLE CONTROL CENTER

NETWORK OF LOCAL FARMS CLOSE TO END CONSUMER
MINIMISING LOGISTICS AND SPOILAGE COSTS



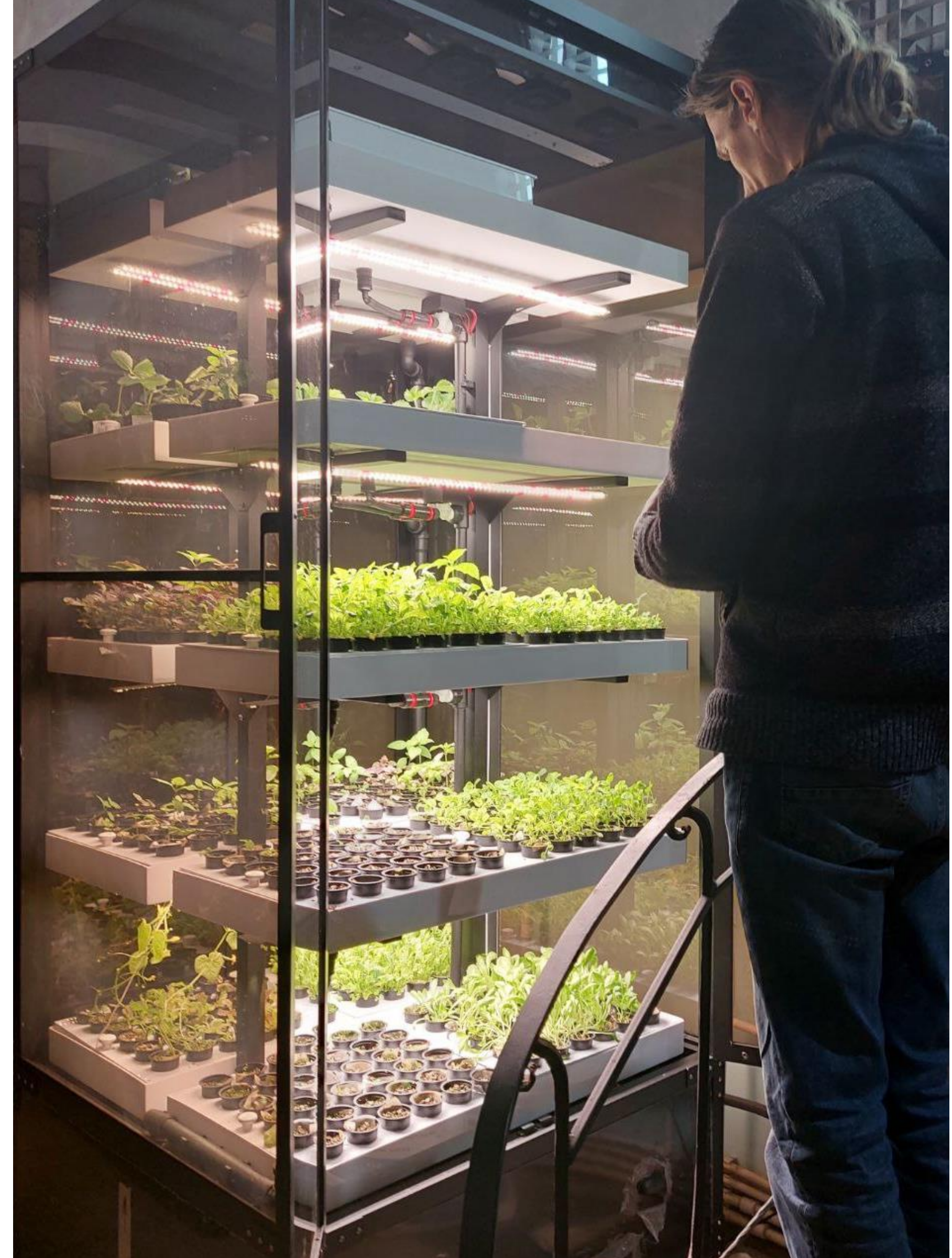
Green bar farm management system key features

- ✓ TEMPERATURE CONTROL
- ✓ HUMIDITY CONTROL
- ✓ PHYTOLIGHTING
- ✓ VENTILATION – CO₂ and POLINATION
- ✓ NUTRIENT CONTROL
- ✓ PLANT QUALITY CONTROL SYSTEM
- ✓ DATA LOGGING

System Advantages

COMPARED WITH HYDROPONIC FARMS

- ✔ 100% ORGANIC PRODUCE
- ✔ FULLY AUTOMATED CYCLE
- ✔ ZERO FOOD MILES
- ✔ 0% SPOILAGE
- ✔ FREE OF MOLD AND INSECTS
- ✔ NO GMO AND PESTICIDES
- ✔ 90% LESS WATER
- ✔ MINIMAL SPACE REQUIREMENTS
- ✔ STABLE PRODUCTION 365 DAYS A YEAR



ACCOMMODATION ADVANTAGES

Compared to hydroponics and other systems

✓ MINIMUM ROOM REQUIREMENTS

Heating t- +15-22

Water supply

Electricity supply 220V

✓ NO HIDDEN COSTS

Minimum room renovation requirements

Does not require built-in exhaust and ventilation

Does not require an industrial zone for water treatment and communications as in traditional hydroponics

✓ BIO TECHNOLOGIES

Bioquantoponics technology - only organic food

Quality control systems according to 8 standards

Insects do not start in the system

The system does not stagnate or rot water and does not stink of a swamp. We use high quality food grade materials



Global Market Situation

Current trends



- Zero farms with Carlo Ratti to build Farmscraper – Jian Mu Tower The 51-storey building dedicates 10,000 square meters to the cultivation of crops, creating a vertical hydroponic farm.
- German startup **Infarm** received a \$ 2.5 million grant from the European Commission. Then, in several rounds, raised \$ 25 million \$ 75 million \$ 100 million \$ 170 million \$ 250 million
- American startup Plenty plans to open 300 vertical farms in China. In the future, the company intends to build its farms in all million-plus cities in the world.
- Plenty systems consist of multi-tiered shelves on which leafy vegetables grow under LED lights. The farm is 4,600 sq. It produces about 900 tons of lettuce by meters - 350 times more than in the fields and greenhouses of the same area.
- Bayer partners invest \$ 30 million in vertical farming venture
- Elon Musk's brother opened his network of container farms for an investment of \$ 200 million

URBAN INNOVATION SOLUTIONS

Smart farms built in to modern buildings. Innovative technologies will bring buildings and city to new levels of sustainability.

- ✔ ZERO FOOD MILES
- ✔ REDUCED CO2 EMISSIONS
- ✔ FOOD AND OXYGEN PRODUCTION
- ✔ FARMS CAN REDUCE AIRCONDITIONING COSTS
- ✔ RATIONAL USE OF SPACE
- ✔ IMPROVED CITIZEN HEALTH



SUSTAINABLE DEVELOPMENT

WE ARE IMPLEMENTING 12 OF THE 17 UN GOALS

- ✔ Environmental and non-financial reporting
- ✔ Environmental management system according to International standards
- ✔ Biotechnology - with the help of artificial intelligence it is possible to receive income from 1 month of launch
- ✔ Compliance with International Environmental Standards and UN Sustainable Development
- ✔ Always live products at arm's length
- ✔ Stabilization of nutrient solutions 0 waste and fertilizers
- ✔ Transformation of existing CSR costs from irretrievable to socially oriented
- ✔ Return on investment and their subsequent reinvestment in new facilities
- ✔ Increasing socially important facilities and the quality of their services
- ✔ Formation of a sustainable level of benevolence of the population with the existing level of investment in a socially-oriented object
- ✔ REDUCING THE CARBON FOOTPRINT IN SUPPLY



PROJECTS AND CLIENTS

Russia

SPA Verba Maier

L E S restaurant

Bogdarnya restaurant

UAE

TAIGU Restaurant

Kazakhstan

Organic food store



PROJECT TEAM

GROW WHERE YOU WORK, EAT AND LIVE!



@greenbar365



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