# MODELING REACTIONS AND MATERIALS BY APPLYING THE LAW OF INTERDEPENDENCE INSIDE OF ELEMENTARY PARTICLES

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# EXISTING PROBLEMS

## Energy

High energy costs - the high cost of products and services

## TIME for production

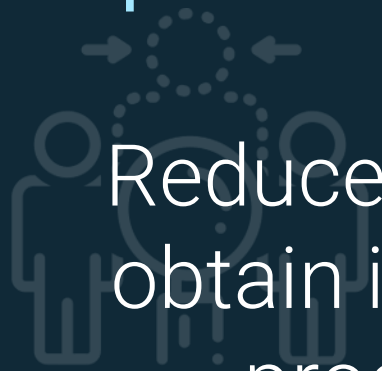
Existing manufacturing technologies consume a lot of time

## Materials

Existing materials inhibit the development of society

# THE LAW OF INTERDEPENDENCE INSIDE OF ELEMENTARY PARTICLES ALLOWS

## Receiving industrial products faster



Reduced time to obtain industrial products

## Get cheaper energy

Companies and people will reduce energy costs

## Get cheaper and more efficient materials

New materials will make life more comfortable and safer

# MY JOURNEY

**QUESTION**
Why haven't I created it yet?

**KHOW–HOW**
Physics - Mathematics Model

**IT REALLY WORKS**
The properties of particles according to the model coincide to experimental data obtained by various groups of scientists

**FIRST RESULTS**
The quark mathematical matrices of proton, neutron, pseudo proton, pseudo neutron and electron matrix are simulated

**APPLIED MODEL**
A new physical law is obtained

**PRIMARY DOCUMENTATION**

**PRESENTATION**

# ABOUT THE MODEL

Temperature

Gravity fields

Concentration

**PHYSICAL - MATHEMATICAL MODEL**


Electro-magnetic fields

Time

Technical processes and other effects

https://github.com/Naborshchikov/ivan.github.io.git

# TO CONFIRM THE WORK OF THE MODEL

**TASK:**

check the physical - mathematical model based on the available CERN experimental data on the example of calculating the charges of quarks $u$ and $d$ according to the obtained system of equations

**DECISION:**

One of the many systems of equations in the framework of the concept of a physical- mathematical model

$$\begin{cases} q_u + q_{u2} + q_d + q_{u3} = +0.35q_e \\ q_{d3} + q_{u2} = +0.5q_e \\ q_{u3} + q_{d2} + q_u = +0.15q_e \\ q_d + q_{d2} + q_u + q_{d3} = +0.35q_e \\ q_{u3} + q_{d2} = -0.5q_e \\ q_{d3} + q_{u2} + q_d = +0.15q_e \end{cases}$$

**RESULT**

The amount of charge in units of electron charge:

| based on a physical - mathematical model | according to CERN [2] | type | Decryption |
|---|---|---|---|
| $+0.06(6)q_e$ | $+2/3q_e$ | $q_u$ | Quark core charge $u$ |
| $+0.5q_e$ | | $q_{u2}$ | Inner shell charge |
| $+0.15q_e$ | | $q_{u3}$ | Outer shell charge |
| $-0.06(6)q_e$ | $-1/3q_e$ | $q_d$ | Quark core charge $d$ |
| $-0.5q_e$ | | $q_{d2}$ | Inner shell charge |
| $+0.15q_e$ | | $q_{d3}$ | Outer shell charge |

The initial data on the charges of the nucleus and shells of the proton and neutron are taken from the work of Robert Hofstadter [1]

**RESULT: SOLVING A SYSTEM WITH DATA FROM [1] GIVES A CORRELATION WITH DATA FROM [2], WHICH CONFIRMS THE CONCEPT**


1 Robert Hofstadter Mesons and the structure of nucleons UFN-1963-T. 81 (reference to the source)
2 CERN – European Organization for Nuclear Research (creference to the source)

# LAW OF INTERDEPENDENCE OF MASS, CHARGE, VOLUME INSIDE ELEMENTARY PARTICLES

The dependence of the mass and the corresponding charge, the occupied volume inside an elementary particle is determined by the equations of several segments of straight-line in space unless the value of the mass goes beyond the confidence interval of a segment of straight-line

# FORMULA

$$(m - m_n)/(m_{n+1} - m_n) = (q - q_n)/(q_{n+1} - q_n) = (v - v_n)/(v_{n+1} - v_n)$$

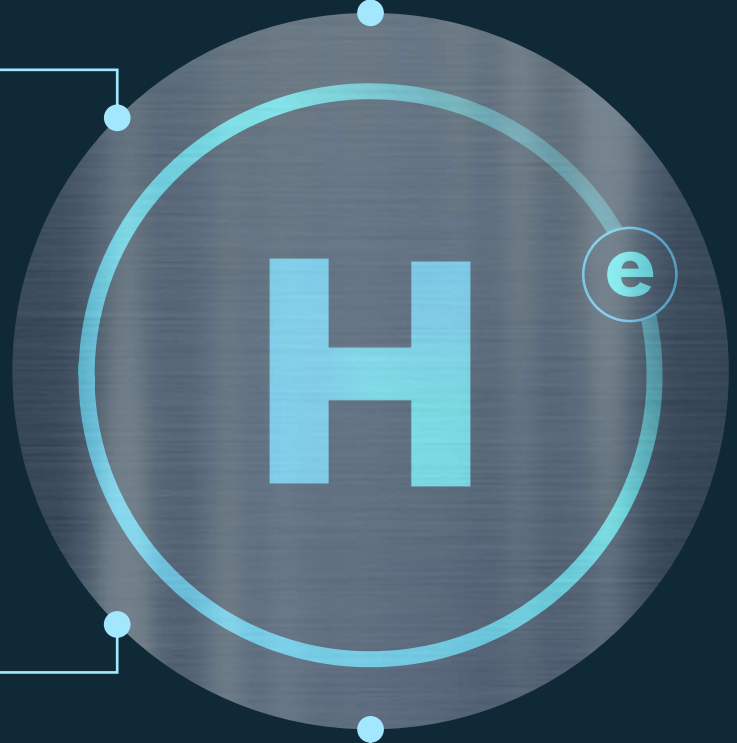
$$m \in [m_n, m_{n+1}] \quad q \in [q_n, q_{n+1}] \quad v \in [v_n, v_{n+1}]$$

m – mass between $m_n$ and $m_{n+1}$
q – charge between $q_n$ and $q_{n+1}$
v – volume between $v_n$ и $v_{n+1}$

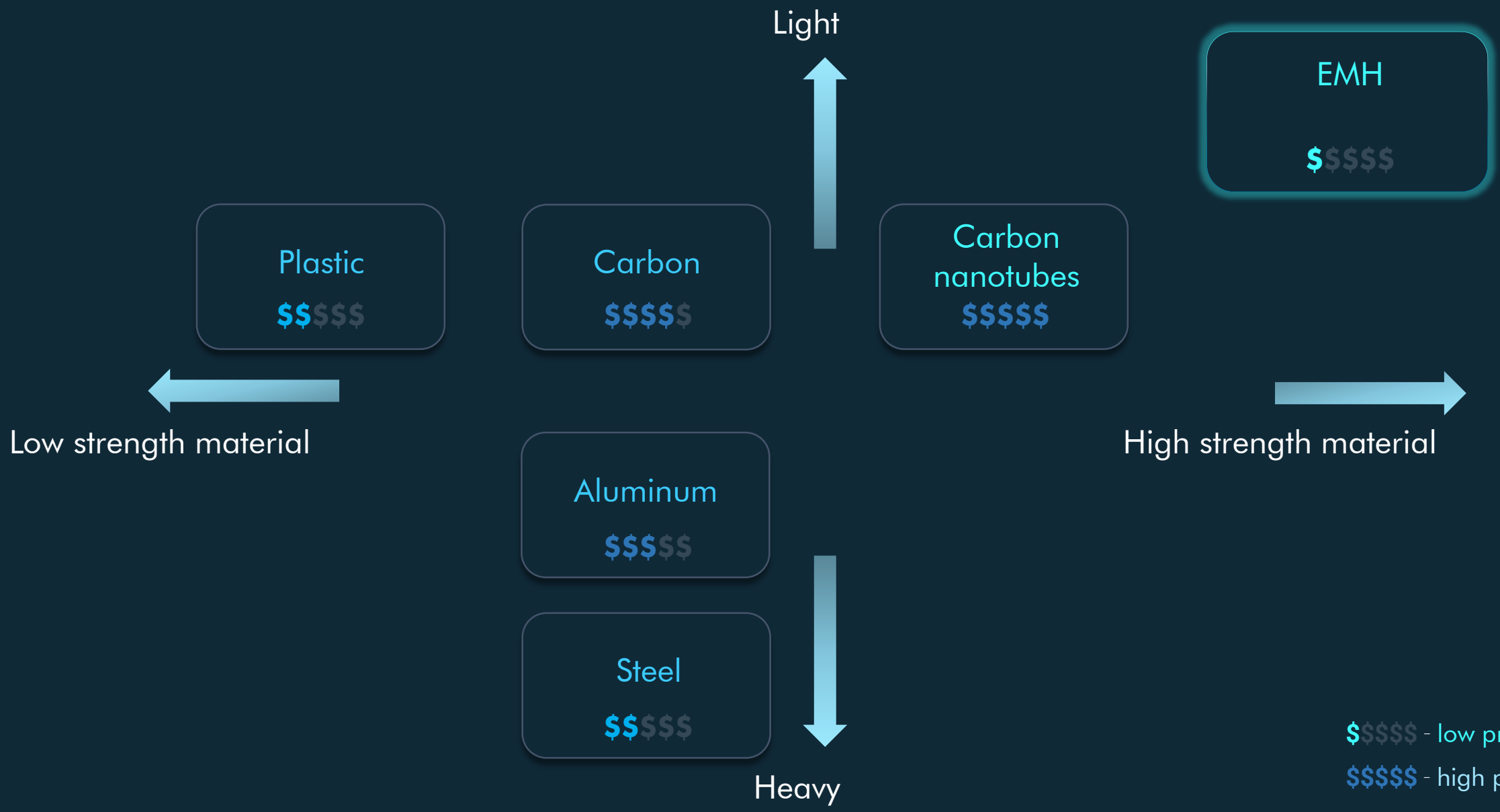
# CHARACTERISTICS OF METAL HYDROGEN (EMH)

obtained on the basis of a physical - mathematical model

- EMH Density – 287.5 kg/m$^3$
- The number of atoms/ions in the lattice - **3/1**
- Lattice structure – Metallic
- Heat resistance – 2.3x10$^{25}$ J/kg



# COMPARISON WITH EXISTING MATERIALS

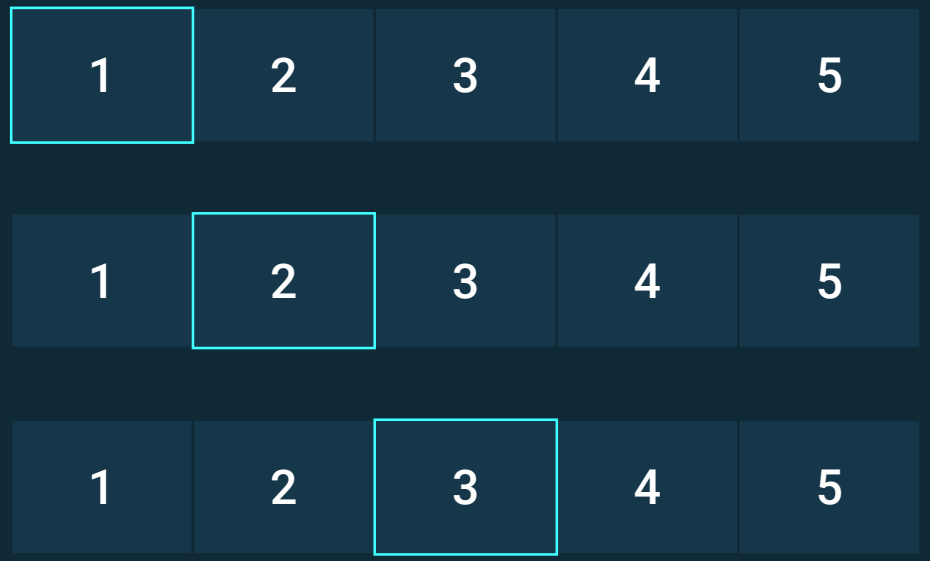



$$$$$ - low price

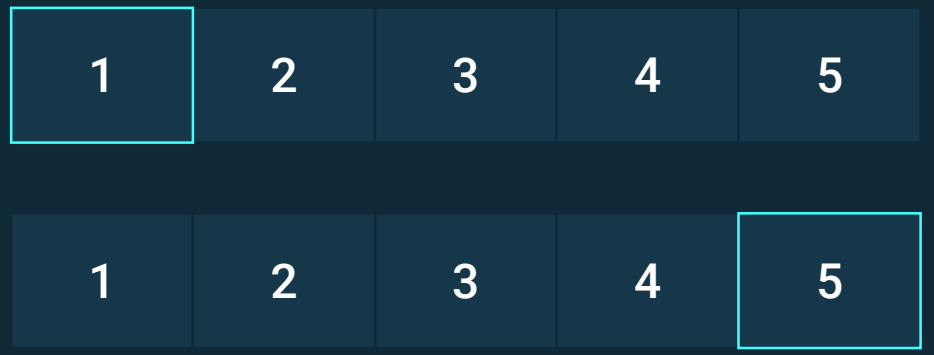
$$$$$ - high price

# PRINCIPLE OF MOVING OBJECTS

## USUAL MOVEMENT




## INSTANT MOVEMENT




The model will allow you to calculate the necessary parameters for moving objects between two specially equipped stations

## DESCRIPTION

The usual movement in the matrix representation - the row of the object is interchanged with adjacent rows of the matrix sequentially

Teleportation in matrix representation - the row of the object is interchanged with any row of the matrix

## EXAMPLE

When the car is driving, it “floats” through the air

A car in the city "A" will change places with air in the city "B"

# MILESTONES

- Establishment of a joint company *
- Purchase of premise, Recruiting staff
- Purchase, installation, commissioning of equipment

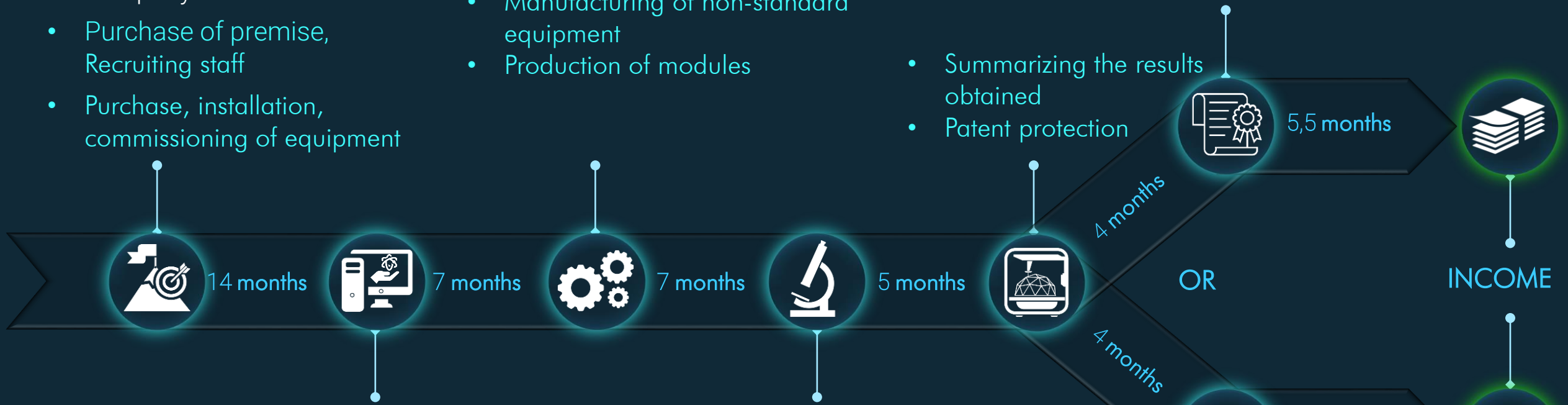
- Research of the experimental model in each direction
- Computer simulation
- Development of design documentation

- Manufacturing of non-standard equipment
- Production of modules

- Make a prototypes
- **Research and testing**

- Summarizing the results obtained
- Patent protection

- Demonstration of equipment for each direction
- Signing license agreements




- Preparing for IPO
- IPO

* Prior to the establishment of a joint company, a grant may be allocated for the development of the Project

# AUTHOR

Inventor Ivan Naborshchikov

- Ambitious, visionary
- Has its own introduced inventions
- Charismatic leader with people management experience
- Finds simple solutions to complex technical problems

**1982-1983**
Technical College №15, Perm,
Computer repair and maintenance mechanic;
Honors degree

**1983 – 1991**
Moscow Institute of Oil and Gas by Named Gubkin I.M
Honors degree, author's certificate № 1440089, internship, postgraduate school

**1992**
PATENT OF THE RUSSIA № 1771425
More than 10 licenses sold to oil and gas companies

**1993**
Russian Foreign Trade Academy
Course "Technology and external contract support"

**2002**
PATENT OF THE RUSSIA № 2177824
Production and sales under license agreements

**2004-2020**
PHYSICAL – MATHEMATICAL MODEL
development of a physical-mathematical model

**2020**
**THE NEW PHYSICAL LAW**
**obtained**

# EVENTS RELATED PATENT 1771425

1996 by order of the Government of Russia No. 279-r, the company ROSDI was opened, sold the shares in connection with the transfer to the UN and at their request

1998 – 2001 on the recommendation of the Government of Russia, a joint Project of the Government of Russia and the UN Development Program No. RUS / 98/025 “Reducing costs and economic losses in the extraction, transportation and refining of oil” was implemented

2000 – 2002 diplomat at the International Labor Organization(ILO)

* Istanbul; on the photo (from right to left): Ivan Naborshchikov, inventor and national project director;
The official representative of Russia in Turkey; Farid Karakhanov, UNDP; official representative of the Turkish side

# DEVELOPMENT OF BUSINESS RELATIONS

## 2014 – 2019

- Participation in the development of financial and economic cooperation between Russian business and the Algerian side
- Promotion in establishing interbank contacts
- Participation in the development of scientific, technical and business cooperation in promoting Russian companies in foreign markets

* Algeria; on the photo (from right to left): Alexey Shatilov, Trade Representative of the Russian Federation in Algeria; Vladimir Kuzmin member of the Russian delegation; Alexander Zolotov, Ambassador of the Russian Federation in Algeria; Ivan Naborshchikov, head of the Russian delegation

# BENEFITS OF IMPLEMENTATION

## KEY FEATURES

- Reducing energy costs by companies and people
- Significant revenue growth at the expense of income from the high demand for new industrial technology
- Dominant position in logistics and transportation
- Significant revenue growth at new materials, exotic materials

# QUESTIONS?
# LET'S TALK!

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