Create the future value of Korean Medicine

NIKOM

National Development Institute of Korean Medicine

NIKOM

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National Development Institute of Korean Medicine

The Mecca of Korean Medicine

JKTM

2012. 05
Launching of the Medicinal Crop Seeds Supply Center and Animal Testing Center

2009. 12
Designated as a medicinal ingredient quality testing institution (Korea Food & Drug Administration)

2009. 03
Opening of JKTM

2008. 01
Appointment of the 1st President, Cho Jeong Hee

2007. 11
Establishment of JKTM

KOTMIN

2014. 10
Appointment of the 4th President, Shin Heung Mook

2011. 12
Changing of Corporate Name to the Korea Promotion Institute for Traditional Medicine Industry

2009. 04
Designation of Medicinal Herbs Quality Certification Center as an institution for the testing of medicinal herbs

2008. 12
Establishment of the Daegu Gyeongbuk Institute for Promotion of Korea Traditional Medicine Industry (Hwarang-ro, Gyeongsan-si, Gyeongsangbuk-do)

2008. 06
Establishment of Medicinal Herbs Quality Certification Center (Namseong-ro, Jung-gu, Daegu)

2007. 04
Appointment of the 1st President, Lee Kil Young

2006. 08
Appointment of the 1st Chairman, Kim Yong Dae

2006. 07
Establishment of Daegu Gyeongbuk Institute for Promotion of Korea Traditional Medicine Industry

NIKOM HISTORY

2017. 11
Appointment of the 2nd President, Lee Eung Se

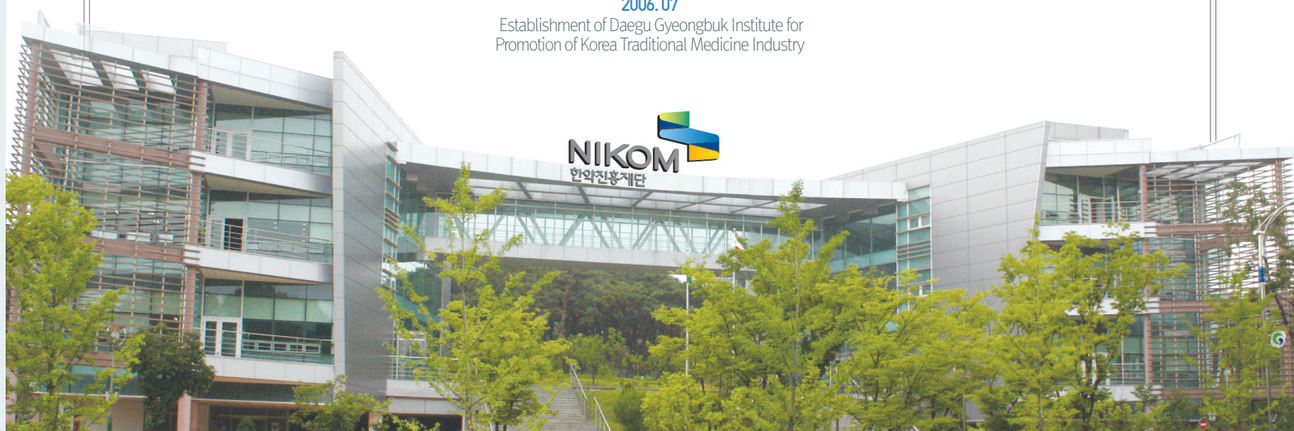
2017. 02
Designation as public institution

2016. 08
Designation of the Quality Certification Center as a testing institution for pharmaceuticals

2016. 02
Launching ceremony for NIKOM

2016. 01
Appointment of the 1st President, Shin Heung Mook

2015. 11
Permit obtained for the establishment of NIKOM (Ministry of Health and Welfare)



Greetings

Standardization, Scientification and Globalization of Korean Medicine
Promoting Korean Medicine as a National Strategic Industry

President
Eungse LEE, K.M.D., Ph.D.

The National Development Institute of Korean Medicine(NIKOM) aims to create future value for Korean Medicine(KM) through its standardization, scientification and globalization. NIKOM is the only public institution in Korea engaging in activities to promote the industry and contributing to public health and economy through KM.

The growth of the global market for KM is an undeniable trend. According to the World Health Organization (WHO), the size of global traditional medicine market currently exceeds 200 trillion won (USD 186 billion) and is expected to reach 6,000 trillion won (USD 5 trillion) by 2050. This is why advanced nations are turning their attention to traditional medicine market. The potential of KM is infinite as its effect has been clinically proven over thousands of years. KM is hope for mankind in the era of aging population for treating chronic diseases such as high blood pressure and diabetes, and it is the blue ocean of new cancer treatments. It is not only the key contributor to public health but also national industry which conduces to better quality of life and longer life expectancy.

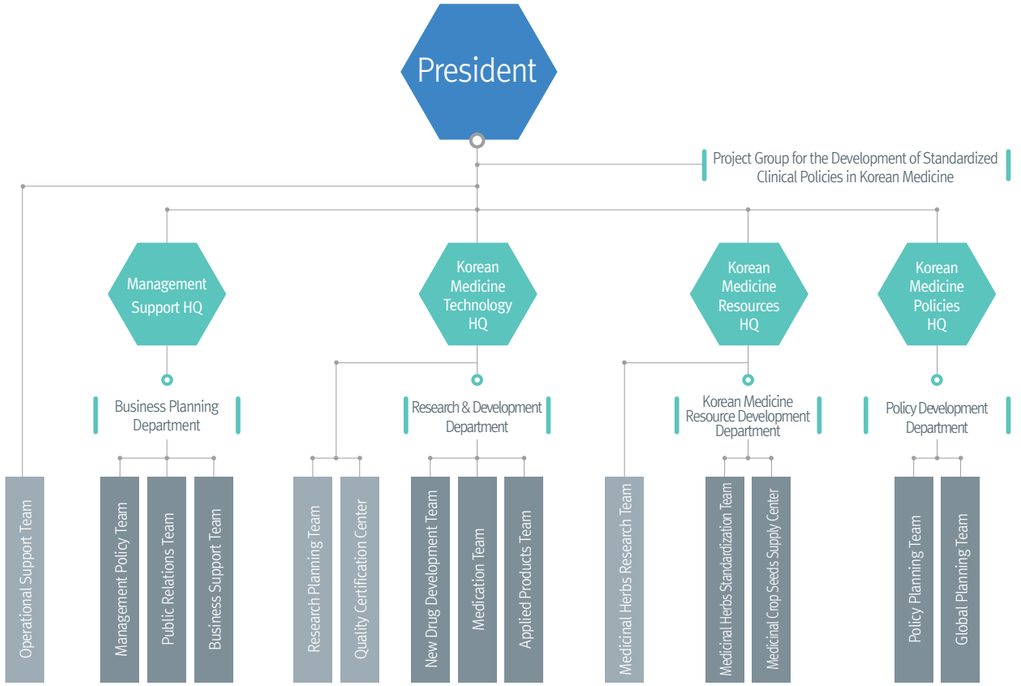
National Development Institute of Korean Medicine is creating new values for KM through scientification of technologies, enhancement of resources and innovation of services. We have been improving the convenience of KM through developing a variety of modern dosage forms and contributing to the public health by expanding the scope of insurance coverage for high quality KM. The advanced distribution system for medicinal herb cultivation, production and management is also a crucial part of our work. We preserve and supply native resource, develop new medicine, support government's policy-making activities and build global infrastructure for cooperation. We also publish Korean Medicine Clinical Practice Guideline in order to provide scientific evidence for stability and efficiency of KM.

NIKOM will continue to promote KM which has contributed to public health over its long history into a national strategic industry. We are committed to play a central role in ranking Korea as the leader in the global traditional medicine market.

NIKOM is committed to be a friendly and trusted institution. We look forward to your continuous interest and support.

Organizational Chart

4 headquarters, 4 departments, 2 centers, 12 teams, 1 project group

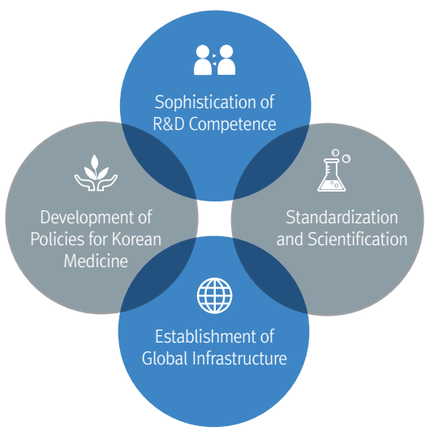


Mission and Vision

Mission Contribute to the healthy lives of citizens and to the national economy through the development of Korean Medicine and promotion of the industry

Vision The leading institution for the promotion of the Korean Medicine industry creating the future value of Korean Medicines

Strategic Goals



Direction of Implementation

Citizens
- Usage of Korean Medicine services with high quality and low costs
- Manufacture and supply of excellent Korean Medicines

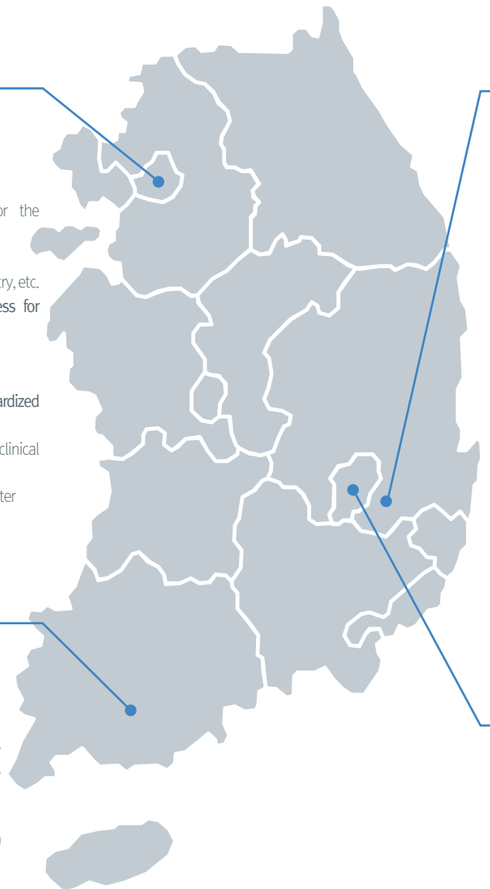
Korean Medicine Industry
- Expansion of public health services using Korean Medicine
- Reinforcement of Korean Medicines' safety and effectiveness
- Provision of advanced medical services using Korean Medicine

Industrial Sector
- A comprehensive support channel for companies, support for the vitalization of the Korean Medicine market
- Development and support for specialized local industries

Government
- Support for government policy planning, coordination of the development of the Korean Medicine industry
- Support for the globalization of Korean Medicine, improvement of related legislation and systems

National Development
Institute of Korean Medicine

Introduction of
NIKOM



Branch (Seoul)

Location 12F, Namsan Square, 173, Toegye-ro, Jung-gu, Seoul

Key Functions
- Policy Support
  - Analysis and improvement of policies for the development of the Korean Medicine industry
  - Expansion of health insurance coverage
  - Analysis of trends in the Korean Medicine industry, etc.
- Reinforcement of international competitiveness for Korean Medicine
  - Pursuit of globalization for Korean Medicine
  - Global PR activities for Korean Medicine
- Project Group for the Development of Standardized Clinical Policies in Korean Medicine
  - Development and distribution of standardized clinical policies for Korean Medicines
  - Establishment of an integrated information center

Branch (Jangheung, Jeollanam-do)

Location 288, Udeuraendeu-gil, Anyang-myeon, Jangheung-gun, Jeollanam-do

Key Functions
- Specialization of primary and secondary industries
  - Cultivation of medicinal herbs and supply of seeds
  - Uncovering native Korean resources and research on pharmacognostic effects
  - Establishment of non-clinical testing (GLP) facilities for Korean Medicine
  - Research on the pharmacokinetics properties of Korean Medicine ingredients

Head Office (Gyeongsan, Gyeongsangbuk-do)

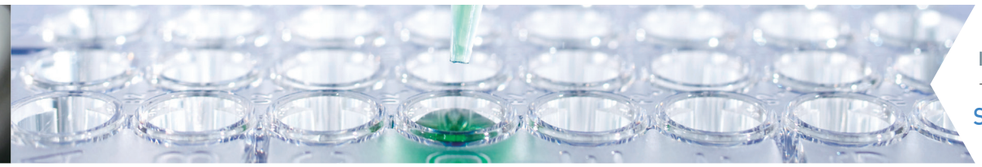
Location 94, Hwarang-ro, Gyeongsan-si, Gyeongsangbuk-do

Key Functions
- Supervision of foundation operations
- Development of Korean Medicine technology
  - Development of new Korean Medicines for chronic · incurable diseases
  - Development of Korean Medicine forms and standardization of acupuncture specifications
  - Development of Korean Medicine based products and establishment of materials bank
- Establishment and Operation of Korean Medicine GMP Facility

Quality Certification Center (Daegu)

Location 17, Namseong-ro, Jung-gu, Daegu

Key Functions
- Quality control of medicinal herbs
  - Setting of quality standards
  - Quality inspection and monitoring
- Standardization and distribution control of medicinal herbs



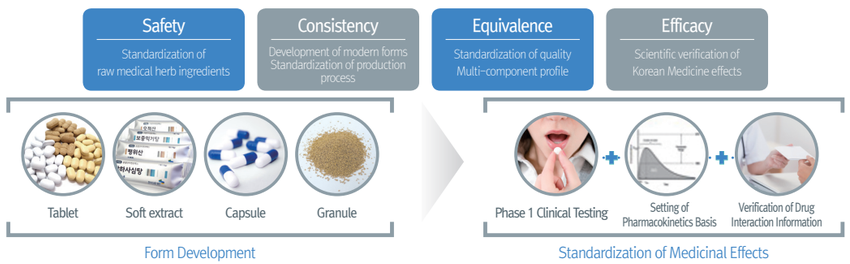
National Development
Institute of Korean Medicine

Scientification of Korean
Medicine Technology

Project for the Modernization of Korean Medicines

Purpose of the Project Development of medicines in various forms which are convenient for intake and carrying and the standardization of medicinal effects

Project Details



Modernization of Korean Medicine Forms

- Development of diverse forms using Korean Medicine ingredients for the applicability of National Health Insurance and standardization of production processes
- Reinforcement of insurance benefits through obtainment of permit from the Ministry of Food and Drug Safety and insurance benefit registration of the developed forms

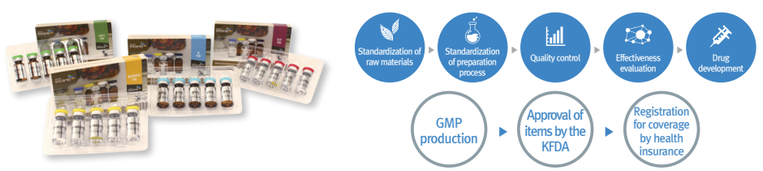
Standardization of the Remedial Effects of Medicinal Herbs

- Preparation of basis on safety and effectiveness for National Health Insurance applicability

Project for the Standardization of Pharmacopuncture

Purpose of the Project Secure quality standards and safety · effectiveness through the standardization of pharmacopuncture

Project Details



Setting of quality control standards for pharmacopuncture preparation and development of prototypes: 8 cases

- Standardization of pharmacopuncture quality control and medicine preparation processes
- Development of bee venom pharmacopuncture, hwangryunhaedok-tang pharmacopuncture, hominis placenta pharmacopuncture, angelicae gigantis radix pharmacopuncture, jungsongouhyul pharmacopuncture, soyeom pharmacopuncture, cornu cervi parvum pharmacopuncture, scolopendrid pharmacopuncture, etc.

Development of New Drugs

Purpose of the Project Development of new drugs for target chronic · intractable illnesses

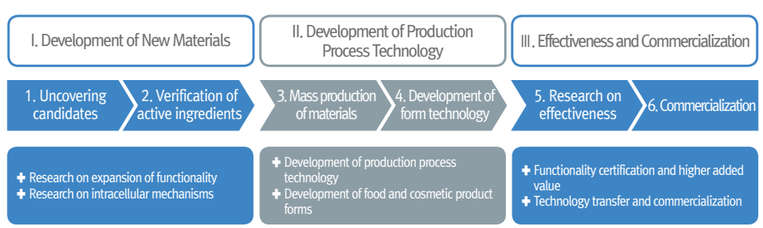
Project Details

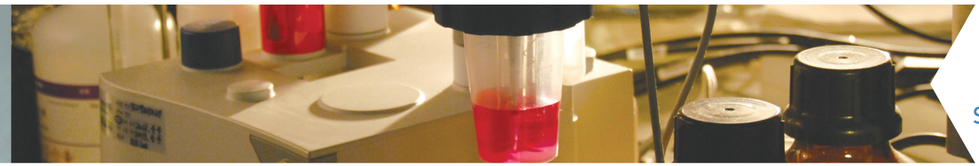
- Diseases with comparative advantage in using Korean Medicines compared to Western medicines
- Mitigation of side-effects caused by existing chemical drugs and mutually supplementary effects
- Diseases for which prevention and management are more important than treatment
- Development of new drugs based upon knowledge in traditional Korean Medicine
- Securement of reliability and competitiveness in Korean Medicine by obtaining concreteness, objectivity, and expertise

Development of Product Technology based on Korean Medicine

Purpose of the Project Development of Korean Medicine products and source technologies using Korean Medicine materials

Project Details





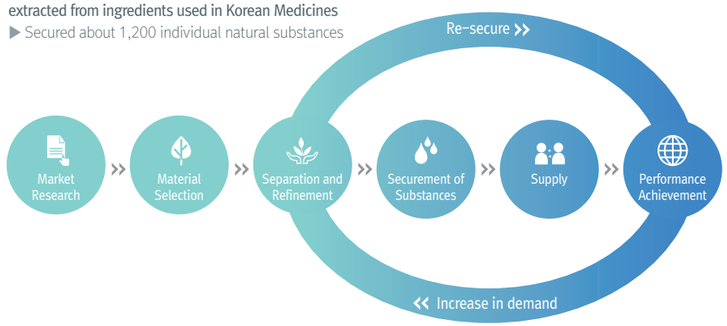
Project for the Establishment of Korean Medicine Ingredients

Purpose of the Project Support the development of food, pharmaceutical, and cosmetic products through the separation of individual substances from ingredients used in Korean Medicines and development of new ingredients utilizing bioconversion technology

Natural Substance Bank

Obtainment and supplying of individual natural substances extracted from ingredients used in Korean Medicines

▶ Secured about 1,200 individual natural substances



Bio-material Bank

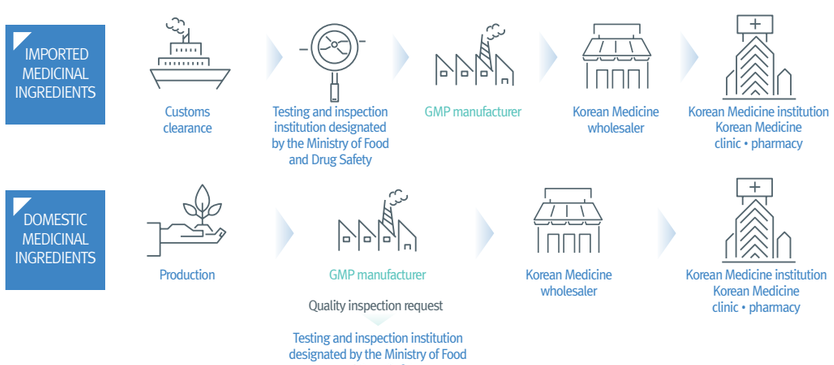
Obtain and supply new or existing substances with improved functionalities through “bioconversion” technology

▶ Secured about 4,000 bioconversion materials

- Distribution to research centers, companies, and universities: research support
  - ▶ vitalization of the Korean Medicine industry

Operation of an Institution for Quality Inspection on Medicinal Herbs

Distribution of Medicinal Ingredients and Quality Control Project



National Development Institute of Korean Medicine
Sophistication of Korean Medicine Resources

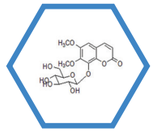
Project for the Construction of a Foundation for Native Korean Medicinal Herb Resources

Purpose of the Project Establish the foundation for development of medicinal ingredients using indigenous Korean species

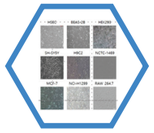
Project Details
- Registration of indigenous species DNA (NCBI)
- Secure information on seed and cultivation of indigenous species
- Separation of index components and biological activity testing on indigenous species

Collection of species

Registration of DNA



Explore index components



Biological activity testing

Phase 1
- Registration of indigenous Korean species' DNA in NCBI (212 items)
- Securement of the cultivation information of indigenous Korean species and development of quality control indexes (116 items)

Phase 2
- Securement of standard raw materials and ingredient profiling (50 items)
- Research on the pharmacognostic effects of indigenous Korean species (50 items)

Project for the Supply of Medicinal Herb Seeds and Seedlings

Purpose of the Project Expand production of domestic medicinal herbals through the supply of seeds and seedlings from species with proven origins

Project Details

Collection of medicinal plant resource

Research on cultivation technology

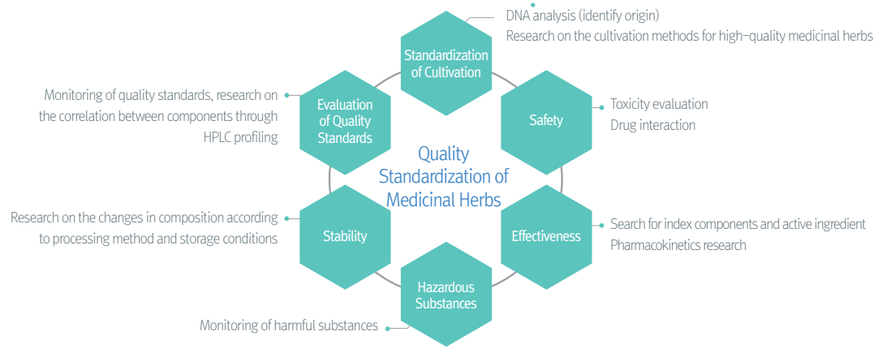
Propagation of medicinal plant resource

Supply of seeds and seedlings

Standardization of Medicinal Herb Quality

Purpose of the Project Maximize the quality of medicinal herbs throughout the process from cultivation, manufacture, and distribution

Project Details



Regulation of Supply and Demand and Distribution Support of Medicinal Herbs

Purpose of the Project Establishment and advancement of a distribution system for domestically produced medicinal herbs

Project Details
- Provision of solutions for the stabilization of medicinal herb prices and production
- Control tower for medicinal herb distribution support facilities

Distribution Process

Policy Support for Korean Medicine

Purpose of the Project Creation of the base for the development of Korean Medicine through policy development and system improvements, enhancement of public health and reinforcement of global competitiveness

Project Details

Reinforcement of Korean Medicine policy functions → Reinforcement of insurance benefits on Korean Medicine → Establishment of a base for Korean Medicine development → Reinforcement of competencies for the globalization of Korean Medicine → Enhance awareness on Korean Medicine

Policy Planning

- Uncovering and planning of policy improvements
- Support for the establishment of Korean Medicine industry policies
- Establish the infrastructure for statistics
- Vitalization of major issues related to Korean Medicine and policy channels

System Improvements

- Support for the improvement of systems related to Korean Medicine
- Review of Korean Medicine related legislation and support for improvements

Insurance Benefit Reinforcement TF

- Establishment of framework to reinforce insurance benefits
- Pursuit of National Health Insurance applicability

Improve Domestic and Foreign Perception on Korean Medicine

Purpose of the Project Improve the perception of Korean Medicine through global promotional activities

Project Details

Project Team for the Development of Standardized Clinical Treatment Policies using Korean Medicine

Purpose of the Project Improve the quality of medical services and strengthen coverage

Project Details

Project for the Informatization of Korean Medicine Clinical Practice

Purpose of the Project Support medical services through the objectification and digitization of data collected through the clinical practice of Korean Medicine and construction of big data.

Project Details

- Standardization of data and development of quality management system
- Building big data infrastructure
- Building integrated database of Korean Medicine
- Analysis for building target system

Project for the Establishment of Korean Medicine Infrastructures

GLP

Purpose of the Project Safety evaluation (toxicity test) of Korean (herb) Medicine to secure Korean Medicine's safety
Location: 203-3, Gwandeok-ri, Jangheung-eup, Jangheung-gun, Jeollanam-do, Korea

GMP

Purpose of the Project Promotion of the Korean Medicine industry through the clinical trial of Korean Medicine and placebo, production and distribution of raw medicinal ingredients and the production of Korean Medicine through CMOs (contract manufacturing organization)
Location: Daegu-Gyeongbuk Medical Cluster (Medivalley), Daegu, Korea

NIKOM

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