



INSTITUTE OF GENERATIVE NEW INTELLIGENCE TECHNOLOGY AND EDUCATION (IGNITE)

<https://ignitein.org>



GENERAL INTRODUCTION

A National Strategic Think Tank

IGNITE stands for “Institute of Generative New Intelligence Technology and Education.”

IGNITE is committed to contributing to Vietnam’s national development through the convergence of Technology, Data, Education, and Conscious Intelligence.

The IGNITE Institute focuses on strategic areas of national importance, spanning Science, Technology and Innovation (STI), Digital Transformation, Artificial Intelligence (AI), Data, Semiconductor Technology, Quantum Technology, Technology Security, and High-Quality Human Capital Development.



“ *Igniting Intelligence — Shaping the Future. IGNITE is committed to contributing to Vietnam’s national development through the convergence of Technology, Data, Education, and Conscious Intelligence.* ”

VISION - MISSION - VALUES



VISION



To become a leading Think Tank in future-oriented theories, science and technology strategy, and solutions for building the society of the future, grounded in Technology and Education.



MISSION



To develop new and advanced ways of thinking that prepare individuals, organizations, and society for the Global Age of Consciousness and contribute to Vietnam's breakthrough development.



VALUES



Systems Thinking · A Culture of Innovation · National Responsibility · Execution Excellence

KEY AREAS OF FOCUS: Science, Technology & Innovation Strategy · Artificial Intelligence · Data · Semiconductors · Quantum Technology · Biotechnology · Education & Human Capital Development · Technology Security · Digital Transformation

Organizational Structure - Operating Model

SCIENTIFIC COUNCIL

The Institute's highest advisory body · Shapes strategic directions · Ensures academic and professional quality

EXECUTIVE BOARD

Overall institutional management · Legal representation · Strategy execution

RESEARCH & CONSULTING DIVISION

Academic research · Policy and strategic consulting

TECHNOLOGY TRANSFER CENTER

Technology architecture consulting · Deployment of core technologies

LEADERSHIP EDUCATION & TRAINING CENTER

Strategic thinking and leadership development for senior public-sector and institutional leaders

SUPPORT & EXTERNAL RELATIONS DIVISION

Secretariat · Communications · International Cooperation · Administration

EXECUTIVE BOARD

Mr. Nguyễn Ngọc Tuấn

VICE PRESIDENT · SECRETARY-GENERAL

Secretary-General of IGNITE Institute. Responsible for strategic partnerships, institutional networking, and domestic and international outreach. Experienced in managing large-scale research and consulting organizations.



Prof. Nguyễn Ái Việt, Ph.D.

PRESIDENT

Member of the National Advisory Council for Science, Technology, Innovation and Digital Transformation.
Former Director of the Institute of Information Technology, Vietnam National University, Hanoi.
Over 20 years of research and teaching experience in the United States and Europe. Specialist in Quantum Physics, Semiconductor Technology, and Artificial Intelligence.



Dr. Nguyễn Hồng Chương

VICE PRESIDENT

Ph.D. in Mathematical Physics, specializing in Theoretical Gravity and Quantum Cosmology. Strategic advisor on Quantum Technology. Over 30 years of experience in Information Technology and Business Management.



Mr. Nguyễn Kim Khiêm

EXECUTIVE BOARD MEMBER

Former Deputy Director General of Hanoi Radio and Television.



Mr. Hoàng Trọng Hiếu

EXECUTIVE BOARD ADVISOR

Former Director of VTC14, a specialized television channel focusing on weather, environment, and social affairs.



Ms. Nguyễn Ngân Hà

CHIEF OF OFFICE

Responsible for institutional coordination, external relations, and stakeholder engagement for the Institute.



SCIENTIFIC COUNCIL



Prof. Nguyễn Ái Việt, Ph.D.

**PRESIDENT OF
IGNITE INSTITUTE**

President of IGNITE Institute; Think Tank Member; Member of the National Advisory Council for Science, Technology, Innovation and Digital Transformation.



Dr. Nguyễn Văn Lạng

**FORMER DEPUTY MINISTER OF
SCIENCE & TECHNOLOGY**

Former Head of the Hoa Lac Hi-Tech Park Management Board.
Leading expert in high-tech zone planning, high-tech industrial development, and technology-driven FDI attraction.



**Prof. Nguyễn Hữu Đức,
Ph.D.**

**FORMER VICE PRESIDENT,
VIETNAM NATIONAL UNIVERSITY,
HANOI**

Expert in low-temperature and nano physics. Member of the National Advisory Council for Science, Technology, Innovation and Digital Transformation. Expert in education systems architecture and university rankings.



Dr. Bùi Mạnh Hải

**FORMER DEPUTY MINISTER OF
SCIENCE & TECHNOLOGY**

Think Tank Member.
Specialist in national-level policy advisory on Science & Technology, standards, metrology, quality management, and intellectual property.



Dr. Ngô Đức Mạnh

**FORMER AMBASSADOR OF
VIETNAM TO THE RUSSIAN
FEDERATION**

Former Vice Chairman of the National Assembly's Committee for Foreign Affairs.
Specialist in international law and diplomacy, with extensive experience in bilateral and multilateral relations and strategic international cooperation.

SCIENTIFIC COUNCIL



**Dr. Richard Lawton
Thurston**

Senior Vice President, TSMC

- Chairman & Chief Executive Officer, Great Lakes Semiconductor, Inc.
- Senior Vice President and General Counsel, Chief Proprietary Information Protection Officer and Chief Compliance Officer, Taiwan Semiconductor Manufacturing Company (TSMC)



Prof. Nguyễn Văn Tâm

**Head of the Department of
Computer Science at IP Paris**

Head of the Department of Computer Science, Data and Artificial Intelligence at Institut Polytechnique de Paris (IP Paris)



Prof. Nguyễn Tiến Dũng

Professor of Mathematics

Professor of Mathematics at the University of Toulouse (France)



Dr. Phạm Gia Minh

Economic Expert

Ph.D. in Economics from the Plekhanov Russian University of Economics

SCIENTIFIC COUNCIL



**Prof. Trần Xuân Hoài,
Ph.D.**

**SEMICONDUCTOR
PHYSICS**

Scientist and independent researcher specializing in semiconductor physics.



**Assoc. Prof. Phạm
Hồng Quang, Ph.D.**

**LOW-TEMPERATURE &
NANO PHYSICS**

Member of the National Advisory Council for Science, Technology, Innovation and Digital Transformation.



**Assoc. Prof. Nguyễn
Hồng Quang, Ph.D.**

**THEORETICAL PHYSICS &
SEMICONDUCTORS**

Secretary-General of the Vietnam Physical Society. Specialist in theoretical physics and semiconductor technology.



**Assoc. Prof. Nguyễn
Trần Thuật, Ph.D.**

**SEMICONDUCTOR
PHYSICS**

Director of the Institute of Semiconductors, Vietnam National University, Hanoi.



**Prof. Từ Trung Chấn,
Ph.D.**

**SEMICONDUCTORS &
QUANTUM TECHNOLOGY**

Specialist in Quantum Optics, Materials and Semiconductor Devices.



Dr. Nguyễn Quốc Hưng

QUANTUM TECHNOLOGY

Director of the Center for Quantum Technology, Hanoi University of Science and Technology. Leading expert in applied quantum technology.



Dr. Nguyễn Việt Hải

**AUTOMATION &
INFORMATION TECHNOLOGY**

Chairman of eDT Software Development and Training Company. Member of the Think Tank Group.



Dr. Giáp Văn Dương

**ENGINEERING PHYSICS &
EDUCATION**

Educator and independent researcher specializing in engineering physics and education.

SCIENTIFIC COUNCIL



Mr. Nguyễn Trung Hà

**CHAIRMAN OF THE BOARD,
THIEN VIET SECURITIES JOINT
STOCK COMPANY (TVS)**

Strategic development expert with extensive experience in investment, technology, finance, and corporate strategy.



**Prof. Nguyễn Đức Thái,
Ph.D.**

**UNIVERSITY OF CALIFORNIA, SAN
FRANCISCO, USA**

Specialist in molecular biology and computational biology.



**Prof. Nguyễn Ngọc Tú,
Ph.D.**

**KENNESAW STATE UNIVERSITY,
USA**

Quantum computing specialist.
IEEE Quantum Electronics Council
(QEC) Fellow.
Ranked among the top 2% of the
world's most influential scientists
(Stanford, 2022).



Prof. Trần Cao Sơn

**UNIVERSITY OF NEW MEXICO,
USA**

Chair of the Department of
Computer Science.
Specialist in Artificial Intelligence
and Intelligent Systems.



**Prof. Trần Thế Truyền,
Ph.D.**

**DEAKIN UNIVERSITY,
AUSTRALIA**

Leading expert in Artificial
Intelligence, specializing in
advanced machine learning and
computer vision.

RESEARCH AND ADVISORY COUNCIL



Dr. Cù Kim Long

Deputy Director of the IT Center, Ministry of Science & Technology.
Consultant on government digital transformation.



Mr. Đoàn Hữu Hậu

Information systems architect. Former Director of Digital Transformation & AI Services, FPT Digital.
Consultant on enterprise digital transformation.



Dr. Nguyễn Thu Hà

Researcher specializing in Science & Technology policy and development, with a focus on China and future maritime affairs.



Dr. Hoàng Xuân Hiến

Inventor and lecturer at Electric Power University. Specialist in smart devices and intelligent technologies.



Mr. Bùi Thế Phương

Former Director General of the Information Technology Department, State Treasury of Vietnam.

RESEARCH AND ADVISORY COUNCIL



Mr. Trần Chí Hiếu

CTO, E&P CAPITAL JSC
System integration & Data
architecture consultant.



Ms. Trần Thị Huê

Director, NETPRO Academy ·
(Government Sector Training
Programs.)



Mr. Vũ Gia Luyện

Chairman & Chief Executive
Officer, International IT
Solutions Joint Stock
Company. Member of the
Hanoi People's Council



Ms. Nguyễn Ngọc Hoài

Human Consciousness
Research.

KEY ACTIVITIES

1. STRATEGIC CONSULTING

- Science, Technology & Innovation Digital Transformation
- AI & Data Strategy
- Strategic Projects & Programs



2. IMPLEMENTATION CONSULTING

- Coordination & Program Management
- Data Architecture · AI · Cybersecurity
- KPI Monitoring & Performance Management



3. STI – DIGITAL TRANSFORMATION & AI TRAINING

- AI & Agentic AI Strategies
- Strategy Development & Implementation
- Development of Large-Scale STI Programs



4. TECHNOLOGY TRANSFER

- International Expert Networks
- Institute – University – Industry Collaboration
- Hubs · Labs · Centers





2. HIGHLIGHTED ACTIVITIES



ASSOC. PROF. NGUYỄN ÁI VIỆT, PH.D. — PRESIDENT OF IGNITE INSTITUTE

REPRESENTING THE NATIONAL ADVISORY COUNCIL, HE PRESENTED THE STRATEGIC ACTION PLAN FOR IMPLEMENTING RESOLUTION NO. 57 TO THE CENTRAL STEERING COMMITTEE ON THE DEVELOPMENT OF SCIENCE, TECHNOLOGY, INNOVATION AND DIGITAL TRANSFORMATION.



IGNITE INSTITUTE, IN COLLABORATION WITH THE PARTY CENTRAL COMMITTEE OFFICE, CONDUCTED FIELD SURVEYS ON THE IMPLEMENTATION OF RESOLUTION NO. 57 AND PLAN No. 01 ACROSS MINISTRIES, SECTORS, AND LOCALITIES. 2026



IGNITE INSTITUTE, IN COLLABORATION WITH THE PARTY CENTRAL COMMITTEE OFFICE, CONDUCTED FIELD ASSESSMENTS OF THE IMPLEMENTATION OF RESOLUTION NO. 57 AND PLAN NO. 01 ACROSS STATE-OWNED CORPORATIONS AND UNIVERSITIES NATIONWIDE.

2026

TỈNH ỦY PHÚ THỌ



IGNITE



PROVINCIAL PARTY COMMITTEE CONSULTING 2026

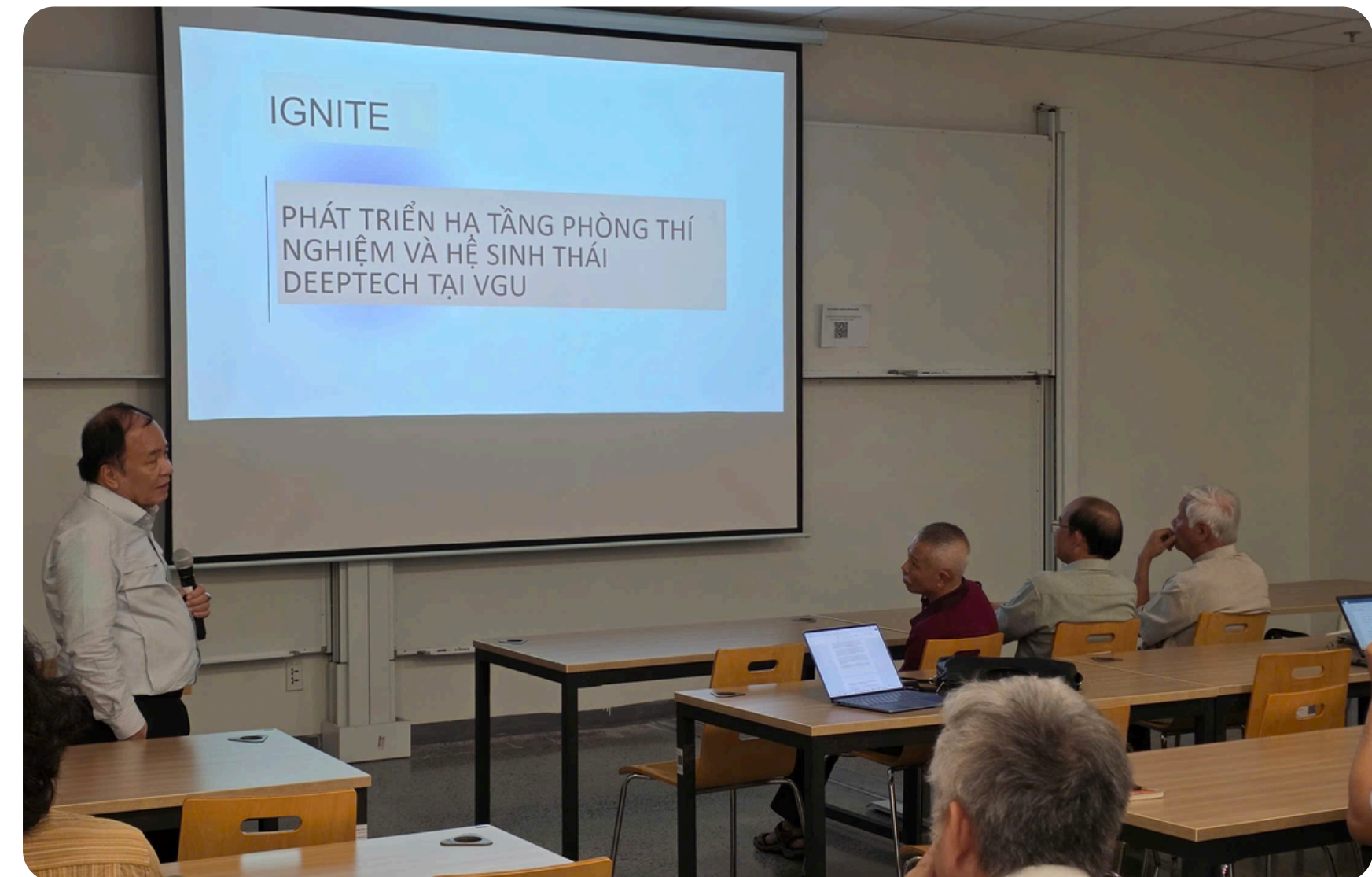


IGNITE INSTITUTE PROVIDES STRATEGIC CONSULTING ON KEY SCIENCE, TECHNOLOGY, INNOVATION, AND DIGITAL TRANSFORMATION PRIORITIES FOR THE PHU THO PROVINCIAL PARTY COMMITTEE.

WELCOME TO VIETNAMESE-GERMAN UNIVERSITY



IGNITE



**IGNITE INSTITUTE PROVIDES STRATEGIC
CONSULTING ON THE DEVELOPMENT OF THE
LABORATORY SYSTEM AT VIETNAM-GERMANY
UNIVERSITY TOWARD 2030, WITH A VISION TO
2035.**

2026

ASDA 1: AI STRATEGY & NATIONAL DATA ARCHITECTURE



ASDA 2025

National-level conference — bringing together more than 100 senior representatives

Co-organized by: IGNITE Institute × National Data Association (NDA)



Strategic Research & Consulting

AI & Data Strategies at the national, organizational, and enterprise levels.



Building a Knowledge Ecosystem

For the scientific community, businesses, organizations, and society.



International Connectivity & Collaboration

Sharing global expertise and facilitating technology transfer from leading international corporations.



IGNITE



**IGNITE INSTITUTE PRESENTED THE
KEYNOTE POLICY ADDRESS:
"THE 2025 CYBERSECURITY LAW:
ADVANCING NATIONAL TECHNOLOGICAL
SELF-RELIANCE."**

2025



PRESIDENT OF IGNITE INSTITUTE - KEYNOTE SPEAKER AT THE MINISTRY OF PUBLIC SECURITY WORKSHOP:

2025

“AI & BLOCKCHAIN FOR THE DIGITAL TRANSFORMATION OF THE PEOPLE’S PUBLIC SECURITY FORCES.”



**PRESIDENT OF IGNITE INSTITUTE DELIVERED
THE OPENING REMARKS AT THE SCIENTIFIC
CONFERENCE ON:**

2025

**“QUANTUM TECHNOLOGY IN MILITARY AND
NATIONAL DEFENSE.”**

AWARDS & RECOGNITION



MINISTER OF PUBLIC SECURITY'S CERTIFICATE OF MERIT

2025

Awarded to Assoc. Prof. Nguyễn Ái Việt, Ph.D. — President of IGNITE Institute, in recognition of his contributions to the advancement of science, technology, innovation, digital transformation, and the implementation of Project 06.

3. STRATEGIC PARTNERSHIPS & AGREEMENTS

IGNITE × HUST (Hanoi University of Science and Technology)

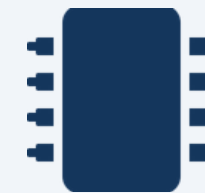


Hanoi University of Science and Technology
HUST



Strategic Research & Policy Advisory

Science, technology, and innovation.



Key Technologies

AI, data, digital systems, and semiconductors — development and application.



Education & Collaborative Research

High-tech talent development and domestic and international collaboration.



IGNITE X NCA (NATIONAL CYBERSECURITY ASSOCIATION)

IGNITE x NCA: Strategic partnership to shape national and organizational cybersecurity strategies and frameworks.

01

Building proactive, resilient, and robust cyber defense systems.

02

Developing a comprehensive cybersecurity assessment framework as a foundation for standardization and enhanced security capabilities.

03

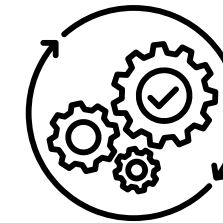
Developing solutions to detect, assess, and counter misinformation and fake news across cyberspace.



IGNITE X NIDIT

(NATIONAL INSTITUTE FOR DIGITAL TECHNOLOGIES AND DIGITAL TRANSFORMATION)

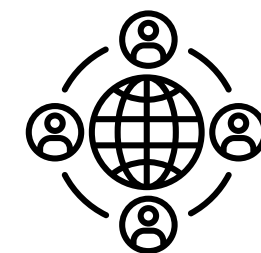
IGNITE X NIDIT: Strategic partnership for AI and data research, strategy, and advisory.



AI & Data strategy research and advisory



Developing high-quality human capital.



Building international networks and partnerships to share expertise and facilitate technology transfer.

IGNITE × META



META PLATFORMS, INC.

META — SILICON VALLEY, USA



KEY MILESTONES

IGNITE Institute was among only **two representative organizations** from **Vietnam** invited directly by Meta (Facebook) to **participate in a technology conference** at its **Silicon Valley headquarters, USA**.

AREAS OF COLLABORATION

AI & DATA



DIGITAL TRANSFORMATION



TALENT DEVELOPMENT





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