



International Forum on Public Key Infrastructure
(PKI) in Vietnam

Efforts of Licensed Public CA in **Promoting personal digital signatures in Vietnam**

Presenter.

Vietnam Certificate Authority and Digital Transaction Club

Time.

Quangninh, October 18, 2024

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01 INTRODUCTION

- About VCDC
- Main activities
- Digital signatures benefit all fields
- Compliance with Standards and Regulations
- One-Touch Simplified Process

About VCDC



Introduction to VCDC

- The VCDC Club is a specialized organization under the Vietnam Information Security Association (VNISA), which has been involved in promoting the adoption of digital signatures and solutions/applications for over 10 years.
- On November 28, 2017, VCDC was officially established by VNISA.
- It brings together organizations operating in the field of digital signatures and electronic certification, ensuring the safety and security of information for electronic transactions.



VCDC operates under the orientation of the Vietnam Information Security Association (VNISA)

Accompanying development, VCDC operates with the goal of further promoting the application of public digital signatures in Vietnam, contributing to ensuring user-friendliness, trustworthiness, and reasonable costs for electronic transactions.

Main Activities

VCDC

- Accompanying NEAC in legal, technical, market, and social aspects over the past years
- Promoting telecommunications, information technology, and enterprise digital signatures, actively popularizing personal digital signatures.

01

Policy advocacy activities

02

Legal compliance activities

03

R&D activities

04

Support and service deployment activities

05

Activities for promoting digital signatures and electronic transactions

06

International cooperation activities

07

Communication activities

08

Activities to strengthen the professional group

09

Membership expansion activities

Digital signatures benefit all fields

- “Toàn trình” and All-Encompassing
- Safe and Convenient
- Effective and High Quality
- Expanding New Opportunities for Economic and Social Development



Compliance with Standards and Regulations

The responsibilities of Certification Authorities (CAs) are based on the legal framework

- Clear responsibilities, compliance with the Law on issuance and quality management of Digital Certificates: Law on electronic transactions,...
- Responsibility for compliance with the protocol according to Circular 16/2019/TT-BTTTT
- Responsibility for compliance with Personal Data Protection through Decree 13/2023/ND-CP

Public CA Quality Assessment

- Build and update annual quality assessment criteria
- Organize annual periodic reviews

Domestic:

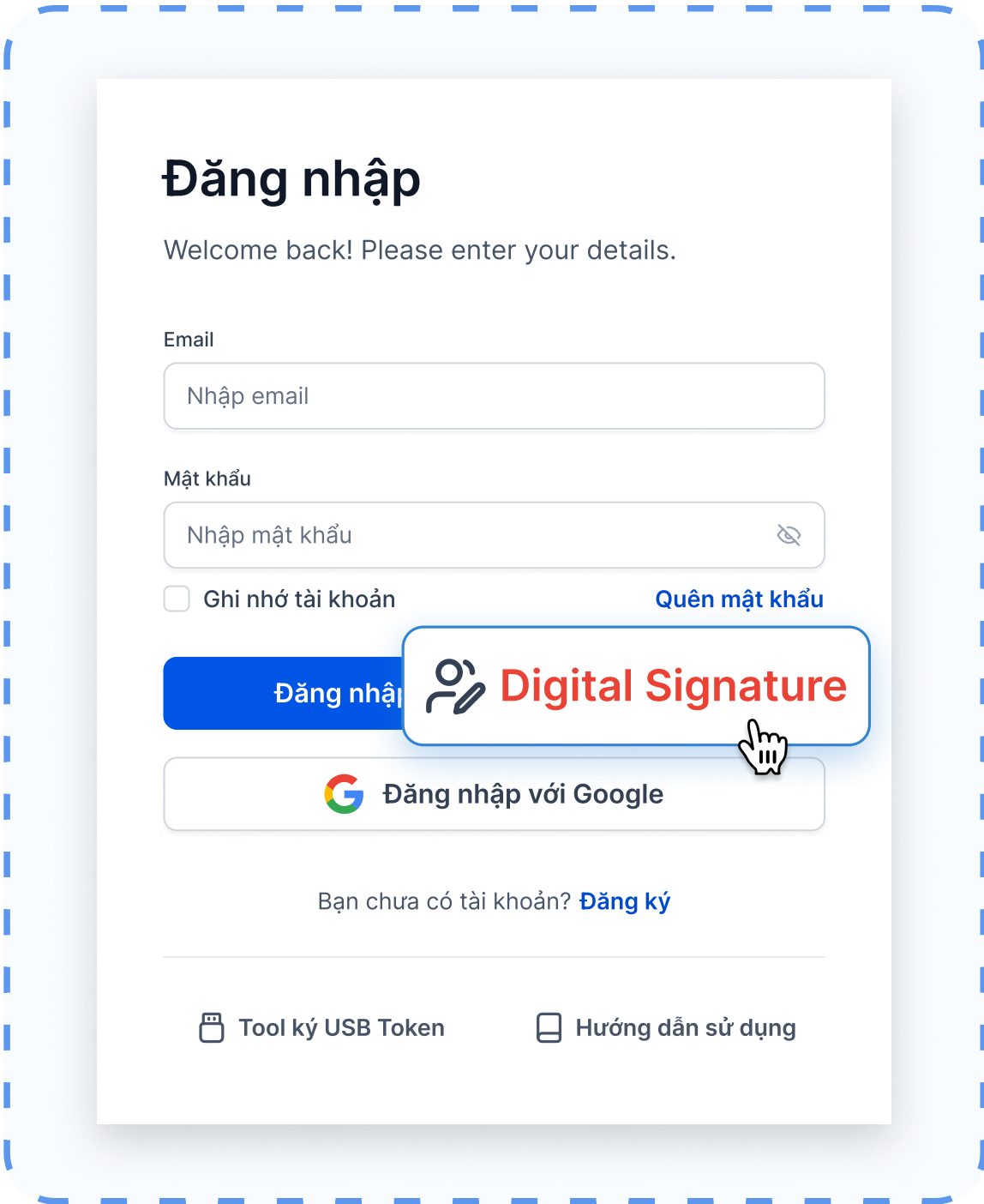
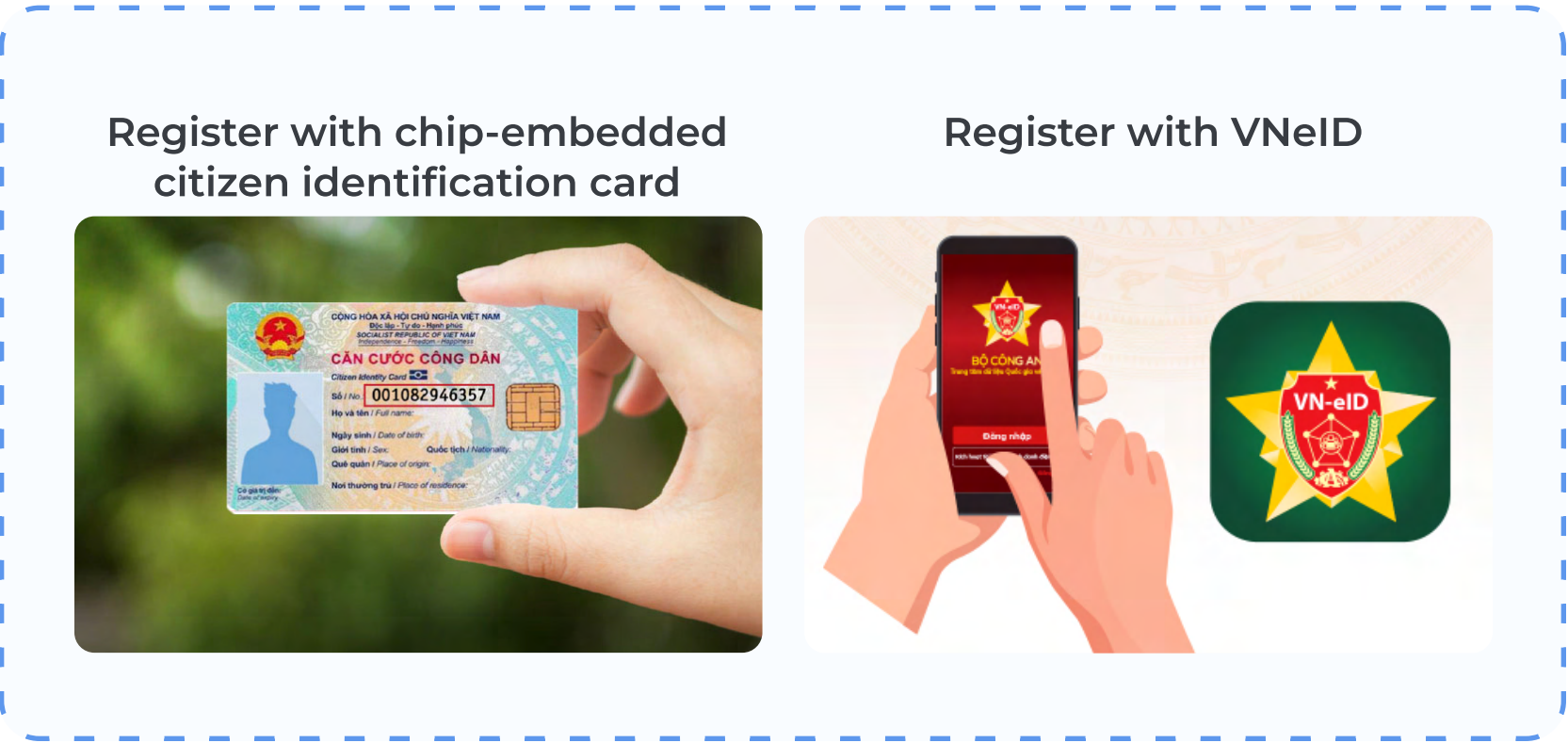
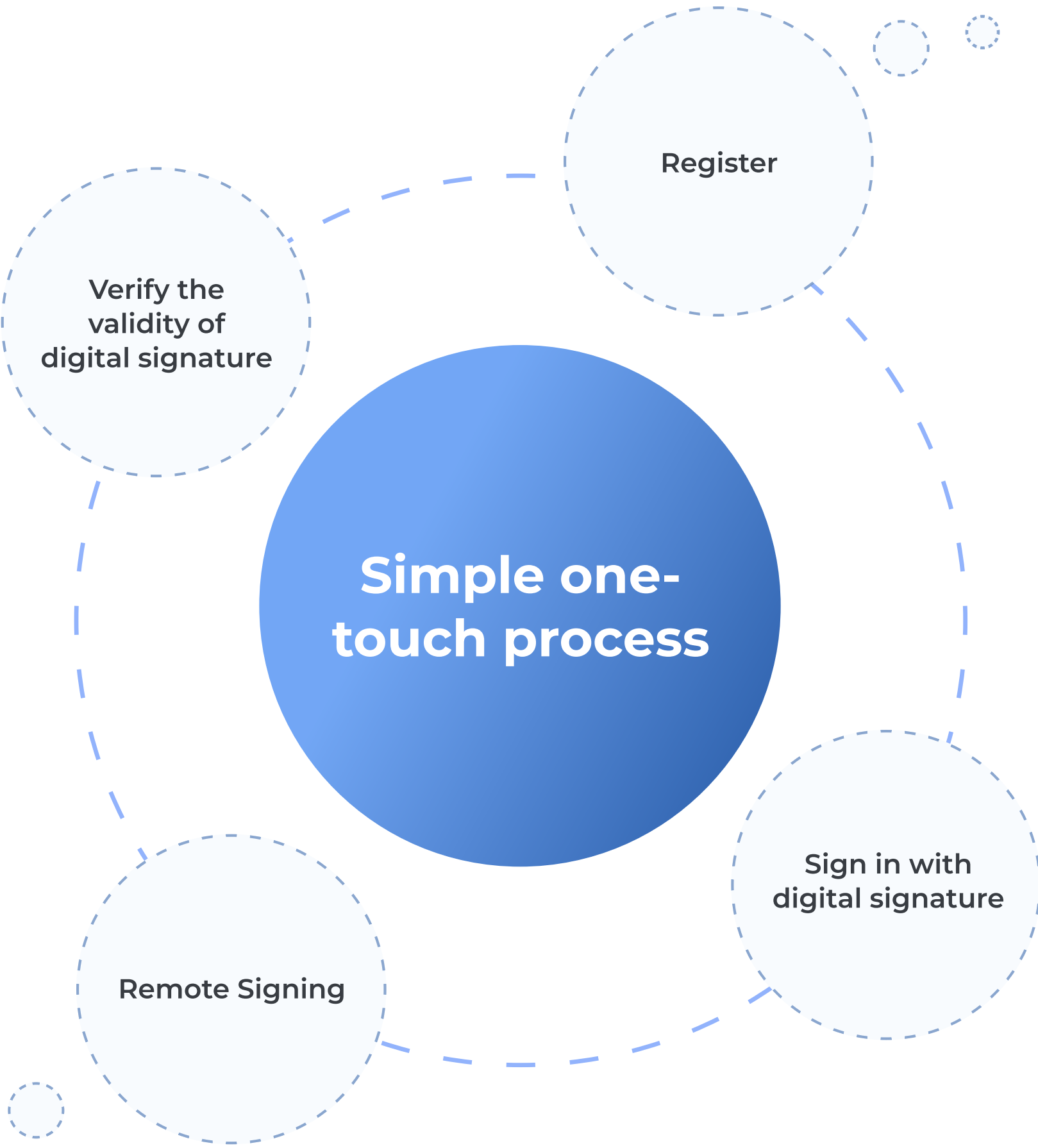
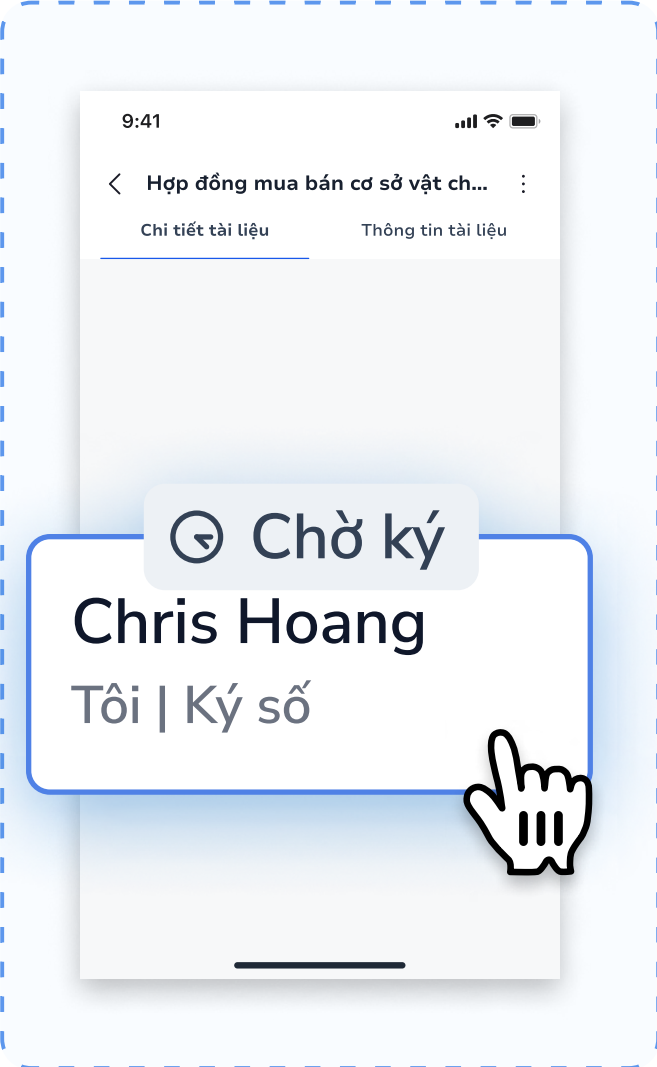
- Comply with standards and regulations of the Ministry of Information and Communications, Ministry of Public Security, State Bank,...

International:

- The RootCA G3 system is certified by CPA Canada to meet WebTrust standards.
- CAs are trained annually in international standards.



One-Touch Simplified Process



ACTIVITIES TO PROMOTE PERSONAL DIGITAL SIGNATURES IN VIETNAM

- The overview of digital signature situation in Vietnam
- CA'S Public efforts to promote personal digital signature in Vietnam
- Popularizing Personal Digital Signatures Across Regions
- “Toàn trình” Digital Transformation in Organizations/Businesses
- “Toàn trình” Digital Transformation for Individuals
- Some media images promoting Digital Signature

The overview of digital signature situation in Vietnam



Organizations providing public digital signature certification service (CA)



Organizations providing remote digital signature services



Local provincial public service portals have completed the integration of remote digital signatures.



Nationwide Implementation of Popularization



Digital Signature Authentication

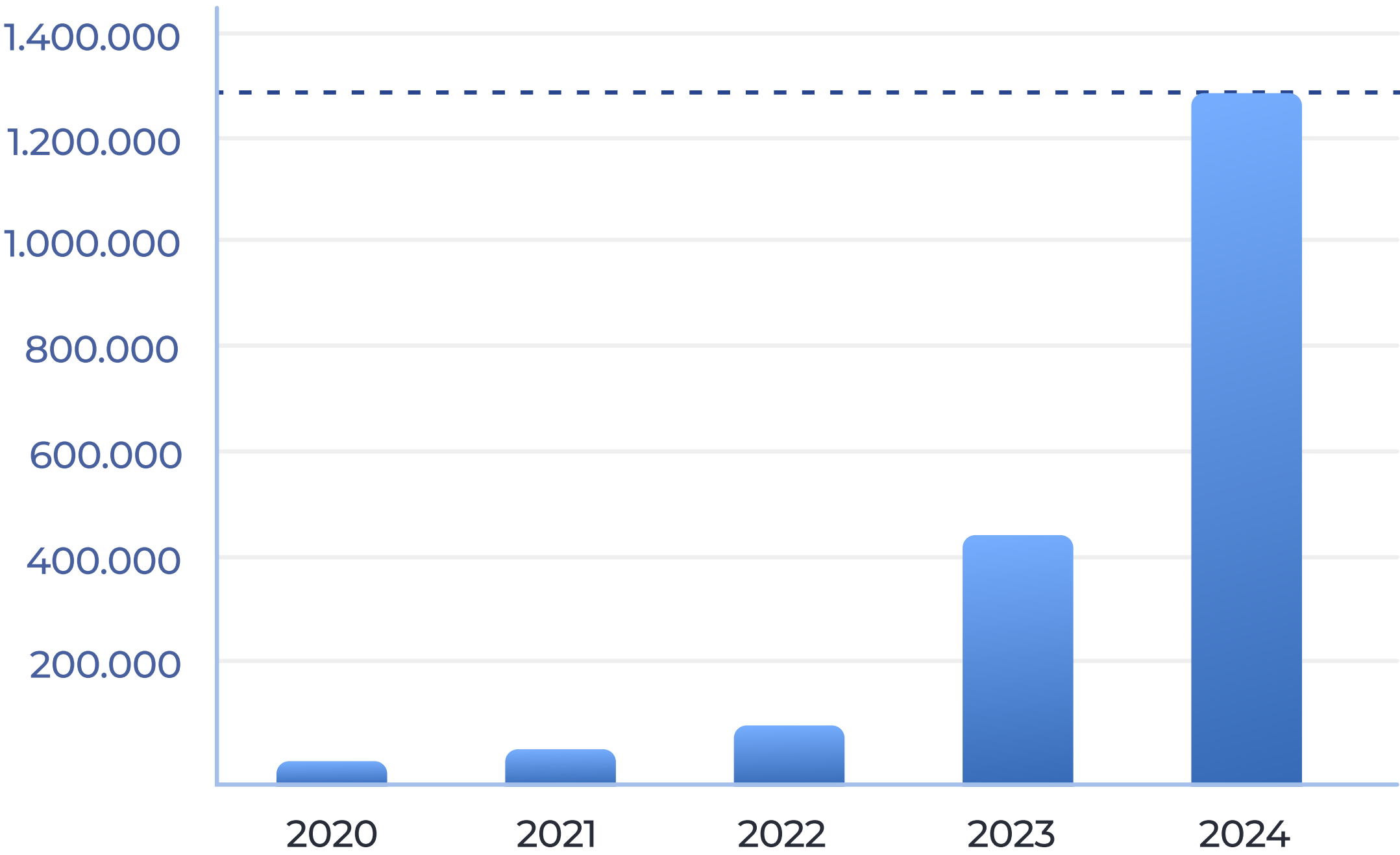


Annual Secure Digital Signature Transactions



The overview of digital signature situation in Vietnam

Growth of Personal Digital Signatures



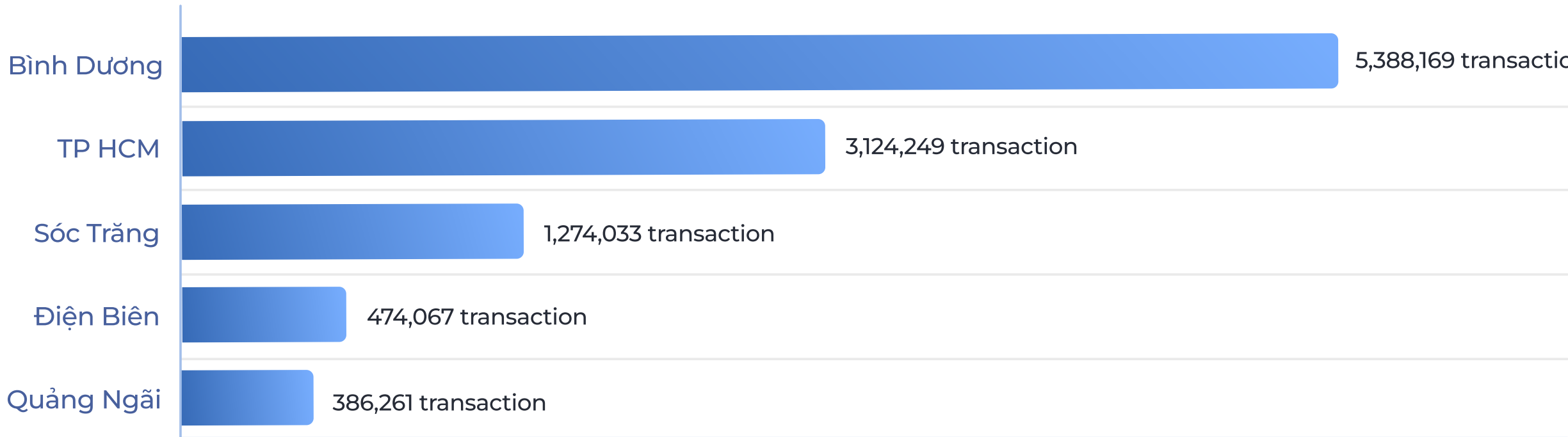
City implementing personal digital signature issuance with the highest results



TP. HỒ CHÍ MINH

Top Provinces and Cities with the Highest Usage of Personal Digital Signatures

(Statistics based on eSign portal)



CA'S Public efforts to promote personal digital signature in Vietnam

- Research to Develop Remote Signing Solutions
- Research and Design Remote Signing Solutions According to the One-Touch Process
- Provide an Ecosystem, Tools, and Accompanying Solutions
- Establish Policies, and Service Packages Aimed at “bình dân hoá” Personal Digital Signatures
- Organize Popularization from the Central Walking Street to Local Areas and Remote Regions



Training Workshop: Trusted Services, Digital Signatures, and Electronic Transaction Law in Quảng Ninh

“

With digital signatures, along with accompanying tools and solutions, individuals, organizations, and businesses can confidently engage in comprehensive transactions in an electronic environment. This aims at a digital life from afar, using digital methods and an all-encompassing digital space, with real-time secure data, enhancing quality of life and expanding new opportunities for economic and social development

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Local Policy Forum: Digital Transformation - A Breakthrough in Socio-Economic Development in Khánh Hoà

Popularizing Personal Digital Signatures Across Regions



Urbans

From the Walking Street to concentrated locations and deployed to each residential group



Countrysides

- Initiatives of community technology groups, popularizing Digital Signatures in Thanh Hoa, Ba Ria-Vung Tau, Yen Bai, etc.
- Raising awareness and supporting residents in installing and using Digital Signatures



Hà Nội



Đà Nẵng



Hồ Chí Minh



Thanh Hóa



Yên Bái



Bà Rịa- Vũng Tàu

“Toàn trình” Digital Transformation in Organizations/Businesses

100%

Enterprises/Organizations/Cooperatives/Households implement processes, operations, procedures, services, and utilities internally, with partners, with government management agencies, and with society, transitioning to “Toàn trình” digital transformation, electronic transactions, and “Toàn trình” online transactions



“Toàn trình” Digital Transformation within Organizations/Businesses



Application of Electronic Tickets and Cards in Transport Cooperatives, Buses, etc



Streamlining procedures and processes in public administration and business procedures with government management agencies



Application in Activities with Business Partners



Digital Transformation in Household Businesses

“Toàn trình” Digital Transformation for Individuals

Digital transformation in population scale



Using digital signatures in hospitals



“Toàn trình” Digital Transformation in the Healthcare Sector



Using Digital Signatures in Education



Electronic Academic Records



Filing and Paying Personal Insurance Online



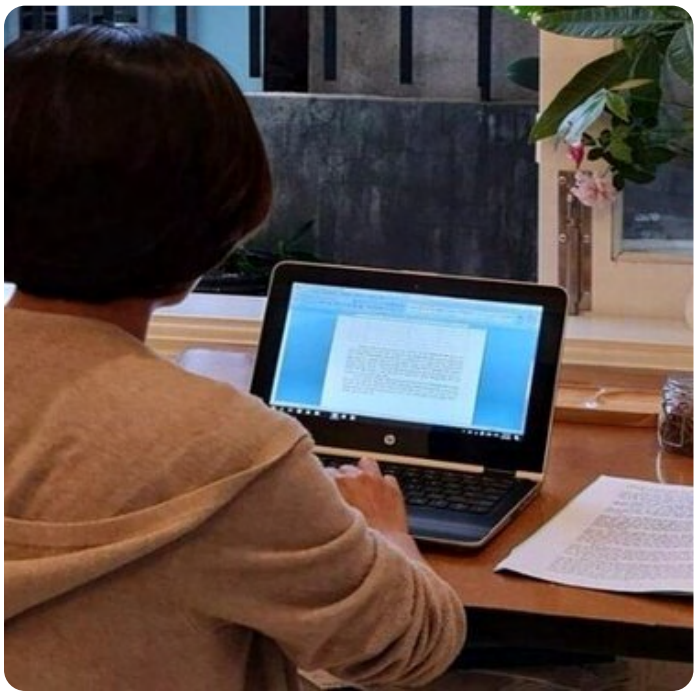
Buying and Selling, Issuing Invoices



Cashless Payments



Register for telecommunications and home entertainment

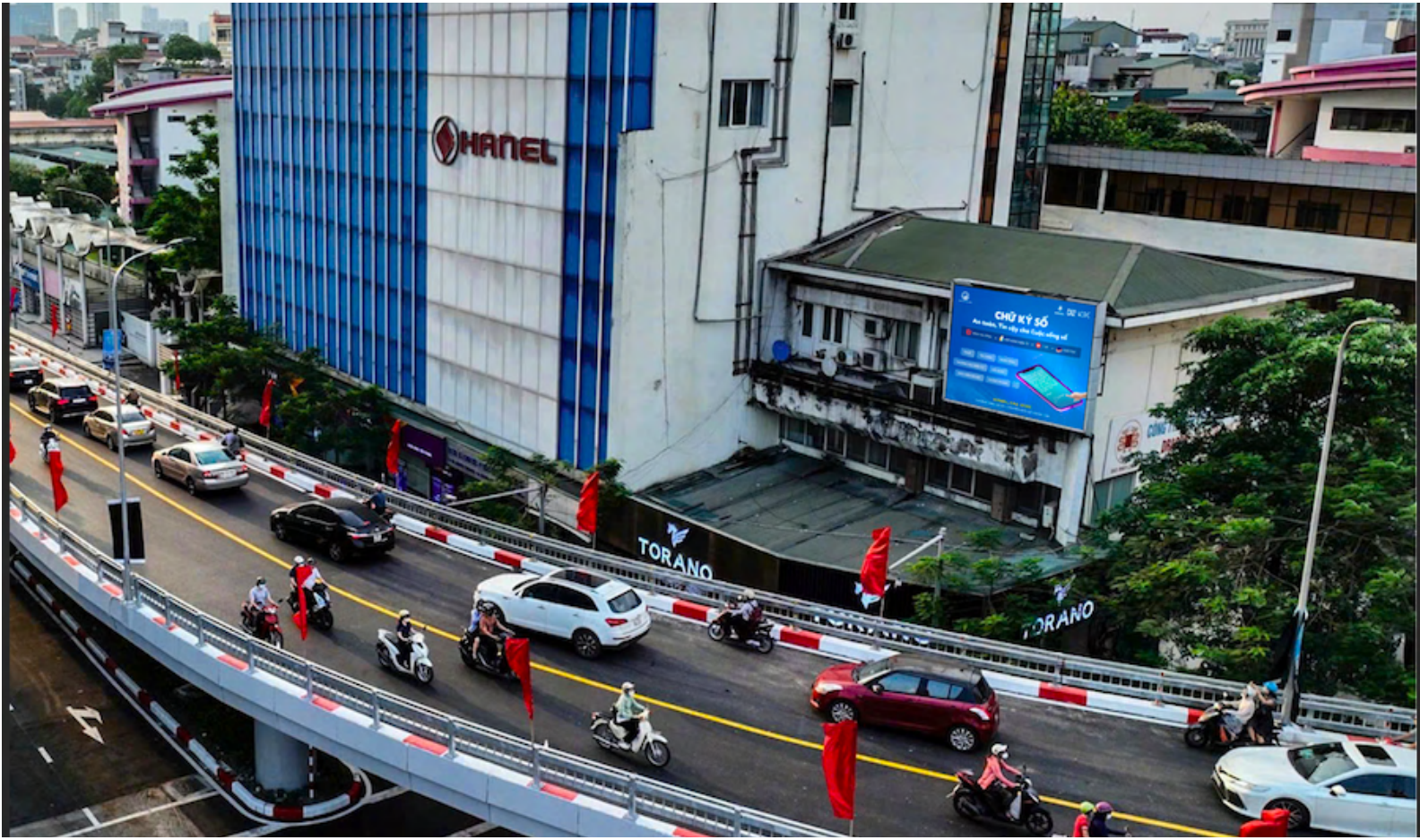


Sign the electronic labor contract



Provide invoices from the supermarket cash register system

Some media images promoting Digital Signature



THE RATE OF DIGITAL SIGNATURE USAGE IN ORGANIZATIONS/BUSINESSES COMPARED TO INDIVIDUALS

- Rate of Digital Signatures used in organizations/businesses and individuals

Rate of Digital Signatures used in organizations/ businesses and individuals

100%

Enterprises have and use digital signatures

Enterprises across the country have and use digital signatures within the enterprise, between enterprises and state agencies, between enterprises and customers,... which are used comprehensively and thoroughly.

13,5%

Adult population with Digital Signature

- Individuals with Digital Signatures are only concentrated in some areas and some subjects.
- The use of personal digital signatures is only focused on certain areas: healthcare, education, e-invoicing, fuel, etc.
- Some areas have not been widely utilized yet, such as public services, online transactions...

POLICY AND ACTION PROGRAM TO PROMOTE THE POPULARITY OF PERSONAL DIGITAL SIGNATURES

- Policies to Promote Personal Digital Signatures
- Action program

Policies to Promote Personal Digital Signatures

TẶNG HỘP BÚT SỐ

Free signing tool

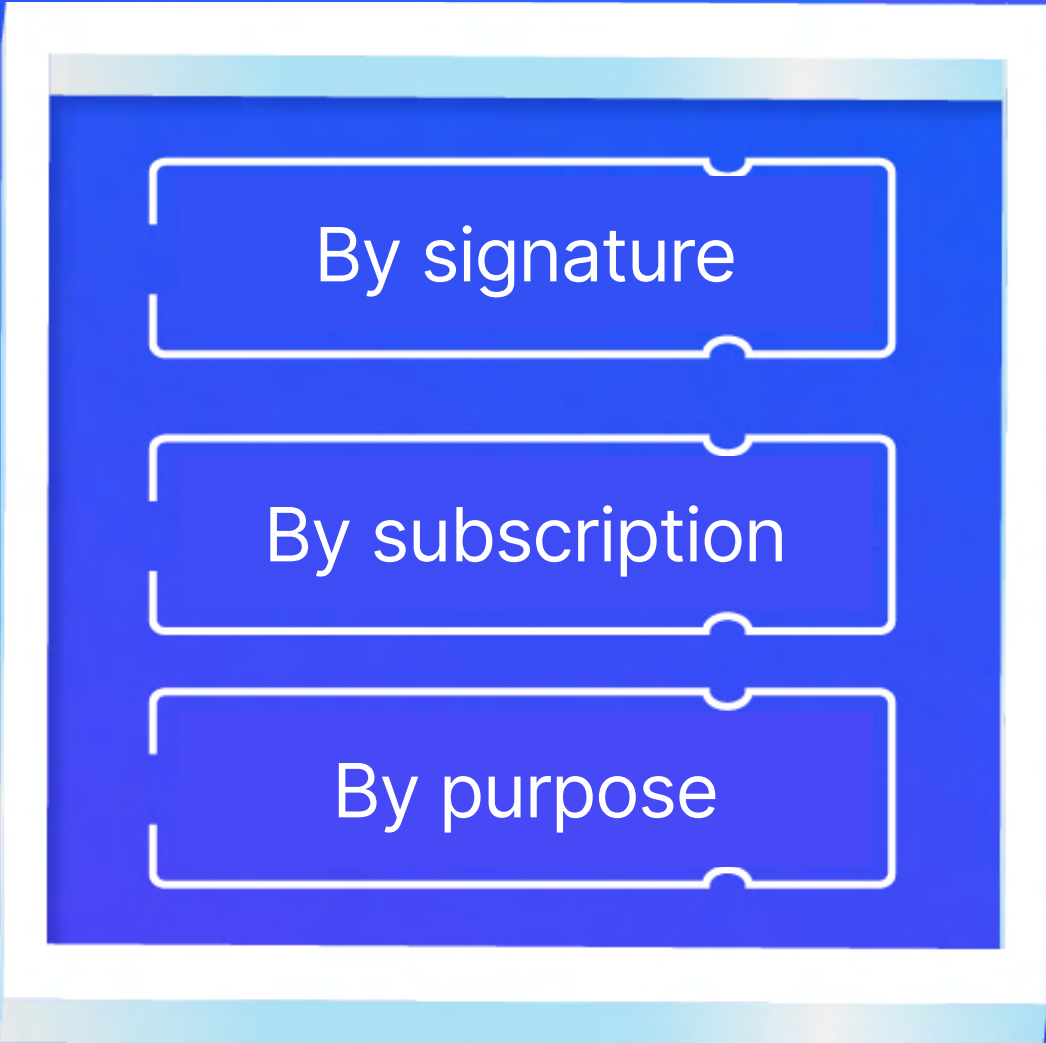
CA2, BKAV, Viettel, VNPT, FPT...



FREE

FLEXIBLE INK PUMP

- Free lifetime digital signature used on Public Services
- No setup fee
- No maintenance fee
- Free digital signature and applications, digital signature tools in healthcare such as: digital signature of prescriptions, electronic medical records, hospital management software,...
- Free digital signature and digital signature applications in education such as: Electronic transcripts, platforms, digital signature tools....



Action program



VCDC

VCDC special offers Ecosystem and Digital Signature



State, government

State and government prioritize use

“

State, government province - VCDC support - User choice

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THANK YOU FOR LISTENING!

Quangninh, October 18, 2024