



BỘ THÔNG TIN VÀ TRUYỀN THÔNG

TRUNG TÂM CHỨNG THỰC ĐIỆN TỬ QUỐC GIA

NATIONAL ELECTRONIC AUTHENTICATION CENTRE

Vietnam PKI Update

INDIA, 2023

Đặng Đình Trường

Deputy General Director NEAC

PKI related organizations

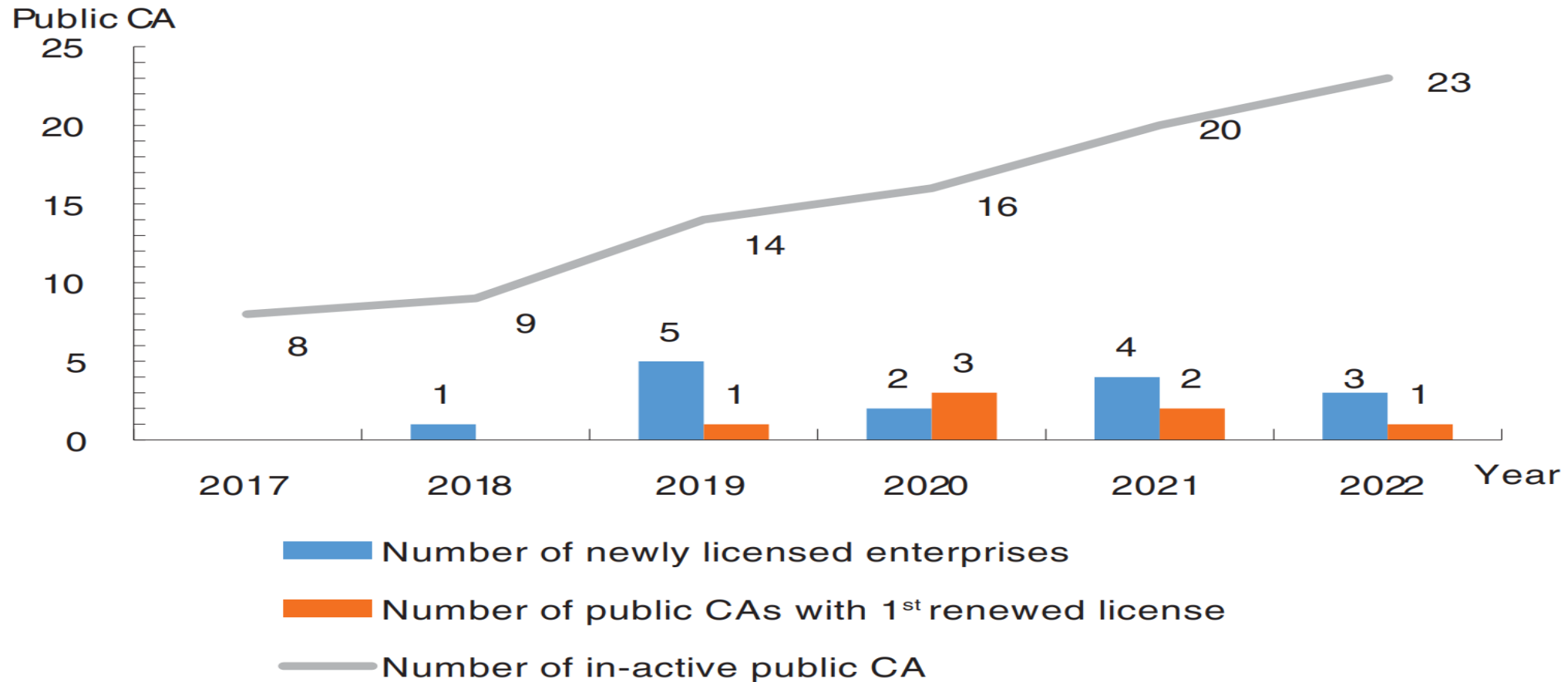
- ❖ Root CA:
 - Managed by NEAC, Root CA performs role of operation information security infrastructure that includes electronic authentication and PKI based services.
- ❖ Public Sub CAs:
 - Providing digital certificate service in Vietnam.
 - License issued by NEAC is required.
 - Currently 25 public Sub CAs received the license to provide digital certificate issuance services.
- ❖ Vietnam Government Root CA (VGCA):
 - For government agencies and officials.

Policy framework

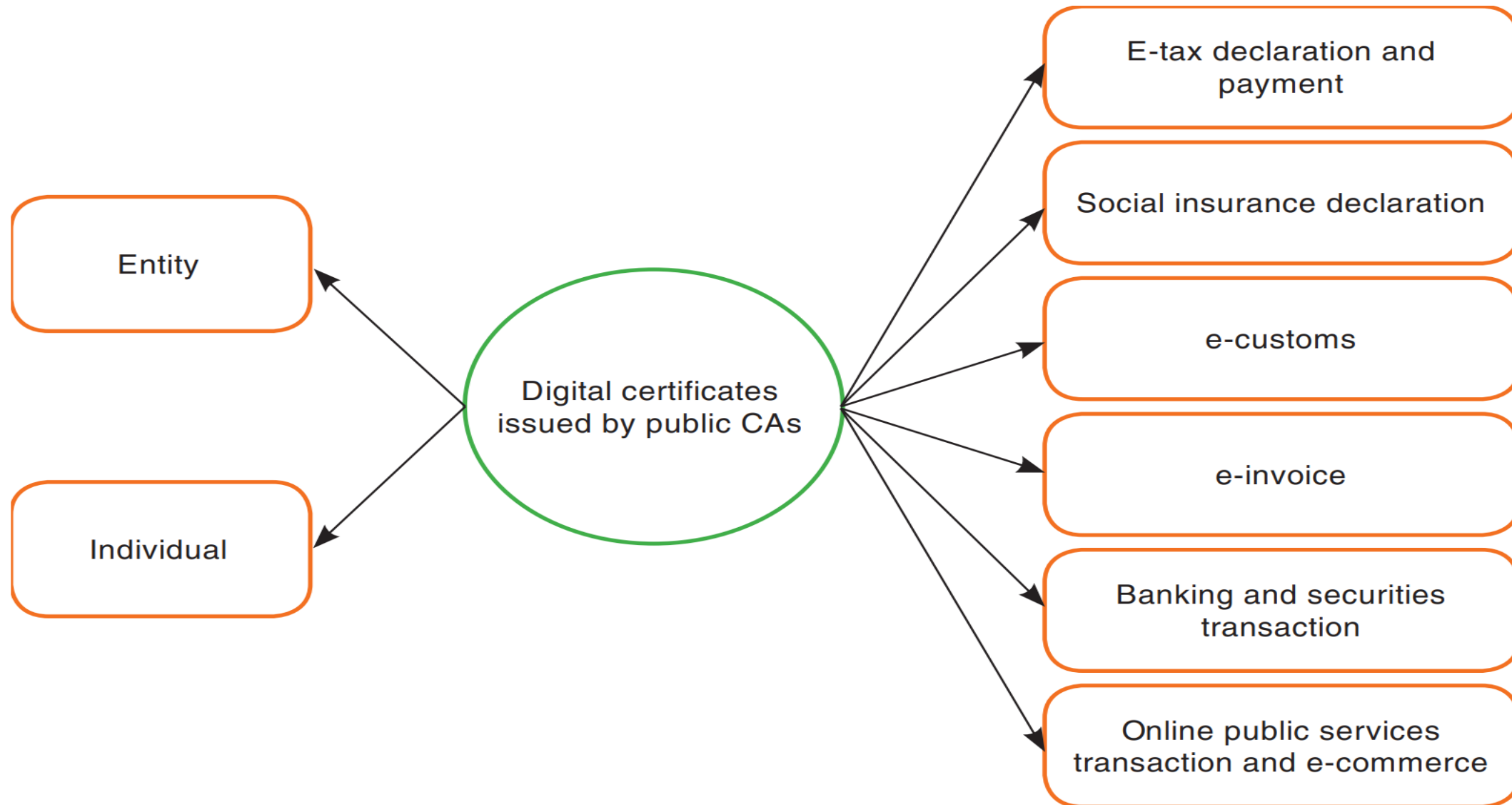
Subject	Contents
Law, Policy, Standards	<ul style="list-style-type: none">- Law on Electronic Transactions 2005 (Currently in the process of amending and supplementing)- Decree on digital signatures 2007 (superseded in 2018)
	<ul style="list-style-type: none">- Circulars guiding standards and regulations (7 Circulars)
	<ul style="list-style-type: none">- Certification Practices Statements
PKI Model	Government PKI system (Government)
	National PKI system (Commercial)
PKI Applications	Electronic tax, Electronic customs, Electronic social insurance,

Active and licensed public CAs

Public digital signatures in Viet Nam: 25 CAs.
CA that has remote signing service: 8 CAs.

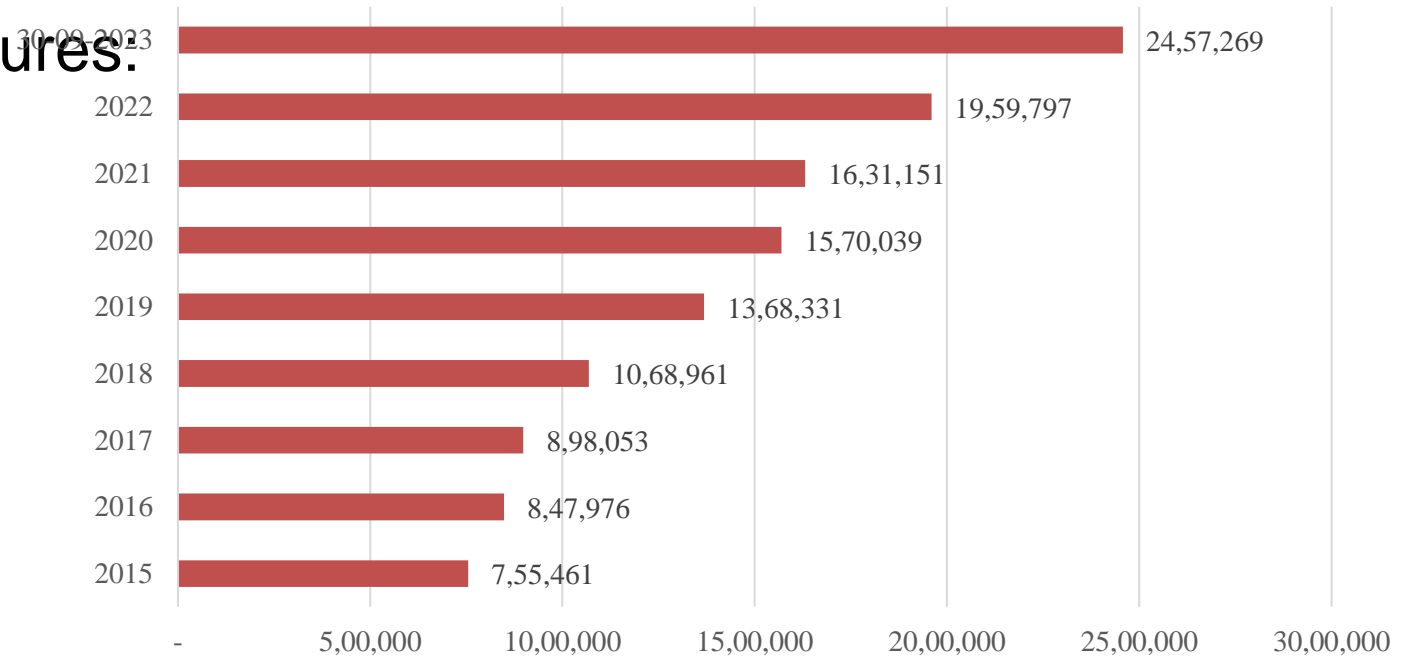


Objects and purpose of using public digital certificates



Public digital signatures

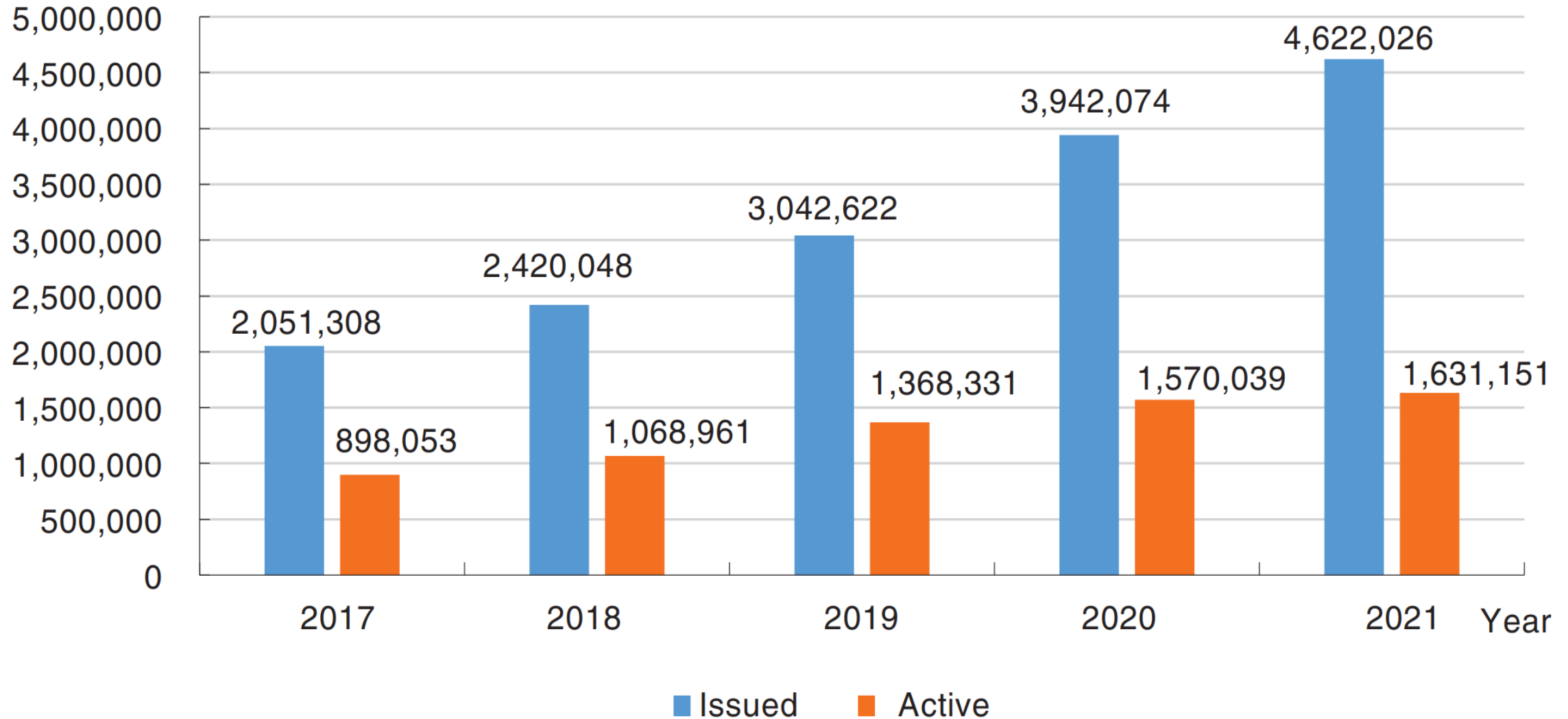
- ❖ Approximately 4.6 million public certificates already issued.
- ❖ Approximately 2.5 million public certificates have been activated.
- ❖ Customers set: legal entities, end-entities (individual customers).
- ❖ Main purposes of digital signatures:
 - Tax declaration.
 - Social insurance claiming.
 - Customs declaration.
 - ...



Number of active public certificates in the period of 2015 - 2023

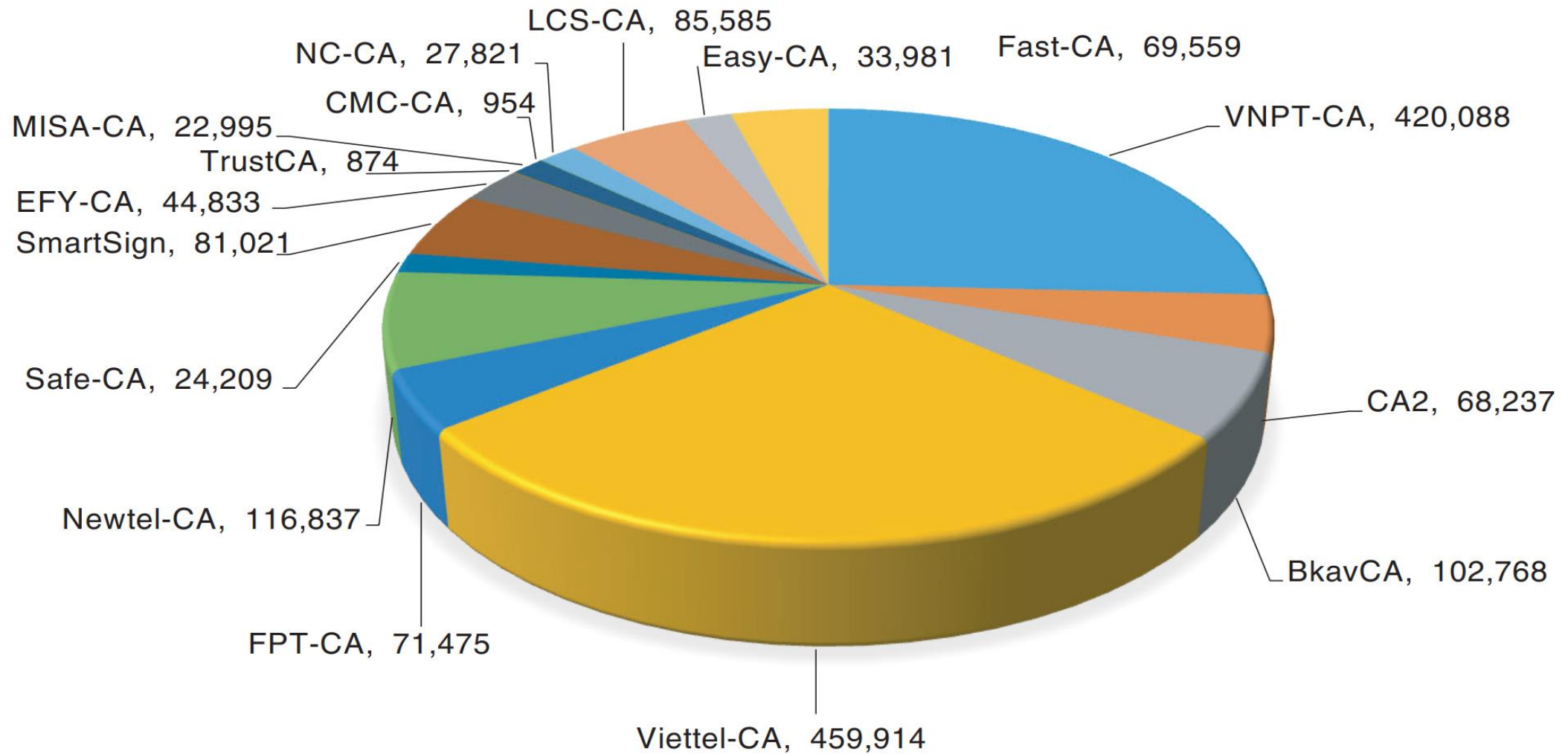
Licensed and active digital certificates

Certificate



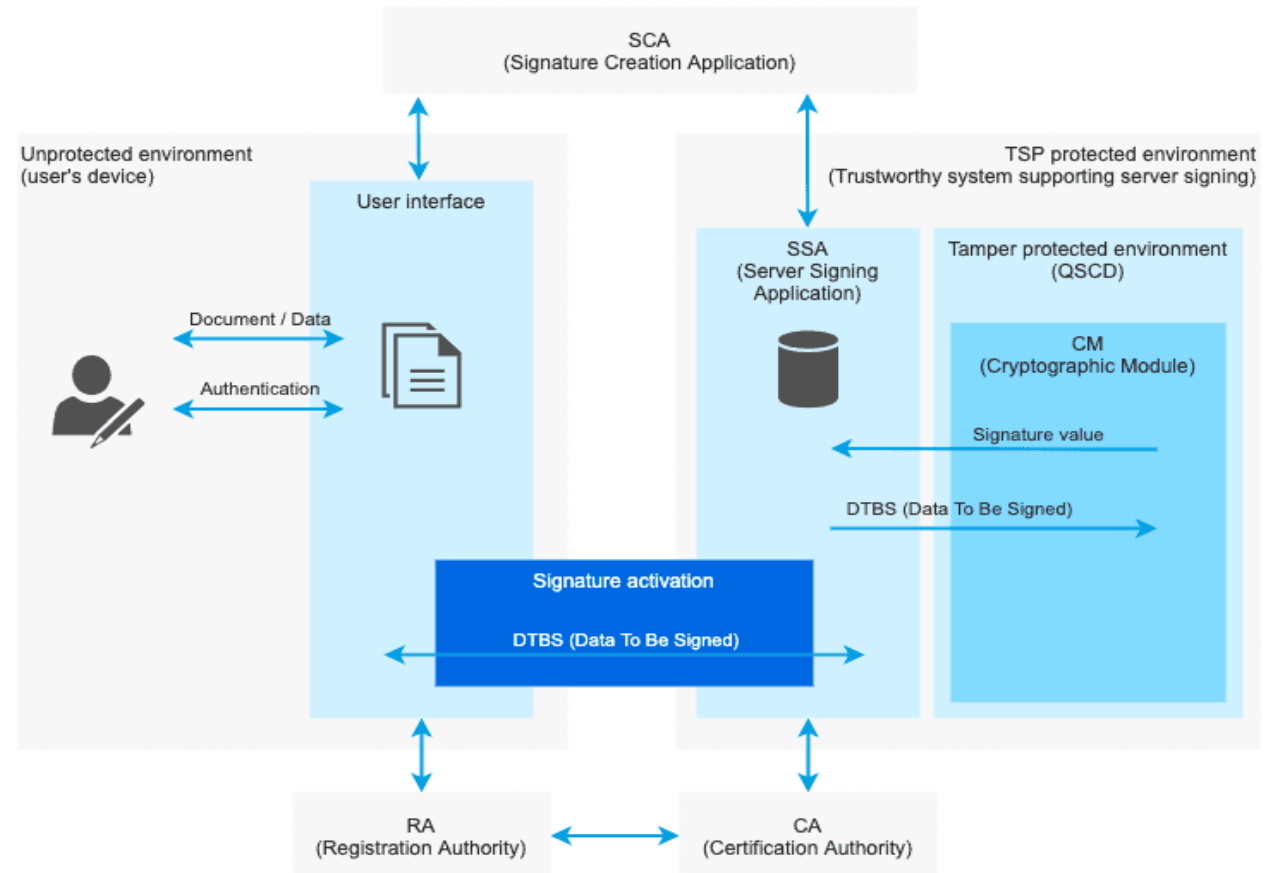
Active digital certificates divided by public CAs

Unit: Certificate



Forms of digital signature in Vietnam

- ❖ USB token.
- ❖ Remote signing: eIDAS compliance.
- ❖ SIM PKI.



Amendment of Electronic Transactions Law

- ❖ Electronic Transaction Law first endorsed in 2005.
- ❖ Many contents are outdated and obsolete by the current situation of Vietnam's e-commerce.
- ❖ New services are introduced in Amended Electronic Transaction Law 2023.



Thanks for your attention!