



GOVERNMENT  
PRINCIPALITY OF LIECHTENSTEIN

# The Liechtenstein Blockchain-Act

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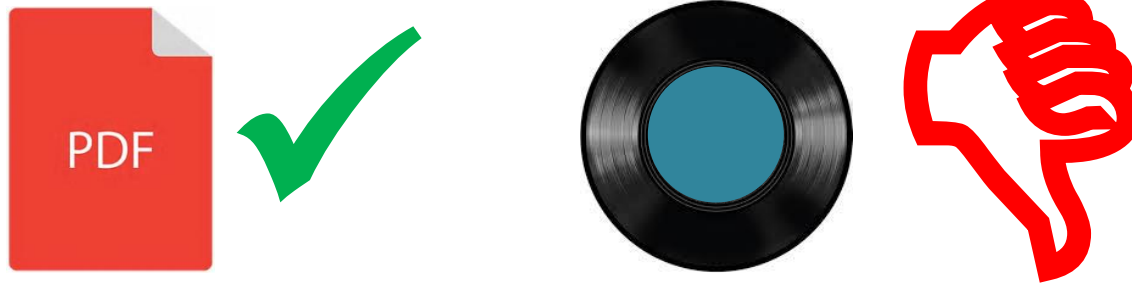
# Bitcoin, Blockchain and Token Economy?

- 2008: Whitepaper of Bitcoin
- 2016: First ICO in Liechtenstein (Aeternity)
- «With Blockchain, no Banks are needed»
- 11/2016: «Blockchain Working Group» Liechtenstein
- 08/2018: Public Consultation of Blockchain Act
- 2019: Parliament Discussion and Entry into Force

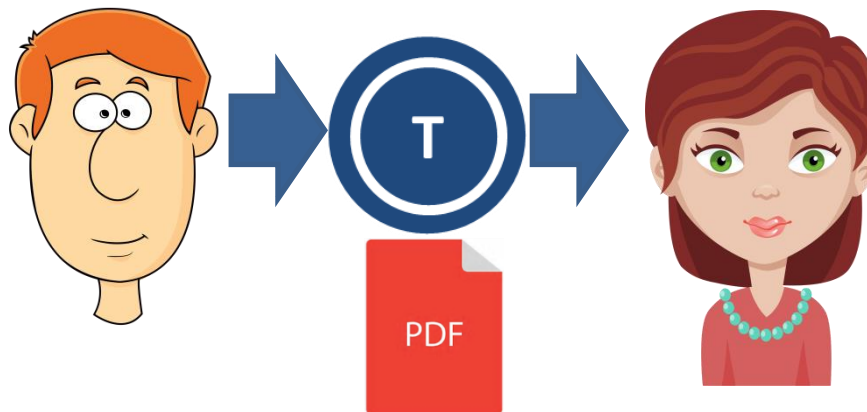


# What is the use of Blockchain?

- Digital Information is copyable



- Blockchain creates Digital Original Document





# Current Token Use



Security Token



Digital Euro (Cash)  
Stable Coin

Software Usage  
Right



Utility Token

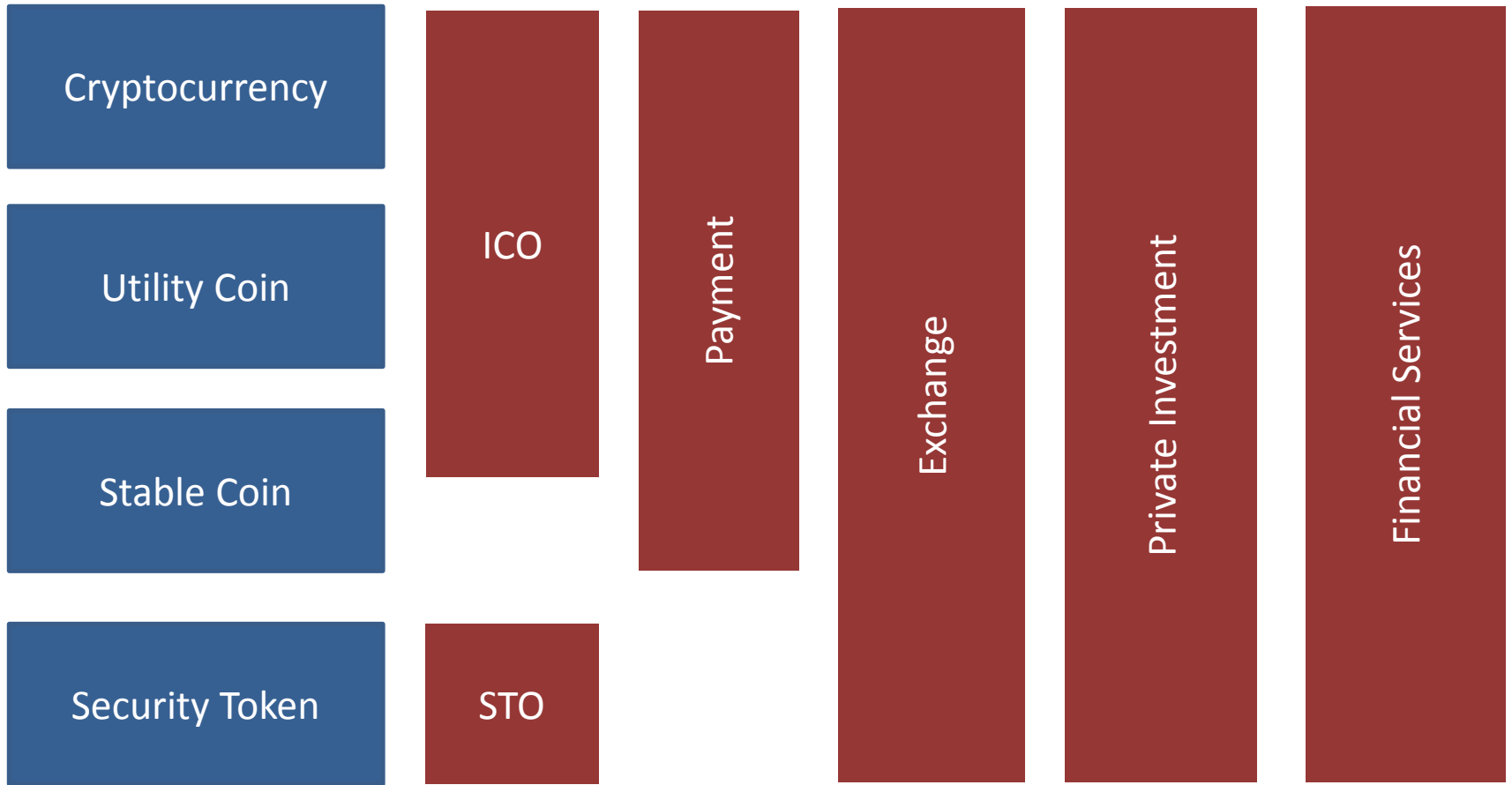
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Crypto Currency  
Crypto Asset



# Current Applications of Token



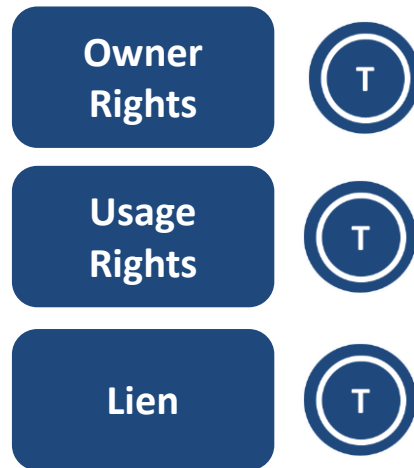


# Use Case: Tokenization of Art / Physical Items





# Use Case: Real Estate





# Use Case: Car



Right of  
ownership



Usage  
Right



Lien



## Digital Economy

Leasing

Car Sharing

Car Rental

Insurance

Car Investments

Theft Control

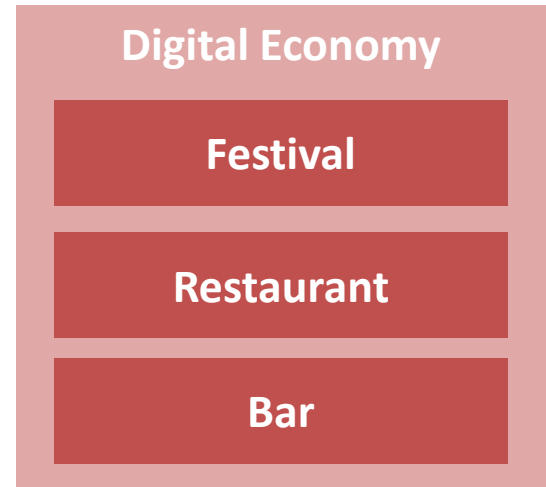




# Use Case: Beer Voucher

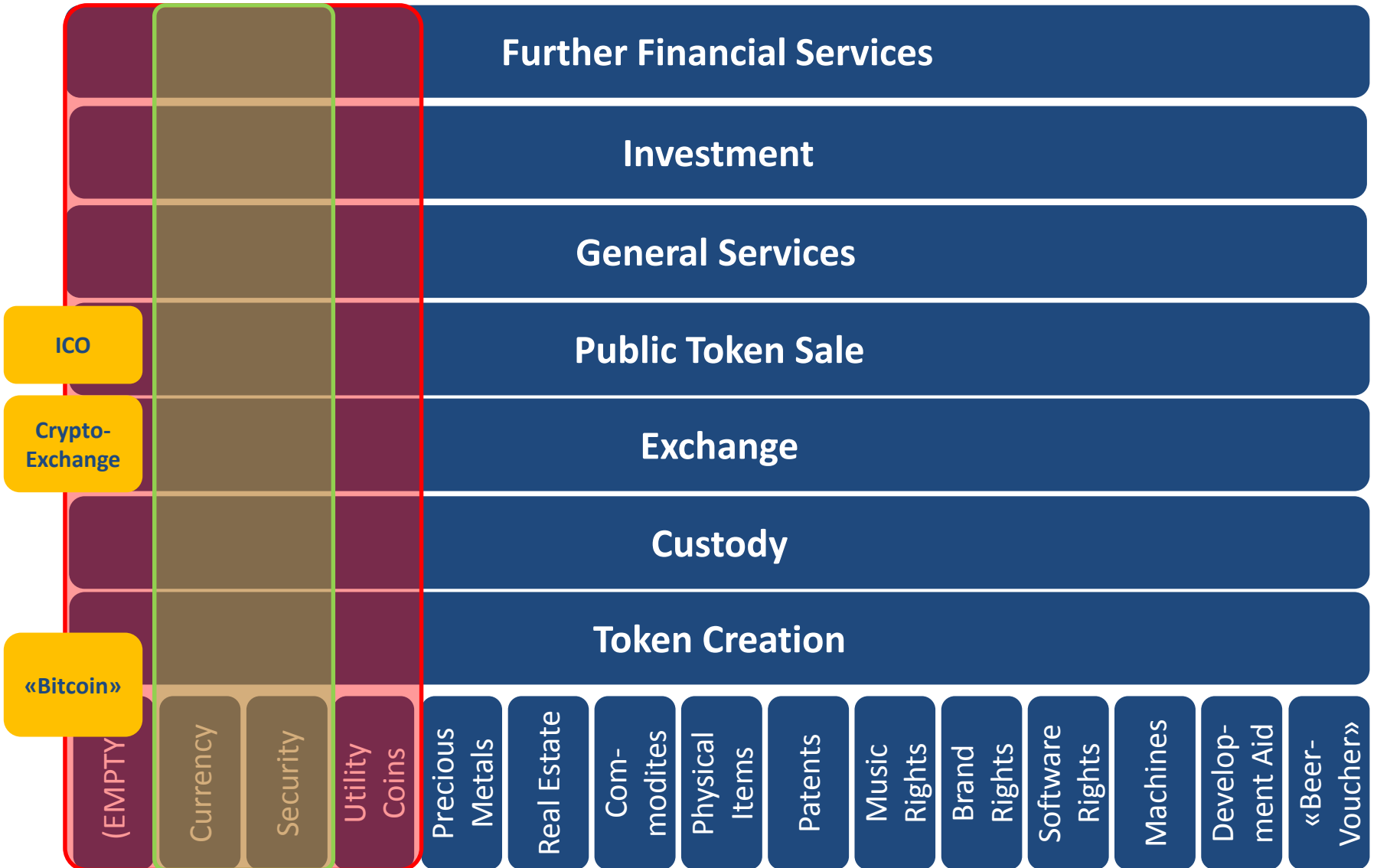


Right to  
get Beer



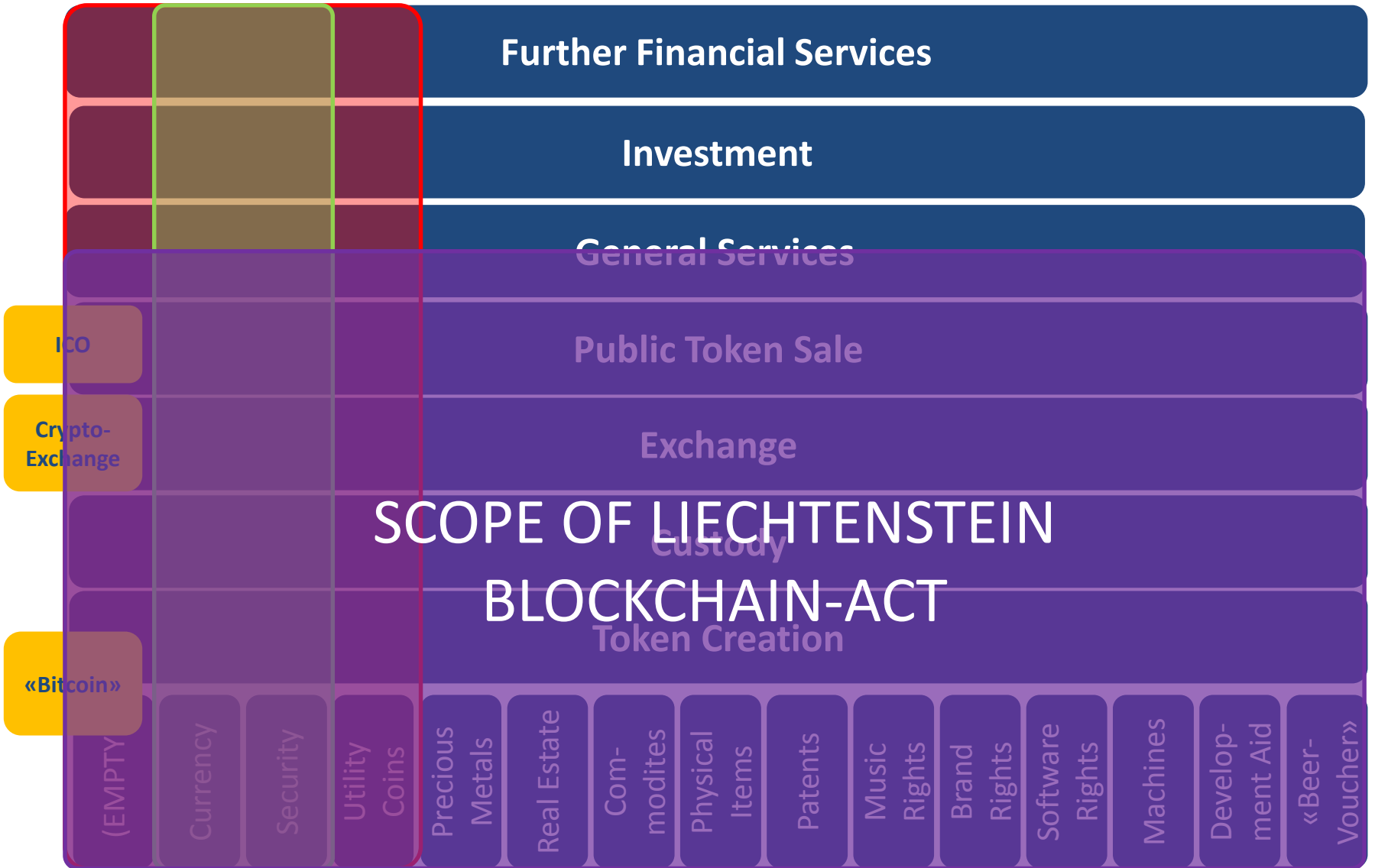


# Functional Overview of Token Economy



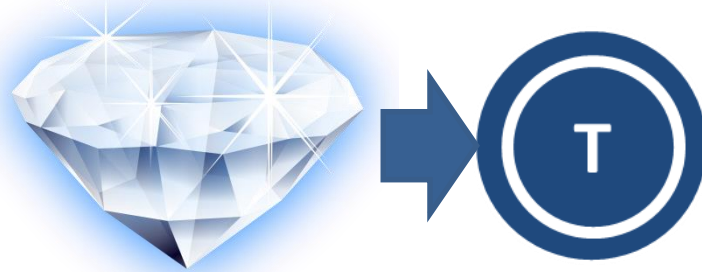


# Scope of Liechtenstein Blockchain Act





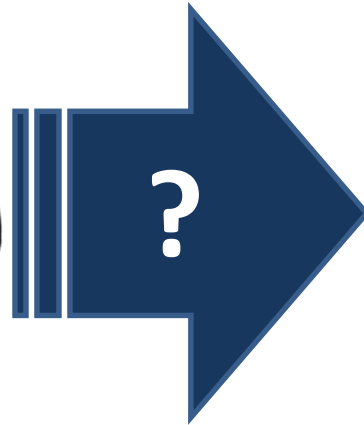
# Fundamental Questions of Token Economy



- What is a «Token»?
- Can you own a «Token»?
- Is there a difference between «Ownership» and «Possession»?
- Can a «Token» be stolen?
- Legal aspects of «Token»-transfer?
- ...



# Legal Classification of Token



Cryptomoney



Cryptoasset

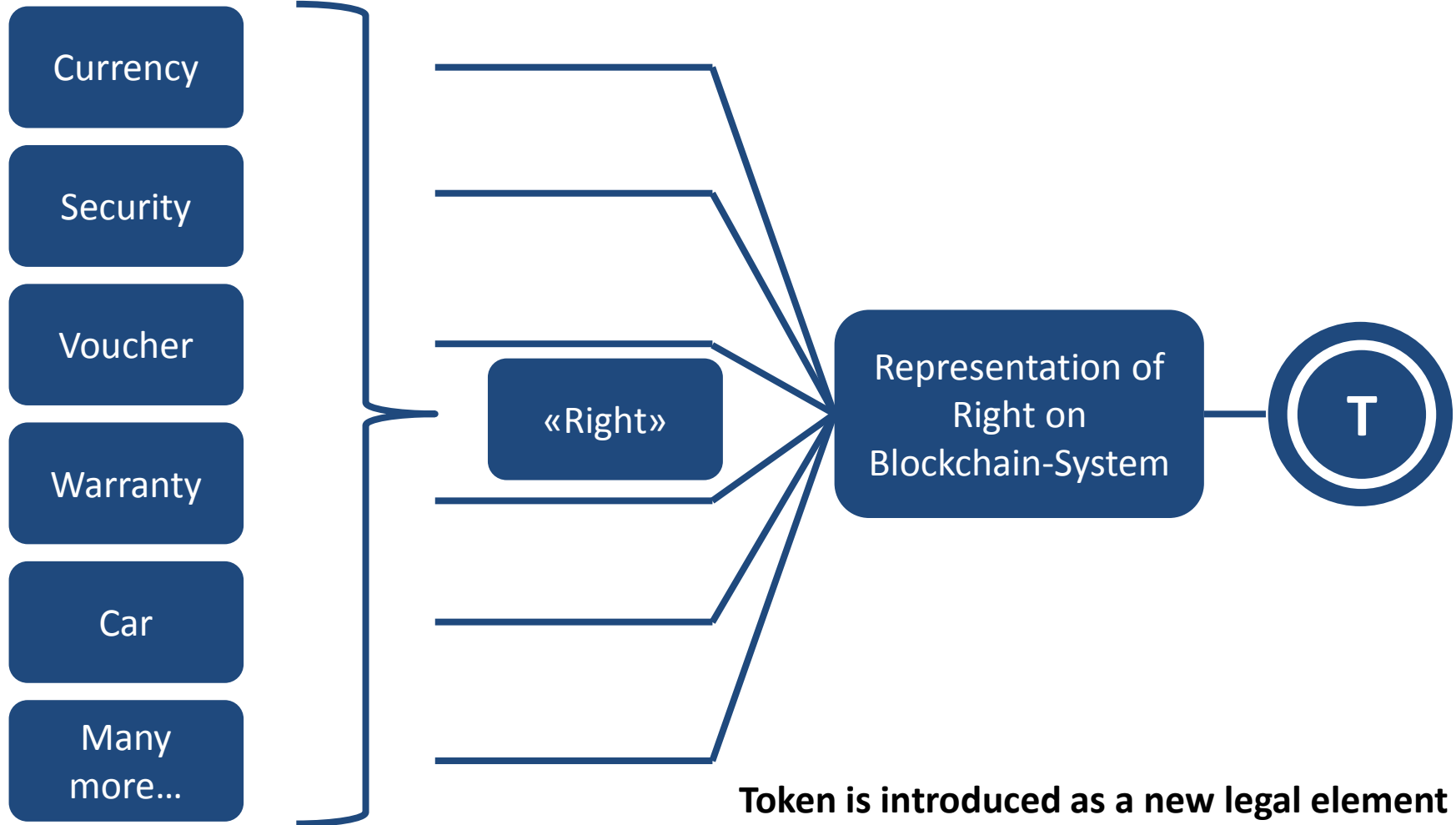


Representation  
of Right





# «Token Container Model»



**Token is introduced as a new legal element in Liechtenstein law.**



# Advantages of the Token Container Model

- **All existing and many future applications of Token Economy are covered**
  - Bitcoin = Empty Container
  - Security Token = Container is filled with Security
  - Utility Coin = Container is filled with Software Usage Right
- **Legal consequences depend on application**
  - Security Token => Security Laws and Financial Market Laws are applicable
  - IP Right Token => IP Law is applicable
- **Relation between Token and Right can be clarified**
  - Legal status of Token Owner and Possessor
  - Legal consequences of Token transfer



# Main drivers of Token Economy

Token Container Model

Civil Right for Token

«Trust»

Regulation of Service Providers





# Public law

## Need to regulate Service Providers?

### Example: Tokenization of physical assets



- Is the painting really genuine?
- Is the value really USD 793 Mio.?
- Is the painting stolen?



**USD 793 Mio.**

- Is he really the owner?
- Is the painting existing?
- Does the Token represent the Ownership Rights of this painting?
- Is the Token well programmed?
- Am I really the new owner if I buy the Token?



# Illustration

## Physical Validator

- Interface between «real» world and Blockchain
- Ensuring that Asset is stored safely



Safe Storage



## Token Generator

- Technical Correctness
- Legal representation

## Token

- certificate of authenticity
- certificate of origin
- certificate of value





# Basic Roles in Token Economy

**Physical  
Validator**

**Token  
Generator**

**Token Issuer**

**TT Depository**

**TT Protector**

**TT Exchange  
Service**

**TT Verifying  
Authority**

**TT Identity  
Service  
Provider**

**TT Price  
Service  
Provider**

TT: Trustworthy Technologies (e.g. Blockchain)



# Goals of the Blockchain Act

- **Legal Certainty for Token Economy**
  - Users
  - Service Providers
- **Creating Trust in order to foster efficiency of Token Economy**
- **Guidelines for Token Economy**
  - Requirements for Service Providers
  - Basic information sheet
  - AML Requirements



# European Union

- Token Economy will be one of the important driver of digital economy
- Token Economy needs clear, appropriate and supportive rules
- EU is in a perfect starting position to be the leading region for tokenization

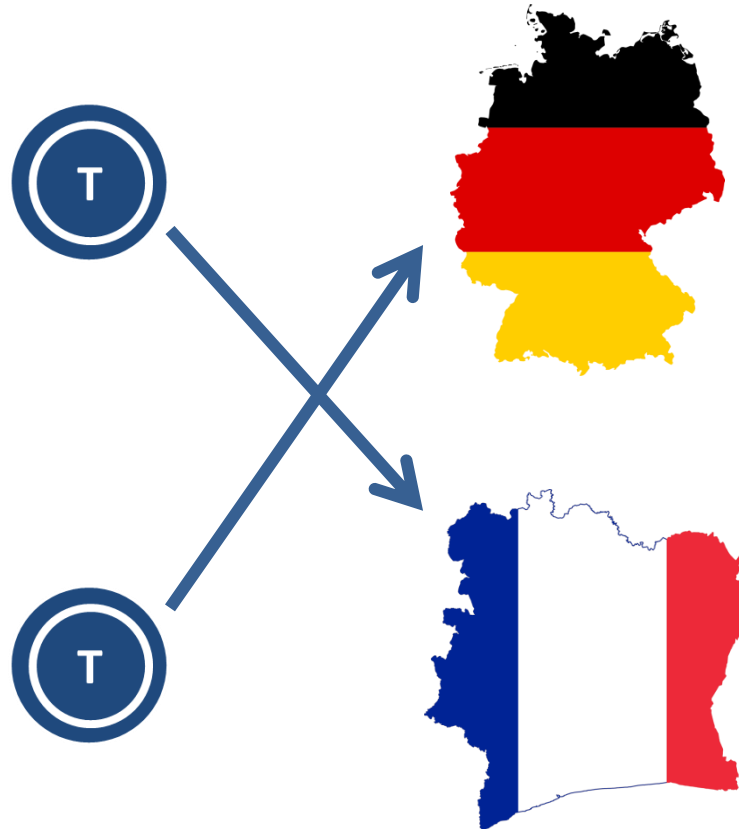


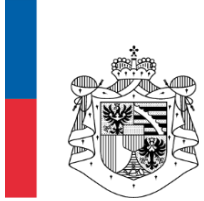
## Idea 1: EU-Token Model

- Token = Instrument for digital representation of a «Right»
- Any kind of «Rights» can be represented
- The special regulation of the represented «Right» is applicable
- Clarification: Possession, Ownership, connection between token and right, consequences of a transaction



# Idea 2: Legal Framework for cross-border tokenisation





# Thank you for your attention

**More information on:**

- [www.liechtenstein.li/](http://www.liechtenstein.li/)
- [www.regierung.li](http://www.regierung.li)
- [www.liechtenstein-business.li/](http://www.liechtenstein-business.li/)
- [www.impuls-liechtenstein.li/](http://www.impuls-liechtenstein.li/)