

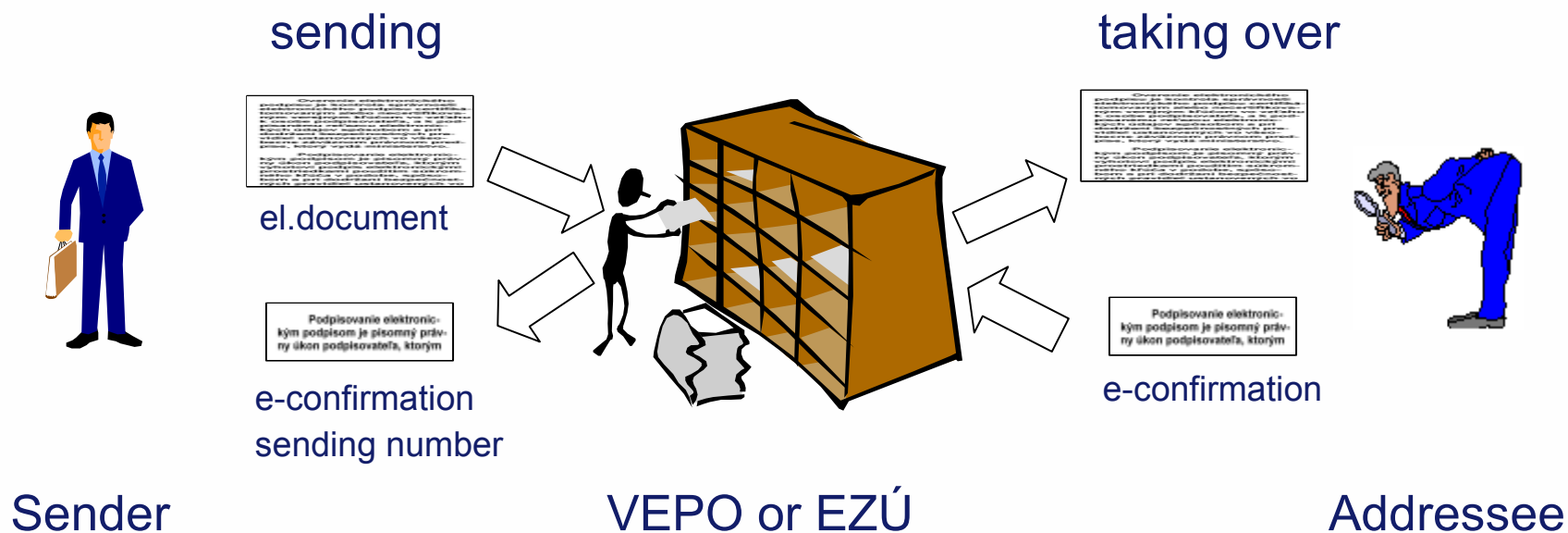
# Electronic registry and its simpler form EZÚ

Ing. Radimír Rexa, CSc.  
UNICOM, spol. s r.o.

Itapa

21.-22. 10. 2005

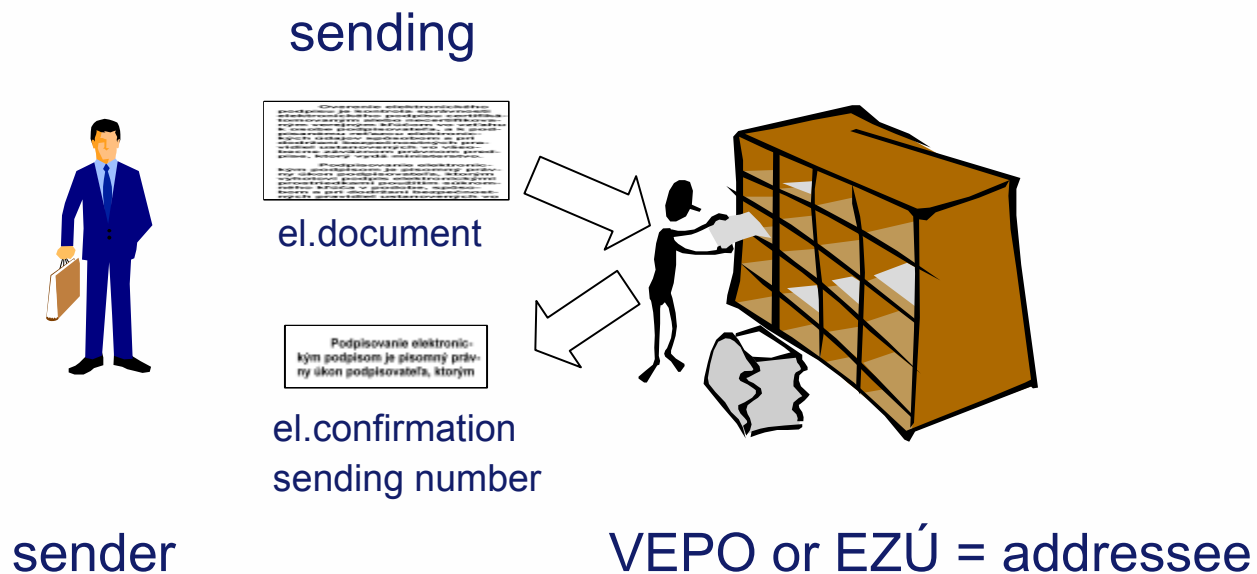
# ➤ E-registry – service



**UNICOM**

UNiversal computer COMMunication s.r.o.

# ➤ E-registry - system



# ➤ Maintenance of written form of e-document

## Art.40 Par.4 - 1.sentence of CC EP, without EP

*The written form is maintained in the case the legal act has been executed ... by electronic means enabling to keep the legal act's **content** and to determine the person that has done the legal act.*

- 1. Authenticity of origin (who ?)**
- 2. Integrity of content**
- 3. Non-repudiation**
- 4. ....**

## Art.40 Par.4 - 2.sentence of CC ZEP

*The written form is maintained **every time** the legal act executed by electronic means has been signed by **guaranteed electronic signature**.*

**UNICOM**

UNiversal computer COMmunication s.r.o.

# ➤ Incompatibility of basic definitions

SR	ČR	Dir.1999/93/EC
	EP	ES Art.2.1
EP <sub>SK</sub>	ZEP	AES Art.2.2
		QES Art.5.1
ZEP <sub>SK</sub>		QES with LDV

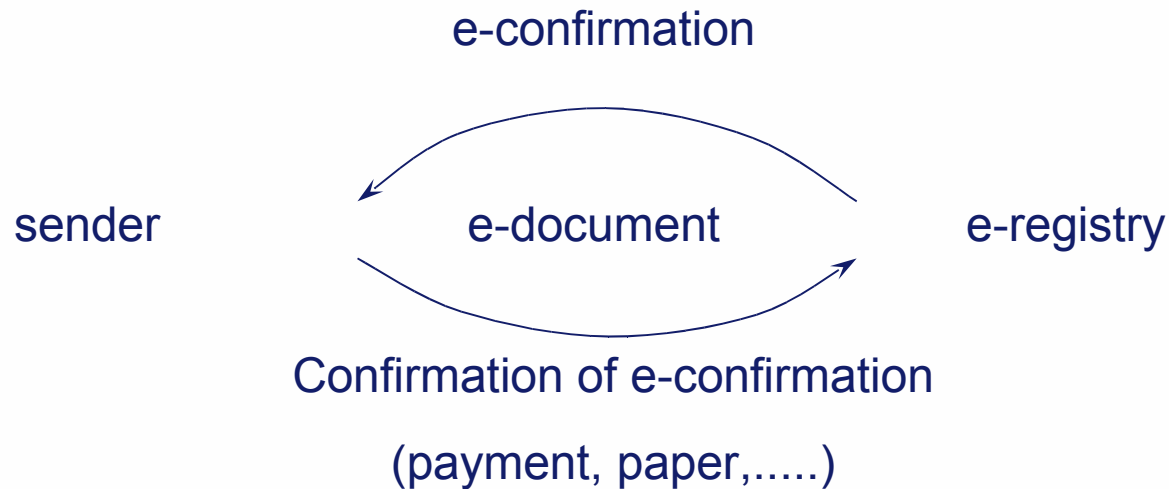
# ➤ E-registries from UNICOM

	<b>1992 HB I</b>	<b>1996 HB III</b>	<b>2003 VEPO</b>	<b>2005 EZÚ</b>
<b>1. Authenticity of origin</b>	Auth.code ES (OTP)	PKI AES	PKI AES	Auth.code ES (Grid card)
<b>2. Integrity of content</b>	paper	AES e-confirmation	AES e-confirmation	e-confirmation
<b>3. Non-repudiation</b>	paper	AES e-confirmation	AES e-confirmation	Confirmation of e-confirmation (payment, paper, ....)
Document type	e-payment	e-payment	e-document	e-document

**UNICOM**

UNiversal computer COMMunication s.r.o.

# ➤ EZÚ: Non-repudiation



## **e-confirmation**

- sending number
- date and time
- e-document
- AES

## **e-confirmation**

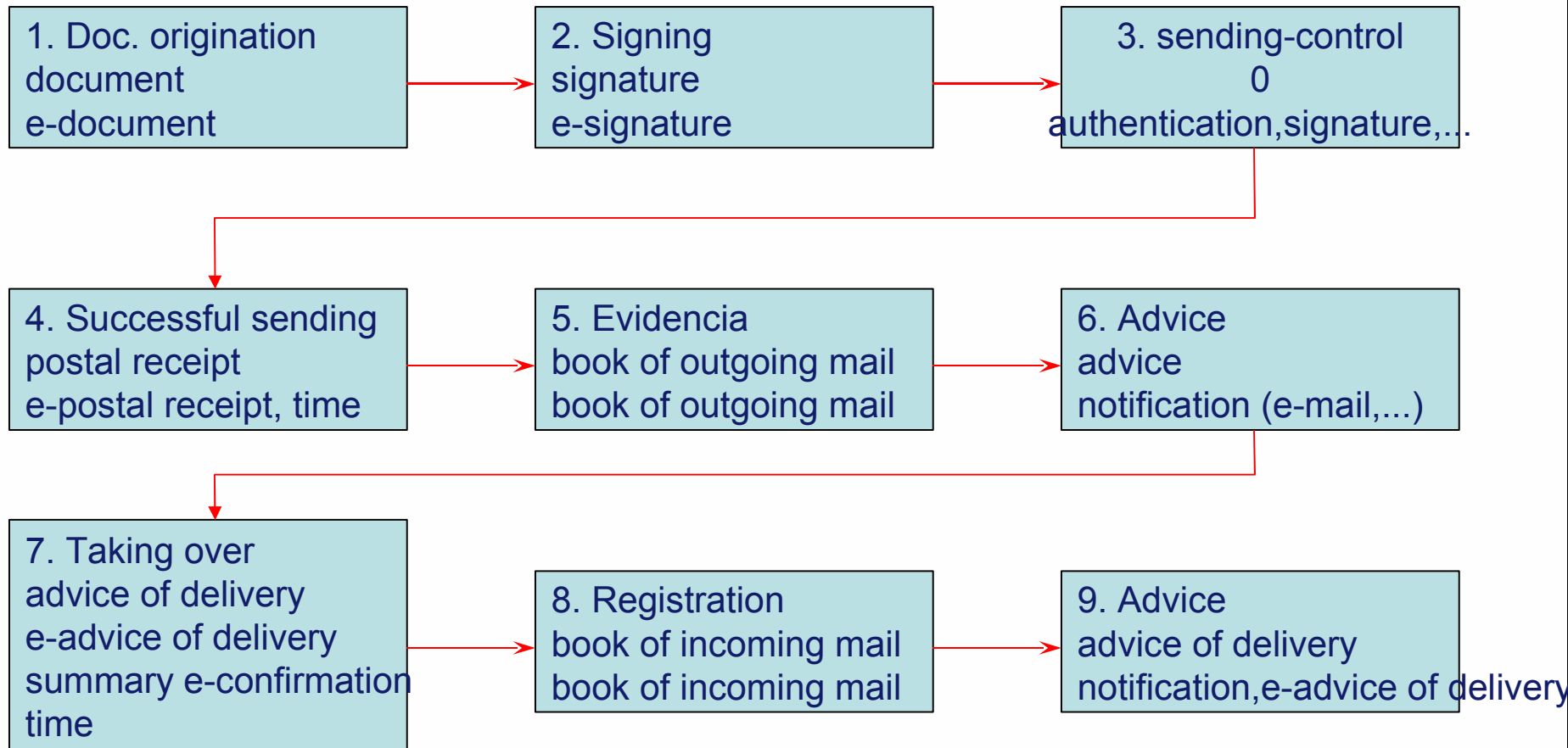
- e-postal receipt
- e-advice of delivery
- summary e-confirmation

**UNICOM**

UNiversal computer COMMunication s.r.o.



# Classic/electronic registered mail with confirmation – life cycle



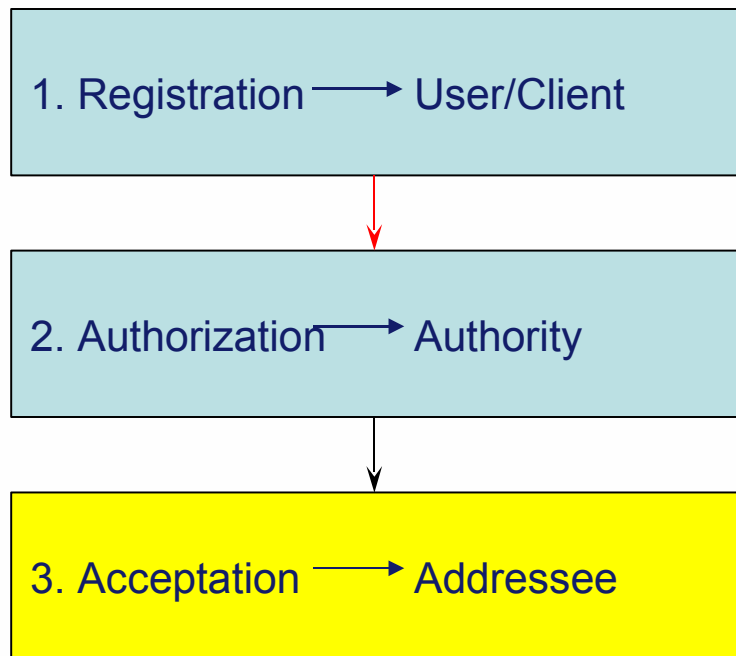
**UNICOM**

UNiversal computer COMMunication s.r.o.





# EZÚ



**UNICOM**

UNiversal computer COMMunication s.r.o.

# ➤ Why from VEPO based on PKI to EZÚ based on auth.code and ES

1. Success of Social Insurance Company by conversion to electronic data collection (90% of data / 1,5 year)

2. Obstruction of free access to electronic communication market – incompatibility of the Act 215/2002 Coll. with EU legislation

- **Discriminatory Art. 5 Par.1**

*If an electronic signature may be used in contacts with the public authority, this electronic signature must be **guaranteed electronic signature**.*

- **ES a e-confirmation are not electronic signatures**

3. Uneffectiveness of spending on ZEP<sub>SK</sub>

- hundreds of millions Sk spent on ZEP<sub>SK</sub> infrastructure

- tens of documents with ZEP<sub>SK</sub> a month after 3 years of force of Act 215/2002 Coll.

(ZEP<sub>SK</sub>/AES/ES: 10/100 000/1 000 000)

**UNICOM**

UNiversal computer COMMunication s.r.o.



# Summary

1. E-registry – when as a service, when as a system?
2. Equalization of the e-document with the classic paper document doesn't require the PrK and the PuK certificate on the sender's side



# Questions

[r.rexa@e-unicom.sk](mailto:r.rexa@e-unicom.sk)

<http://www.e-unicom.sk>

**UNICOM**

UNiversal computer COMMunication s.r.o.