



Cyber risk's factors

Factors increasing cyber risk

Aforethought

Instrument

Ways to cash out



Villain

Factors increasing cyber risk

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Villain



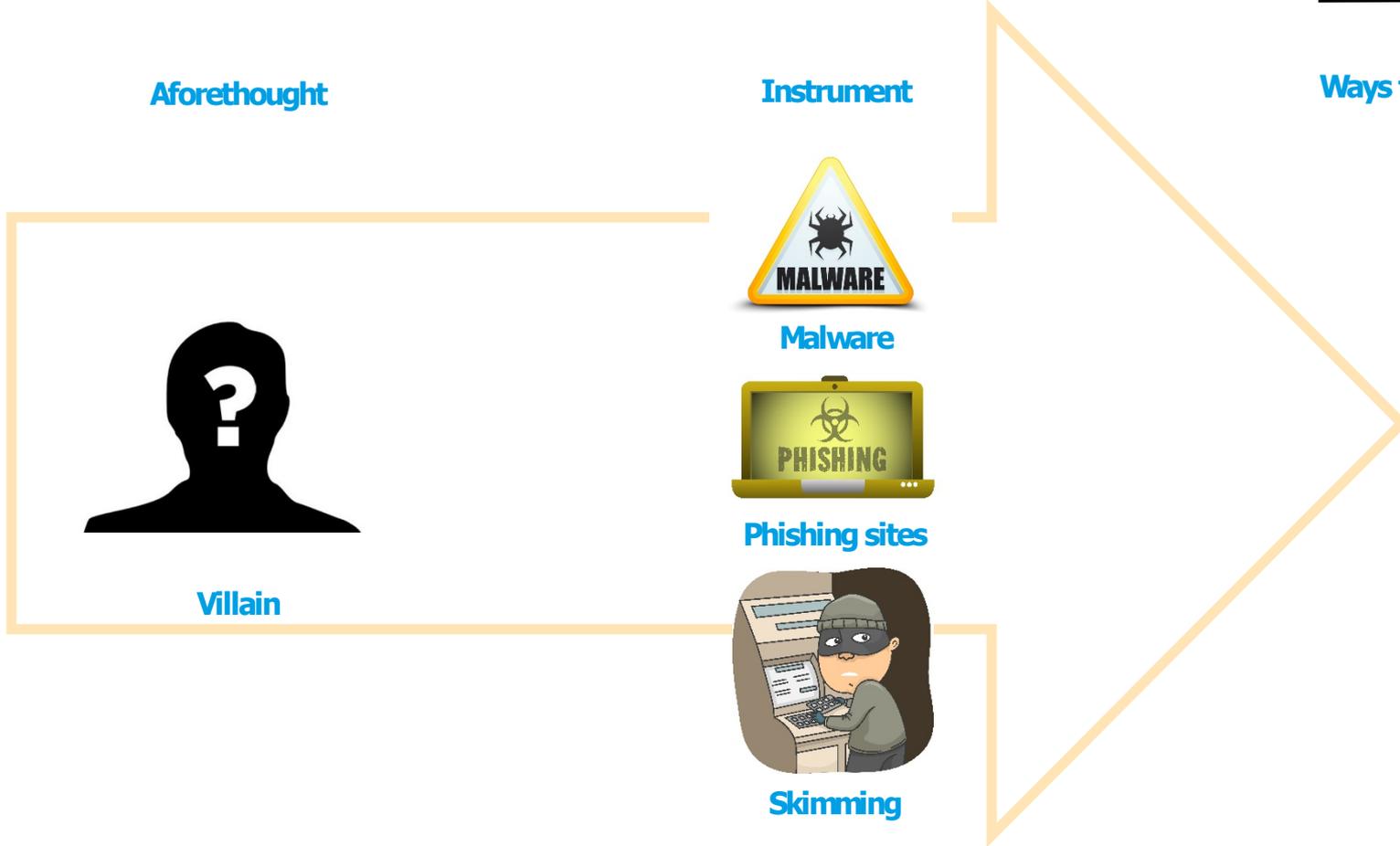
Malware



Phishing sites



Skimming



Factors increasing cyber risk

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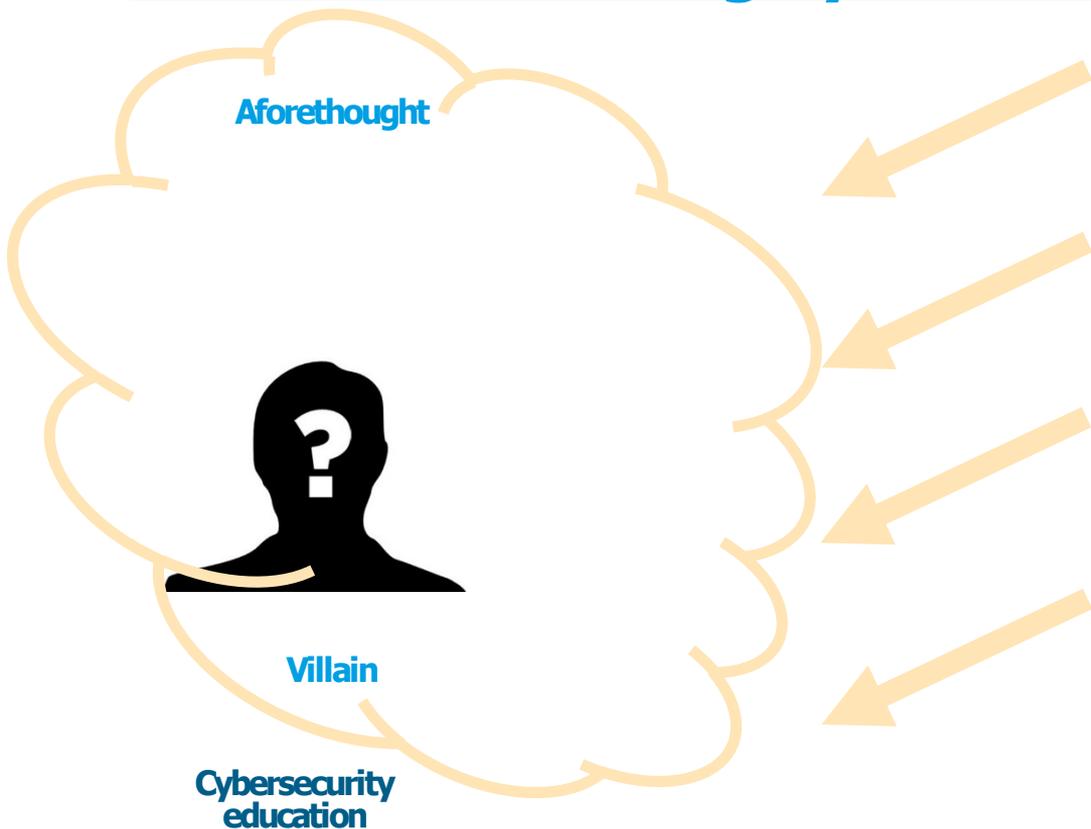
Skimming



Ways to cash out



Factors decreasing cyber risk



Users of financial services



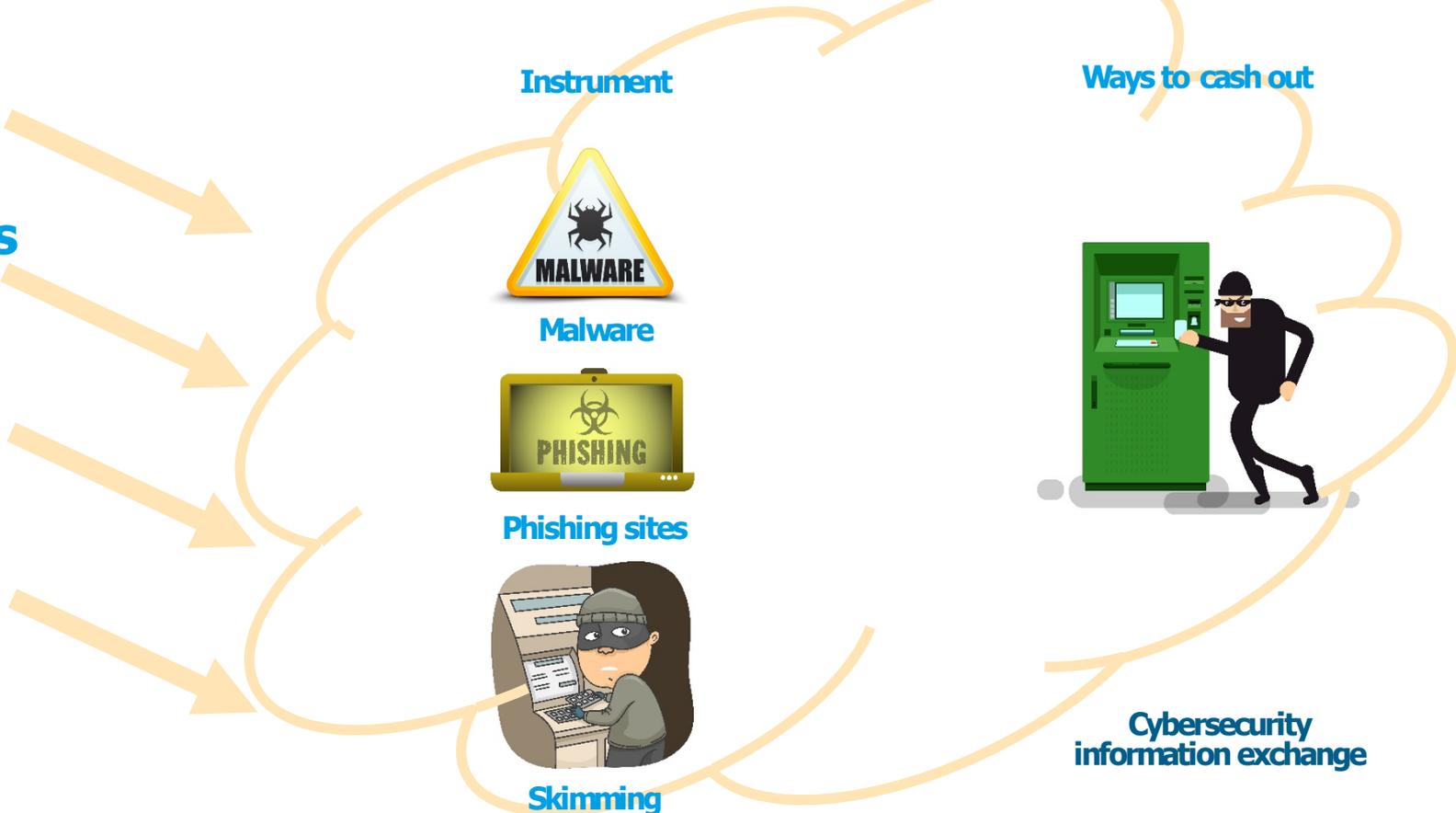
Pupils & Students



СИРИУС
ОБРАЗОВАТЕЛЬНЫЙ ЦЕНТР

Factors decreasing cyber risk

Exploring
villain's
technologies
and sharing
the results



Instrument



Malware



Phishing sites



Skimming

Ways to cash out

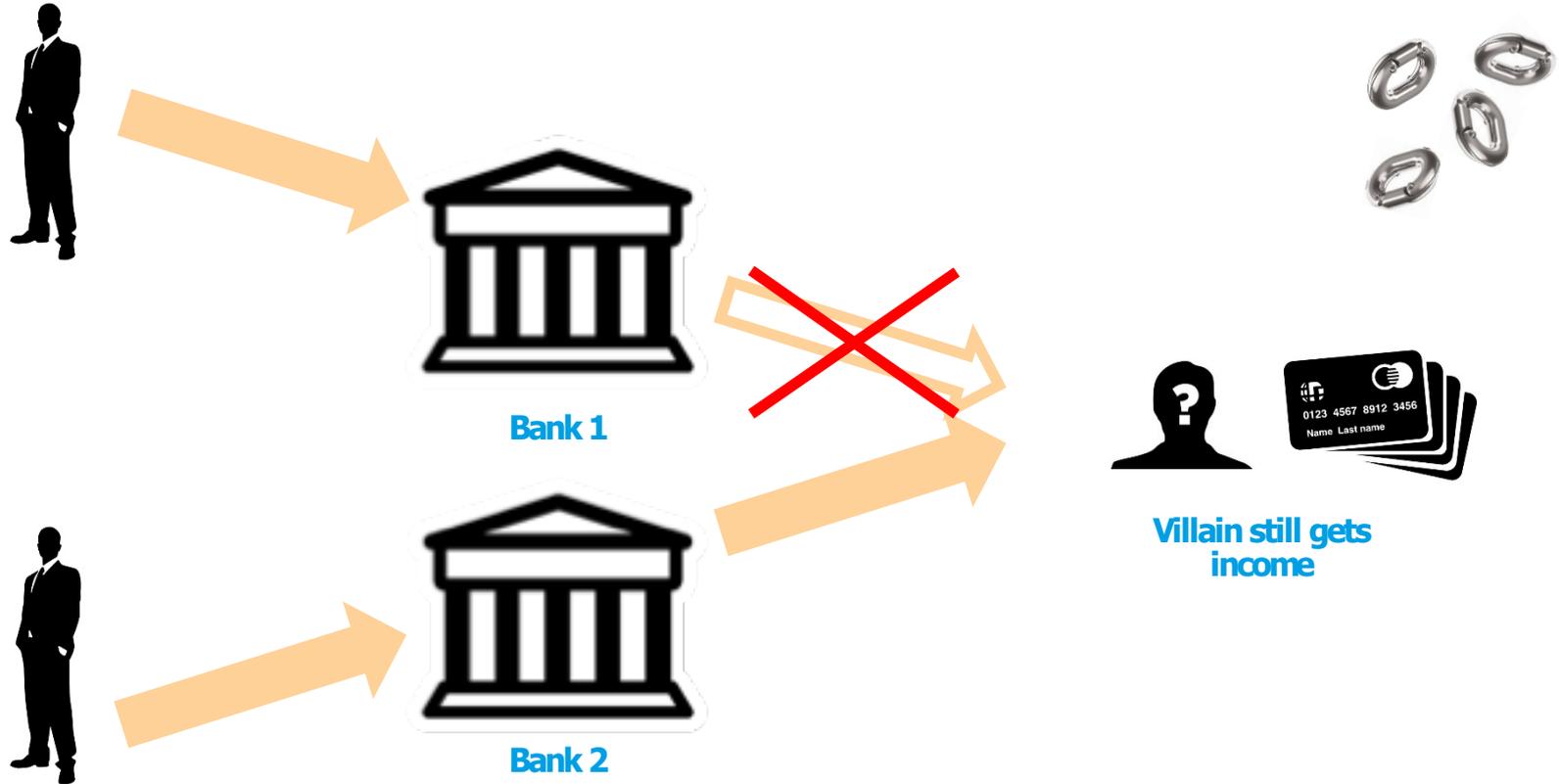


Cybersecurity
information exchange



Cybersecurity information exchange

No cybersecurity information exchange



The first goal – to integrate all banks into exchange

Banks must get access to automated system for cybersecurity information exchange implemented by the Bank of Russia considering recommendations of the Bank of Russia (September 30 is the deadline for getting access)

Automated system for cybersecurity information exchange implemented by the Bank of Russia

Banks must notify the Bank of Russia about the existence of new problems and incidents associated with providing the data security for funds transfer (Article 2.13¹)

Bylaws of the Bank of Russia (including amendments)

Banks must provide the data security for funds transfer considering regulatory acts of the Bank of Russia governing relations in the national payment system (Article 27)

A Federal Law on National Payment system (including amendments)

As exchange is organized by Federal Law on National Payment system it is free for all its participates

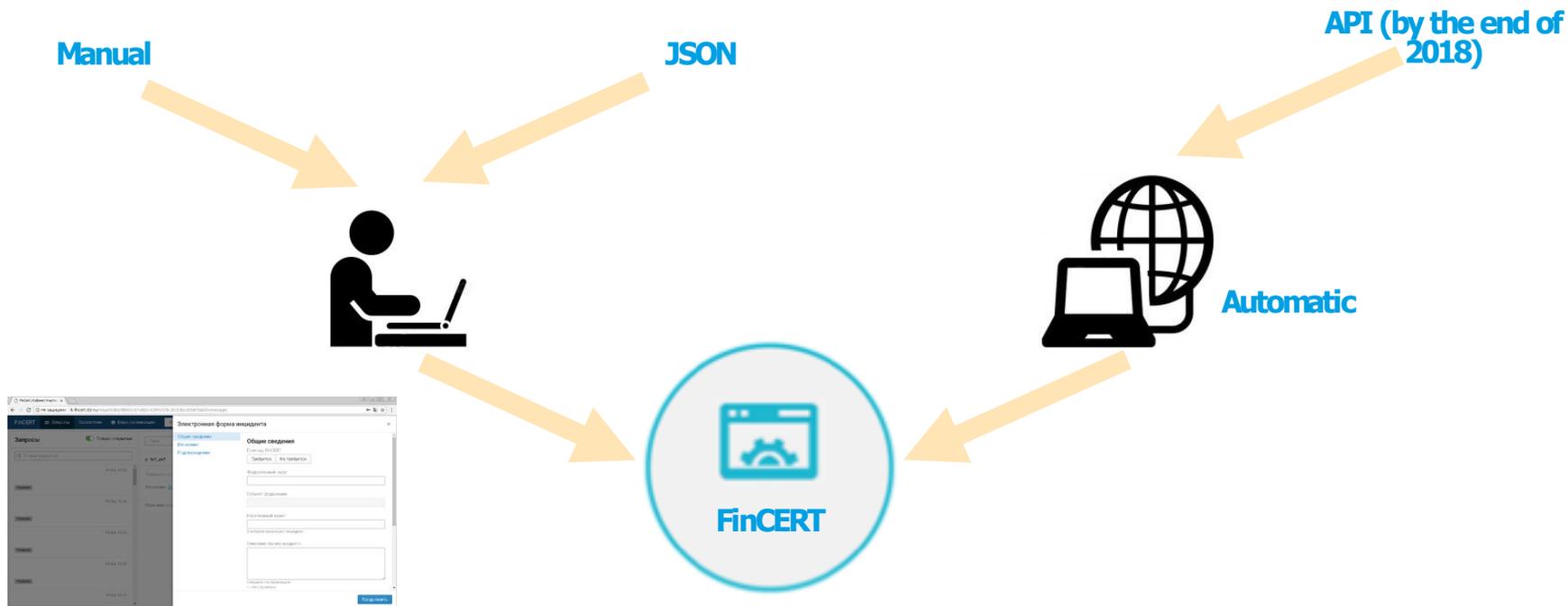
The first goal – to integrate all banks into exchange



Chain only as strong as its weakest link

The second goal – to make information in exchange accessible by all participants

The second goal – to make information in exchange accessible by all participates



The second goal – to make information in exchange accessible by all participants



Knowledge without application is useless

The third goal – to make information applicable

The third goal – to make information applicable

State system of detection, prevention and elimination of consequences of computer attacks

ГОССОПКА

Is negotiating

Law enforcement agencies

Inter-agency agreements

Cellular operators, service providers, domain name registrars

Inter-agency agreements

Banks

Bylaws of the Bank of Russia

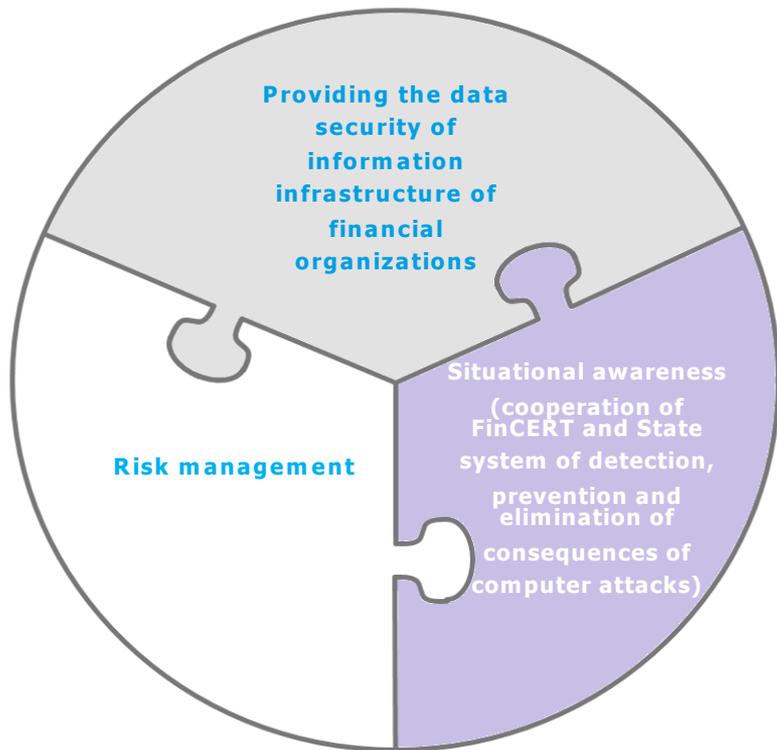


FIRST

EAST EGAF



Reaching the goals. Structure of information exchange



Critical information infrastructure objects of financial sector – systems and networks operating within financial sector

A Federal Law on Security of Critical information infrastructure in the Russian Federation



According to Doctrine of Information Security of the Russian Federation the Bank of Russia is the part of institutional framework of the information security system

State system of detection, prevention and elimination of consequences of computer attacks

ГОССОПКА



Financial organizations

Format of data exchange is set in standard provided by the Bank of Russia. The standard is agreed upon with financial organizations and Federal Security Service of the Russian Federation

Blocking domains

More than 1650 domains with fraudulent content blocked in 2017-2018 (especially connected with banking, insurance, FIFA world cup and funds transfers)

Number of information exchange participates:

- 430 – Banks
- 105 – Financial organizations (non-banks)
 - 3 – Banking software developers
 - 18 – Credit organization (non-banks)
 - 7 - Cellular operators, service providers
 - 3 – Antimalware software developers
 - 3 - Law enforcement agencies
- 54 - Others

According to official reporting total amount of fraudulent funds transfers

Accounts of juridical persons

- In 2017 – 1,57 billion rubbles
- In 2016 – 1,9 billion rubbles
- In 2015 – 3,8 billion rubbles

Payment cards

- In 2017 – 0,96 billion rubbles
- In 2016 – 1,08 billion rubbles
- In 2015 – 1,15 billion rubbles

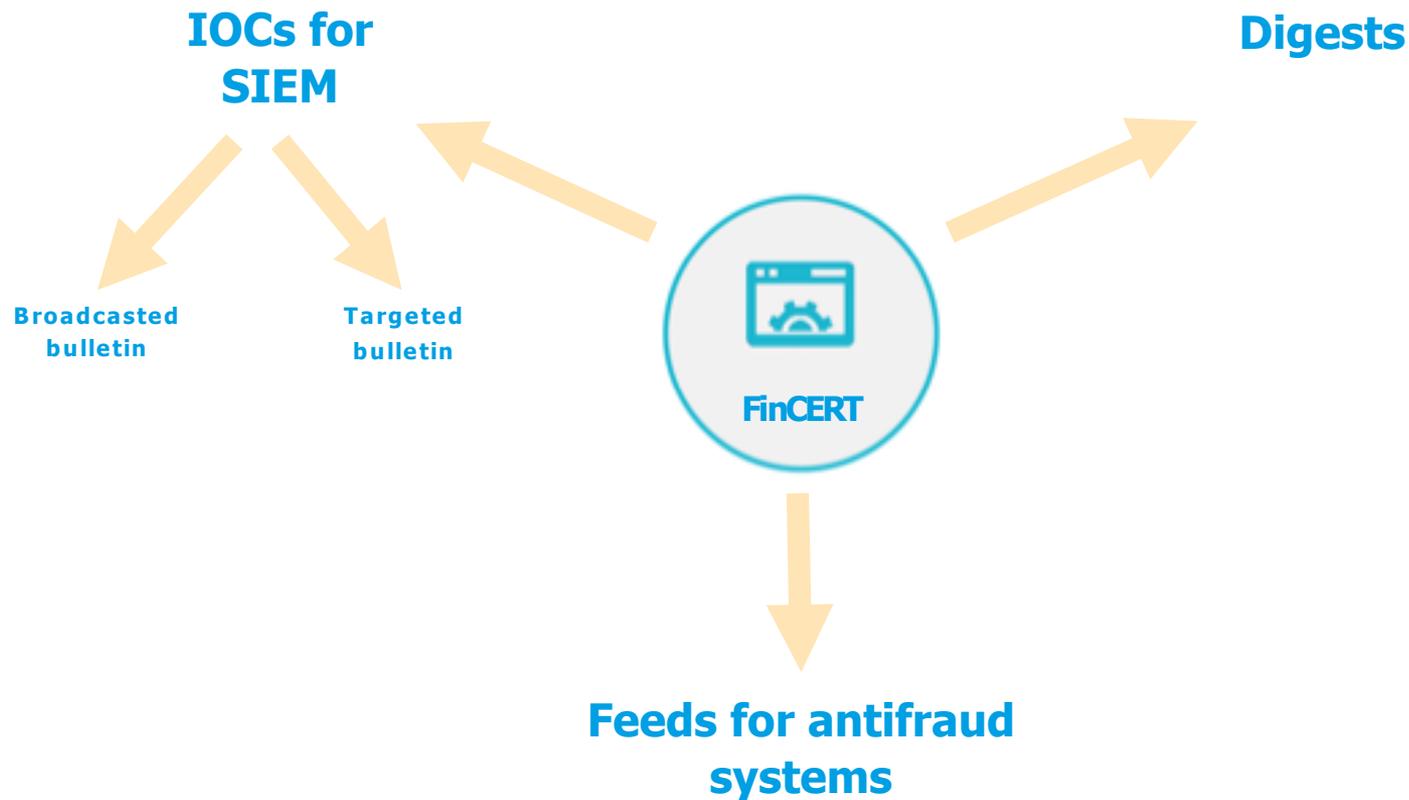
KPI: Proportion of fraudulent funds transfers with payment cards among the total funds transfers with payment cards less than 0,005%

Amount of bulletins

**Total:
402**

**In 2017:
119**

Cybersecurity information exchange types of outgoing information



Cybersecurity information exchange types of outgoing information

**IOCs for
SIEM**

Digests



**Feeds for antifraud
systems**

Ways to cash out



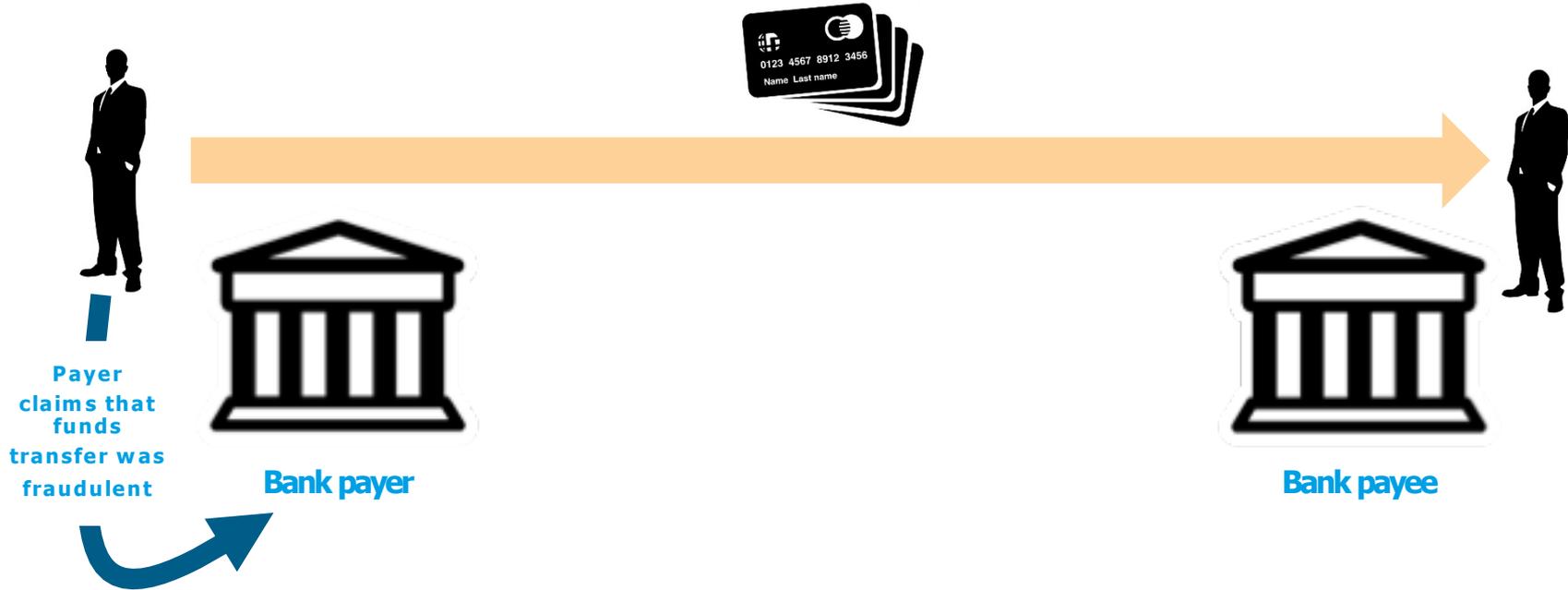


Feeds for antifraud systems

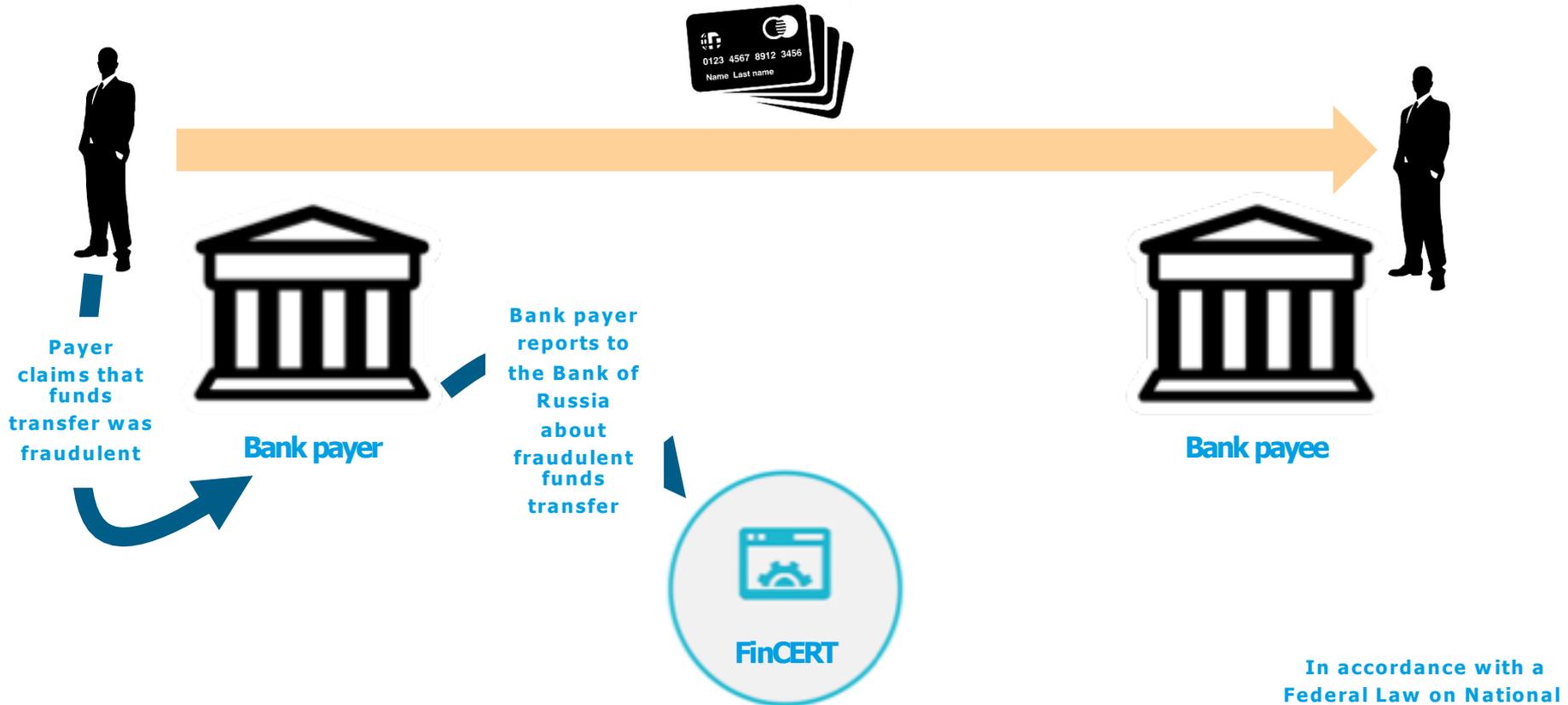
The main goal – to raise bank's awareness of its customers



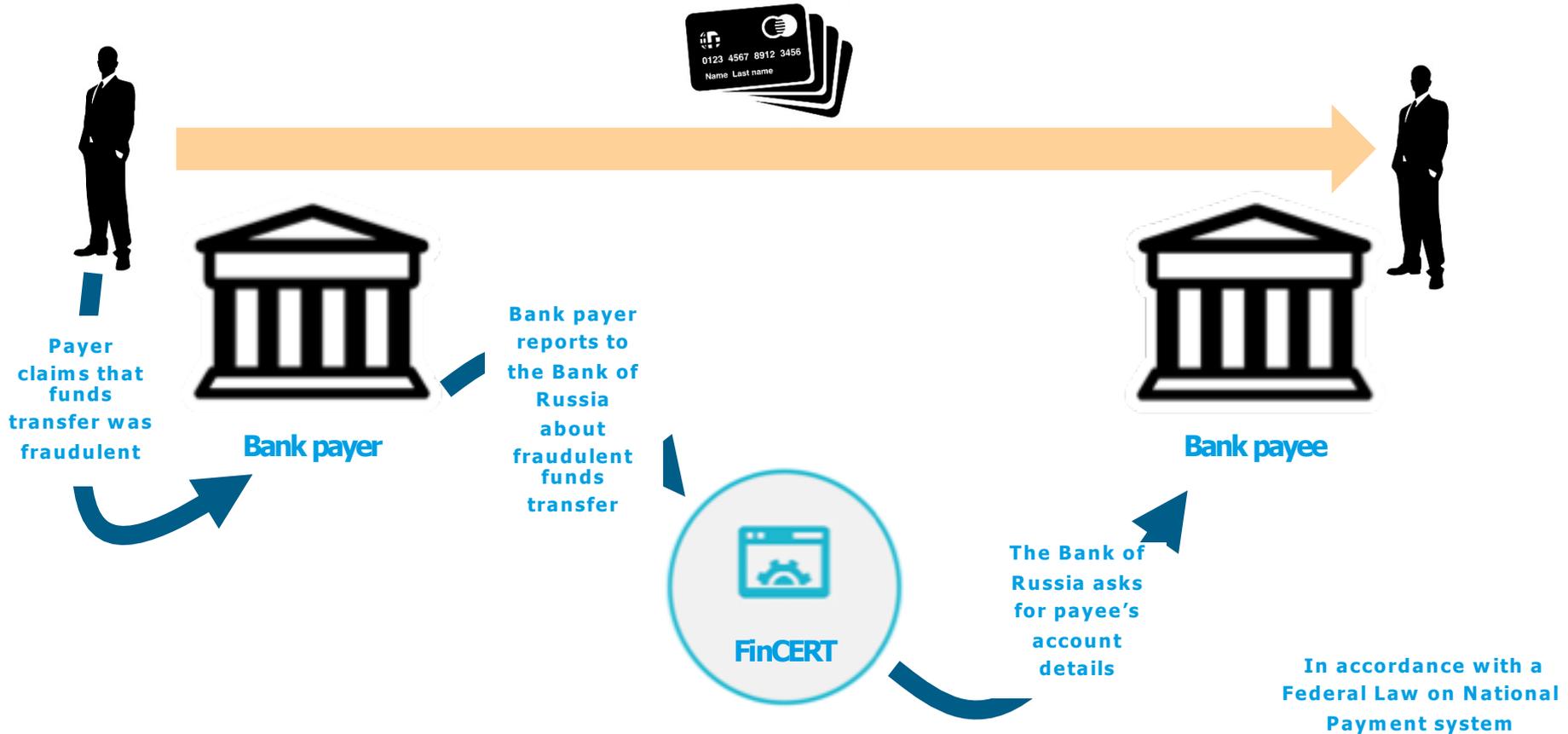
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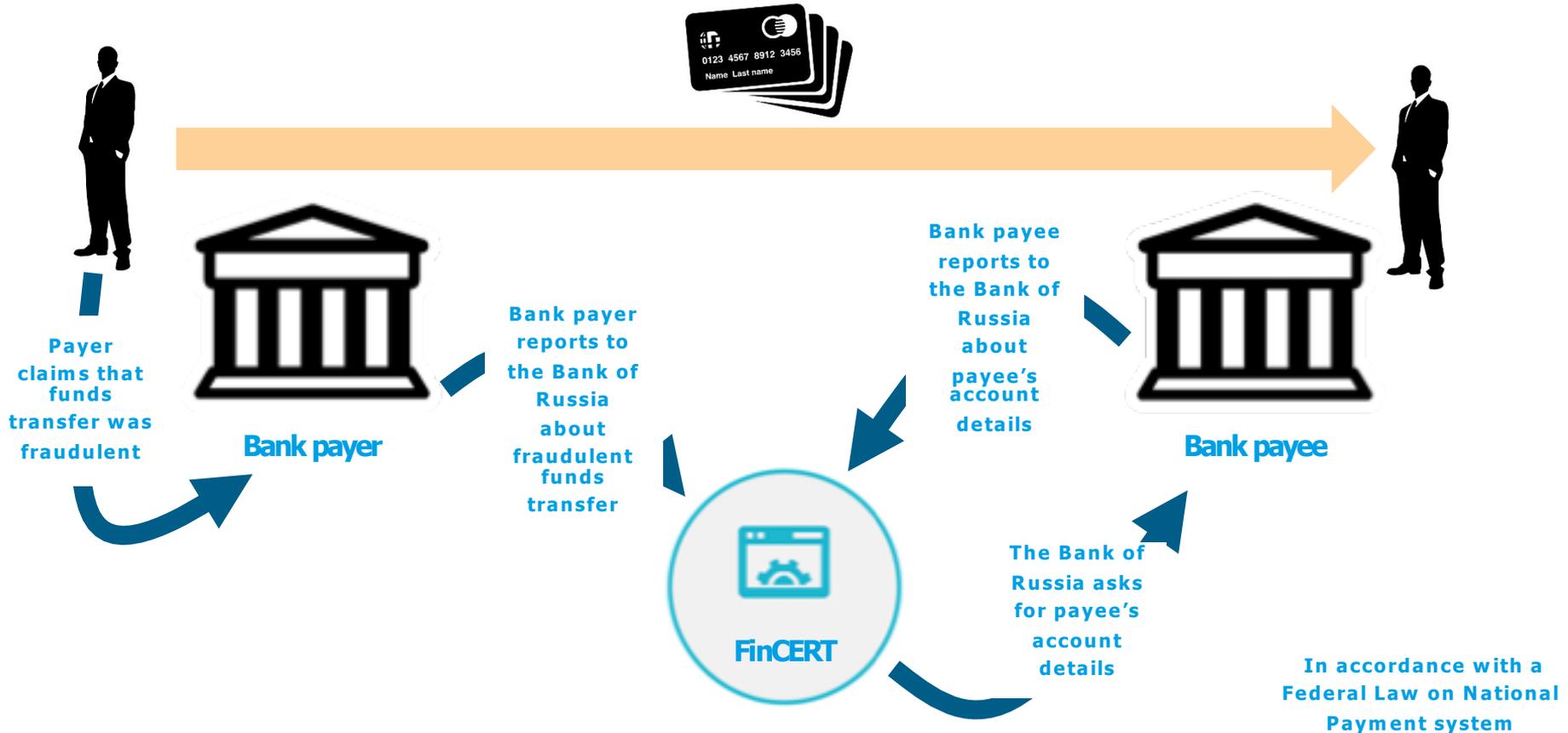
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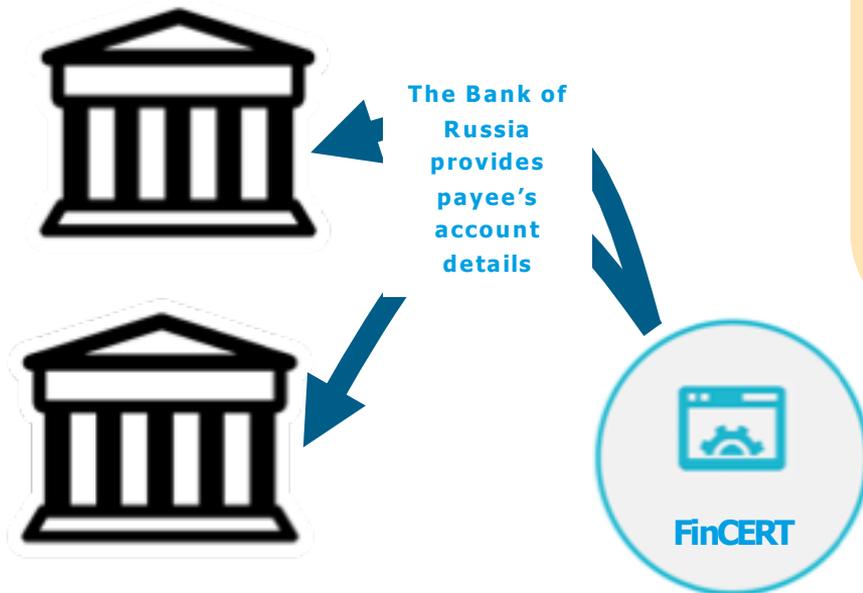
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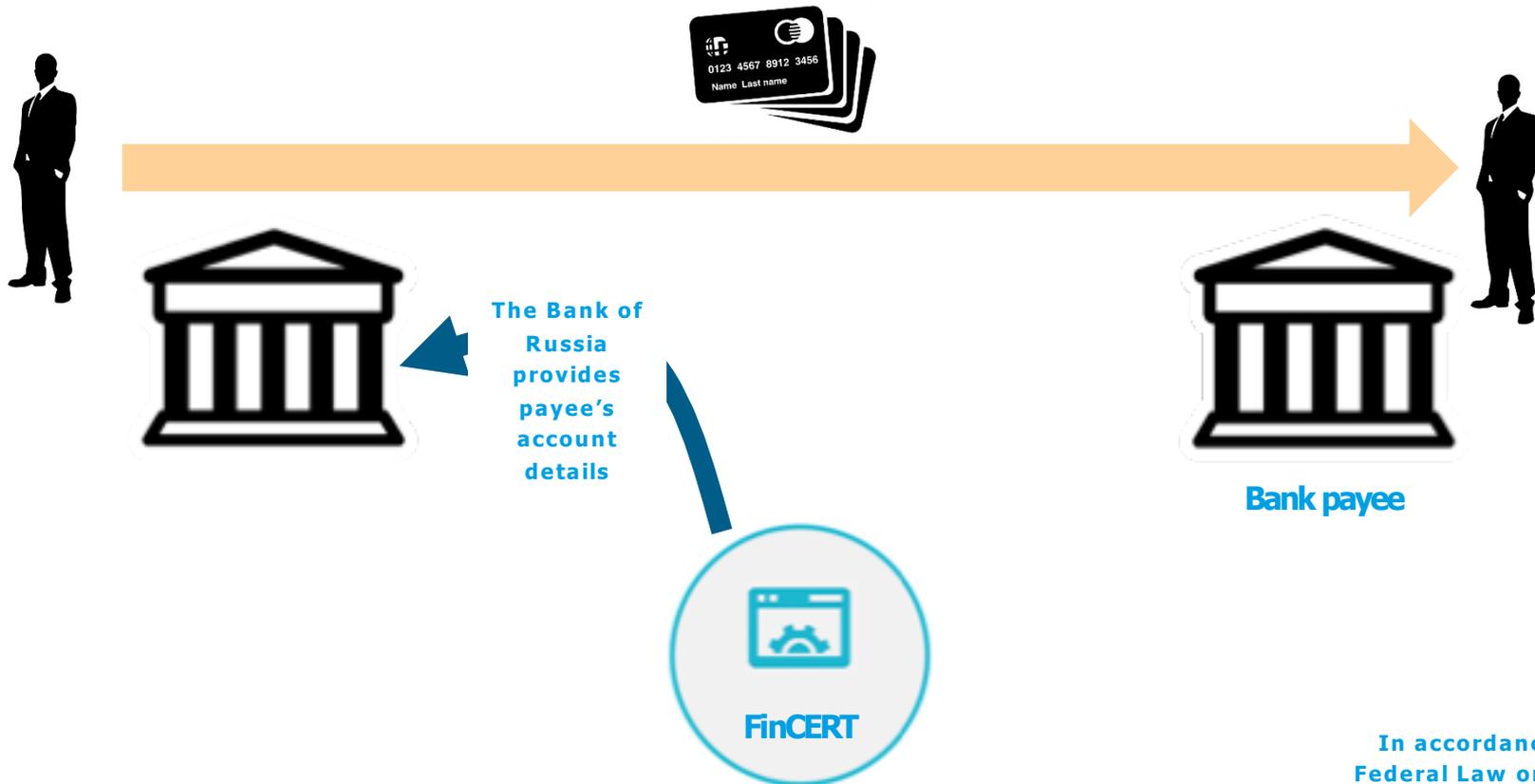
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The Bank of Russia provides payee's account details because payee received a number of claimed funds transfer exceeded threshold value

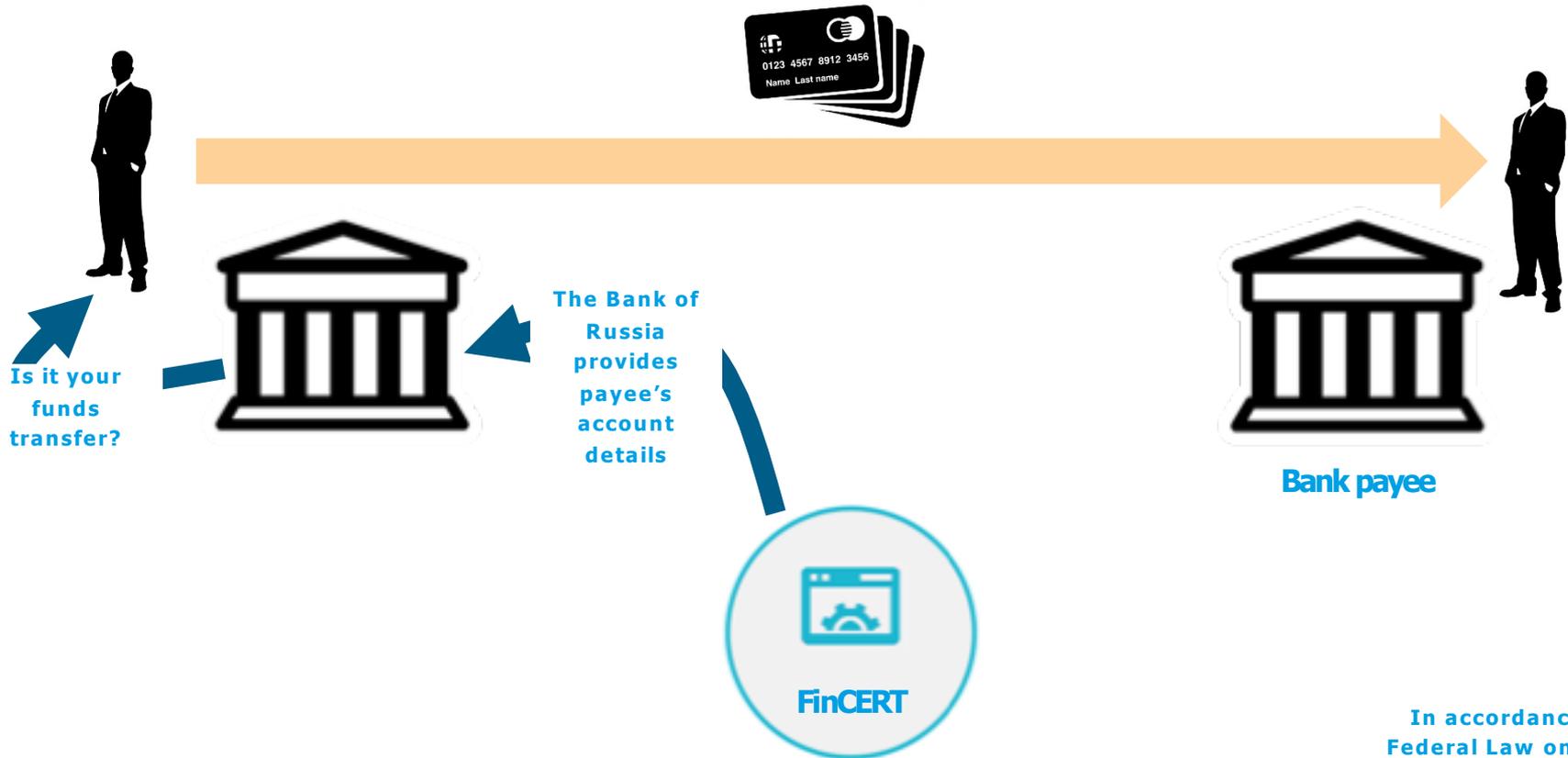
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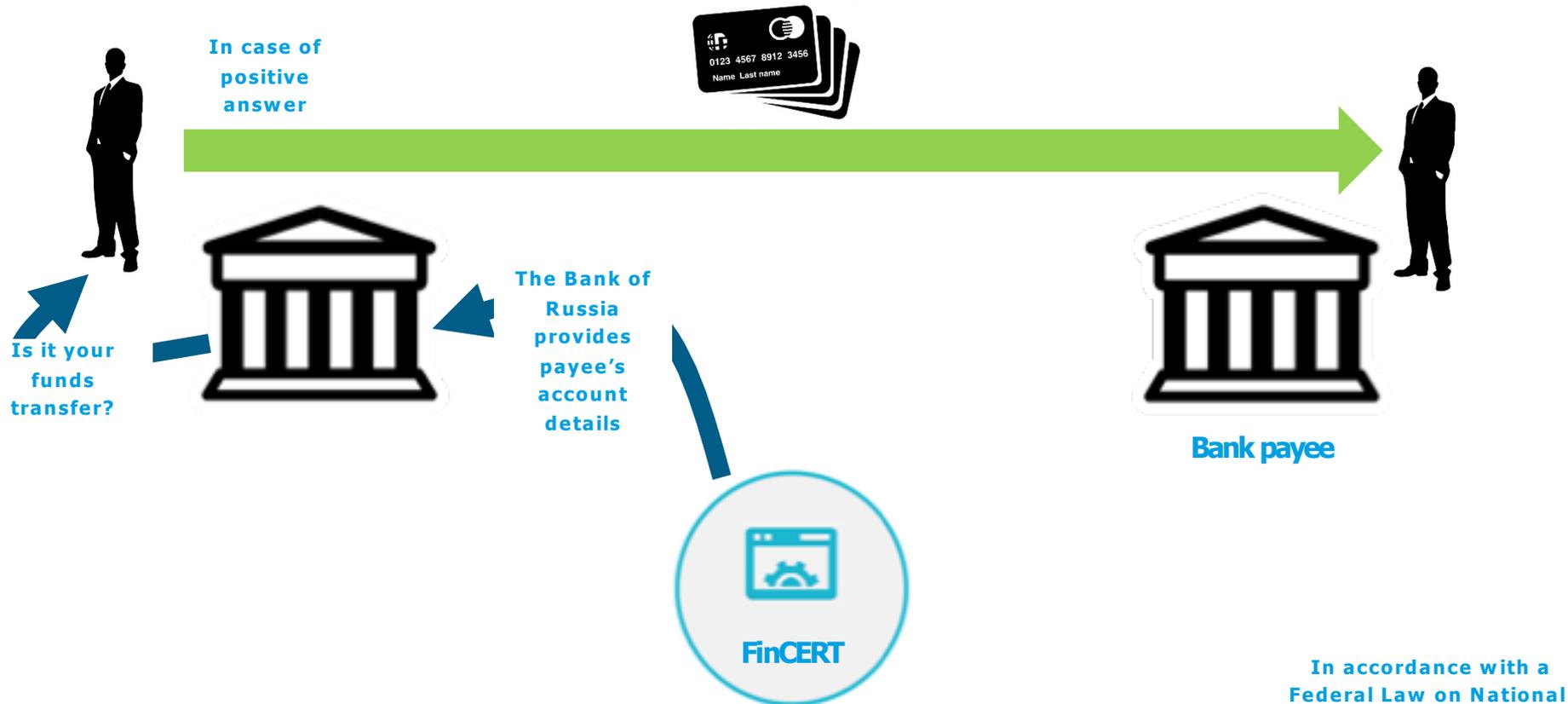
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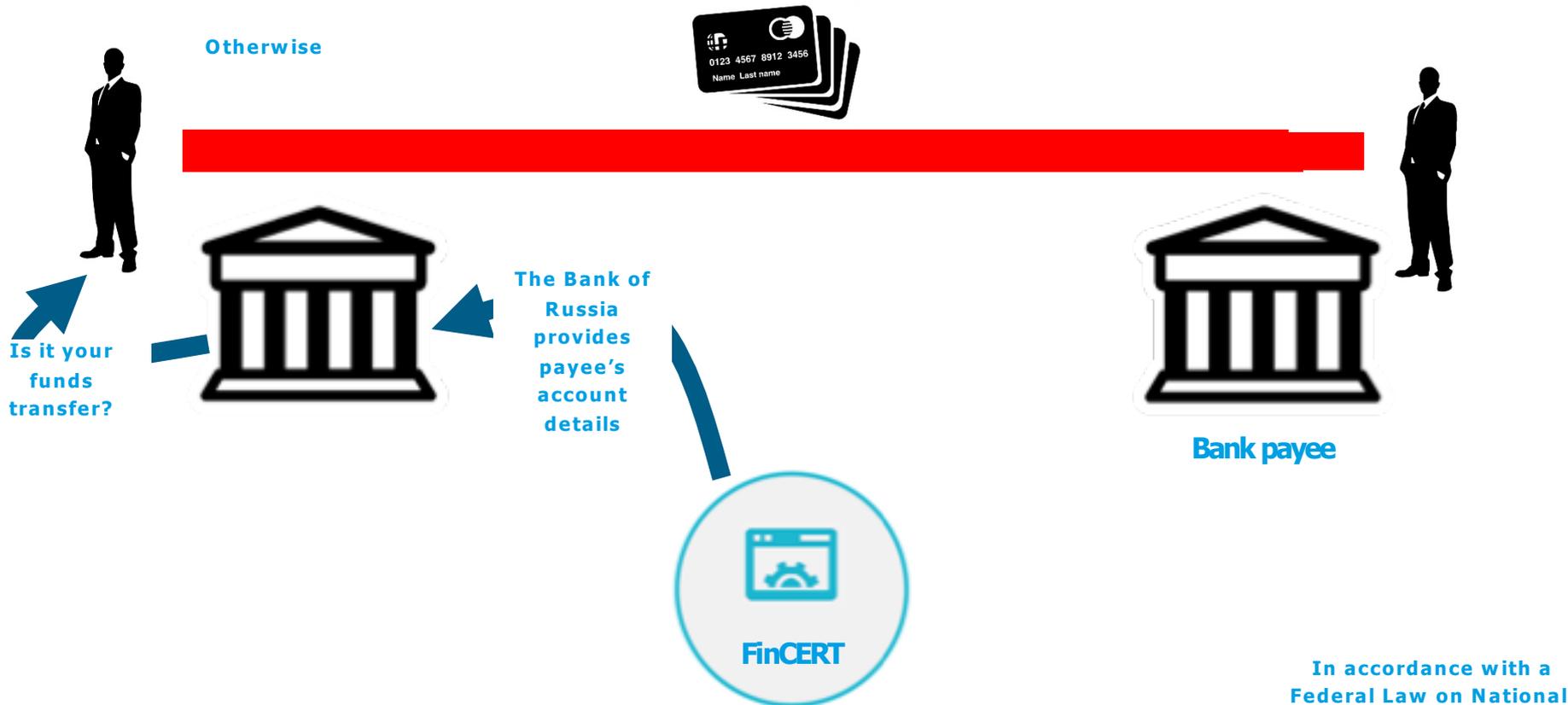
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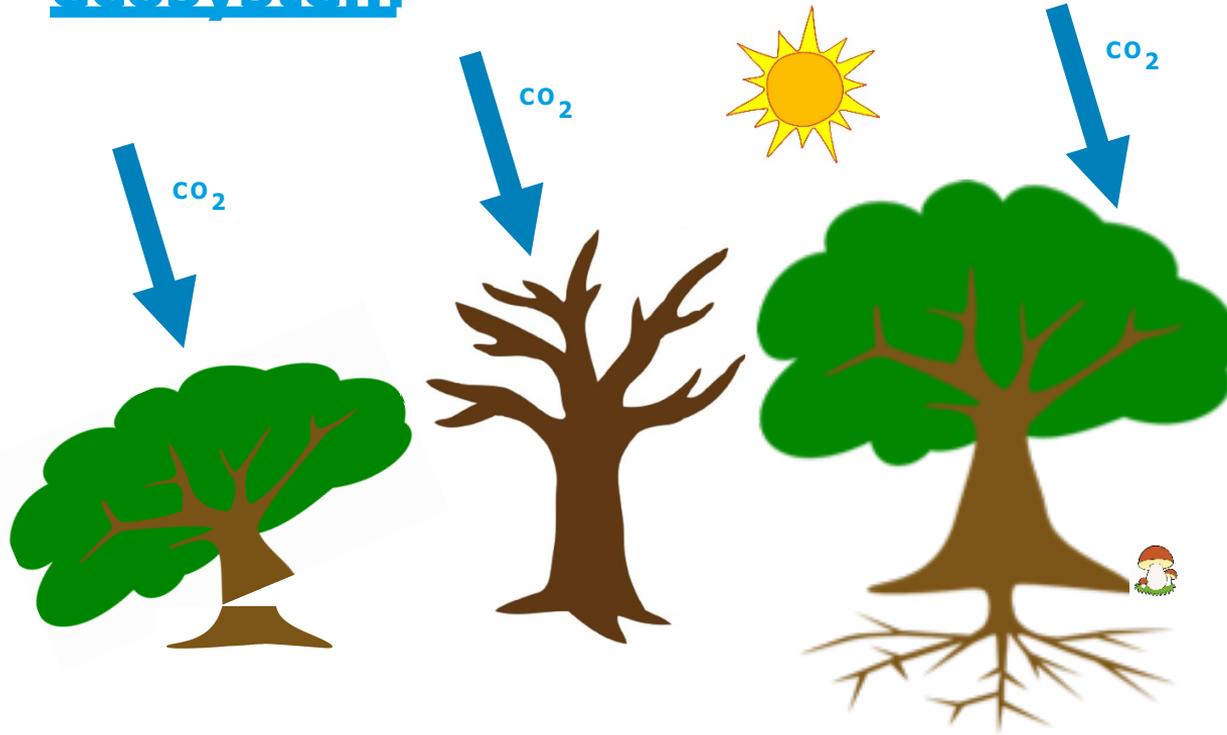
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In conclusion

Cybersecurity platform for financial sector by the Bank of Russia is like an ecosystem



Federal laws and bylaws AS roots

Automated system for exchange AS leaves with chlorophyll

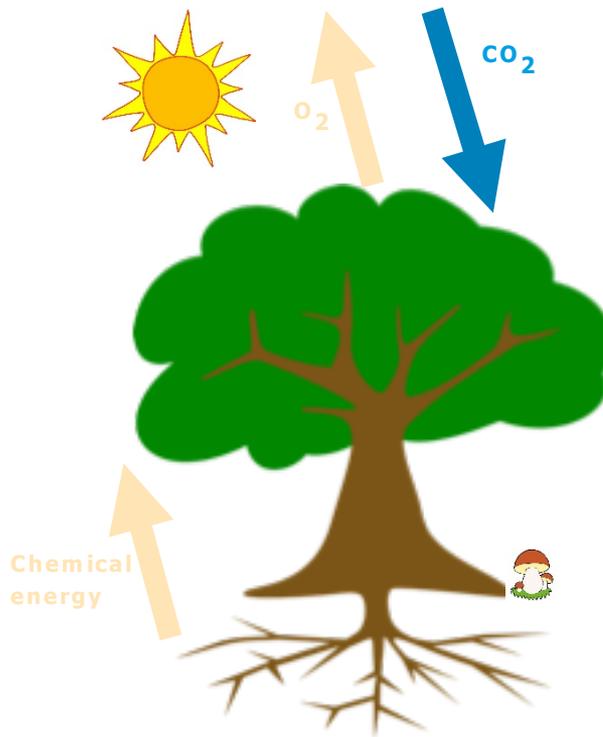
Incoming information AS carbon dioxide

Team AS sunlight

Cybersecurity education and feedbacks AS symbiosis

Cybersecurity platform for financial sector by the Bank of Russia is like an ecosystem

Only healthy ecosystem can produce positive results



Federal laws and bylaws AS roots

Automated system for exchange AS leaves with chlorophyll

Incoming information AS carbon dioxide

Team AS sunlight

Cybersecurity education and feedbacks AS symbiosis

Outgoing information AS oxygen and chemical energy



Thank you for attention!