MINISTRY OF DIGITAL DEVELOPMENT, INNOVATIONS AND AEROSPACE INDUSTRY OF THE REPUBLIC OF KAZAKHSTAN

ABOUT CURRENT
INFORMATION SECURITY ISSUES

82

PLACE KAZAKHSTAN RANKED IN THE GLOBAL CYBERSECURITY INDEX

INSUFFICIENT INFRASTRUCTURE COVERAGE WITH INFORMATION PROTECTION TOOLS

DISREGARD OF INFORMATION SECURITY REQUIREMENTS

INSUFFICIENT PUBLIC AWARENESS ABOUT CYBER SECURITY THREATS

LACK OF HUMAN CAPITAL

WHAT IS DONE («CYBERSHIELD OF KAZAKHSTAN»)

✅ REGULATORY LEGAL FRAMEWORK FORMED

- Amendments and additions were made to the "About Informatization" law of Kazakhstan ;
- Unified ICT and information security requirements were approved;
- The rules for monitoring the information security of "e-government" informatization objects were approved;
- Critical important ICI facilities have been identified;
- The National Crisis Response Plan for IS incidents has been approved.

✅ A NATIONAL INFORMATION SECURITY COORDINATION CENTER LAUNCHED
(RSE "STS" NSC based)

In 2019, cyber attacks on government agencies and the quasi-state sector were prevented.

✅ OPERATIONAL CENTER OF INFORMATION SECURITY LAUNCHED
(«NITEC» JSC based)

IN 2019, **2.7 MILLION** CYBER ATTACKS WERE PREVENTED

WHAT IS DONE («CYBERSHIELD OF KAZAKHSTAN»)

✓ **A SEPARATE TRAINING PROFESSIONAL STANDARD FOR THE ENSURING OF INFORMATION SECURITY HAS BEEN APPROVED.**

- "Information infrastructure and information technology security professionals", **by 9 PROFESSIONS**

✓ **THE NUMBER OF EDUCATIONAL GRANTS FOR "INFORMATION SECURITY SYSTEMS» SPECIALTY HAS BEEN INCREASED**

- The number of grants for "INFORMATION SECURITY SYSTEMS» specialty has been increased **in 11 times**:

500 Bachelor's Degree;
164 Master Degree;
10 PhD.

✓ **MEASURES TAKEN TO INCREASE PUBLIC AWARENESS ON CYBER SECURITY THREATS**

- **28 CONFERENCES** were held, which were visited by **9000** people;
- **1000 MATERIALS** on Information Security were published in mass media (*TV channels, newspapers, Internet resources)*;
- **547** civil servants were trained a basic training course on "Cybersecurity".
- **SOCIAL RESEARCH** on public awareness of cyber security threats that covered **6000** respondents was conducted.
- **In 2019**, **31** organizations were checked, **15** administrative fines were imposed.

2,5 BILLION

CYBER ATTACKS NEUTRALIZED by NATIONAL COORDINATION CENTER OF INFORMATION SECURITY

336

CRITICAL IMPORTANT ICT INFRASTRUCTURE FACILITIES IDENTIFIED

7

OPERATIONAL CENTERS OF IS HAS BEEN LAUNCHED

40

PLACE KAZAKHSTAN RANKED IN THE GLOBAL CYBERSECURITY INDEX

from 60 to 674

EDUCATIONAL GRANTS FOR "INFORMATION SECURITY SYSTEMS" SPECIALTY HAVE BEEN INCREASED

73%

PERCENTAGE LEVEL OF PUBLIC AWARENESS ON CYBER SECURITY THREATS

16%

PERCENTAGE LEVEL OF ELECTRONICS INDUSTRY OUTPUT

STATE REGULATION

NUMBER OF CRITICALLY IMPORTANT ICI FACILITIES

In 2020 - up to **400** objects.

NUMBER OF OPERATIONAL CENTERS OF INFORMATION SECURITY

To increase the number of operational IS centers from **7** to **10** in 2020.

EDUCATIONAL GRANTS

In 2020, increase the number of educational grants for "Information Security Systems" specialty up to **1300**.

CHECKS ON ENSURING INFORMATION SECURITY AND PUBLIC AWARENESS

It is planned to check **250 organizations** by the end of 2020.

In 2020, raise public awareness up to **75%**.

Cyber Security Days at the 20 CGAs.

STATE REGULATION

VOLUME OF ELECTRONIC INDUSTRY PRODUCTION

In 2020 production volume will increase by **20%**

TO INCREASE THE PERCENTAGE OF DOMESTIC CONTENT IN SOFTWARE PRODUCTS

To increase the share of domestic software in the public and quasi-state sector to **39%** in 2020.

TO DETERMINE THE AUTHORIZED BODY IN THE FIELD OF PROTECTING THE RIGHTS OF PERSONAL DATA SUBJECTS

FUNCTIONS:
1) Legal regulation of personal data protection;
2) Protection the rights of personal data subjects;
3) Control compliance with the requirements for the protection of personal data.
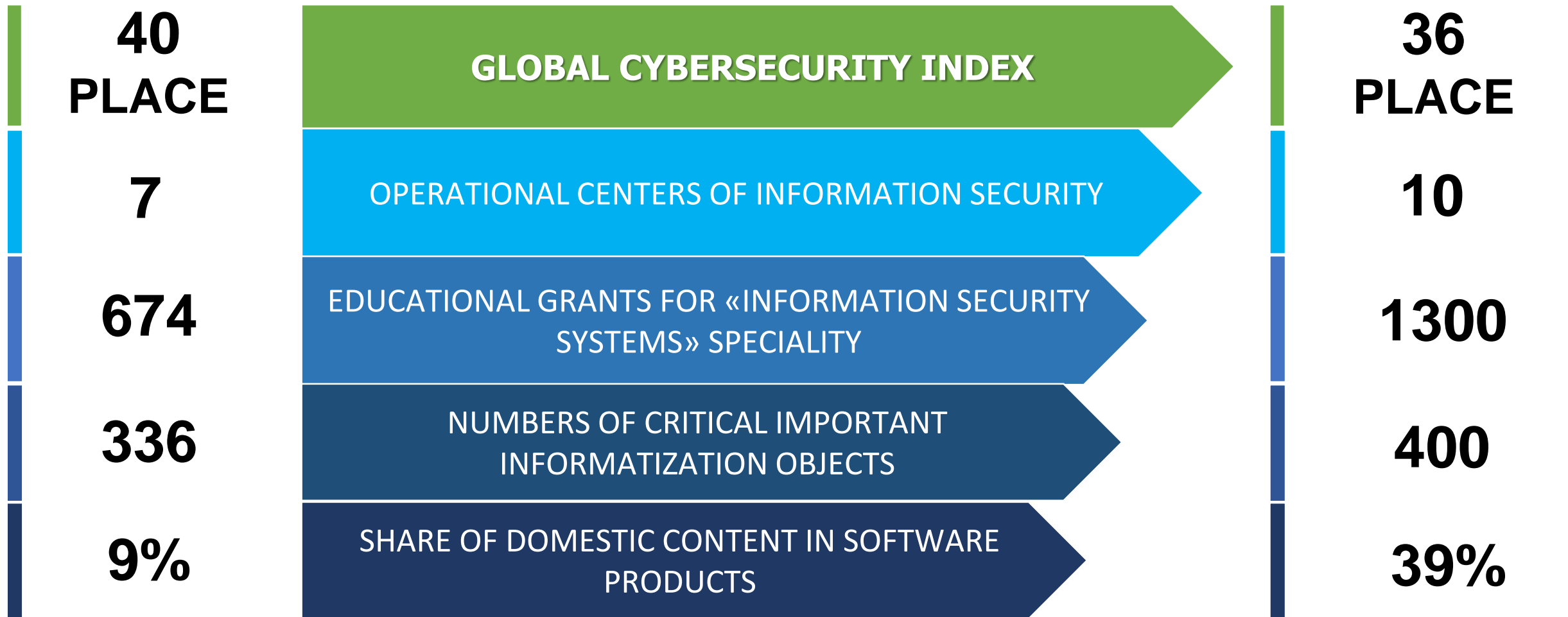
MARKET DEVELOPMENT AND PERSONAL DATA CONTROL

1) **Creation** of conditions for commercial use of impersonal data;
2) **Implementation** of the service for **notification** and **obtaining the consent** of citizens to the processing of their personal data.

EXPECTED IMPACT

2019 year   2020 year

2019		2020
40 PLACE	**GLOBAL CYBERSECURITY INDEX**	**36 PLACE**
7	OPERATIONAL CENTERS OF INFORMATION SECURITY	**10**
674	EDUCATIONAL GRANTS FOR «INFORMATION SECURITY SYSTEMS» SPECIALITY	**1300**
336	NUMBERS OF CRITICAL IMPORTANT INFORMATIZATION OBJECTS	**400**
9%	SHARE OF DOMESTIC CONTENT IN SOFTWARE PRODUCTS	**39%**

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THANK YOU FOR ATTENTION!