Sigma-IS ltd.

Integrated Security Systems

Company Profile

Advantage through Technology

Moscow 2011

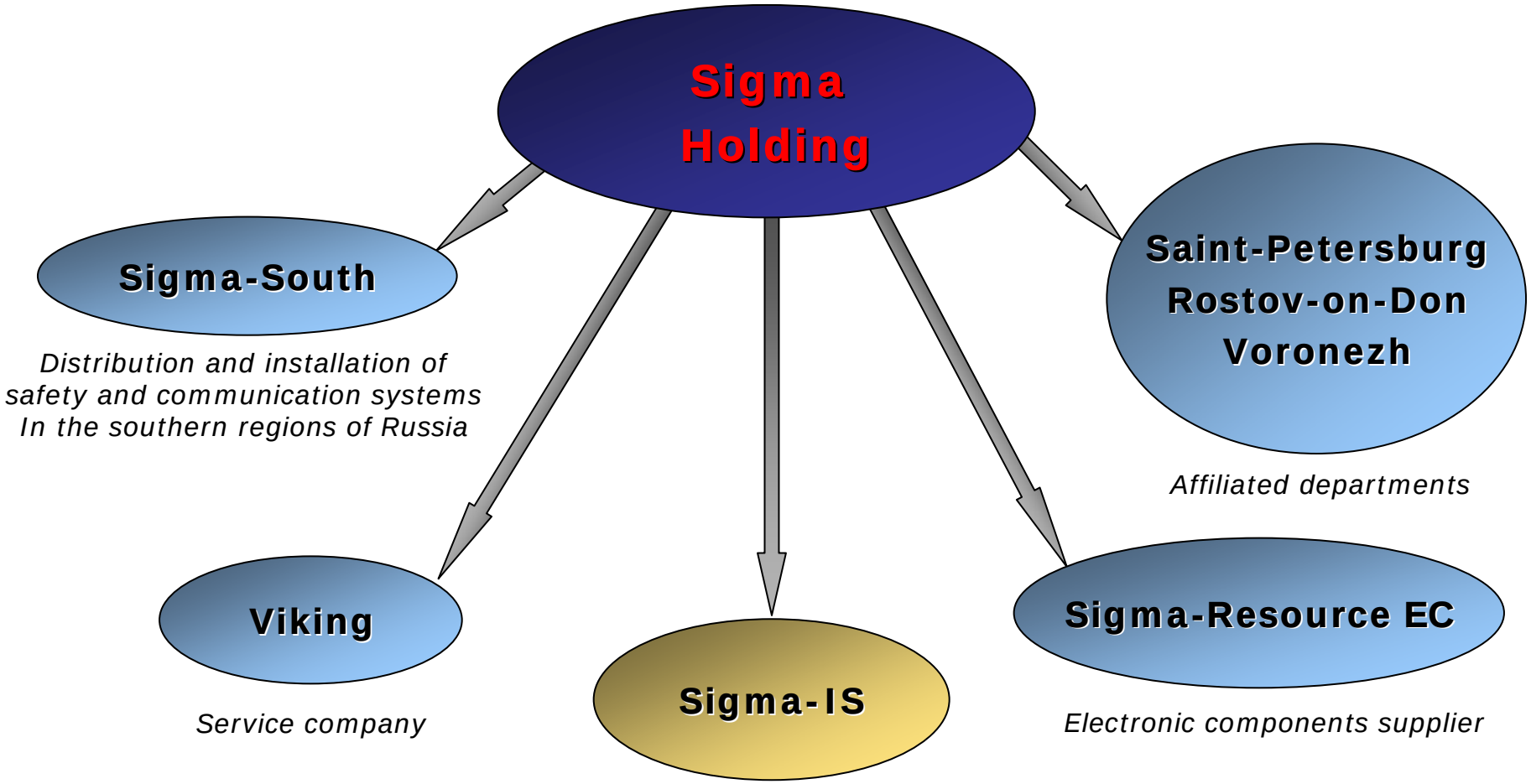
Sigma-IS Ltd. – Brief overview

- Founded in **1992**
- Image and Video Processing since **1995**
- 170 employees
- Head office in Moscow, branches in
  - Saint-Petersburg
  - Vladimir
  - Voronezh
  - Rostov-na-Donu (Rostov-on-the-Don)
- Development areas:
  - Integrated safety and security systems
  - Real-time video and image processing hardware and software
- Research work:
  - Still image and video coding for security applications
  - New architectures of adaptive computing systems for digital signal processing (joint DSP-FPGA solutions)
  - Identification of a person using the individual specialties of voice wave propagation over human body

Sigma-IS Ltd. – Products and Services

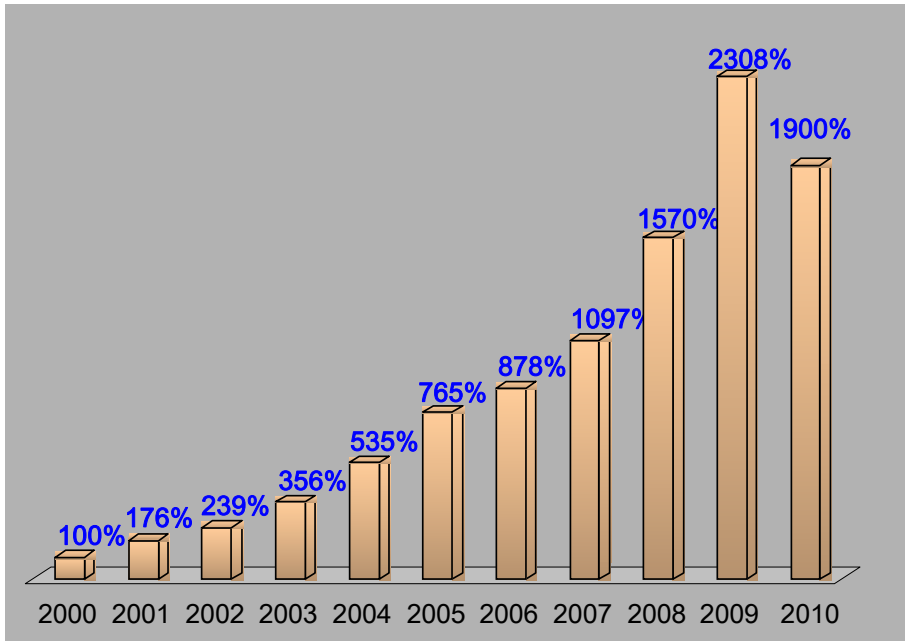
- **Integrated security systems development**
  - Burglary alarm systems, including perimeter protection
  - Fire alarm and automated fire-fighting systems, including address fire smoke detectors
  - Access control systems, including biometrics solutions
  - video surveillance systems
  - Video and audio processing (video compression, motion detection, noise cancellation …)
- **DSP- and FPGA-based multimedia processing solutions**
  - Embedded to security systems
  - Custom design
- **Software development**
  - For security systems
  - Custom designed software
- **Custom research**
  - Wavelet-based still image and video coding
  - DSP/FPGA

Sigma-IS Ltd. – Structure of our Holding



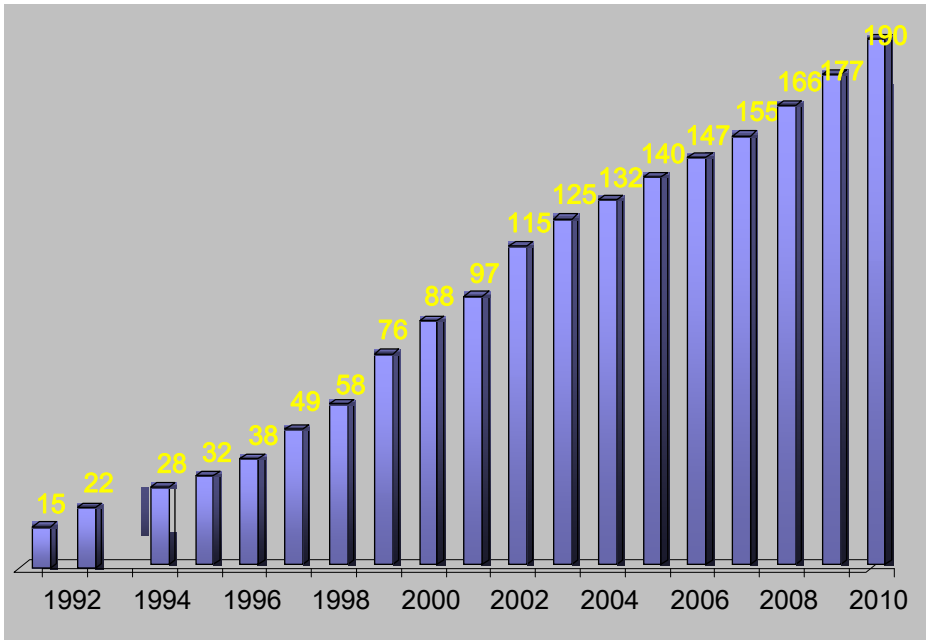
Sigma-IS Ltd. – Evolution

Turnover Growth



Product Diversity Growth

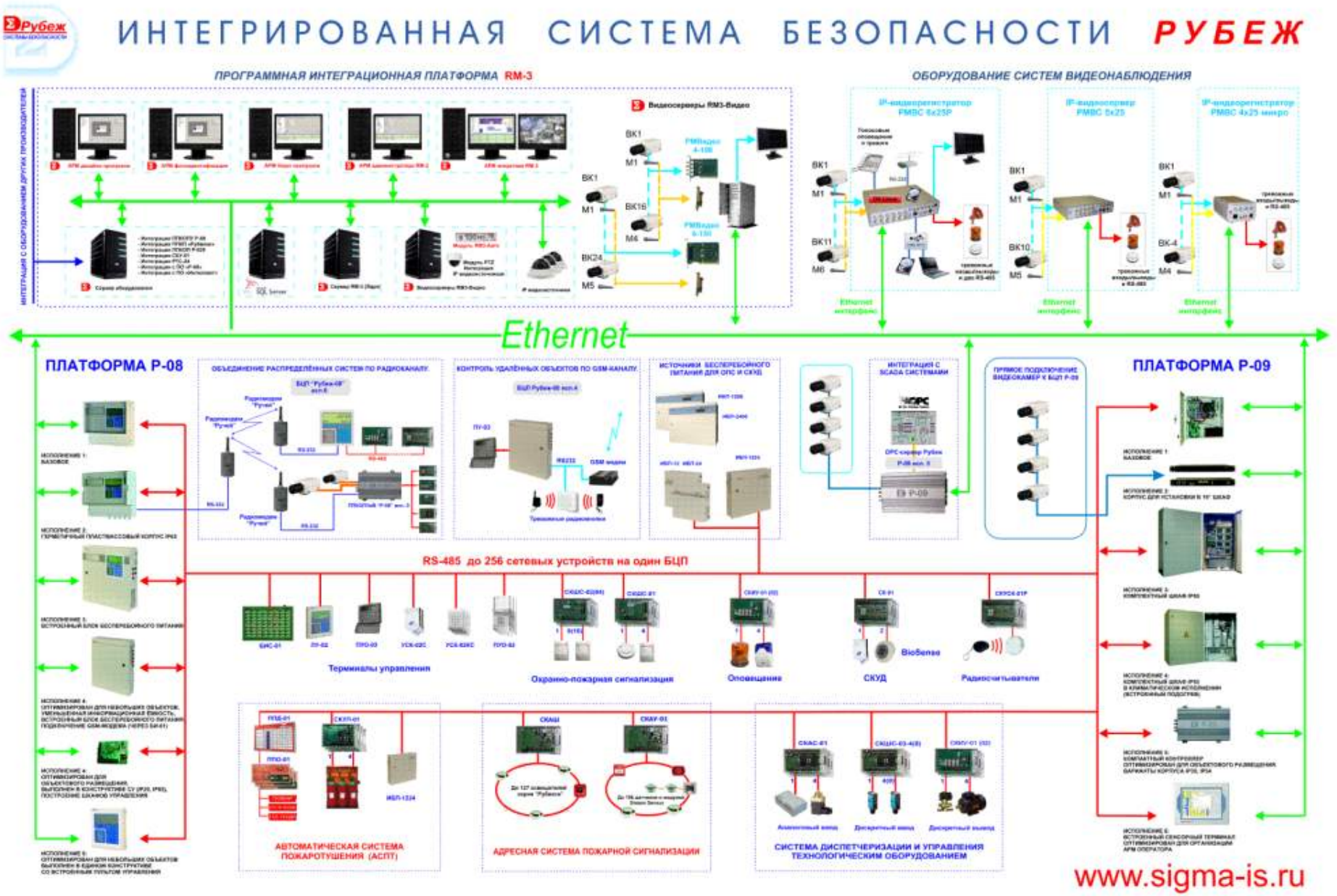
Quantity of product types



Last year turnover is more than € 15 mln.

An own building with area of 5500 m^2

Sigma-IS Ltd. – Integrated Security System Rubezh



Sigma-IS Ltd. – Rubicon

Sigma-IS Ltd. – Products overview

RM3: Physical Security Information Management

Sigma-IS Ltd. – Products overview

Integrated security systems

Key products of “Rubezh” (means “Frontier”) series :

- “R-08” (the current version of integrated safety systems of “Rubezh” series):
  - Typical functions of safety systems are implemented
  - An extended set of control interface (Ethernet, RS-232, RS-485, radio channel)
  - Reserve radio channels for communication with host system
  - Supports “hot sparing”

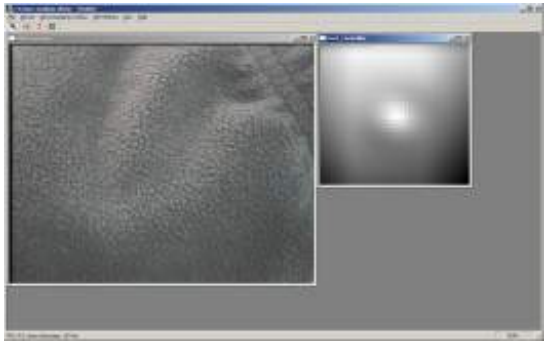
- “R-09” (a software toolkit for embedded platforms that allows extending control and surveillance possibilities):
  - Supported operating systems: Windows CE (in future, Linux)
  - For “R-09”, RISC-based platform has been developed
  - Optional DSP/FPGA -based module for multimedia processing

More information on Rubezh series : **www.sigma-is.ru**

Software

- **Security systems**
  - Access control, including biometric systems
  - Statistical data analysis
  - Digital image and video processing: motion detection, behavior recognition, interactive video monitoring, etc.
  - Digital signal and speech processing
  - Specific software modules for digital signal processors

- **Custom designed software for**
  - Specialized automatic control systems
  - Speech processing (e.g., filtering, noise cancellation and synthesis)
  - Texture processing systems



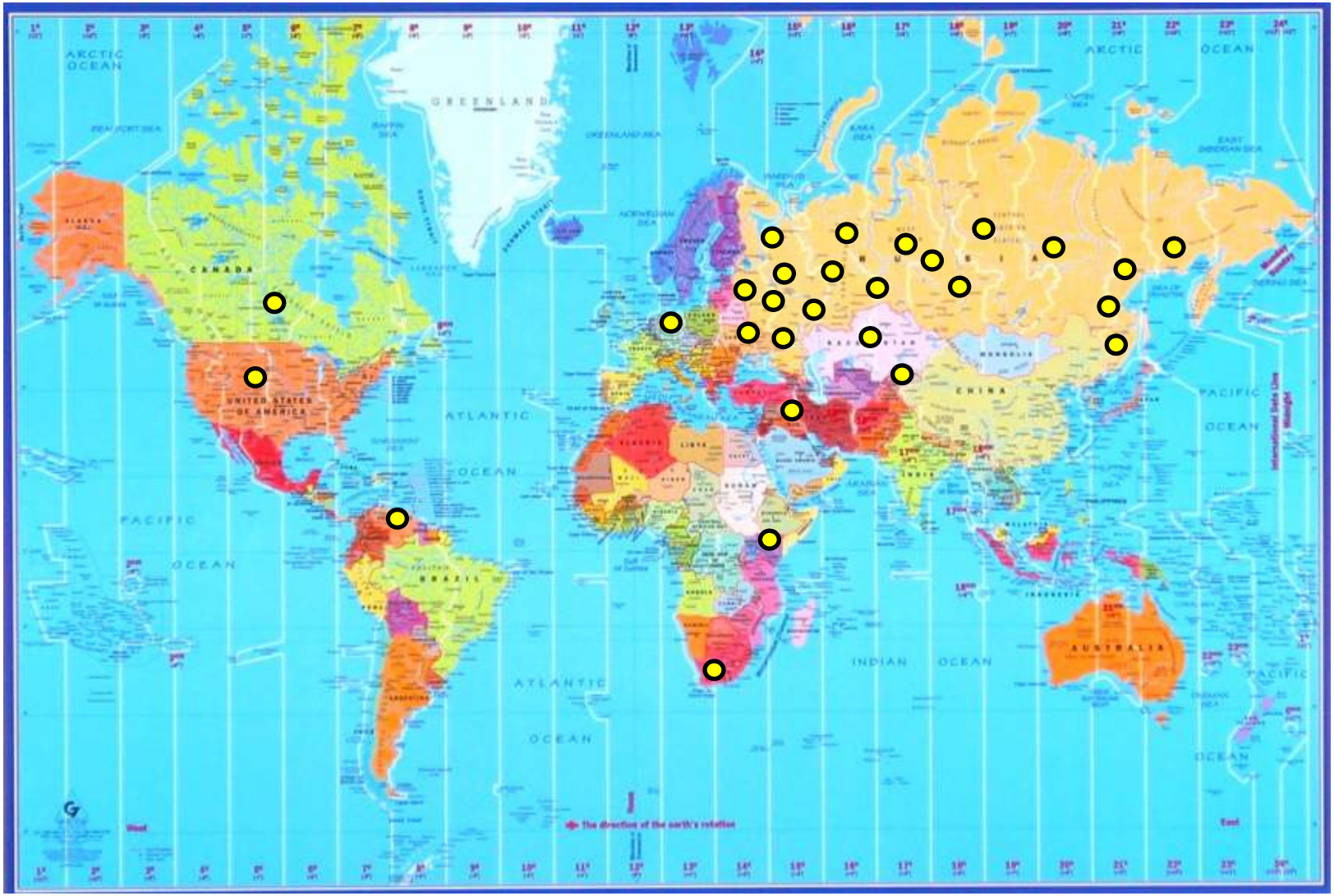
Sigma-IS Ltd. – Standardization activity

- **National standardization**
  - SIGMA-IS chairs subcommittee TC22/SC129, which is a national analogue of ISO/IEC JTC1/SC29
  - The development of the Russian national standard for still image and video coding for surveillance applications

- **International standardization**
  - SIGMA-IS is the only representative of the Russian National body in the JPEG committee (ISO/IEC JTC1/SC29/WG1)
  - 3 JPEG members work for SIGMA-IS, including the head of the Russian delegation in JPEG
  - Since the joint JPEG and MPEG meeting (Guangzhou, China), we intend to regularly participate in MPEG meetings as the only representative of the Russian National body (ISO/IEC JTC1/SC29/WG11)

Surface Mounting Equipment

Sigma-IS Ltd. – Worldwide clients



Sigma-IS Ltd. – Our international partners

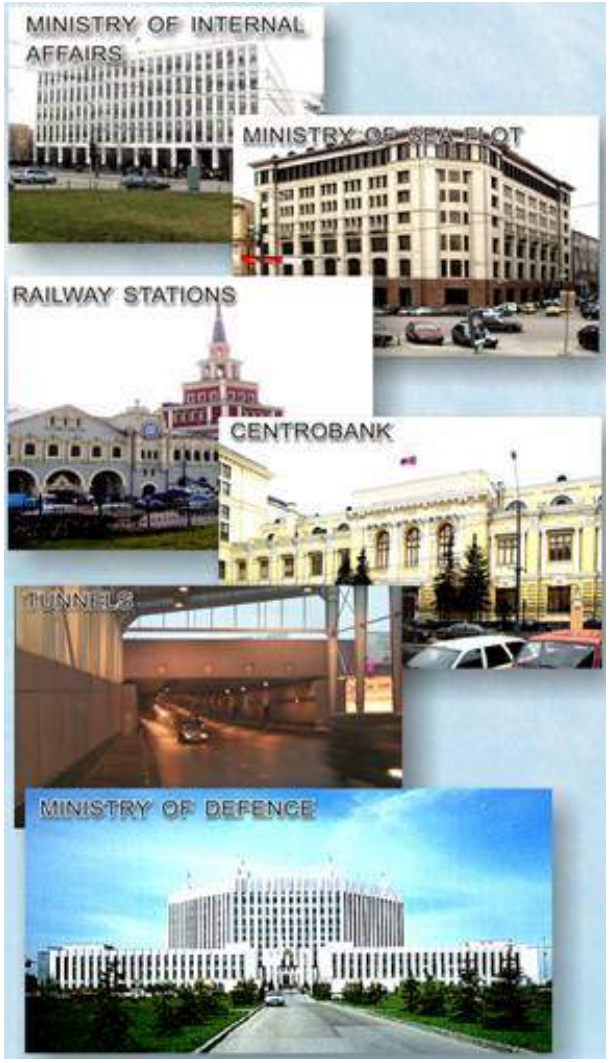
Sigma-IS Ltd. – Awards and licenses

All of our affairs are licensed by the state

The quality of our security systems is confirmed with awards

Sigma-IS Ltd. - Key customers

- Private industry
- Great Russian Corporations (e.g., GAZPROM, RusAl, RosNeft)
- Police / Government
- Security system installers
- Communication Industry
- Transportation



Thank you

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