

SMART OPERATING ROOM

SUPPORTING CLINICAL WORKFLOWS

- / inside ORs
- / inside ICUs
- / inside hospitals



SUPPORTING CLINICAL WORKFLOWS INSIDE OPERATING ROOMS



1 DIGITAL INFORMATION DISPLAY



3 VIDEO CAMERA



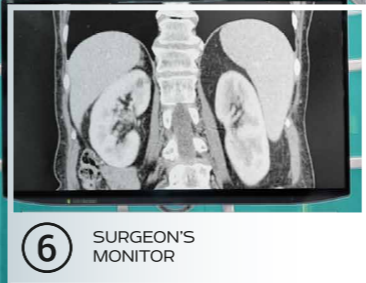
2 UTILITY SYSTEMS CONTROL SCREEN



4 MAIN CONTROL MONITOR



5 BUILT-IN MONITOR



6 SURGEON'S MONITOR



7 SURGEON'S MONITOR



8 VIDEO CAMERA



9 LARGE SIZE REVIEW MONITOR

Before the surgery

Tracking of scheduled surgeries on the smart online display and **alerting** the medical personnel when the operating room and the patient are ready.

Broadcasting video streams to the monitors in the anteroom and to any computer within the hospital.

2 4 **Customizing the OR environment** (lights, temperature, humidity) and creating pre-sets to save time.

4-7, 9 **Access and visualization** of the PACS, MIS, LIS and other required information on the monitors inside the operating room to provide better comprehension of the case.

4 **Start documenting** the surgery from different integrated information sources by pressing a single button.

4 The option to **quickly start** an urgent surgery or select a scheduled one.

During the surgery

4-7, 9 **Distribution of various video streams** (C-arm, endoscope, microscope, ultrasound, etc.) to selected monitors.

4 **Possibility to rewind and review** the captured frames without interrupting the recording in progress.

4 **Teleconsultations with peers** using two-way videoconferencing.

9 **Resident physicians can watch the surgery** on a monitor away from the operating table.

4 **Videoconferencing** with the possibility to share all the available sources to the hospital conference room or to an external location.

4 Creation of snapshots and short video clips to **quickly export the key events of the surgery.**

4 **Timers and stopwatches** with the start and stop time captured in the video stream.

4 Bookmarks to **quickly find selected events in the recorded video.**

2 4 **Control of the connected equipment** from any touch screen and notification of alarms and failures.

Synchronized recording of all video sources with subsequent archiving.

After the surgery

4 Completion of documenting and **automatic uploading of data** to the central video archive of the clinic.

Sending information on the performed surgery to **MIS.**

1-9 The design of the Integrated OR makes **wet cleaning and disinfection of its components** safe and simple.

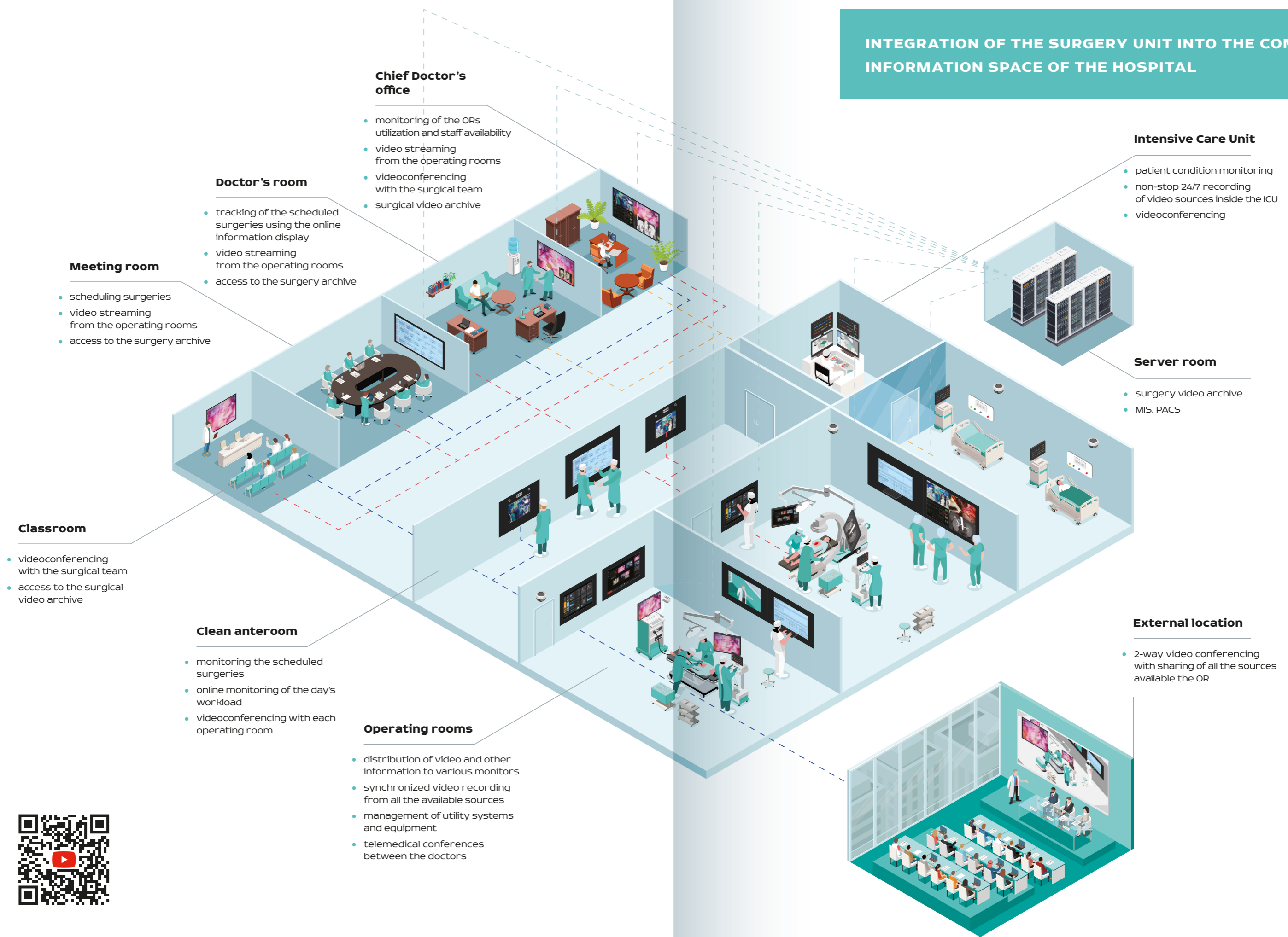
Access to the surgery archive to analyze challenging cases as well as for advanced and corrective training.

Editing video and exporting selected segments. Generating surgical **reports.**

Availability of video archive for **legal protection of the medical staff and the patient** in disputable cases.

Workflow **administration and optimization** based on the collected data.

INTEGRATION OF THE SURGERY UNIT INTO THE COMMON INFORMATION SPACE OF THE HOSPITAL



Meeting room

- scheduling surgeries
- video streaming from the operating rooms
- access to the surgery archive

Doctor's room

- tracking of the scheduled surgeries using the online information display
- video streaming from the operating rooms
- access to the surgery archive

Chief Doctor's office

- monitoring of the ORs utilization and staff availability
- video streaming from the operating rooms
- videoconferencing with the surgical team
- surgical video archive

Classroom

- videoconferencing with the surgical team
- access to the surgical video archive

Clean anteroom

- monitoring the scheduled surgeries
- online monitoring of the day's workload
- videoconferencing with each operating room

Operating rooms

- distribution of video and other information to various monitors
- synchronized video recording from all the available sources
- management of utility systems and equipment
- telemedical conferences between the doctors

Intensive Care Unit

- patient condition monitoring
- non-stop 24/7 recording of video sources inside the ICU
- videoconferencing

Server room

- surgery video archive
- MIS, PACS

External location

- 2-way video conferencing with sharing of all the sources available the OR



170+ operating rooms
40 hospitals
20 cities



VIDEO REVIEWS



Eduard Galliamov
 Head of the General Surgery Department
 Sechenov University, Honored Doctor
 of the Russian Federation (Moscow)

“ Everything is extremely functional, everything is logical, everything is well thought out. Functionality that is used 100%. Ergonomics is amazing, too. I believe this should be promoted as the standard for the entire country. I am absolutely thrilled! ”



Sergey Popov
 Chief Doctor
 St. Luke Clinical Hospital
 (St. Petersburg)

“ It took us quite a while to choose a solution to have the operating rooms in our clinic integrated, and in the end we opted for a product by a domestic manufacturer, the MVS Company, and we have never had any regrets! ”



Nikolay Grekhovodov
 Chief Maintenance Manager,
 Federal Center for Cardiovascular
 Surgery (Khabarovsk)

“ This is a European-level solution; all our wishes have been taken into account. I am impressed with the high quality of the work done. Everyone will feel comfortable working here: medical staff, surgeons, support personnel, engineers, medical technicians. ”



Tula



St. Petersburg



Moscow



Barnaul



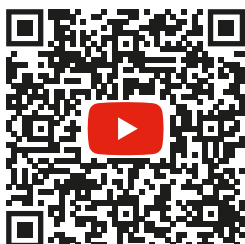
Minsk



Novosibirsk

SHOWROOMS

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