



High capacity, highly scalable, self-sustaining, 24/7 Self-Guided Hands on Medical Simulation training - for Military personnel, Hospitals, Emergency, Ambulance Departments, medical schools.

For more than 20 years our company was focusing on medical training. We implemented many famous international medical training courses in our country and started spreading them in other regions. However, demand for skills training was overwhelming.

The problem: Constant repeating of skills on day to day basis needed exact standardization for all courses with good retention rates, having high numbers of students, wasted time of medical instructors that is constantly dedicated to simulation facility and having no flexibility in these areas lead to creation of HybridLab®.

Also, it was hard for us to find instructors who would agree to constantly work and train people in remote areas, especially when they are located in countries that are not recommended to lay people. These visits usually are short term and sustainability after training was very low.

HybridLab®

HybridLab® Combines elements of e-learning, peer-teaching, hands on training, simulation and mastery training using step by step algorithms and simulation scenarios. The system allows students to work in small groups (usually of 3 people) at their preferred time and pace.

Participants have 4-6 times more hands-on practical training time in comparison to standard training courses (like BALS0, ALS0 etc.).

What is most important HybridLab® with minimal local technical supervision allows instructors to work remotely in real or chosen time. It gives an opportunity to support two tier training control and audit system: local instructor plus international instructor. Training process expands in time but is decreasing in costs (two-three times if compared to “classical” model) and creating positive habits of local medical specialists.

Resources available: complete technological solution: hardware, software, monitoring and simulation management equipment, basic to complex scenarios based on algorithms that enables to run this system, e-learning platform with video, reading content, examination and testing materials, LMS, video management systems, data safety.

HybridLab® Capacity:

1500 medical specialists can be trained using only 4 simulation labs in 6 months. 750 Students per year using it at 70% load.

1 Lab can handle approximately 500 students per year using it for only half of the time.

HybridLab® production and installation capacity.

Currently we have 4 people that can work on this process. They can install up to 8 simulation labs per week if building in separate regions. In a year, we can install approximately 400 labs. If we set up labs in the same location, we can build up to 2-3 times more. For the production of HybridLab® we have the same capacity that we have for installation processes.



Number of people we can train with our current instructors:

One Instructor, working 4 hours per day, can monitor and evaluate 50-60 students per month, 600 per year. Including freelance instructors, our current training capacity is 50-60 thousand trainees per year. These numbers are without use of local instructors.

Instructor preparation:

It takes 1 week to train local instructor to use the HybridLab®. It is optimal to have 2-4 local instructors per one HybridLab®.

Company

Our company has been working in the medical training field for more than 20 years. We are medical training leaders in Lithuania and Eastern Europe, during the timeframe partnered with USA, UK, European-Union leading Universities, Medical Schools, Health Organizations, Governmental and non-governmental organizations.

Led by the best examples in the world, working hand in hand with global leaders in the medical training field, our company has always been searching for what is missing and what else should be done, created and improved in the medical learning world.

We focus on the Global reach and to enable hands-on simulation 24/7 remotely: provide tools, systems, training methods for those that are unable to receive proper medical training in order to save as many lives as possible.

There are currently 40 Employees working on this specific product and its development. Board of directors, 21 experts, 5 course administrators, 3 logistics specialists, 2 accountants, quality control manager, business development manager, 2 marketing managers. The company has more than 100 freelance instructors, that are hired depending on needs for various projects.

Previous Performance

Over the last 10 years we have trained more than 80 thousand people using conventional medical training methods. Highest load that we had was approximately 20 thousand people trained per year. We are uniquely positioned in medical training area, as we are recognised as International Training Organization by such organisations as American Heart Association, European Resuscitation Council, American College of Surgeons, American College of Family Physicians and others.

Since 2013, over 4,000 resuscitation and obstetric team members in Kazakhstan participated in the courses using the hybrid training model. All of this training was performed with no faculty on site and utilised Lithuanian-based faculty for review and feedback for the final testing scenario in each skill area. During last two years, more than 3000 students were trained using HybridLab® at the Lithuanian University of Health Sciences (LUHS) in first aid, emergency procedures, obstetrics and surgical skills.

Now we have already built more than 100 simulation labs in Lithuania, Kazakhstan, Estonia and USA (Research Lab in Penn State Milton S. Hershey Medical Center, Hershey, PA, USA.).

Our experts have all the necessary competences needed for implementation of the project. We have certified instructors for providing internationally recognised Basic and Advanced Life Support Courses in Obstetrics (ALSO), Neonatal Resuscitation and many others. Our faculty is also certified to train instructors - e.g. we provide Generic Instructor Course by ALG group.

Our experts are Medical Doctors or Registered Nurses with large practical experience in clinical practice and medical training. 15 current employees are PhD-s. Almost one half of our freelance instructors possess PhD in medicine.

Our instructors are trained to run medical simulation centres, use different Learning Management Systems and E-Learning platforms. Our training course administrators-coordinators have almost 10 years of experience managing training courses. For data safety, our company is certified by ISO-27001 standard.

Lithuania is well known for great achievements reducing infant mortality (from 16 to 3.3 per 1000 of newborns in 20 years). This was the main reason, why our colleagues' obstetricians were invited to help in most disadvantaged regions of the Republic of Kazakhstan. Decrease of infant mortality by 30-40% in the South Kazakhstan region during past five years is an example of our success, where personnel training and HybridLab® was a part of reforms project in health care sector. However, mortality numbers remain still high if compared to developed countries.

Lithuanian - South Kazakhstan Collaboration in Maternal and Neonatal Health Care

In 2013 maternal mortality in the region of South Kazakhstan decreased down to 10.2/100 000 and infant mortality to 13.1/1000

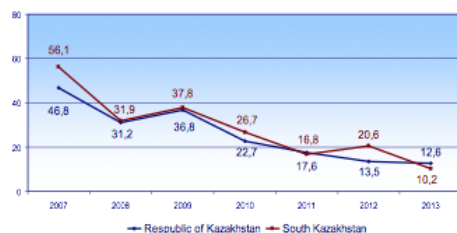


Fig. 7. Maternal mortality (1/100 000) 2007-2013

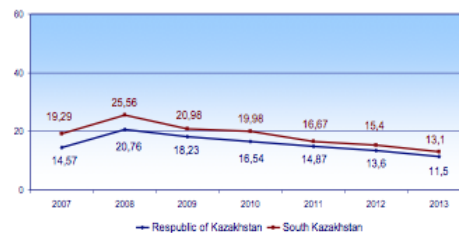


Fig. 8. Infant mortality (1/1000) 2007-2013

25 Hour Course examples (Hybrid)

Medical Schools, Hospitals and Emergency departments, Skills in Emergency Medicine for health care providers: (Medical students, residents, nurses, OB/GYN, etc.)

- „Trauma Life Support”
- „Advanced Cardiac Life Support”
- „Basic Life Support in Obstetrics”
- „Pediatric Advanced Life Support”
- „Neonatal Life Support”
- „Emergency skills and procedures”

Ambulance Dispatchers and Ambulance Services

MPDS pre-arrival protocols training for ambulance dispatchers

Dispatchers face variety of situations. There are five especially complex and stressful cases which require great focus and precision: sudden cardiac arrest, seizure, bleeding, childbirth and choking. Dispatchers are trained how to handle stressful and complex cases.

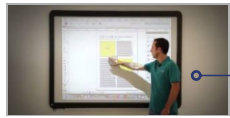
Military medical training programs

- Traditional medical training courses
- Tactical Combat Casualty Care - TCCC (in development)

HybridLab®

24/7 Simulation Technology with Remote Instructor

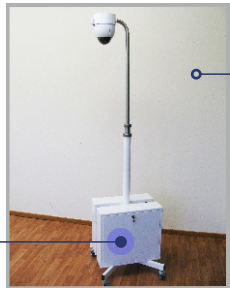
Designed for high tech simulation and practical skills training. For your learning content we offer WEB/LAN based software with integrated video recording, performance assessment, feedback, standardized certification and simulation center management solutions.



Smart-TV



PTZ IP video camera



HLAB giraffe



Video server



IP video camera



Laptop and barcode scanner



Electronic door lock



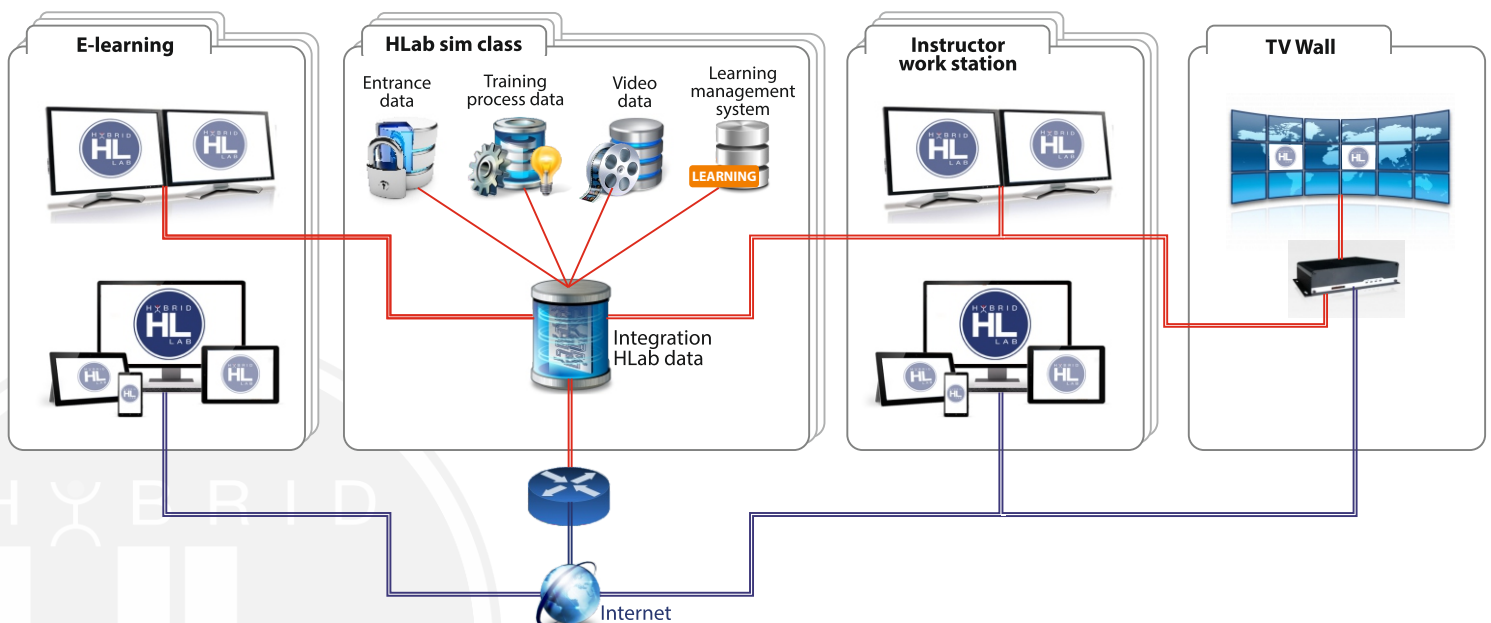
Tablet



Programmable entrance keys

Integration and management of video and audio records, e-learning and simulation. Licence for one working place (training class)

Installation, user training and maintenance



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