

SAFETY

simulation for medical practice

SIMULATION APPROACH FOR
EDUCATION AND TRAINING
IN EMERGENCY

ACTION PLAN

for the Companies' needs survey

SAFETY Work Package 2 - R2.2

Lead partner: UniFG, with all partners support



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ACTION PLAN for the Companies' need survey





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Introduction

SAFETY puts together Universities and private companies to find out their needs and share experiences.

In the specific case, Companies:

- will realize the practical limits of Emergency team and allow them to improve the quality of the supplied simulation device;
- will address the use of the simulation device so that the new graduated doctors developing medical device for companies will bring high level of knowledge and skills;
- the training performed with simulation device enable the healthcare staff to better understand values and limits of the current used device, and in turn, better fulfill what private organizations ask for. (e.g. <http://www.doctorpreneurs.com/>)

Every partner will reach the target groups through internal contacts in their institutions and external networks. To this aim, the involvement of associated partners or sectorial scientific associations will help to increase the numbers of people to involve and contribute to obtain a higher reply rate on the survey.

Work Package 2 – Training needs analysis and definition of the Body of Knowledge of the Emergency Simulation

Task 2.2 Development of the semi-structured interview and action plan for entrepreneurs (Leader UNIFG, University and company partners)

1. A semi-structured questionnaire to investigate entrepreneurs working with Simulation tools and educational activities
2. This investigation will allow to address the competences that the companies look for.
3. All partner companies will activate their own networks at local, national and international level to reach a number of other companies dealing with the same activities.
4. Trial with the partner company for piloting the semi-structured interviews.

Duration 3 months: M3 - M5

Task 2.4 – Conducting the semi-structured interviews to entrepreneurs (Leader UNIFG, University and company partners)

University partners will be supported by the company partners to perform the investigation of companies.

Duration: 4 months (M5 – M8)

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Action plan objectives

- Identification of national coordinator(s) of the research in each partner country;
- The company profile to investigate;
- Methodologies leading data collection;
- The indication of the key topic to address with the survey;
- Duration of the data collection, indicating an intermediate deadline to validate the surveys;
- Template to report the results.

Survey' target group

- Companies developing simulation tools or educational framework and e-learning modules.
- All companies working in the Education/training for healthcare, in particular companies interested in University's projects and Scientific partnerships.
- Companies with educators in higher education and healthcare simulation programs to help prepare learners to succeed in diverse healthcare training environments.

Numbers to reach: 25-30 companies (so far 20 companies included in our list)

Companies short & long term benefits

- Emergency Medicine related training co development (through educational needs survey);
- Entrepreneurial education for sustaining the uptake for Medical device sector;
- Free access to Emergency Medicine educational resources (training material, educational framework and e-learning modules);
- Deep understanding of the environment and routines that the HEIs deal with, in order to address the development of simulation device;
- Free exploitation of the permanent network resulting from the consortium cooperation;
- Scouting of new trained workers for dealing with Training and Simulation tools development.

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Companies contribution

The involved companies will contribute on:

- Validation of the educational offer developed within the project;
- Mentoring academic partners in the identification of the skills and competences required to use virtual and physical simulation tools;
- Providing instructions on the use of virtual and physical simulation

Goals of the companies' survey and structure

The survey **aims** are the following:

- Collect companies' needs when hiring new potential workforce
- Understand companies' needs and analyze them for the Body of Knowledge
- New ideas implementing the educational object of the project
- Involve and attract new stakeholders in the project

Structure of the interview

The survey will be delivered in **two steps**:

STEP 1

First part – General data from Companies

Second part – Structured questionnaire based on Likert's scale composed by 4 groups (5 questions for group)

Group 1: presence of medical staff within companies

Group 2: importance of research and communication within the company

Group 3: presence of companies in university's program

Group 4: medical training in simulation

Distribution of the questionnaire (step 1) through google form

STEP 2

OPEN INTERVIEW (in addition for SAFETY companies' partners and selected external companies)

1. What are the roles that a medical figure can play within your company? (e.g. researcher, development of new tools and equipment, trainer, Medical Science Liaison)
2. What are the necessary skills that these doctors should obtain during their studies in order to be able to offer the right contribution to your company?

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3. What is the contribution that companies, through advanced or basic medical simulation, can provide for students' training? (existing or future ideas and projects) Give also examples of your collaboration or partnership with scientific societies or local universities.
4. What can be the University's contribution, through their study courses, in developing or using simulation tools for students' training? (educational workshops, biomedical science courses, internships in companies)

Distribution of the questionnaire (step 2) through emails/phone calls

All participants will be required to accept the data sharing and privacy policy before taking part in the study. To maintain and protect the confidentiality of the participants, their personal information and data will be anonymous, according to the provisions of the General Data Protection Regulation (GDPR 679/2016). Moreover, the participants' answers are kept anonymous and confidential according to Google's privacy policy (Google Privacy and Terms. Available online: <https://policies.google.com/privacy?hl=en>).

When sending out the questionnaires, the survey will include an introduction describing briefly the background, the aims and information on the ethics of the survey. Moreover, through the social network there will be news to inform participants about the study requirements and objectives.

The participants will complete the questionnaire directly connected to the Google Form, each questionnaire will be sent to the final database and downloaded as a Microsoft Excel sheet. The participants would be able to withdraw their participation in the survey at any stage before the submission; non-completed responses will not be saved.

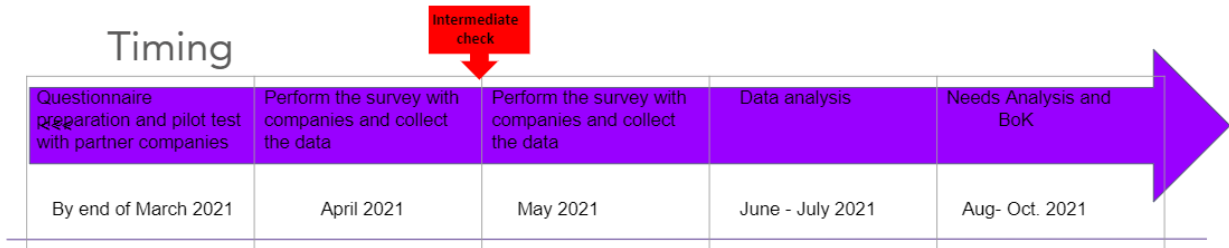
Although the online survey will provide statistical collective parameters, data will be then collected and analysed accordingly.

Survey and data collection timeline

As indicated in the following figure, the UniFg team will share and discuss the questionnaires draft for companies needs with the partners and perform the pilot test involving the SAFETY companies partners by the beginning of March 2021, in order to collect feedback, comments and improve them by end of March.

The survey will be performed between April and May 2021, in order to collect and analyse data by end of July 2021.

Timing



Every country involved in the project will identify a responsible for the survey (National Coordinator), being in touch with the UniFg team and following the survey procedure and verifying response rate and data collection.

It will be useful to identify the survey responsible name and include them in the following list:

- University of Foggia - UniFg:
- University Clinic Hospital of Barcelona – HUB:
- “Prof Dr CC Iliescu” Emergency Institute for Cardiovascular Diseases – EICD: ...
- Ludwig-Maximilians University of Munich – LMU:
- University of Stavanger – UiS:
- Take the Wind – T:
- Alpha Medical concept –AMC:

To start the web-based survey, an email or a message inviting individuals to the URL to participate will be sent, by the National Coordinator, making sure to:

- use a clear email subject line,
- say who has been asked to participate,
- explain the survey's purpose,
- create urgency with a deadline,
- mention time needed to participate.

Both questionnaires are written in English and will be delivered to the companies only in English language.

Both questionnaires are annexes to the following document.

ANNEX 1 – Questionnaire for companies' needs - step 1

ANNEX 2 – Questionnaire for companies' needs - step 2

ANNEX 1

Semi-structured interview with companies - Step 1

Dear Madame/Sir,

*our team at the ... is performing a study within the Erasmus+ project **SAFETY** aimed to understand the skills and competencies required by companies when hiring potential workforce in their technical staff.*

Your needs and opinions will help us to refine the educational system and develop an innovative educational course that will contribute to meet your expectations and give the possibility for alternative working opportunities to new graduates and professionals from the medical area.

We would be grateful if you could participate in our survey, it will take about 10 minutes to complete.

Thank you in advance for your time.

We believe that a good training must be developed considering working reality and companies' needs!

If there are any questions about the survey or about the project, do not hesitate to contact us or visit our website at www.safetymedsim.eu

Company name:
Position in the company of the interviewed:
Email address:
Production site location: (the city where the production is located)
Sector: <input type="checkbox"/> Manufacturing <input type="checkbox"/> Marketing (Selling) <input type="checkbox"/> Process <input type="checkbox"/> R&D <input type="checkbox"/> Service <input type="checkbox"/> Educational activities and services
Size of the company (staff members number) <input type="checkbox"/> micro (no more than 10)

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- small (between 10 and 50)
- medium (between 50 and 250)
- large (250 or more)

You will now find 4 different groups of elements affecting companies' needs.

Please, indicate your opinion according to the following scores:

- 1. Strongly disagree
- 2. Disagree
- 3. Neither agree nor disagree
- 4. Agree
- 5. Strongly agree

Group 1: presence of medical staff within companies

- 1) Within the Medical university study program, there is a need to investigate alternative working possibilities, such as companies that need health professionals in their staff (wellness industry, bioscience and biotechnology and pharmaceutical industries)

1 2 3 4 5

- 2) Your company presents a medical figure in the organization chart (MLS-Medical Science Liaison) that have an essential role

1 2 3 4 5

- 3) Your company spends money and time in training medical staff

1 2 3 4 5

- 4) The legislative and economic framework that every company must deal with in the field of medical training must be part of the university programs

1 2 3 4 5

- 5) It's difficult to find medical personnel ready to leave the clinical-hospital activity and move to business activities

1 2 3 4 5

Group 2: importance of research and communication within the company

- 1) Your company requires the presence of a manager in research and innovation
1 2 3 4 5

- 2) Your company have medical partnerships or university's collaborations
1 2 3 4 5

- 3) In the fields of research and training, it is necessary to have excellent communication skills
1 2 3 4 5

- 4) The internal training program of your company includes studying and improving communication skills
1 2 3 4 5

- 5) Effective communication improves collaboration between different entities (companies, healthcare centres, etc) and professionals to create networks
1 2 3 4 5

Group 3: presence of companies in university's program

- 1) Healthcare training companies are less involved in the training of undergraduate medical students
1 2 3 4 5

- 2) There is a need of companies' involvement in the training program of medical students, especially those in the final years
1 2 3 4 5

- 3) Companies are willing to be integrated into the university training program and to invest resources for the students training
1 2 3 4 5

- 4) Companies could be part of students' university programs through lectures, workshops or internships suitable for the training of a medical-corporate figure (MSL)
1 2 3 4 5

5) Companies have managers that could train students in the role of "companies health expert" (MLS)

1 2 3 4 5

Group 4: medical training in simulation

1) Your company makes use of simulation for training in safety and has software or simulation tools for carrying out training activities

1 2 3 4 5

2) Simulation represents an excellent integration between companies and university for training students in the medical area

1 2 3 4 5

3) The development of simulation software requires medical support to meet business needs with those strictly related to health training

1 2 3 4 5

4) In turn, companies need specific training on simulation and how it can be used at a training level

1 2 3 4 5

5) The simulation world is a good field where companies can invest in the future

1 2 3 4 5

Thank you for completing our survey!

If you have insightful considerations about this topic and feel willing to support our investigation with further ideas, leave your email address here _____ and we will be glad to contact you privately proposing a brief interview with a few open questions.

In any case, to receive information about the companies' needs analysis and stay updated on the project results, we invite you to subscribe to the [SAFETY newsletter](#).



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ANNEX 2

Step 2 - OPEN INTERVIEW (in addition for SAFETY companies' partners and selected external companies)

Date (gg/mm/yyyy):	Interview modality: <input type="checkbox"/> Live <input type="checkbox"/> Virtual
Project Partner / Interviewer:	
Company Name:	
email address:	

A) What are the roles that a medical figure can play within your company? (e.g. researcher, development of new tools and equipment, trainer, Medical Science Liaison)

B) What are the necessary skills that these doctors should obtain during their studies in order to be able to offer the right contribution to your company?

- C) What is the contribution that companies, through advanced or basic medical simulation, can provide for students training? (existing or future ideas and projects) Give also examples of your collaboration or partnership with scientific societies or local universities
- D) What can be the University's contribution, through their study courses, in developing or using simulation tools for students' training? (educational workshops, biomedical science courses, internships in companies)



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