



LEONARDO DA VINCI PROGRAMME

SHANIME PROJECT

**P r e v e n t i n g A c c i d e n t s
i n C o n s t r u c t i o n :
H e a l t h & S a f e t y
M u l t i m e d i a - A n i m a t e d
L e a r n i n g**

**L L P - L d V - T O I - 2 0 1 1 - 1 -
T R 1 - L E 0 0 5 - 2 7 9 4 1**

Testing Report

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Participants in the Course

30 Participants joined the testing training course of SHANIME Project and here is the list of the participants:

1	ALTAN DIZDAR	ENGINEER
2	ANNIE DOWNEY	EU EXPERT
3	ERTUGRUL DIZDAR	ENGINEER
4	KENAN KAYA	ENGINEER
5	AHMET AKDOGAN	ENGINEER
6	CAN KARAŞAHİN	ENGINEER
7	BEHZAT GOLLU	ENGINEER
8	İSMAİL AVAN	ENGINEER
9	EYLEM SELCUK	ENGINEER
10	FERAY AHI	ENGINEER
11	SERKAN DIZDAR	TECHNICIAN
12	KEMAL KOLAYCA	ENGINEER
13	TAHA DERVISOGLU	ENGINEER

14	NURETTIN POLAT	TECHNICIAN
15	YASAR YILDIRIM	TECHNICIAN
16	MERT KEMİKSİZ	TECHNICIAN
17	YUNUS SONGUR	ENGINEER
18	LUTFU BEZDİM	TECHNICIAN
19	MURAT SEMDİL	TECHNICIAN
20	MUZEYYEN AVAN	ADMINISTRATIVE
21	SEÇİL ERKİLİÇ	ADMINISTRATIVE
22	ZEHRA ÇAK	TECHNICIAN
23	FILİZ SARIALTUN	ASSISTANT
24	SİNEM HAYRAN	TECHNICIAN
25	KÜRŞAD ÖLMEZ	TECHNICIAN
26	HAKAN DAMAR	ENGINEER
27	NACİ DEREBAŞINLIOĞLU	ENGINEER
28	SUAT BOZKURTOĞLU	ENGINEER
29	RASİH KORMALI	ENGINEER
30	NİHAT ÜNLÜ	ENGINEER

Methodology of Testing

The participants are gathered in groups at Kenan Kaya's office on the 28th of June 2013 and following issues have been discussed:

- An introduction of European Union projects are discussed, programs, projects and examples from the previous years are given, advantages and uses of these projects are explained in detail,
- Meaning of Leonardo da Vinci projects is discussed,
- Introduction of the subject of the SHANIME PROJECT is explained, aims, objectives are described,
- RESULTS of the project are explained, sections from the National Reports are introduced in brief and animations are shown and described, health and safety importance at the construction sites are discussed in detail,
- The participants are asked to evaluate the animated short videos related to the SHAMINE PROJECT with a focus on preventing work place accidents on a construction site,
- Future plans about the project are discussed,
- The questions are answered.

A set of 21 animated video shorts covering topics ranging from the importance of being aware of blind spots to the attention required when using TNT.

Participants were happy to be informed about the project. Also, they were also very interested in European Union Projects and they were eager to be involved in these types of projects.

A number of the participants were willing to take part in the project for the future activities.

The workshop ended with good wishes for the future and with hopes to discuss other projects in the future.

The sheets for the below questionnaire are distributed to the partners and it is required from the participants to fill in the below questionnaire for the project and give us back the results by the 9th of July 2013.

The Results of the Test

There were 30 participants for the testing course and we collected their evaluation reports and we had totally 15 statements/questions for the evaluation questionnaire. The questionnaire is divided into two sections: the first section contains five questions that ask the evaluator about themselves, such as level of education and experience regarding construction; the second section contains 8 statements regarding the short animations and on a scale from strongly agree to strongly disagree (5 degrees of distinction) and two open-ended questions.

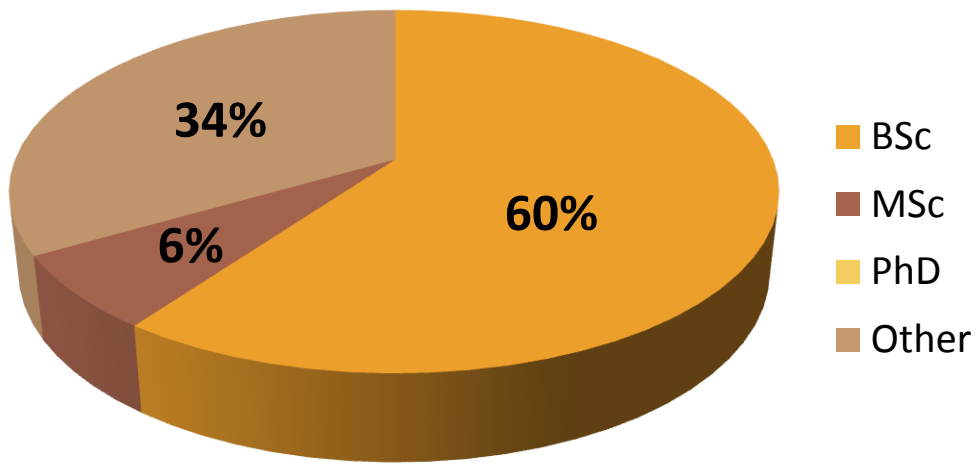
We delivered the evaluation questionnaire to the participants required by the testing work package of the project and we got the following results from the participants of the testing course by ERBIL in Turkey:

Section A - About Yourself

1. What is your highest level of formal education?

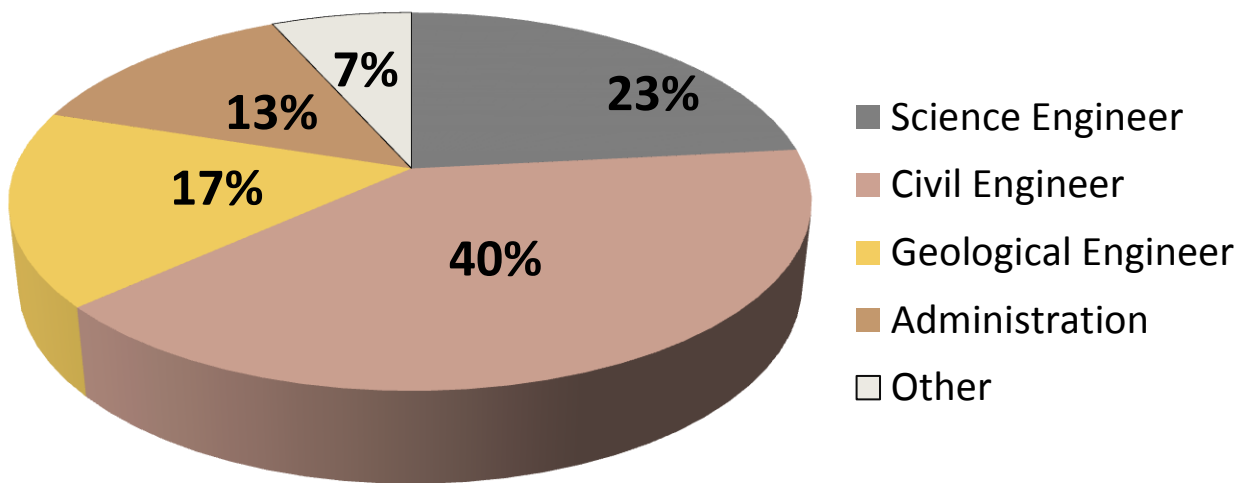
BSc MSc PhD

Other (please indicate).....



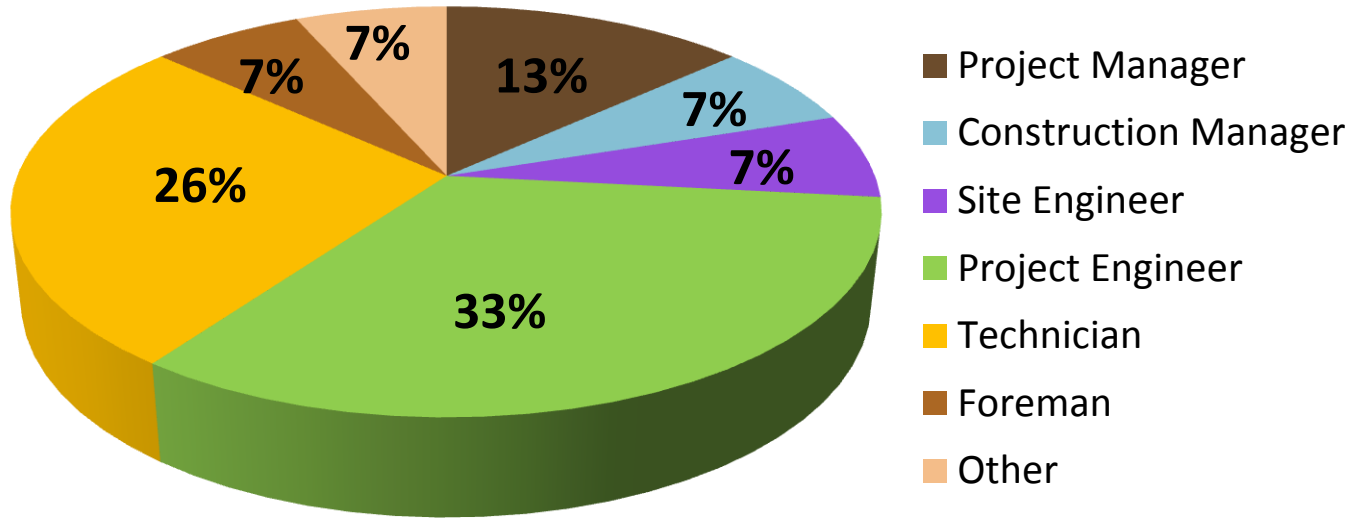
2. What is your profession? (i.e., Architect, Civil Engineer, etc.)

.....



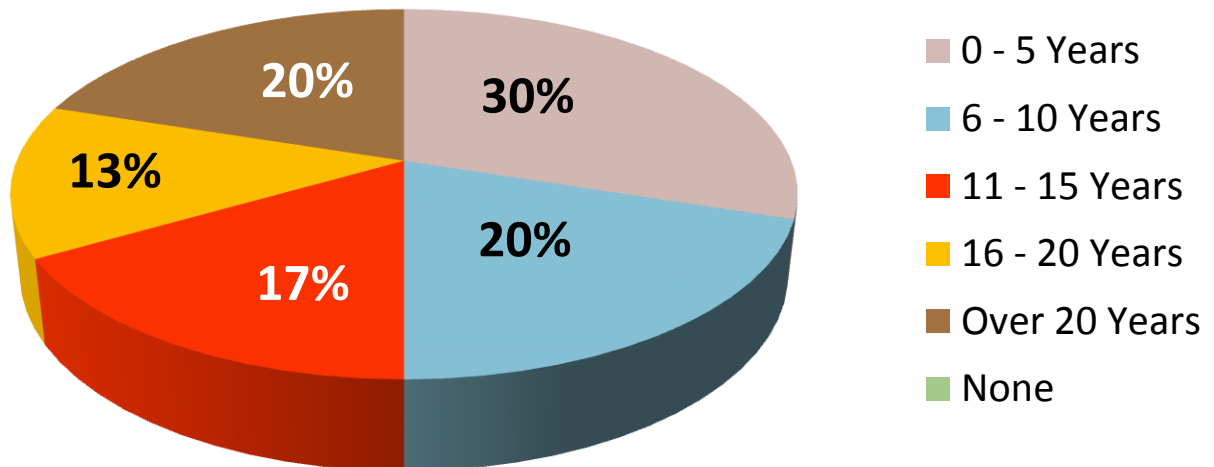
3. What is your job title?

Project Manager
 Construction Manager
 Site Engineer
 Technician
 Foreman
 Other (please indicate).....



4. How long have you worked in the construction industry?

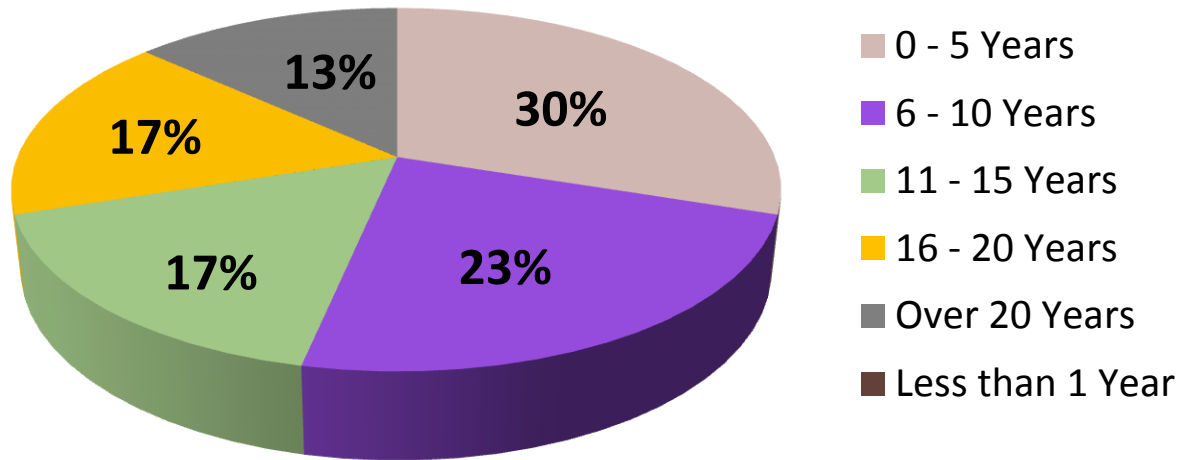
0-5 years
 6-10 years
 11-15 years
 16-20 years
 Over 20 years
 None



5. How long have you worked on the international construction projects?

0-5 years 6-10 years 11-15 years

16-20 years Over 20 years Less than 1 year

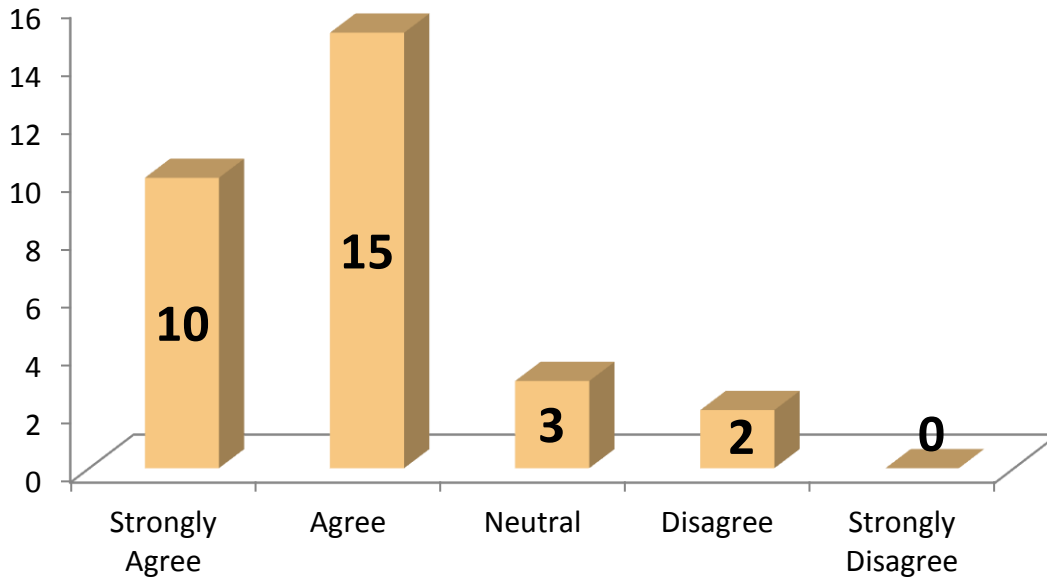


Section B - Health & Safety Animations

Please select the most appropriate answer.

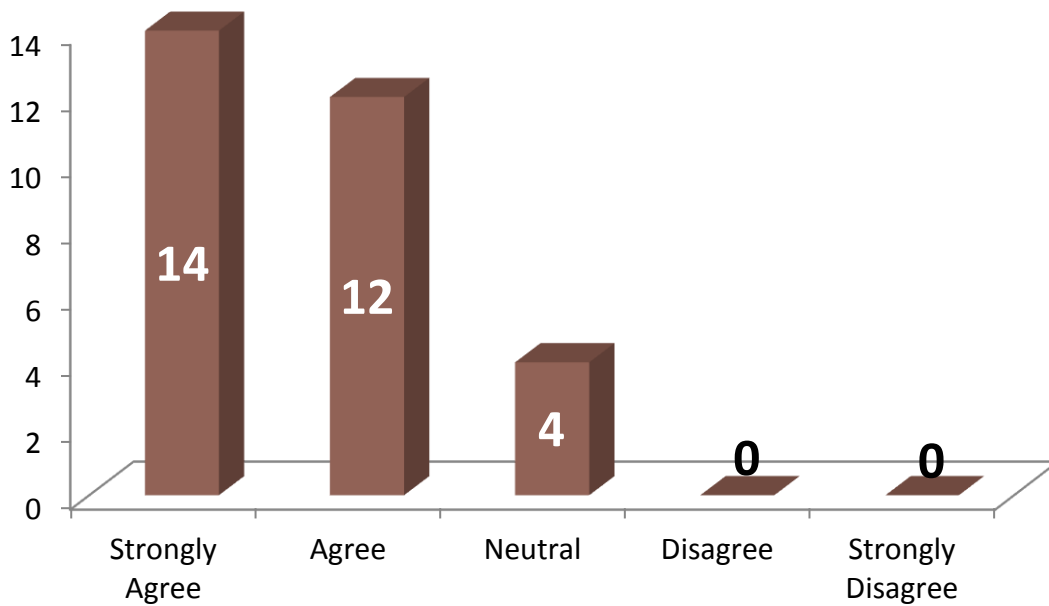
6. Animations clearly illustrate the causes of accidents.

Strongly agree Agree Neutral Disagree Strongly disagree



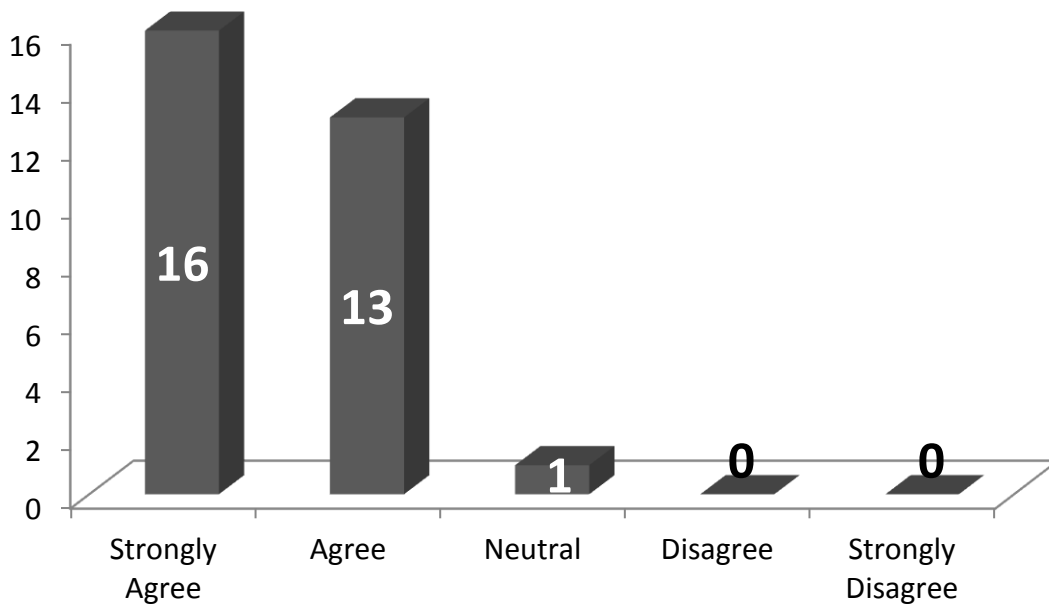
7. The quality of the animations is adequate.

Strongly agree Agree Neutral Disagree Strongly disagree



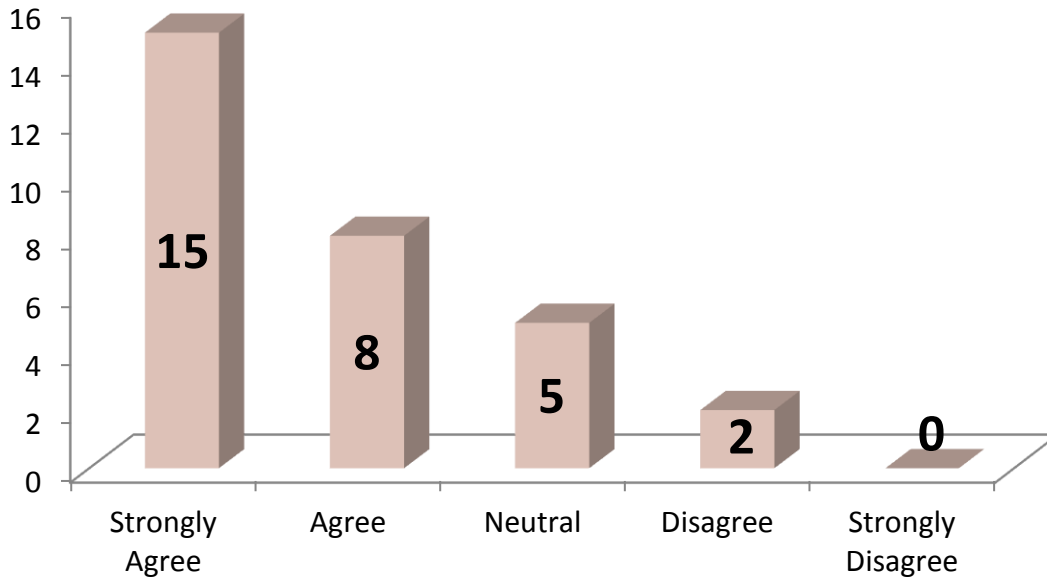
8. Construction workers can more easily learn the health & safety concept using animations.

Strongly agree Agree Neutral Disagree Strongly disagree



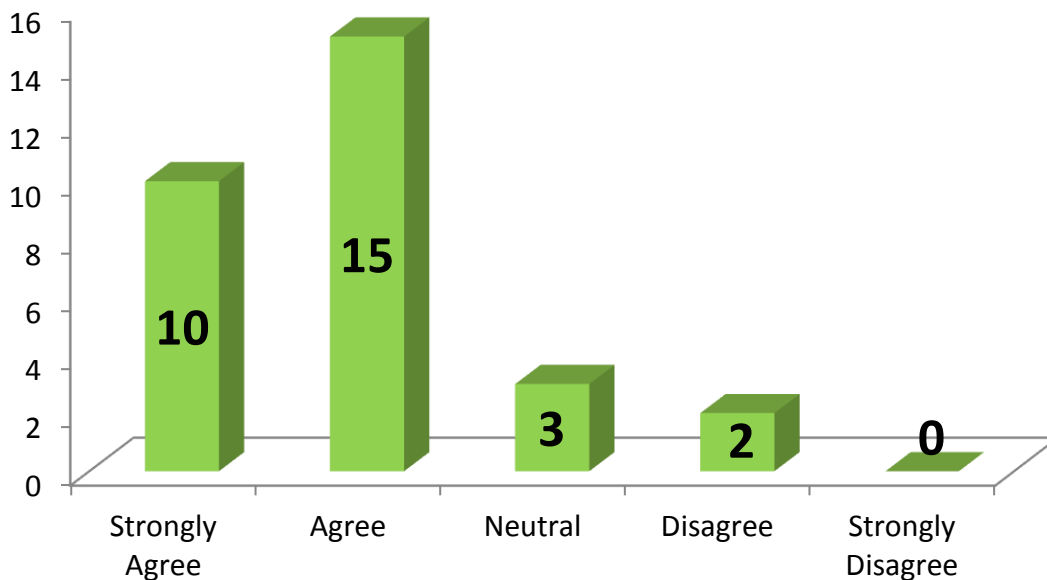
9. Animations can be beneficial to construction professionals/managers/engineers in terms of health & safety.

Strongly agree Agree Neutral Disagree Strongly disagree



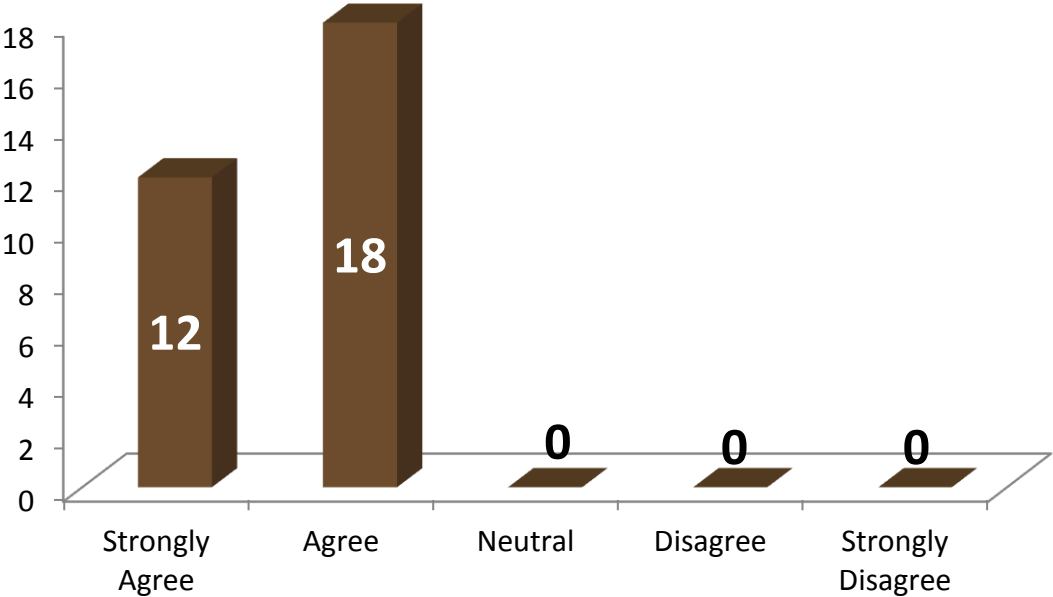
10. The animations can improve health & safety training in construction.

Strongly agree Agree Neutral Disagree Strongly disagree



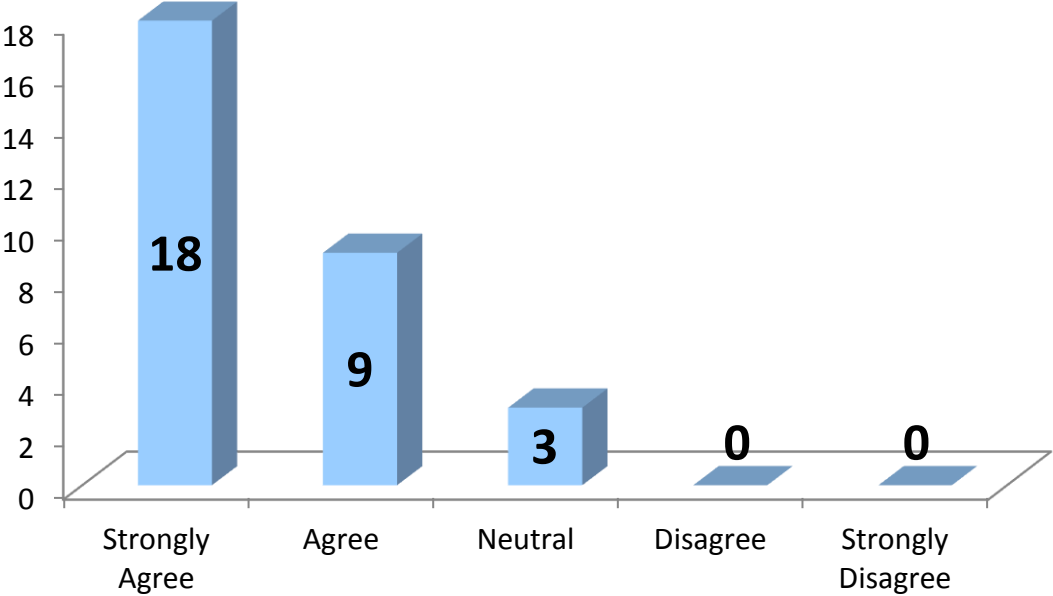
11. Health & safety training using animations can be more effective in comparison to traditional health & safety training.

Strongly agree Agree Neutral Disagree Strongly disagree



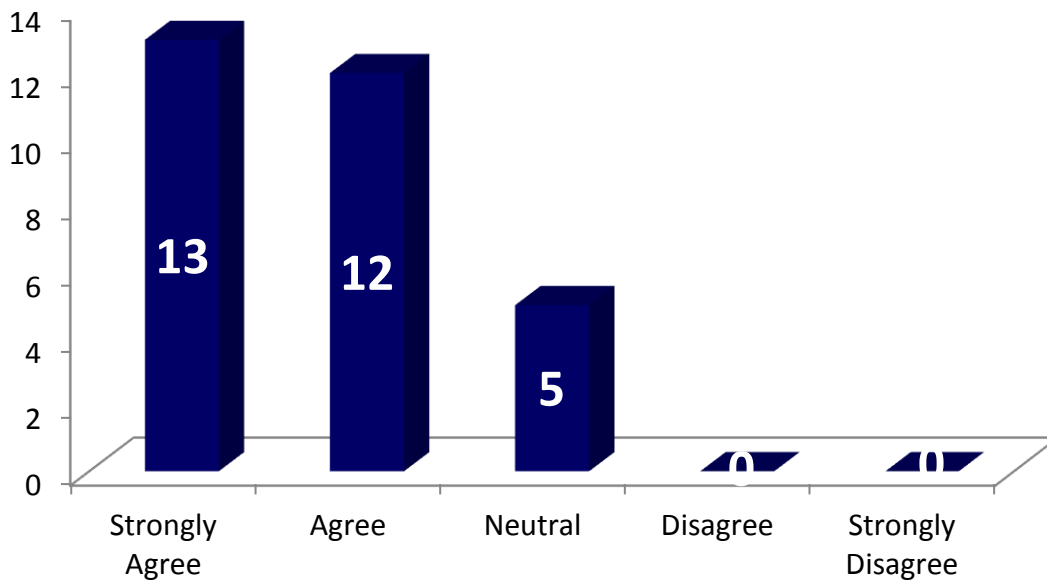
12. Health & safety training with the use of animations will be more convenient for trainers in comparison to traditional health & safety training.

Strongly agree Agree Neutral Disagree Strongly disagree



13. Health & safety training with animations has more potential to reduce construction accidents than traditional training.

Strongly agree Agree Neutral Disagree Strongly disagree



14. Do you have any other suggestions to improve health and safety training?

It is a very important subject indeed and the project and the outputs are very well defined for this purpose,

There must be inspectors all around the construction (1 inspector for let's say 4 workers at site) and they must look behind carefully to the workers behaviours and any dangerous work being done or not at the construction site and in case they do anything such as if they don't wear a cap or if they don't tie themselves while climbing to a tower, the inspector must charge them with a big amount of money, let's say a month salary,

According to me, during 8 hours work, half an hour must be separated for health and safety training for the workers, this will avoid much of the accidents and danger at site and will bring awareness among the workers.

Case Studies are very important, all accidents that might occur must be shown to the people working at the constructions.

Very dangerous places must be surrounded by a guard band and must be prevented to get into the place.

The training must be simple to be understood by the site workers, and I think this way of training by animations is a very good way to reach to the people for health and safety.

Employers must give opportunities to the working staff for their safety in their job. First supplement in this sense must come from the employers then employees will follow the rules and principles. If employers do not consider the principles of health and safety, then the workers will never obey the rules.

Very high penalties must be applied to the employers when a worker is died by accident and if this is applied to everywhere then the contractors will be obliged to take every precaution for the workers and this will lessen the accidents and unsafety at the construction sites.

Accidents, illnesses and injuries that might occur at that specific construction site must be told to the worker at the start of the work so he can be careful against these dangerous things.

Emergency help is very important and this has to be supplied at the site.

The training importance must be shown to the workers and for example charts can be shown them to make them realize the difference between trained and untrained workers.

15. Do you have any other suggestions to improve the animations?

“In the animations, site workers must wear protection clothes and belts. Besides, most of the site workers are smoking at the site, it’s look no good for education animations. “Ground works” is same with “excavator 02”. I think that there are two different versions for our choosing, and i prefer “mine TNT” one. And at last, I know that the animation “land surveyers” must be “land surveyors” ”

“Bieng Stucked by Machines – should be Being Struck by Machines”

“Concrete Pump video – yikes – but how did that happen – whose fault is it???”

“Is it a problem that some of the construction videos contain Turkish?”

Falling Objects – only comment it how could it have been prevented? Is it suggesting having strong nets?

Can they, animations be longer? Or, do you have already the long ones in the scope of this project?

I am sure these animations will attract the attention of the workers and will at least let them know about the risks they can coincide at the working place.

Is there an application for Iphones that we can see thru our mobiles?

As much we deliver these animations around, we will help in lessening the accidents at the work sites.

Perfectly designed animations, I know that it is a very difficult work to do it because for a 5 seconds move in an animation, you spend 4 or 5 hours, something like that.

Good work, good project, I would also like to work for the safety at the constructions.

To make a training by animations is very intelligent because to pull the attention of workers as already they are working very hard will be excellent and very simple and they will understand how to behave at the construction site to protect themselves and will be aware of dangerous things around them. Instead of giving them hard lectures, these animations will show them what to do in a very simple way. Maybe, most of the injuries will be omitted by these animations.



LEONARDO DA VINCI PROGRAMME

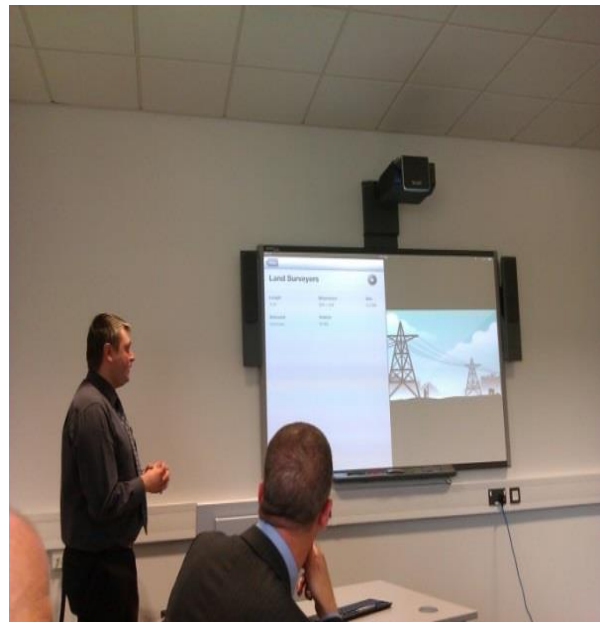
SHANIME PROJECT

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L L P - L d V - T O I - 2 0 1 1 - 1 -
T R 1 - L E O 0 5 - 2 7 9 4 1**

Testing Report of CIOB

NATIONAL CONSTRUCTION COLLEGE DEVELOPMENT GROUP (NCCDG), London

- Place: London
- Presenter: Piotr Nowak – CIOB
- Date: 02/10/2012
- Type of the event: meeting
- Type of audience: construction industry sector
- Attendees:
 - Andy Walder : National Construction College Director (Chairman)
 - Alison Ahearn : Constructionarium – Imperial College
 - Chung-Chin Kao : Innovation and Research Manager (CIOB)
 - Briony Wickenden : Civil Engineering Contractors Association (CECA)
 - Richard Clarke : Unite the Union
 - John Enyon : Cadnet (CIOB)
 - Chris Barrett : Head of Vocational Services, NCC
 - Mathew Brown : Head of Finance and Business Planning, NCC
 - Alex Birks : Head of Membership Services
 - Sarah Renwick : Stakeholder Governance Co-ordinator



Health & safety advisory group Meeting

MSE, Room 4c, 103a Oxford Street, London, W1D 2HG

- Place: London
- Presenter: Piotr Nowak – CIOB
- Date: 02/10/2012
- Type of the event: meeting
- Type of audience: construction industry sector
- Attendees:

Group Members

- Vaughan Burnand – Chair
- Richard Thorne – Vice Chair
- Tony Duff – QUENSH Associates Ltd
- Dr Billy Hare – Glasgow Caledonian University
- Thomas Lamb – Site Manager Assistant
- Martin Lee – HSE
- Joe Sate – Consultant
- Fred Sherratt – Bolton University

CIOB STAFF

- Peter Nowak – Secretary
- Judy Parker – Minuting



QUESTIONNAIRE RESULTS

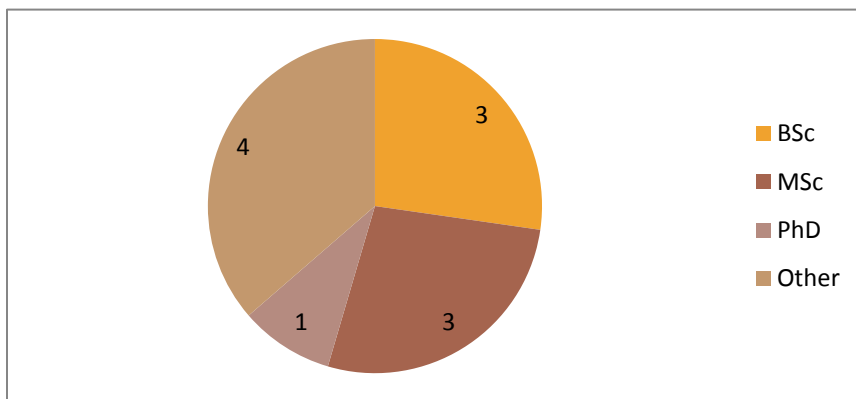
HEALTH & SAFETY ANIMATIONS QUESTIONNAIRE

Evaluation report

Section A

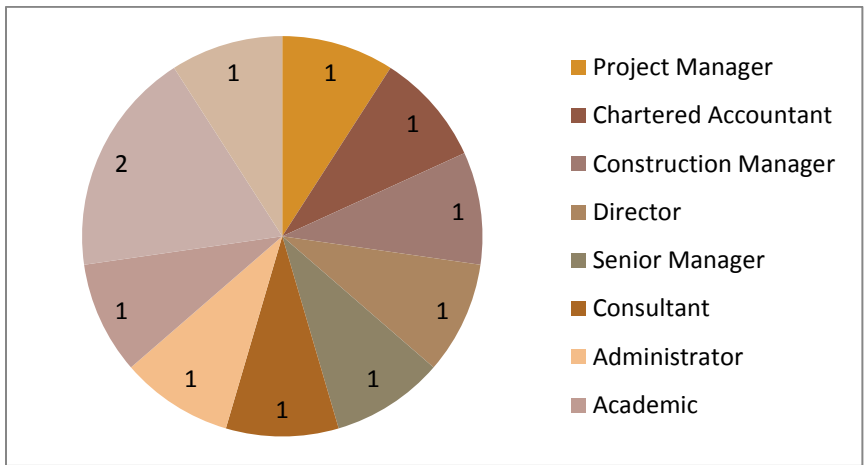
1) What is your highest level of formal education?

BSc	3
MSc	3
PhD	1
Other	4



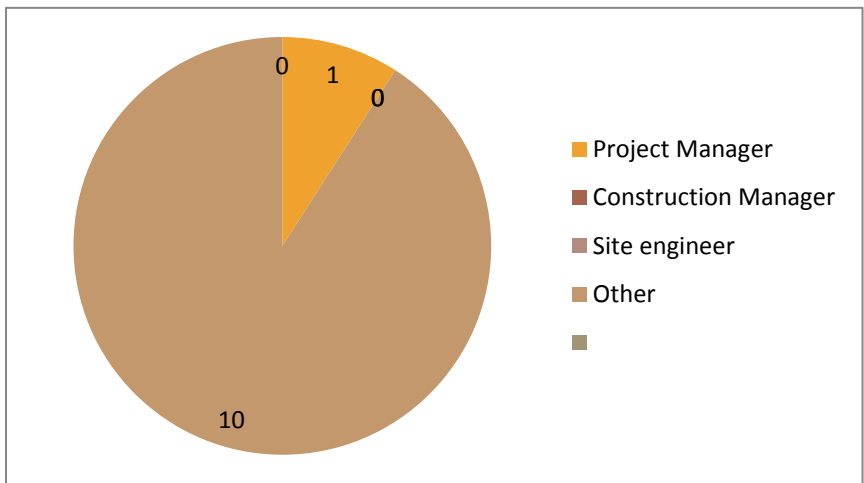
2) What is your profession? (i.e. Architect, Civil Engineer, etc.)

Project Manager	1
Chartered Accountant	1
Construction Manager	1
Director	1
Senior Manager	1
Consultant	1
Administrator	1
Academic	1
Lecturer	2
Building Surveyor	1



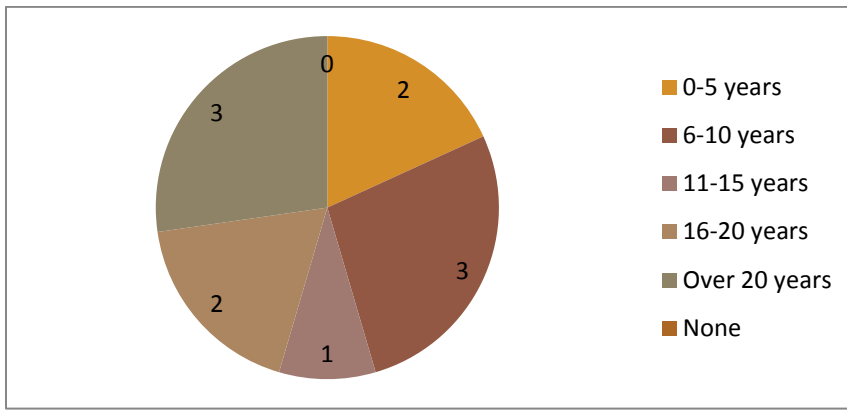
3) What is your job title?

Project Manager	1
Construction Manager	0
Site engineer	0
Other	10



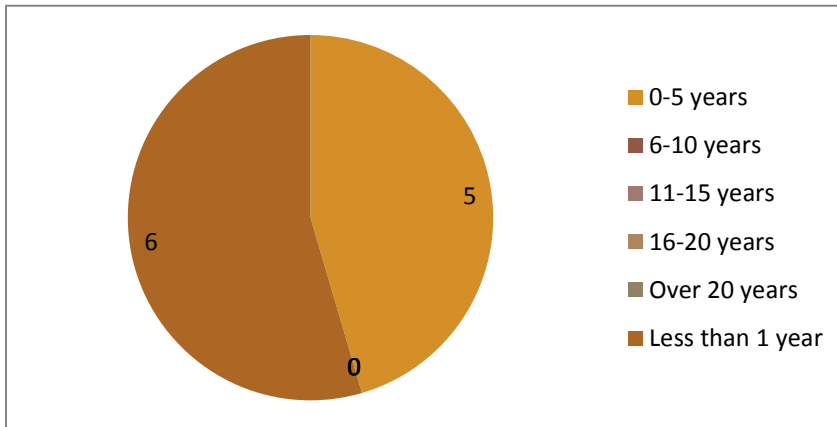
4) How long have you worked in the construction industry?

0-5 years	2
6-10 years	3
11-15 years	1
16-20 years	2
Over 20 years	3
None	0



5) How long have you worked on the international construction projects?

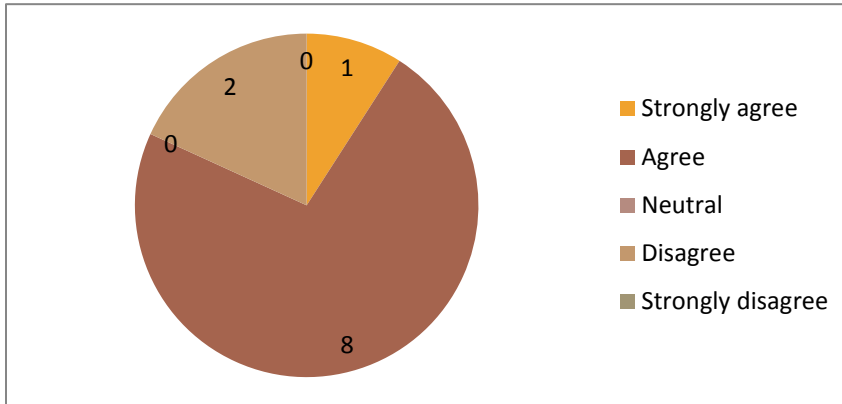
0-5 years	5
6-10 years	0
11-15 years	0
16-20 years	0
Over 20 years	0
Less than 1 year	6



Section B

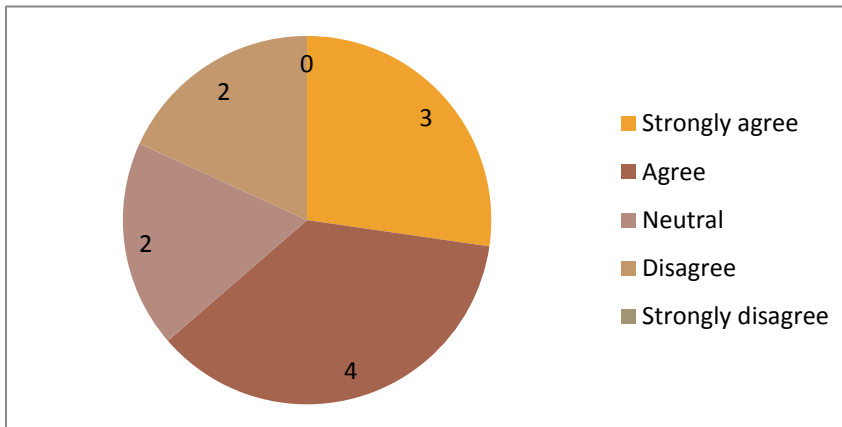
6) Animations clearly illustrate the causes of accidents.

Strongly agree	1
Agree	8
Neutral	0
Disagree	2
Strongly disagree	0



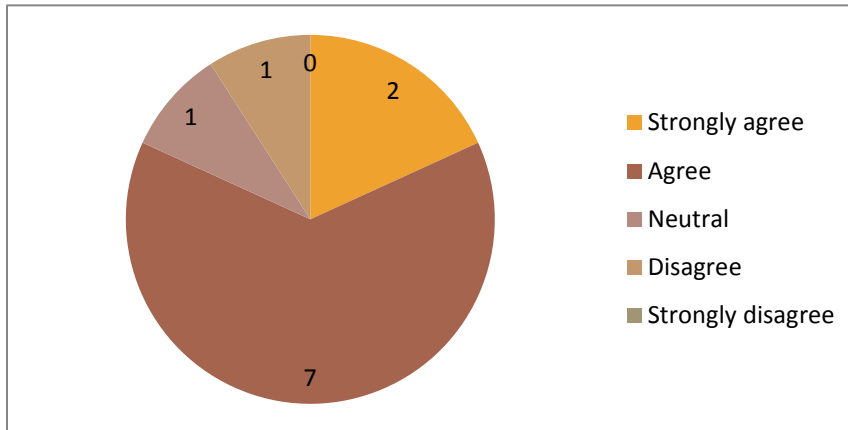
7) The quality of the animations are adequate.

Strongly agree	3
Agree	4
Neutral	2
Disagree	2
Strongly disagree	0



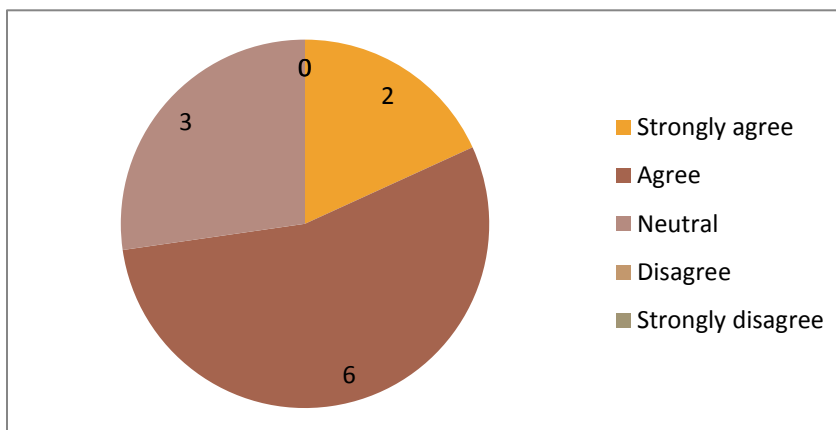
8) Construction workers can more easily learn the health & safety concept using animations.

Strongly agree	2
Agree	7
Neutral	1
Disagree	1
Strongly disagree	0



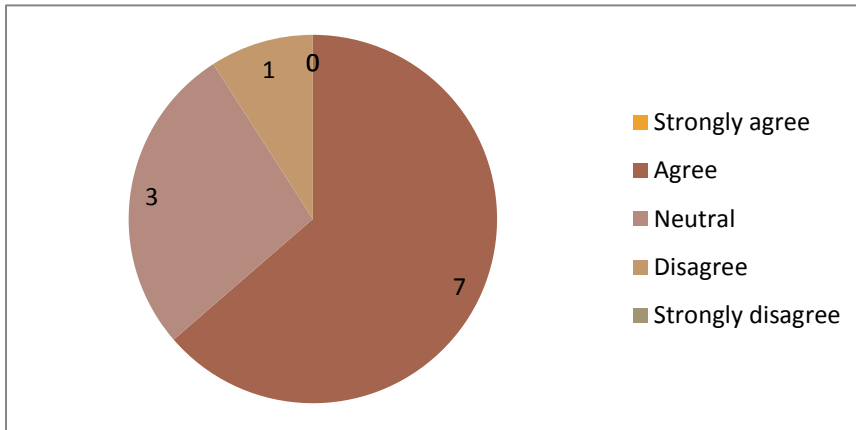
9) Animations can be beneficial to construction professionals/managers/engineers in terms of health & safety.

Strongly agree	2
Agree	6
Neutral	3
Disagree	0
Strongly disagree	0



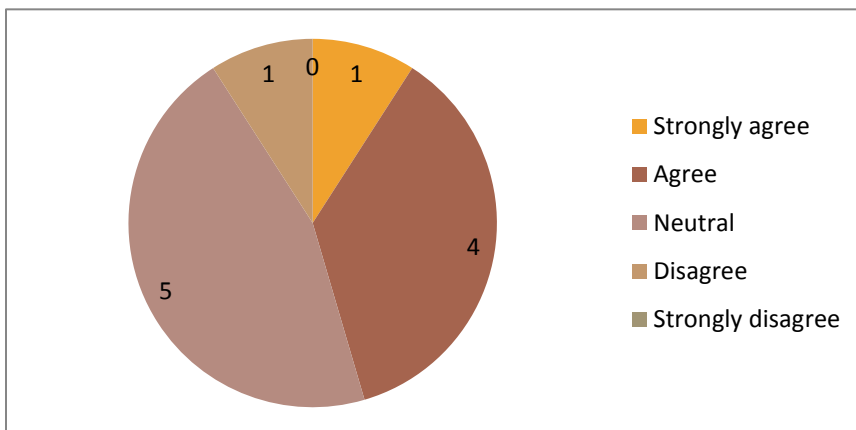
10) The animations can improve health & safety training in construction.

Strongly agree	0
Agree	7
Neutral	3
Disagree	1
Strongly disagree	0



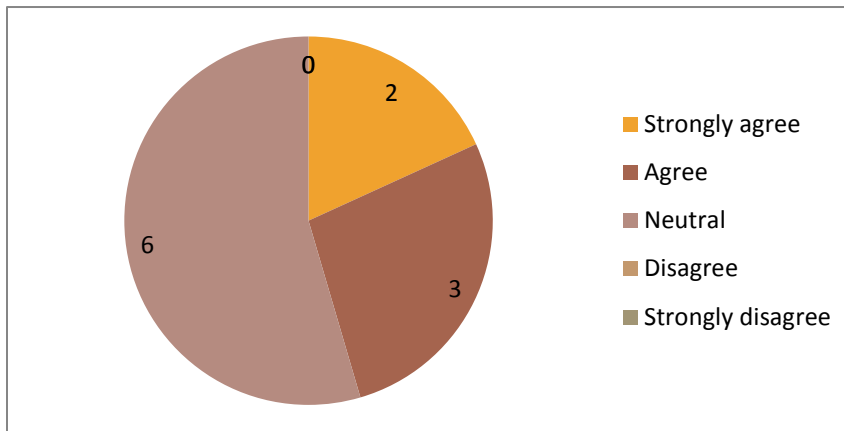
11) Health & safety training using animations can be more effective in comparison to traditional health & safety training.

Strongly agree	1
Agree	4
Neutral	5
Disagree	1
Strongly disagree	0



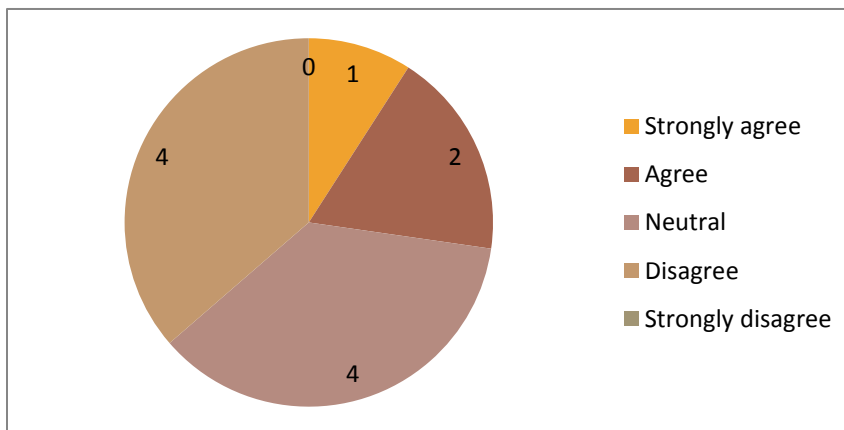
12) Health & safety training with the use of animations will be more convenient for trainers in comparison to traditional health & safety training.

Strongly agree	2
Agree	3
Neutral	6
Disagree	0
Strongly disagree	0



13) Health & safety training with animations has more potential to reduce construction accidents than traditional training.

Strongly agree	1
Agree	2
Neutral	4
Disagree	4
Strongly disagree	0



14) Do you have any other suggestions to improve health and safety training?

- E.g. Electricity Pylon - use energy sector films of Arc Flash, and show serious injuries, and interviews with victims
- Introduce it as early as possible in the school curriculum so it become a lifetime thing
- Have a lot of things to spot a discuss: smoking on site, lack of PPE gear, lack of communication and cheeking
- Use web based technology for wider access

15) Do you have any other suggestions to improve the animations?

- The animations can compliment, but not replace H&S training and use of real film footage.
The artwork was "European" in style which is different to "British" animated tradition, in both style and delivery.
Animated characters had inadequate PPE, at though there was not on PPE e.g. Pylon example
- I did not pick up that the birds were wearing hard hats - should each video have a final 'still' page with bullet points to illustrate the hazards shown.
- The animations imply that people do not need to speak to each other as part of safety?
Unintended impression derived from the silent film
- More input on solutions
- Use format: HAZARD → CONSEQUENCES→CONTROLS
Alternative format: Good Practice / Bad Practice, see "NAPO" animations
- It will be very hard to create something for all the EU in terms of standards ebc.