

## **CYBECO**

# Supporting Cyberinsurance from a Behavioural Choice Perspective

# Codebook - Experiment 2: Behavioural insights of CYBECO toolbox.

Date: April 2019

#### **Abstract:**

This document presents the description of all the variables contained in the dataset collected in the Experiment 2 of CYBECO project as well as its rationale and the screenshots of the experimental software.

CYBECO-WP6-C2-v0.1-TREK

Final 2019.04.30 2

# Codebook - Experiment 2: Behavioural insights of CYBECO toolbox

## **Table of Contents**

1	Intr	oduction	4
2	Rat	onale of Experiment 1	<u>5</u>
	2.1	Experimental Conditions	6
3	Scr	eenshots of the experimental software	12
4	Des	cription of the variables in the dataset	27
	4.1	Subject	27
	4.2	Socio-demographic questionnaire	27
	4.3	Phases 1 and 2	30
	4.4	Phase 3	.¡Error! Marcador no definido
	4.5	Final questionnaire	34

Date Page

2019.04.30

## Codebook - Experiment 2: Behavioural insights of CYBECO toolbox

# **List of Figures**

Figure 1. C1: The attack is random	¡Error! Marcador no definido.
Figure 2. C2: The attack is intentional	¡Error! Marcador no definido.
Figure 1. Welcome page	¡Error! Marcador no definido.
Figure 2. Socio-demographic questionnaire	¡Error! Marcador no definido.
Figure 3. Stage 1 and 2 instructions when the context is rando	om, Factor C1;Error! Marcador
no definido.	
Figure 4. Stage 1 and 2 instructions when the context is intent <b>Marcador no definido.</b>	ional, Factor C2 ¡Error!
Figure 5. Cibersecurity shop when there are not price depended are medium, Factor P1 and I1.	· · · · · · · · · · · · · · · · · · ·
Figure 6. Cibersecurity shop when there are price dependency medium, Factor P2 and I1.	
Figure 7. Cibersecurity shop when there are not price depended are asymmetric, Factor P1 and I2	•
Figure 8. Cibersecurity shop when there are price dependency asymmetric, Factor P2 and I2	-
Figure 9. Cibersecurity shop when there are not price depended are high, Factor P1 and I3.	•
Figure 10. Cibersecurity shop when there are price depender are high, Factor P2 and I3	
Figure 11. Purchase summary	¡Error! Marcador no definido.
Figure 12. Event website.	¡Error! Marcador no definido.
Figure 13. Event registration	¡Error! Marcador no definido.
Figure 14. Event website - Logout	¡Error! Marcador no definido.
Figure 15. Cyberattack simulation.	¡Error! Marcador no definido.
Figure 16. Access to Stage 2	¡Error! Marcador no definido.
Figure 17. Stage 3: Holt & Laury	¡Error! Marcador no definido.
Figure 18. Stage 3 results	¡Error! Marcador no definido.
Figure 19. Final questionnaire	¡Error! Marcador no definido.
Figure 20. End page	¡Error! Marcador no definido.



Reference Version Date Page

CYBECO-WP6-C2-v0.1-TREK

2019.04.30

#### Codebook - Experiment 2: Behavioural insights of CYBECO toolbox

### 1 Introduction

This document presents the description of all the variables contained in the dataset collected in the Experiment 2 of CYBECO project as well as its rationale and the screenshots of the experimental software. Deliverable 6.3: Report with Findings of Experiments and Policy implications<sup>1</sup> of CYBECO project presents the details of the implementation of the experiment, the results obtained and its implications for the validation and potential improvement of CYBECO toolbox.

The document is structures as follows. Section 2 presents the rationale and the experimental conditions of Experiment 2. The experiment is focused in the use of the CYEBCO toolbox, specifically, the experiment implements five alternative designs of the interactive output page of the CYBECO toolbox to study how these designs affects cyberinsurance decision-making. Section 3 contains the screenshots of the experimental software. Finally, section 4 lists and describes the variables collected in the dataset.

<sup>&</sup>lt;sup>1</sup> https://www.cybeco.eu/results



Version

Date

Page

## Rationale of Experiment 2

Experiment 2 aims to test the CYBECO toolbox. The toolbox takes the form of an online calculator to guide the user through analyzing their current cybersecurity risk level and deciding the optimal cybersecurity strategy for their needs. The calculator takes the form of a multi-step online form which asks pertinent questions (e.g., SME size, characteristics, relevant threats, available security measures) and offers the best option for the SME based on the outcomes of CYBECO cyber risk management models.

In Experiment 2, participants were invited to use a mock-up version of the cyber-risk analysis tool for SMEs included in the CYBECO toolbox and based in the CYEBCO model. Concretely, participants were assigned an initial endowment that could be used to buy a combination of insurance and protection measures. For this task, subject counted with the help of the output page of the CYBECO toolbox to provide information on the results of the cyber-risk analysis and to guide them during the purchase of cyberinsurance and protection measures. The selected cybersecurity strategy and the fact of suffering or not a random cyberattack determined the payoff to be received at the end of the experiment. The experimental session included pre- and post- questionnaires to provide classification information and evaluate the usability of the ouput page of the CYBECO toolbox. Experiment 2 was run under five experimental conditions or treatments, consisting in five different designs of the output page of the CYBECO toolbox. The five designs are presented in detail in the next section.

Since the aim of experiment 2 is to test the effectivity and usability of the CYBECO toolbox, the selection of the participants become critical. For this reason, the sample of 2,000 participants in experiment 2 was recruited among potential users of the tool from SMEs or autonomous workers (entrepreneurs, freelancers, etc.). Participants were required to work in positions related to decision-making in the areas of cybersecurity and insurance, from a technical, managerial or purchases departments of SMEs. As described in detail in subsection 3.2.4, this challenging recruitment process was successful, since half of the participants have purchased protection measures for their SMEs and forth of them do have even contracted cyberinsurance policies in the past. Since the condition of having already purchased was not explicitly required, we can consider the participants in the sample as potential users of the CYBECO toolbox.

Experiment 2 was run with a total sample of 2.078 subjects from four different countries (Germany, Poland, Spain and UK). The fieldwork of the experiment started on September 2018 and ended in October 2018 in the four countries. The distribution by age and gender reflects Eurostat's data from the 2017 survey on ICT, Table 1.

	Country				
	Germany	Spain	Poland	UK	Total
Final sample	520	503	534	521	2078

Table 1. Distribution of the participants by country.



Reference Version Date Page

CYBECO-WP6-C2-v0.1-TREK Final

2019.04.30

Codebook - Experiment 2: Behavioural insights of CYBECO toolbox

### 2.1 Experimental Conditions

This experiment is focused in the potential framings of the output page of the CYBECO toolbox. This interactive screen presents the costs and impacts of the five best cybersecurity strategies for the subject, according with the CYBECO model. Using the functionalities of this page, subjects are able to analyse in detail the five option and, at a latter step of the experiment, to purchase the protection and insurance strategies that they decide (despite of the recommendations of the CYBECO toolbox).

The experiment considers the following five framings for the interactive risk analysis dashboard of the toolbox:

• Treatment 1 (Expected – Losses). This treatment, shown in Figure 1, presents the risk analysis in terms of the expected values of the losses to be faced by the subject when applying each of the five cybersecurity strategies. The expected value is computed using the probabilities of the two alternative scenarios (suffering or not the cyberattack) and the monetary losses to be suffered in each scenario (prices of protection and insurance products, losses in the commercial value of the data and the potential compensation of the insurance policy taken by the subjects). This framing is the original proposal presented in the CYBECO toolbox.

**CYBECO** 

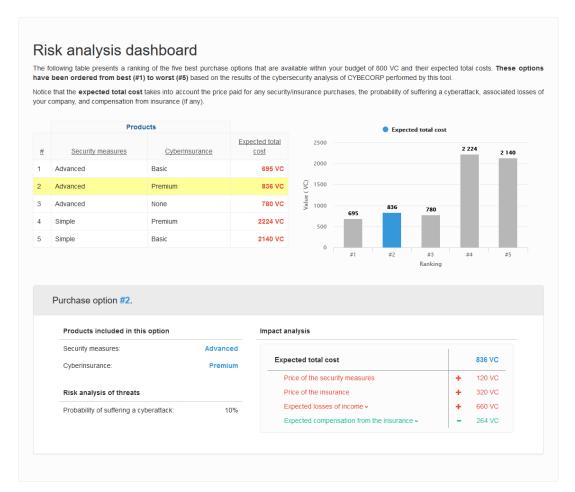


Figure 1. Treatment 1 (Expected - Losses)

Treatment 2 (Expected – Losses - Salience). The information is presented here with
the same framing than in treatment 1. However, the difference is that treatment 2
includes a high salience message communicating that the first option in the ranking is
recommended by the cybersecurity experts and a click for direct purchase of the
recommended option. The framing of treatment 2 is presented in Figure 2.



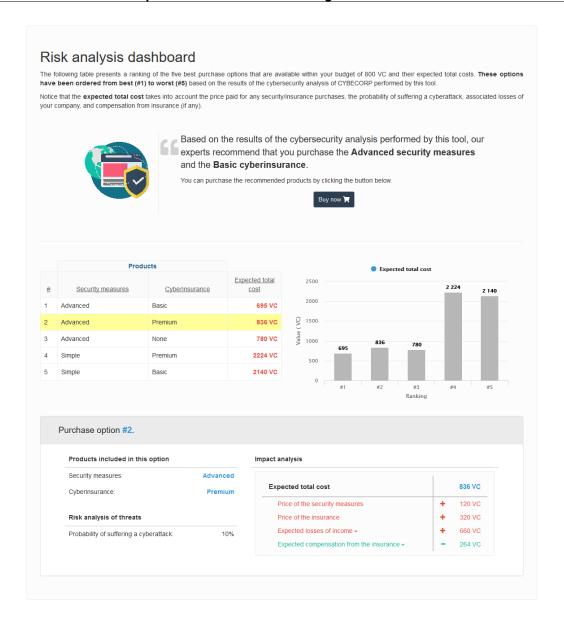


Figure 2. Treatment 2 (Expected – Losses – Salience)

Treatment 3 (Expected - Gains). Although the information is presented again using expected values, the output does not provide information of the expected losses to be suffered by the subjects but on the total income that the company would obtain using each of the analysis cybersecurity strategies. This treatment can be compared to treatment 1 to analyze the impact of loss aversion in subject cybersecurity decisionmaking. The output under this framing is shown in Figure 3.



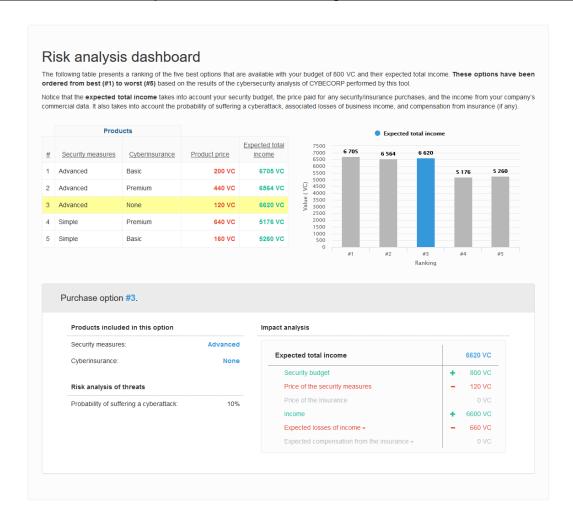


Figure 3. Treatment 3 (Expected – Gains)

• Treatment 4 (Scenario – Losses). This treatment shares with treatment 1 the feature that the information is presented frames as losses. However, there is a key difference given by the fact that information is not presented as expected values but disaggregated for the scenarios of suffering and not suffering the cyberattack. The output page for this treatment is presented in Figure 4. It must be highlighted that in this treatment the subject is provided with all the information required to determine is optimal cybersecurity strategy in terms of her or his utility function and risk attitude. In treatments 1 to 3, such information was not available and the subject is required to decide using only the expected values.

2019.04.30

10



#### Codebook - Experiment 2: Behavioural insights of CYBECO toolbox

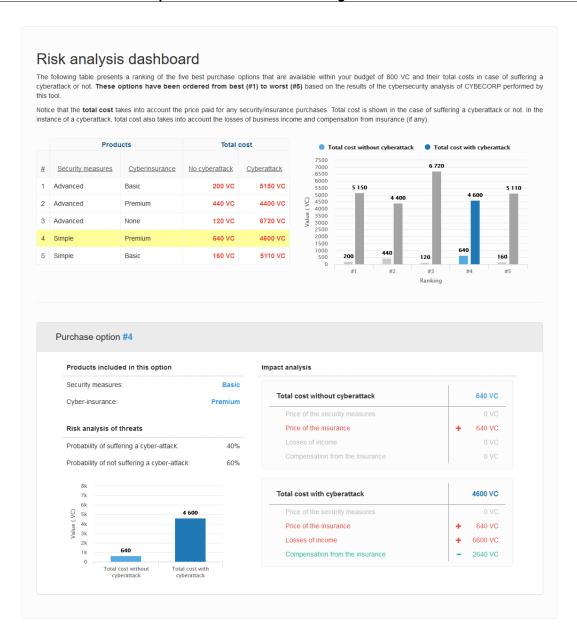


Figure 4. Treatment 4 (Scenarios – Losses)

Treatment 5 (Scenarios - Gains). This output page in this treatment, shown in Figure 5, is like that of treatment 2, with the difference that the information is framed as gains instead of as losses.

CYBECO-WP6-C2-v0.1-TREK

2019.04.30

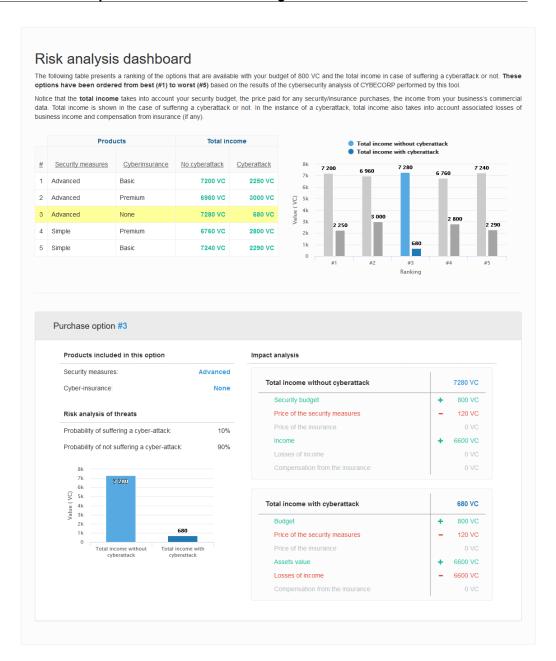


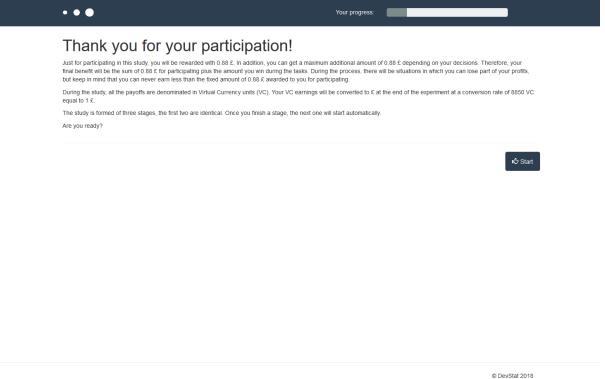
Figure 5. Treatment 5 (Scenarios - Gains)

CYBECO-WP6-C2-v0.1-TREK

Final 2019.04.30 12

Codebook - Experiment 2: Behavioural insights of CYBECO toolbox

# 3 Screenshots of the experimental software



© DevStat

Figure 6. Welcome page



CYBECO-WP6-C2-v0.1-TREK

2019.04.30

### Codebook - Experiment 2: Behavioural insights of CYBECO toolbox

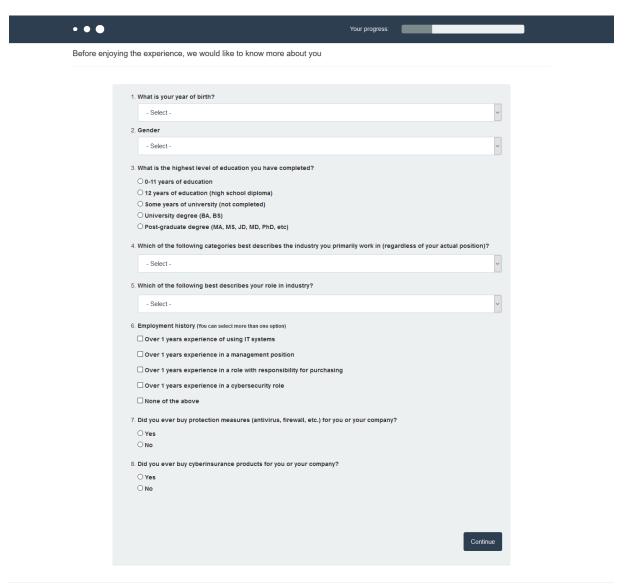


Figure 7. Socio-demographic questionnaire



Reference Version Date Page

CYBECO-WP6-C2-v0.1-TREK

2019.04.30

#### Codebook - Experiment 2: Behavioural insights of CYBECO toolbox

• • • Your progress:

#### Stage 1

You are the cybersecurity manager of a small business, called CYBECORP. You are aware that there is a computer virus going around the Internet, that may affect your company. You know that 60% of companies like yours have suffered this virus attack in the last week.

We will now ask you to make some decisions that will affect the cybersecurity of CYBECORP.

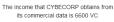
Read the following instructions in detail and press "Continue" when you are ready.

Note: You do not need to have any knowledge about computer systems or cybersecurity to complete the study. There are no right or wrong answers please just answer honestly. Whatever the result, you are guaranteed a minimum of the fixed participation rate at the end of the study.

#### 1. Initial State

Your initial state is the following:







You have a budget of 800 VC to buy security measures



The probability that CYBECORP is randomly affected by the virus is 60%

#### 2. Risk analysis tool

On the next page, you will be given the opportunity to use our Risk Analysis Tool to help you to decide the cyber-protection strategy for your company.

#### 3. Purchase of security measures

After you have used the Risk Analysis Tool, you will have the opportunity to spend some of your budget on purchasing security measures and/or insurance against cyber-attacks.

#### 4. Results

Finally, CYBECORP may suffer a cyberattack (the probability of which is affected by your decisions) and you will be presented with your resulting payoff. There are two possible scenarios:



CYBECORP does not suffer any cyberattack and maintains the income obtained from its commercial data. Therefore, your payout will be 6600 VC of the CYBECORP income plus what you have left of your budget.



CYBECORP suffers a cyberattack and loses all income from its commercial data. Therefore, your payout will be what you have left of your budget plus the amount you have insured (if you chose to buy insurance).

Continue

Figure 8. Stage 1 instructions



CYBECO-WP6-C2-v0.1-TREK Final

2019.04.30

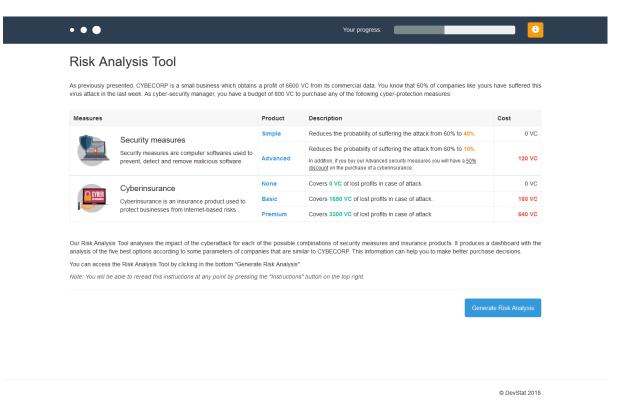


Figure 9. Risk analysis tool explanation

CYBECO-WP6-C2-v0.1-TREK Final

2019.04.30 16

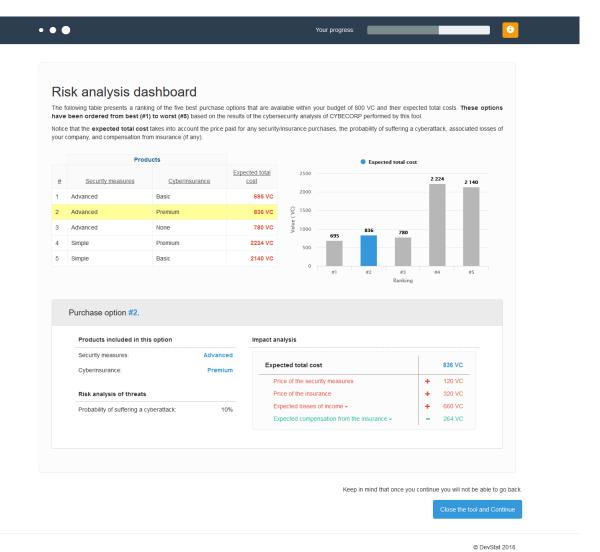


Figure 10. Treatment 1 - Risk analysis tool



CYBECO-WP6-C2-v0.1-TREK

2019.04.30

#### Codebook - Experiment 2: Behavioural insights of CYBECO toolbox

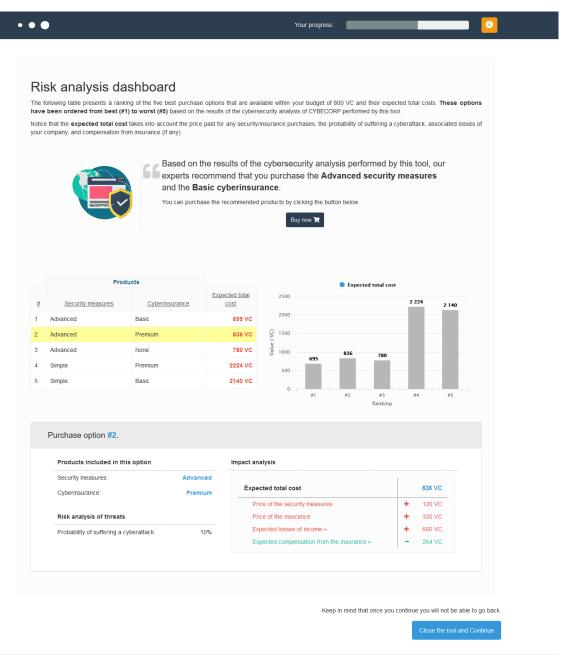


Figure 11. Treatment 2 - Risk analysis tool

CYBECO-WP6-C2-v0.1-TREK

2019.04.30

### Codebook - Experiment 2: Behavioural insights of CYBECO toolbox

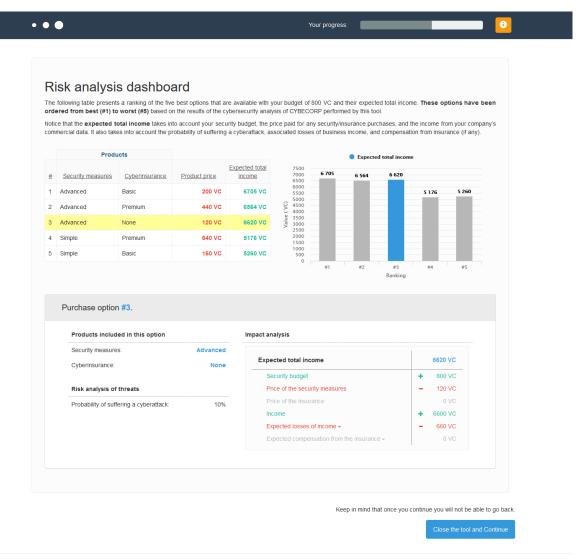


Figure 12. Treatment 3 - Risk analysis tool



CYBECO-WP6-C2-v0.1-TREK Final

2019.04.30

### Codebook - Experiment 2: Behavioural insights of CYBECO toolbox

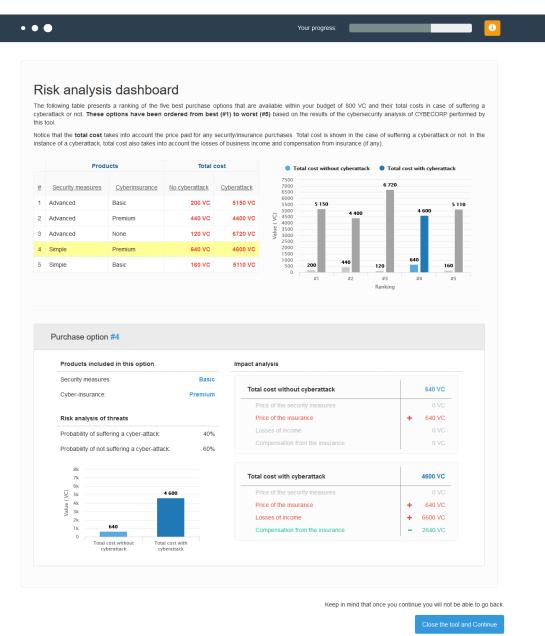


Figure 13. Treatment 4 - Risk analysis tool



CYBECO-WP6-C2-v0.1-TREK Final

> 2019.04.30 20

### Codebook - Experiment 2: Behavioural insights of CYBECO toolbox

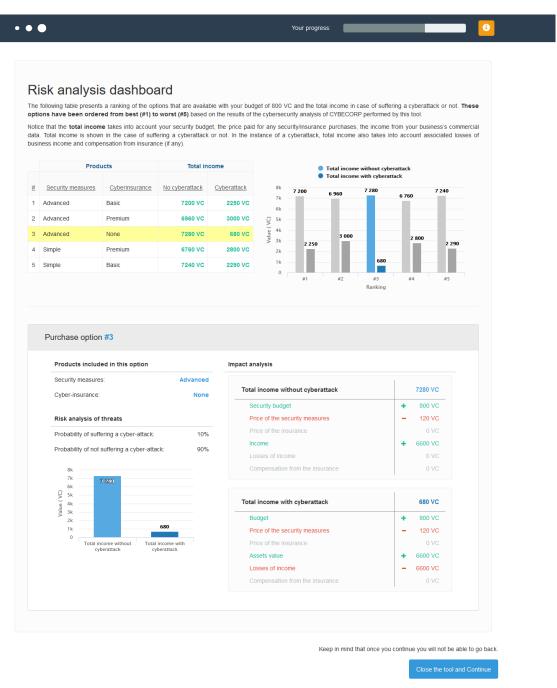


Figure 14. Treatment 5 - Risk analysis tool



CYBECO-WP6-C2-v0.1-TREK

2019.04.30

#### Codebook - Experiment 2: Behavioural insights of CYBECO toolbox



Figure 15. Cybersecurity shop



Reference Version Date Page CYBECO-WP6-C2-v0.1-TREK Final

2019.04.30 22

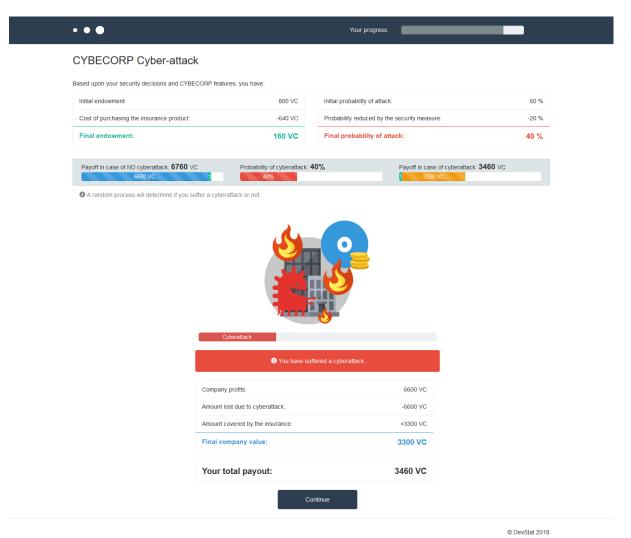


Figure 16. Cyberattack simulation



Reference : Version : Date :

Page

CYBECO-WP6-C2-v0.1-TREK

2019.04.30 23

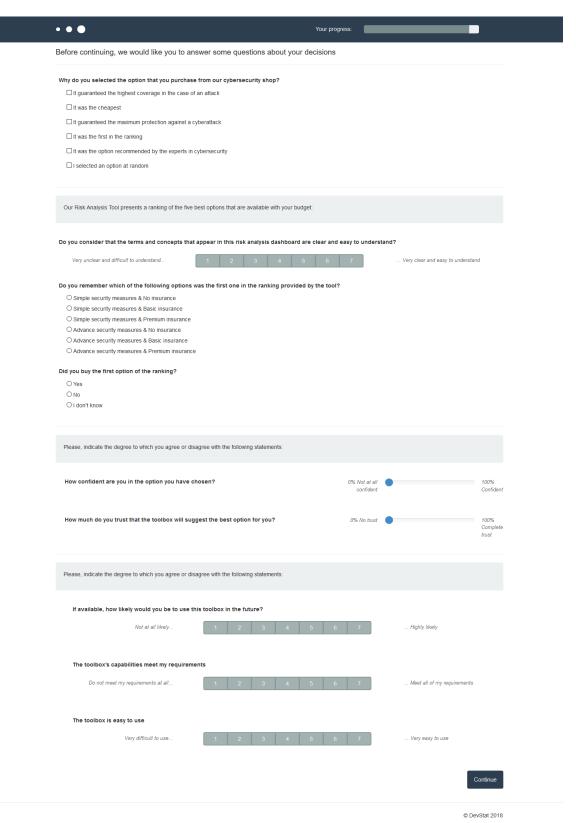
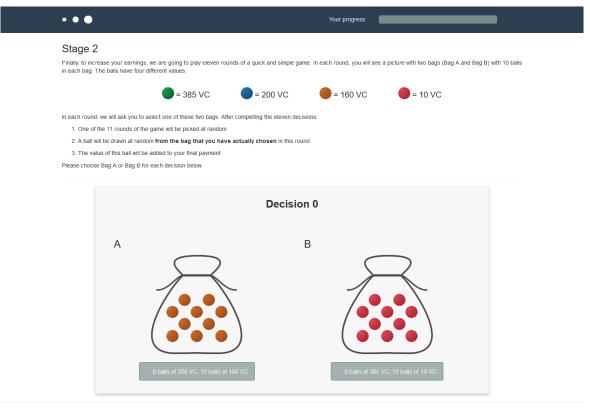


Figure 17. Usability questionnaire



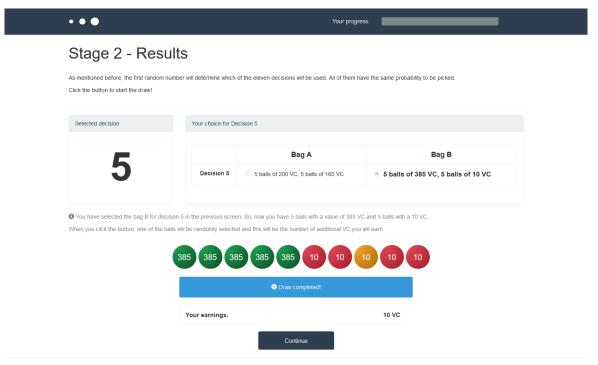
CYBECO-WP6-C2-v0.1-TREK

2019.04.30 24



© DevStat 201

Figure 18. Stage 2: Holt & Laury



© DevStat 2018

Figure 19. Stage 2 results





Figure 20. Final questionnaire



CYBECO-WP6-C2-v0.1-TREK Final

2019.04.30 26

### Codebook - Experiment 2: Behavioural insights of CYBECO toolbox

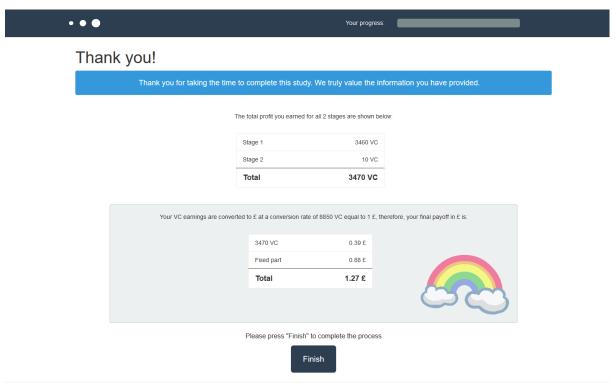


Figure 21. End page



# 4 Description of the variables in the dataset

The description of the variables included in the dataset collected during the Experiment 1 is presented in the tables of the following subsections.

## 4.1 Subject

Variable	Description
Subject	Subject ID
Country	Subjects' country DE: Germany ES: Spain UK: United Kingdom PL: Poland
Treatment	Treatment (see Section 2.1)  1: Expected – Losses  2: Expected – Losses – Salience  3: Expected – Gains  4: Scenario – Losses  5: Scenarios – Gains

# 4.2 Socio-demographic questionnaire

A1	What is your year of birth?
A2	Gender
	1: Male
	2: Female
A3	What is the highest level of education you have completed?
	1: 0 -11 years of education
	2: 12 years of education (high school diploma)
	3: Some years of university (not completed)
	4: University degree (BA, BS)
	5: Post-graduate degree (MA, MS, JD, MD, PhD, etc)
	6: Employment situation Self-employed
	7: Public/Private worker
	8: Unemployed



CYBECO-WP6-C2-v0.1-TREK Final

2019.04.30

#### Codebook - Experiment 2: Behavioural insights of CYBECO toolbox

- 9: Housewife/Househusband
- 10: Student
- 11: Retired
- 12: Other (rent perceiver, public or private aid)

A4

Which of the following categories best describes the industry you primarily work in (regardless of your actual position)?

- 1: Software
- 2: Telecommunications
- 3: Information Services and Data Processing
- 4: Computer and Electronics Manufacturing
- 5: Finance and Insurance
- 6: Agriculture, Forestry, Fishing and Hunting
- 7: Utilities
- 8: Wholesale
- 9: Transportation and Warehousing
- 10: Broadcasting
- 11: Other Information Industry
- 12: Real Estate, Rental and Leasing
- 13: Primary/Secondary (K-12) Education
- 14: Health Care and Social Assistance
- 15: Hotel and Food Services
- 16: Legal Services
- 17: Homemaker
- 18: Religious
- 19: Mining
- 20: Construction
- 21: Other Manufacturing
- 22: Retail
- 23: Publishing
- 24: College, University, and Adult Education
- 25: Other Education Industry
- 26: Arts, Entertainment, and Recreation
- 27: Government and Public Administration
- 28: Scientific or Technical Services
- 29: Military
- 30: Other Industry

CYBECO-WP6-C2-v0.1-TREK Final 2019.04.30

29

	1: Upper Management 2: Middle Management 3: Junior Management 4: Administrative Staff 5: Support Staff 6: Student 7: Trained Professional 8: Skilled Laborer 9: Consultant 10: Temporary Employee 11: Researcher 12: Self-employed/Partner 13: Other
A6a	Employment history - Over 1 years experience of using IT systems 0: No 1: Yes
A6b	Employment history - Over 1 years experience in a management position 0: No 1: Yes
A6c	Employment history - Over 1 years experience in a role with responsibility for purchasing 0: No 1: Yes
A6d	Employment history - Over 1 years experience in a cybersecurity role 0: No 1: Yes
A6e	Employment history - None of the above 0: No 1: Yes
A7	Did you ever buy protection measures (antivirus, firewall, etc.) for you or your company?  0: No  1: Yes
A8	Did you ever buy cyberinsurance products for you or your company?  0: No



1: Yes

## 4.3 Phase 1

Toolbox interaction and purchase decisions.

Direct	Press the toolbox button of direct purchase <sup>2</sup> 0: Basic security measures 1: Advance security measures
Clicks	Sequence of toolbox rows clicked by the subject, separated by ","
SecurityMeasures	Security measures purchased by the subject  1: Simple security measures  2: Advance security measures
Insurance	Cyberinsurace contracted by the subject  1: None cyberinsurance  2: Basic cyberinsurance  3: Premium cyberinsurance
Attack	If subject's company suffers a cyberattack  0: No  1: Yes

# 4.4 Usability test

U01a	Why do you selected the option that you purchase from our cybersecurity shop?  It guaranteed the highest coverage in the case of an attack  0: No  1: Yes
U01b	Why do you selected the option that you purchase from our cybersecurity shop?  It was the cheapest  0: No  1: Yes
U01c	Why do you selected the option that you purchase from our cybersecurity shop?

<sup>&</sup>lt;sup>2</sup> Only available in Treatment 2.

Reference Version Date Page

CYBECO-WP6-C2-v0.1-TREK

2019.04.30

#### Codebook - Experiment 2: Behavioural insights of CYBECO toolbox

It guaranteed the maximum protection against a cyberattack 0: No 1: Yes U01d Why do you selected the option that you purchase from our cybersecurity shop? It was the first in the ranking 0: No 1: Yes U01e Why do you selected the option that you purchase from our cybersecurity shop? It was the option recommended by the experts in cybersecurity 0: No 1: Yes U01f Why do you selected the option that you purchase from our cybersecurity shop? I selected an option at random 0: No 1: Yes U02 Do you consider that the terms and concepts that appear in this risk analysis dashboard are clear and easy to understand? Very unclear and difficult to understand 1 2 3 4 5 6 7 Very clear and easy to understand U03 Do you remember which of the following options was the first one in the ranking provided by the tool? 1: Simple security measures & No insurance 2: Simple security measures & Basic insurance 3: Simple security measures & Premium insurance 4: Advance security measures & No insurance 5: Advance security measures & Basic insurance 6: Advance security measures & Premium insurance U04 Did you buy the first option of the ranking? 1: Yes 2: No 3: I don't know

U05a

Why did you not select the first option in the ranking provided by the tool? (If U04 = "No")

Options were ranked with no special criterion

0: No

Version Date Page

Reference : CYBECO-WP6-C2-v0.1-TREK Final 2019.04.30

32

	1: Yes
U05b	Why did you not select the first option in the ranking provided by the tool? (If U04 = "No")  The first option was to expensive  0: No  1: Yes
U05c	Why did you not select the first option in the ranking provided by the tool? (If U04 = "No")  The insurance in first option did not provide enough coverage  0: No  1: Yes
U05d	Why did you not select the first option in the ranking provided by the tool? (If U04 = "No")  The protection measures in the first option were not safe enough 0: No 1: Yes
U05e	Why did you not select the first option in the ranking provided by the tool? (If U04 = "No")  I do not understand the criterion of the ranking  0: No  1: Yes
U06	How confident are you in the option you have chosen?  Not at all confident 0%   100% Confident
U07	How much do you trust that the toolbox will suggest the best option for you?  No trust 0%   100% Complete trust
U08	If available, how likely would you be to use this toolbox in the future?  Not at all likely 1 2 3 4 5 6 7 Highly likely
U09	The toolbox's capabilities meet my requirements  Do not meet my requirements at all 1 2 3 4 5 6 7 Meet all of my requirements
U10	The toolbox is easy to use  Very difficult to use 1 2 3 4 5 6 7 Very easy to use



Reference Version Date Page

CYBECO-WP6-C2-v0.1-TREK Final 2019.04.30

#### Codebook - Experiment 2: Behavioural insights of CYBECO toolbox

#### 4.5 Phase 2

Holt & Laury risk aversion questionnaire.

Decisi	
200101	0110

1: Bag A – 0 balls of 200VC, 10 balls of 160VC

Risk0 2: Bag B – 0 balls of 385VC, 10 balls of 10VC

Decision 1

1: Bag A - 1 balls of 200VC, 9 balls of 160VC

2: Bag B – 1 balls of 385VC, 9 balls of 10VC

Decision 2

1: Bag A – 2 balls of 200VC, 8 balls of 160VC

*Risk2* 2: Bag B – 2 balls of 385VC, 8 balls of 10VC

Decision 3

1: Bag A – 3 balls of 200VC, 7 balls of 160VC

2: Bag B – 3 balls of 385VC, 7 balls of 10VC

Decision 4

1: Bag A – 4 balls of 200VC, 6 balls of 160VC

2: Bag B – 4 balls of 385VC, 6 balls of 10VC

Decision 5

1: Bag A – 5 balls of 200VC, 5 balls of 160VC

*Risk5* 2: Bag B – 5 balls of 385VC, 5 balls of 10VC

Decision 6

1: Bag A – 6 balls of 200VC, 4 balls of 160VC

Risk6 2: Bag B – 6 balls of 385VC, 4 balls of 10VC

Decision 7

1: Bag A – 7 balls of 200VC, 3 balls of 160VC

Risk7 2: Bag B – 7 balls of 385VC, 3 balls of 10VC

Decision 8

1: Bag A – 8 balls of 200VC, 2 balls of 160VC

Risk8 2: Bag B – 8 balls of 385VC, 2 balls of 10VC

Decision 9

1: Bag A – 9 balls of 200VC, 1 balls of 160VC

2: Bag B – 9 balls of 385VC, 1 balls of 10VC

CYBECO-WP6-C2-v0.1-TREK Final 2019.04.30

34

#### Codebook - Experiment 2: Behavioural insights of CYBECO toolbox

Decision 10

1: Bag A - 10 balls of 200VC, 0 balls of 160VC

Risk10 2: Bag B – 10 balls of 385VC, 0 balls of 10VC

# 4.6 Final questionnaire

Q1a	If my online data/accounts were hacked, it would be severe Strongly disagree 1 2 3 4 5 Strongly agree
Q2a	My online data/accounts are at risk of being compromised Strongly disagree 1 2 3 4 5 Strongly agree
Q2b	It is likely that my online data/accounts will be breached Strongly disagree 1 2 3 4 5 Strongly agree
Q2c	It is possible that my online data/accounts will be compromised Strongly disagree 1 2 3 4 5 Strongly agree
Q3a	Insurance is an effective method to protect against loss Strongly disagree 1 2 3 4 5 Strongly agree
Q3b	Insurers can be trusted to pay out in the event of a claim Strongly disagree 1 2 3 4 5 Strongly agree
Q4a	I feel comfortable taking measures to secure my own computer(s) Strongly disagree 1 2 3 4 5 Strongly agree
Q4b	I feel comfortable taking security measures to limit the threat to other people and the Internet in general Strongly disagree 1 2 3 4 5 Strongly agree
Q4c	Taking the necessary security measures is entirely under my control Strongly disagree 1 2 3 4 5 Strongly agree
Q4d	I have the resources and the knowledge to take the necessary security measures Strongly disagree 1 2 3 4 5 Strongly agree
Q4e	Taking the necessary security measures is easy Strongly disagree 1 2 3 4 5 Strongly agree
Q5a	Insurance is financially costly for me Strongly disagree 1 2 3 4 5 Strongly agree

CYBECO-WP6-C2-v0.1-TREK Final 2019.04.30

35

Q5b	Setting up insurance would require too much from me Strongly disagree 1 2 3 4 5 Strongly agree
Q5c	Insurance is burdensome for me Strongly disagree 1 2 3 4 5 Strongly agree
Q5d	Insurance is time consuming for me Strongly disagree 1 2 3 4 5 Strongly agree
Q5e	Insurance is not worth it Strongly disagree 1 2 3 4 5 Strongly agree
Q5f	Claiming on insurance could harm a business/organisations reputation Strongly disagree 1 2 3 4 5 Strongly agree
Q6a	Insurance is a good idea Strongly disagree 1 2 3 4 5 Strongly agree
Q6b	Insurance is important Strongly disagree 1 2 3 4 5 Strongly agree
Q6c	I like the idea of taking out insurance to protect me Strongly disagree 1 2 3 4 5 Strongly agree
Q7a	People who are important to me think that I should have insurance Strongly disagree 1 2 3 4 5 Strongly agree
	Which of the following have you had in the last 12 months: Buildings Insurance 0: No
Q8a	1: Yes  Which of the following have you had in the last 12 months:
Q8b	Contents Insurance 0: No 1: Yes
Q8c	Which of the following have you had in the last 12 months: Flood Insurance 0: No 1: Yes
Q8d	Which of the following have you had in the last 12 months: Health Insurance



Reference Version Date Page CYBECO-WP6-C2-v0.1-TREK Final 2019.04.30

#### Codebook - Experiment 2: Behavioural insights of CYBECO toolbox

0: No

1: Yes

Which of the following have you had in the last 12 months:

Cyber Insurance

0: No

*Q8e* 1: Yes

Which of the following have you had in the last 12 months:

Vehicle Insurance

0: No

*Q8f* 1: Yes

*Q9* How many insurance claims have you experienced in the past 12 months?

Safety first

Q10a Totally disagree 1 2 3 4 5 6 7 8 9 Totally agree

I do not take risks with my health

Q10b Totally disagree 1 2 3 4 5 6 7 8 9 Totally agree

I prefer to avoid risks

Q10c Totally disagree 1 2 3 4 5 6 7 8 9 Totally agree

I take risks regularly

Q10d Totally disagree 1 2 3 4 5 6 7 8 9 Totally agree

I really dislike knowing what is going to happen

Q10e Totally disagree 1 2 3 4 5 6 7 8 9 Totally agree

I usually view risks as a challenge

Q10f Totally disagree 1 2 3 4 5 6 7 8 9 Totally agree

I view myself as a...

Q10g Risk avoider 1 2 3 4 5 6 7 8 9 Risk seeker

I am likely to purchase cyber insurance

Q11a Strongly disagree 1 2 3 4 5 strongly agree

Q12 What would influence your decision to buy cyberinsurance?