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Appendix

- 1. Informed Consent
- 2. CHOCO-FINE: Factory for fine Chocolates: Introduction and Directions for Using the Computer Program
- 3. 3 Self-reflective Questions
- 4. Personality Questionnaire
- 5. <u>Demographic Questionnaire</u>
- 6. Computer and Gaming Experience

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Informed Consent Form fo	r "Improving Decision Making"
The University of North Florida invites you to participat are 18 years of age or older. The experiment will take a FINE (2.5 hours), you will be asked to answer surveys re experience, and personality characteristics.	. , , ,
The purpose of the experiment is to explore how peopl situation. This is a timely issue because many schools a nowadays. Participating in this study may provide an or with your course instructor to determine if participation course. There will be no compensation for participation instructor allows it.	pportunity to learn problem solving skills. Please check n qualifies as a means of obtaining extra credit in their
this sheet of paper will not be connected to any of the a number that will be used to mark your computer and you in any way. There is only minimal risk for this exper routine experiences in daily life. If you have any questic Christoph Dominik Güss by phone: (904) 620-1634 or e your rights as a volunteer in this research project, pleas Board, (904) 620-2498. If you need help, feel free to co hours of operation of the UNF counseling center are as	the researcher's locked lab. Furthermore, your name on data collected during your session. You will be assigned survey data, and this number will not be connected to iment, i.e. experiences in this study are similar to ons about this experiment, feel free to contact Dr.—mail: dguess@unf.edu. If you have questions about the contact Dr. Katherine Kasten, UNF Institutional Review natct the Counseling Center. During Spring and Fall, the follows: Monday and Thursday from 8:00 a.m. to 7:00 5:00 p.m. The UNF Counseling Center is located in Bldg
benefits to which you are otherwise entitled. If you fee	Refusal to participate will involve no penalty or loss of uncomfortable, you may discontinue participation at fits. If you chose to participate, please write your name
Potential participants who have limited decision-making study because there is not significant direct benefit for the variables being studied in this research study. There individuals who have limited decision-making capabiliti participate in this study. Participants must be at least 18	those individuals. Cognitive decision-making is one of effore, there is not significant direct benefit for es and these individuals will not be permitted to
Thank you for your participation in this experiment.	
I. (write legibly in block)	, agree to participate in the

Date: _____

Date: _____

"Improving Decision Making" experiment.

Signature:

Experimenter: _____

Participant Nr.:	Date:

CHOCO-FINE: Factory for fine Chocolates

Introduction and Directions for Using the Computer Program

In this scenario, you take the role of a manager of a small chocolate factory called "CHOCO-FINE". CHOCO-FINE is a small company with a total of about 50 employees, 30 of them working in production. The company produces 8 different types of chocolates: Milk, Bitter, Yoghurt, Nougat, Raisin, Mocha, Nut, and Marzipan.

To make it brief, it is your task to lead the company successfully; That means that (a) you have to plan the production in line with the market and cost-effectively, and (b) that you arrange marketing, advertisement, and sales in such a way that your sales volume increases. CHOCO-FINE is located in Vienna and solely works in the Vienna market region. And another simplification: In the world of CHOCO-FINE, a month has 20 days – 4 weeks with each 5 work days. You have to make your decisions for the whole month always on the first day of the month. The handling of the program seems confusing only at first sight. You will learn very fast, where you can find the desired information and how you can implement your decisions. The user interface of the program consists of three screens, i.e. (1) the main screen which you see when the program starts, (2) the "production screen" (when you click "production" or press F8), and (3) the "marketing screen" (when you click "marketing" or press F7)



1. Main screen: Here, you can see basic data and information. In the upper big graph, you see the development of production, demand, and sales. Below, you see the account balance. In the upper right

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corner you can see (if you look very fast) the deliveries per day; below, you see the stock of inventory. The stock of inventory is shown in light blue (left ordinate in 100,000); open orders are shown in green (right ordinate in 1,000).

In the three windows in the lower part, one has the option to look at plenty of data which might be relevant for making decisions: Costs, production, sales, raw material, etc. By selecting a month in the left window, you can go back to data from previous months. With the control panel on the lower right side, you switch to the other two screens and -importantly- let the simulation run. Please only click on "Continue" (or F9) once you have made all necessary entries.

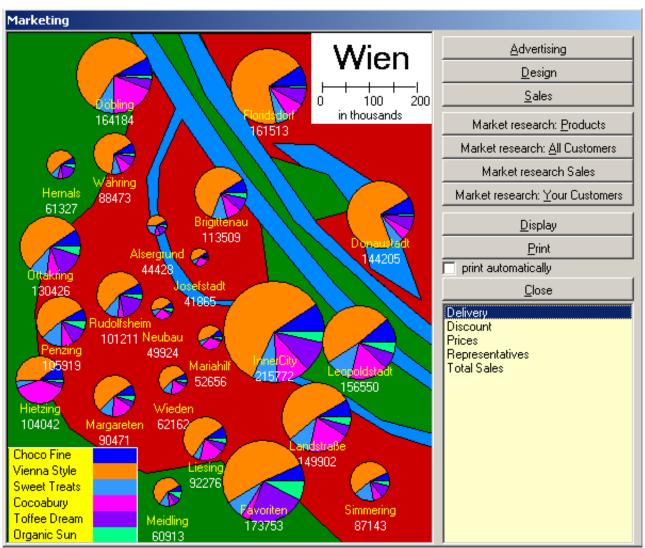
2. The production screen: Here you can see six machines, their capacities per half day, which kinds of chocolates can be produced on each of them, and the 20 work days of the month, divided in two half days. You can change the allocation of the machines by clicking on the desired kind of chocolate on the right side of the screen and then by clicking on the corresponding half day fields. By selecting the bar for the whole week, the production is switched to the desired chocolate for the whole week. When you switch production to another type of chocolate, a half day conversion time (grey) is necessary – during this half day, nothing is produced. You should try to operate the production in such a way that the demands can be accommodated. Of course, the amount of the chocolates as well as the types of chocolates desired changes during the course of a year.



3. Marketing screen: In this screen, you can see a stylized map of Vienna with the different districts/counties and quarters shown in pie charts. The size of the pie corresponds with the size of the local market; the parts of the pie represent the market shares of the different manufacturers (CHOCO-FINE is shown in blue). You see immediately that Vienna Style is in most districts the market leader.

The right part of the window provides you with several possibilities to gather information or to make decisions. From the top to the bottom: "Delivery", "Discount", "Prices", etc. Produce lists with specific data for the different districts. "Prices" shows also the prices of the competitors' products. That is why this function is related with moderate costs. In the bar "Market research", you can request information about the market (with costs). "Market research: Products" allows the study of the product profiles of all competitors. You can see if a specific kind of chocolate is sold because of its price or because it is regarded as especially "healthy", "young",

luxurious", etc. or if it exists in special forms (e.g., as bunny or as Santa Claus) or if it is sold with attached addon items (e.g., small toys). "Marked research: All Customers" shows which group of buyers prefer which characteristics of chocolates. "Marked research Sales" shows in detail which competitor sold how many pieces of which product in which district. "Marked research: All Customers" shows how many people of which group of buyers live in which district.



Decisions can be implemented through the upper three buttons *Advertising*, *Design* and *Sales*. *Advertising* allows you to do specific advertising for specific products for specific groups of buyers and of course, it allows you to change specific characteristics of your products. *Design* allows you to change the design or the packaging of your chocolates. Of course, these decisions involve costs. Under *Sales*, you can distribute the activities of your 10 sales representatives in the specific districts, and you can hire additional sales representatives or you can fire some of them. You can buy new trucks for the transport of your goods and you can define new prices (which are valid for all districts), or you can allocate discounts (for specific districts).

Just try the different possibilities, and you will easily understand the logic of handling the system.

Here is some additional information:

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• Four workers are dealing with each machine. The hourly wage per worker is \$25,- pre-tax which is \$4,000, - per month. Truck drivers earn the same.

- Sales representatives earn \$5.000, per month.
- Each machine needs per half day energy amounting to \$50, -.
- There is no inflation.
- For chocolates, which are especially luxuriously or ecologically styled the production costs increase by 5%. For especially healthy products the price increases by 10%.
- The production/manufacturing costs for each product contain the machine operating costs, the personnel costs operating the machines, and the costs for raw materials. The costs for the central administration/business management (ca. \$23.000,- per month), interest, special charges, advertising expenses etc. are not included in these costs.
- For the factory, you only have to pay sales tax of 10%.
- The rate for interest on debt is currently 8%, the rate for interest on assets is 3%.

And now: Good luck for working on CHOCO-FINE! You will now manage the company in the next 2 hours for 24 months.

Participant Nr.:	Date:
<u>3 Self-re</u>	flective Questions
What did I do well?	
What can I do better?	
How can I use the Decision-Making ste	ps more effectively?

Participant Nr.:	

Date:			

Personality Questionnaire

	1	2	3	4		5			6		
	ongly agree	disagree	somewhat	disagree	agr	ee agr		omev	vhat	agı	strongly
uis	agree	disagree				иді	CC			чъ	
1)	I don't often t	hink about my tho	ughts.		1	_2	_3	4	_5	_6	_7
2)	I am not reall	y interested in ana	lyzing my behavior.		1	_2	_3	4	_5	_6	_7
3)	I am usually a	aware of my thoug	hts.		1	_2	_3	4	_5	_6	_7
4)	I'm often con	fused about the wa	y that I really feel al	oout things.	1	_2	_3	4	_5	_6	_7
5)	It is importan	t for me to evaluat	e the things that I do).	1	_2	_3	4	_5	_6	_7
6)	I usually have	e a very clear idea	about why I've beha	ved in a certain w	vay 1	2	3		15	5	57
7)	I am very inte	erested in examining	ng what I think abou	t.	1	_2	_3	4	_5	_6	_7
8)	I rarely spend	l time in self-reflec	etion.		1	_2	_3	4	_5	_6	_7
9)	I'm often awa	re that I'm having	a feeling, but I often	don't quite know	wha	at.1	_23	3	4:	5	67
10)	I frequently	examine my feelin	gs.		1	_2	_3	4	_5	_6	_7
11)	My behavior	often puzzles me.			1	_2	_3	4	_5	_6	_7
12)	It is importar	nt to me to try to u	nderstand what my f	eelings mean.	1	_2	_3	4	_5	_6	_7
13)	I don't really	think about why I	behave in the way the	hat I do.	1	_2	_3	4	_5	_6	_7
14)	Thinking abo	out my thoughts m	akes me more confu	sed.	1	_2	_3	4	_5	_6	_7
15)	I have a defin	nite need to unders	tand the way that m	y mind works.	1	_2	_3	4	_5	_6	_7
16)	I frequently t	take time to reflect	on my thoughts.		1	_2	_3	4	_5	_6	_7
17)	Often I find	it difficult to make	sense of the way I f	eel about things.	1	_2	_3	4	_5	_6	_7
18)	It is importar	nt to me to be able	to understand how r	ny thoughts arise	1	_2	_3	4	_5	_6	_7
19)	I often think	about the way I fe	el about things.		1	_2	_3	4	_5	_6	_7
20)	I usually kno	w why I feel the w	ay I do.		1	_2	_3	4	_5	_6	_7

Demographic Questionnaire
Age:
Sex: Male Female
English is my native language? No Yes
My current major is in the college of business: No Yes
What is your current student status? Freshman Sophomore Junior Senior Graduate
What is your cumulative GPA?
I have employment experience above an entry level position? No Yes
What is the socioeconomic status of your home family? Lower class Middle class Upper class Higher upper class Are you? Black White Hispanic or Latino Asian American Other
Computer and Gaming Experience
I feel comfortable using a computer: No 1 2 3 4 5 6 7 Yes
I use a computer: Daily Weekly Less than once per week
On average, how many hours per week do you work with a computer?
I feel comfortable playing a computer game: No 1234567Yes
How many hours per week do you play video games (average)?
When you play or have played video games, what type do or did you play the most? Action/Reflex 1 2 3 4 5 6 7 Strategy/Non-reflex
How many years of experience do you have with productivity programs like Word and Excel?
I am used to using a computer mouse: No 1 2 3 4 5 6 7 Yes

Date: _____

Participant Nr.: