

Enterprise Crowd Funding Game, Part 1

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*** Player 1 ***

Print your name: _____

In crowdfunding, proposers make open calls for support of projects which they wish to be funded and investors—often drawn from the general public—decide how much, if any, funding they wish to give to the project. Normally, if the announced budget of the project is met by investor commitment, then the project goes forward, and if not, not. Kickstarter (<https://www.kickstarter.com/>) and Indiegogo (<https://www.indiegogo.com>) are well-known platforms (businesses, actually) for supporting crowdfunding. More than 100 other platforms for conducting crowdfunding activities are known to exist. Crowdfunding has become a significant part of the startup and innovation scene.

In 2012 IBM conducted the first reported enterprise crowdfunding (ECF) exercise, also known as inter-organizational crowdfunding, in which 511 employees allocated company-provided money on an intranet site for employee-initiated innovation proposals (?). Other firms have since followed suit. This game exercise models such ECF games in which investors are designated by the firm and endowed with a certain amount of real money to allocate to proposed internal projects. If a project receives sufficient funding, the firm promises to carry the project forward.

In this game exercise you will play the role of one of 5 investors endowed with funds by your employer for investing (or not) in a series of proposed projects.

1 Player 1 Instructions

Assume you are an employee in an organization that has implemented enterprise crowdfunding and uses it to involve its employees in the generation and evaluation of ideas for innovation projects. Assume further that you are generally pleased with your job and the organization that employs you. You wish the organization well.

You are now participating in this crowdfunding game within the company as an investor. You are one of 5 people in a group of investors who will evaluate for funding a number of proposed projects. Each employee (player, investor) is endowed with 80 thalers (a unit of currency), which can be used to fund projects from a list of available projects, numbering 10 in all.

Each project has a funding requirement of 100 thalers. That is, each project needs to obtain a total investment of at least 100 thalers for it to go forward to implementation. Further, you have carefully evaluated and scored each of the 10 projects on a scale of 1 to 100 with 100 being the best possible score. That is, the project's score indicates its value to you if the project is funded and goes forward.

When a project does not receive enough funding from the group you do not receive any utility or value. Also, a project that receives total contribution larger than the funding threshold will give you NO additional utility. Thus, for example, if you score 57 on project P, you receive a score or value of 57 if the project is funded (by 100 or more thalers) by the group of five investors and 0 if it does not receive funding (of 100 or more thalers).

You do not have sufficient thalers to fund any single project by your own, let alone any of the projects of most value to you.

You cannot use your thalers for private purposes but you are not forced to spend all your thalers. However, your task here is to allocate your thalers so as to achieve a maximum score or return for yourself. To get a return it is not necessary that you have contributed some of your funds to the funded project. Every single funded project gives you some utility in return. Your task is to allocate your thalers so as to maximize this return to you, given how the 4 other investors have allocated their thalers.

Your utility values or scores for the various projects are aggregations of all monetary and non-monetary effects in one number if a project is fully funded. These utility values include for example a possible facilitation in your work routine, improvement of our company's public image, improvement of your company's competitive standing (job security), and so on. Other employees may have other utility values, values distinct from yours.

During the game, you will need to consider the values and actions of the other players, as well as your own situation, when allocating thalers to projects.

Table ?? summarizes the situation. There are 10 projects, P1, P2, ..., P10. Your project scores are indicated in the Project Scores row of the table. The Medians row indicates approximately the medians of the scores of the *other* investors for the respective projects.

Projects:	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10
Project Scores:	5	15	25	35	45	55	65	75	85	95
Medians:	80.0	80.0	50.0	20.0	20.0	30.0	40.0	50.0	60.0	70.0

Table 1: For player 1. Scores: The player's scores or evaluations for the 10 projects. Medians: The approximate medians of the project scores for the other four players.

1.1 Allocation, version 1

Please allocate your 80 thalers (use round sums) freely amongst the projects. Keep in mind that only fully funded projects within your group will give you a reward in return.

Furthermore, overfunded projects give no additional reward to you than exactly fully funded ones.

Each of the other four players in your investor group will undertake the same allocation problem, conditioned on the player's own scores and information in the player's analog of Table ???. You are not allowed to talk to each other. At the end of the experiment you will be informed which projects have been funded and how much reward you receive.

Indicate the allocation of your thalers to the 10 projects. The sum of the allocations must be less than or equal to 80 thalers.

P1 _____

P2 _____

P3 _____

P4 _____

P5 _____

P6 _____

P7 _____

P8 _____

P9 _____

P10 _____

1.2 Allocation, version 2

In this version of the game there are two rounds of allocations. In the first round players may allocate as much or as little of their 80 thalers as they choose. Then, all players see the net results and a second and final allocation round ensues.

Assume that you have allocated 30 of your 80 thalers and that the net results of round 1 are as in Table ??.

Projects:	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10
Project Scores:	5	15	25	35	45	55	65	75	85	95
Medians:	80.0	80.0	50.0	20.0	20.0	30.0	40.0	50.0	60.0	70.0
First round net allocations:	50	35							50	45

Table 2: For player 1. Scores: The player's scores or evaluations for the 10 projects. Medians: The approximate medians of the project scores for the other four players.

Where will you allocate your remaining (up to) 50 thalers?

P1 _____

P2 _____

P3 _____

P4 _____

P5 _____

P6 _____

P7 _____

P8 _____

P9 _____

P10 _____

1.3 Questionnaire

Describe your intentions and reasoning for the *two* (distinct and separate) allocation decisions you made.