WHAT SHOULD THE GOVERNMENT LEARN FROM DESIGN THINKING?

HOW TO DEAL WITH COMPLEX AND COMPICATED PROBLEMS USING EXPERIMETNATION!

INTRODUCTION

In the Netherlands, one of the government bodies solv- While investigating the problem, I noticed there are works, experimenting and setting up processes.

In practice it has been noted by X-lab that innovative ideas are being created with the help of X-lab, but not always successfully carried out in practice. Hence, X-lab is working on improving its methods and processes. A new method they are currently developing is flow design, which is seen as a good fit to solve the present complex problems. However, X-lab encounters problems scaling up the flow design method, therefore it is not practiced by many. I was approached to further investigate this problem.

ing complex problems is the Netherlands Enterprise several underlying problems within flow design that do Agency ('Rijksdienst Voor Ondernemers'; RVO). With- not allow flow design to live up to its full potential to in RVO, X-lab is developing new ways of working to be deal with complex problems. This is mainly because better prepared to deal with these complex problems. after a flow design session no clear actions to solve the In short, X-lab is RVO's internal innovation lab that cre- problem are designed after analysing the problem. ates and collects different frameworks, methods and Based on this insight, I decided to shift the focus of this tools to support policy writers when they solve prob- research towards these underlying problems. Resultlems. They do this by co-creation, developing frame- ing in the following aim of this research: The aim of this research is to deliver a tangible product that enables X-lab to better deal with complex problems, supported by recommendations that are based on a thorough analysis of X-lab and flow design. Since I am a designer experienced in design thinking, the following research question was drafted: Where and how can design thinking support the trajectory of flow design within X-lab RVO?

THE SUPPORT OF DESIGN THINKING

Based on Tuckmann (1972) and Snowden (2007) and mann's norming and performing steps and Snowden's therefore no clear actions to solve the problem are designed after analysing the problem. However, the final flow design process could be improved.

So, flow design doesn't perform all the steps of Tuckmann's model of group development and also not of Snowden's dealing with complex/complicated problems model. The missing steps in flow design are Tuck-

interviews it can be concluded that the full potential probe, sense and response steps for complex probof the current flow design process is not met. First of lems, and Snowden's sense, analyse and response all, because in theory the potential is higher when all steps for complicated problems. The product portfolio steps of the two theories are completed, and second- was designed in such a way that it facilitates that all of ly, because flow design has no tangible outcome and Snowden's and Tuckmann's steps are performed. Furthermore, the validation showed that the product portfolio indeed delivered clear actions to solve the probgoal is to solve the problem, consequently the current lem. Since, the product portfolio has been created with the use of design thinking, namely the methods of the double diamond and frame creation are being applied, I conclude design thinking supports the trajectory of flow design.

NO IDEA IS BORN PERFECT

Why is it important to experiment. When im- 2018) see below. On the other hand, prototypplementing ideas directly or waiting until it is ing helps to identify and test assumptions in an

DECISION-MAKING CANVAS



ready before testing, you overlook one of the early stage without spending a lot of resources, first principles learned as a designer, which is allowing there to be more room for failure. For "no idea is born perfect." Often ideas are based example, building a paper scenario and testing upon assumptions that need to be refined and this with the user may cost you only a few euros, improved. When going directly to implementa- whereas running a full-scale test will cost a lot tion or validation, there is little room for failure more and it might lead to the same outcome. as resources have already been invested (Leurs & Roberts, Playbook for innovation learning



SUPPORTED BY TWO MANUALS

In this sectio I will described the outcome of This canvas helps you decide if you are dealing manual.

Decision-making canvas

This canvas is meant for flow designers and case owners to have clarity in their process. This is done by making explicit which choices there are and what is needed to move on. This canvas starts when a case is entered by a case owner or an X-lab employee and finishes when the product is ready to go towards implementation.

this thesis a decision-making canvas, a pat- with a complex or complicated problem. If you tern discovery manual and a development are dealing with a complicated problem, the decision-making canvas will guide you to use the development manual. When you are dealing with a complex problem, the canvas will guide you first to use the pattern discovery manual and after clear patterns are found it will guide

> In the end, once completed the decision-making canvas, you will end with a (partly) filled in action model.

you to use the development manual.

Figure 2. Manual steps



Look Dokkor	Committee	Dr
		A.
Adapting the processes of a public sector	Company	1
innovation lab with the help of design thinking		J.
31-08-2021		5.
Strategic Product Design		

Faculty of Industrial Design Engineering

r.Ir Tromp .Kim Jenniskens Panacho



Delft University of Technology