ITI8740/ITX8522: Software Development Team Project. 2023

01. Course Introduction

Martin Verrev <u>martin.verrev@taltech.ee</u>

After the course you ...

- 1. ... have an understadning of methods, tools and approaches that can be used when initiating a new startup or in-house project in established organization.
- 2. ... formulated a problem statement and validated it on a real target audience.
- 3. ... built a Minimal Viable Product that solves said problem.

Course Overview

• 12 ECT, autumn 2023

Course workflow

- Weekly team meetings with supervisors.
- Supporting classes.
- Individual mini-assignments.
- (Participting at a hackathon).

A startup is a human institution designed to deliver a new product or service under conditions of extreme uncertanity.

Eric Ries, Lean Startup

fast and cheap. often. Fail in a way Hhat doesn't kill you.

O'REILLY"

RUNNING LEAL Ash Maurya

unin

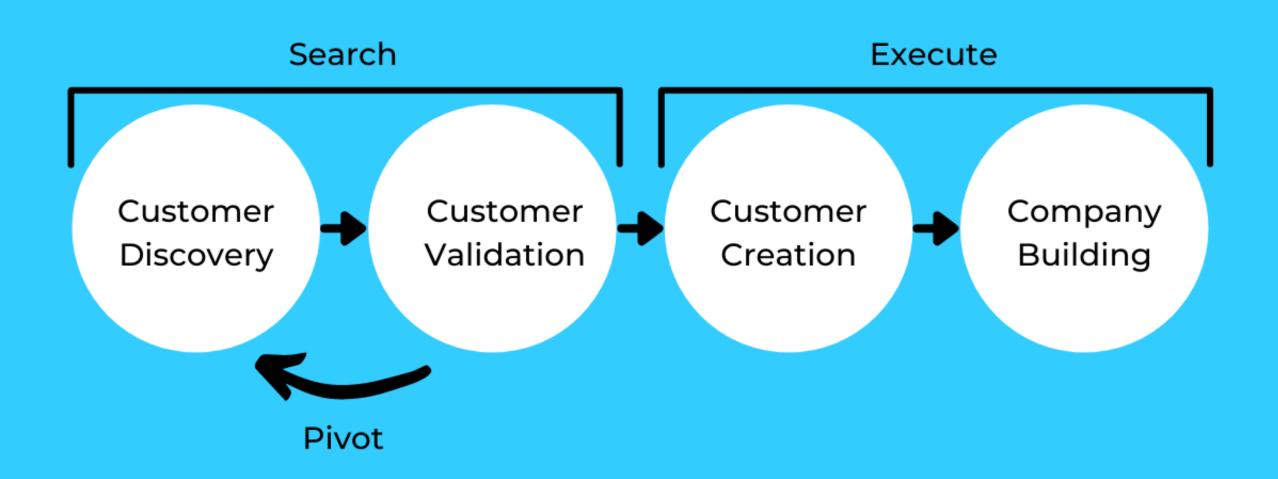
Cómo iterar de un plan A a un plan que funciona



Running Lean: Iterate from Plan A to a Plan That Works

Ash Maruya.

Customer Development Process





Successful problem solving requires finding the right solution to the right problem. We fail more often because we solve the wrong problem than because we get the wrong solution to the right problem.

— Russell L. Ackoff —

AZ QUOTES

Coming up with a good idea

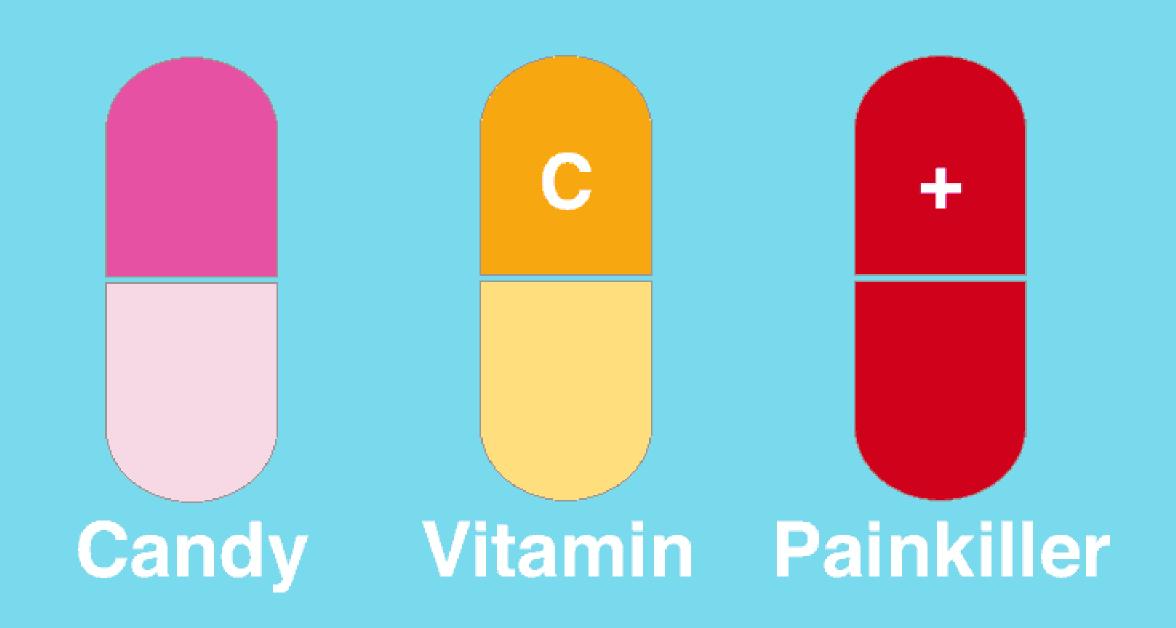
Think about everyday problems in your field ...

- Repeating everyday activities
- Annoying activities
- Tasks requiring a lot of manual work, or prone to error
- Unreasonably slow processes
- Unreasonably expensive solutions or processes

Coming up with a good idea

Think about everyday problems in your field ...

- Also think wider on life and try to have a more general view on things. What can be changed or fixed?
- Raise the level of ambition expand the solution for wider society.
- Use the unfair advantage of your education try to appy the problem statement of your thesis to a real world scenario.



PAINKILLER =	VITAMIN
"Need to have"	"Nice to have"
Solves unmet customer needs	Improves an existing solution
Want to use	Should use
Google Maps Amazon Echo Lyft/Uber	To-Do List Apps Fitness Trackers Nextdoor

https://medium.com/strategy-dynamics/painkillers-vs-vitamins-d3bdc76ddd31

Formulating an idea

- 1. What's the problem you are solving? Write the problem down with one sentence
- 2. **Who's the customer** the profile of the person you are solving the problem for?
- 3. What's the solution for this problem? Write it down with 1-2 sentences.
- 4. Why is the solution special? Different of competitors? Sentence or two.
- 5. **How will it earn money?** Does it have any business potential? Describe the revenue source with a sentence.

Humans understand stories. Most used narrative by startups is the **problem - solution** statement.

During next class we will present the ideas to each other and start building teams. You will have 90 seconds to present your idea.

You already have the structure

- 1. Say Hello, say your name.
- 2. What's the problem?
- 3. What's the solution?
- 4. The special sauce.
- 5. Is there money to be made?
- 6. Say thank you and smile while listening for the applause:)

Just practice a bit - easy!

To Get Started

- Creative thinking how to get out of the box and generate ideas: Giovanni Corazza at TEDxRoma. https://www.youtube.com/watch?v=bEusrD8g-dM
- Think Small to Solve Big Problems, with Stephen Dubner.
 https://www.youtube.com/watch?v=fypkPgeQxBQ
- The art of innovation. Guy Kawasaki, TEDxBerkeley. https://www.youtube.com/watch?v=Mtjatz9r-Vc
- Generating ideas. Shimpei Takahashi, TEDxTokyo.
 https://www.youtube.com/watch?v=ZdJOhgSQJ1Q
- Adam Neumann: How to Find a Problem Worth Solving | Inc. Magazine https://www.youtube.com/watch?v=8NooqQKrdGE

Reading Materials

- Hard Ideas. https://medium.com/entrepreneur-first/hard-ideas-7f815e90d714
- A never-ending list of business ideas and problems to solve https://medium.com/@paulegraves/a-never-ending-list-of-creative-jazzy-business-ideas-6c9782d2d470
- Startup Lesson 1: Vitamin vs. Painkiller.
 https://www.linkedin.com/pulse/startup-lesson-1-vitamin-vs-painkiller-vitaly-pecherskiy/

Thank you!