

An Educational Revolution for a Digital World

Lou Guenier

September 13, 2017

Agenda

A changed world

Agenda

A changed world

Design an educational system

Agenda

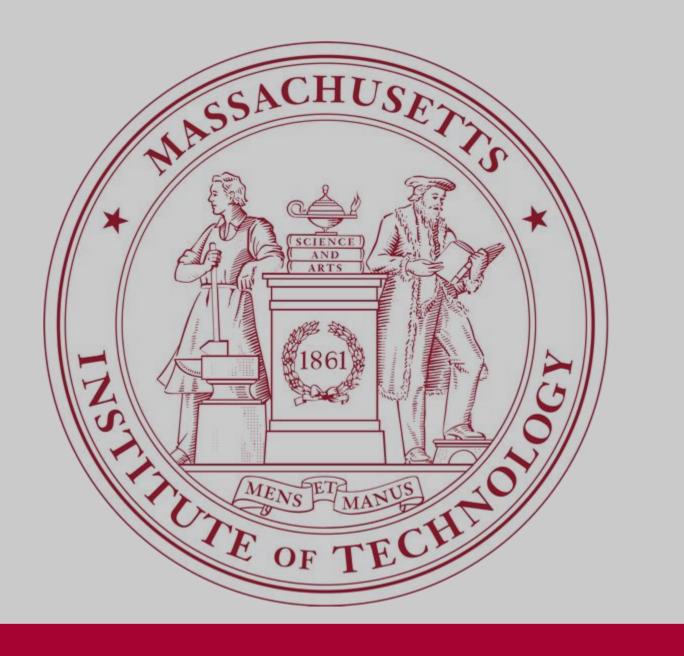
A changed world

Design an educational system

A new educational system









What am I doing at MIT talking about education?





Impact of technology all over the world





More impact on the world



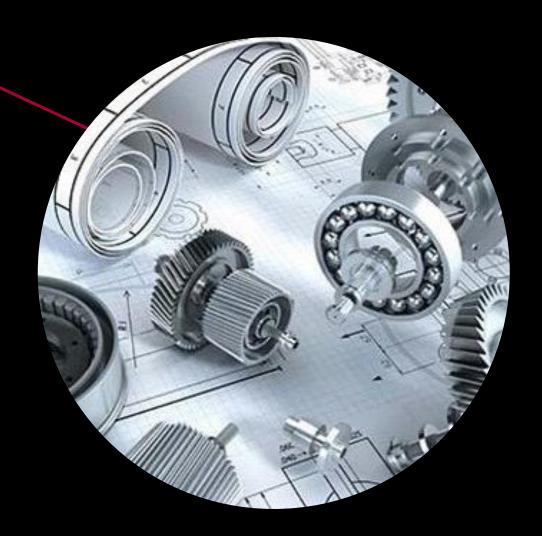


Is that person ready to have such an influence?

Design an educational system

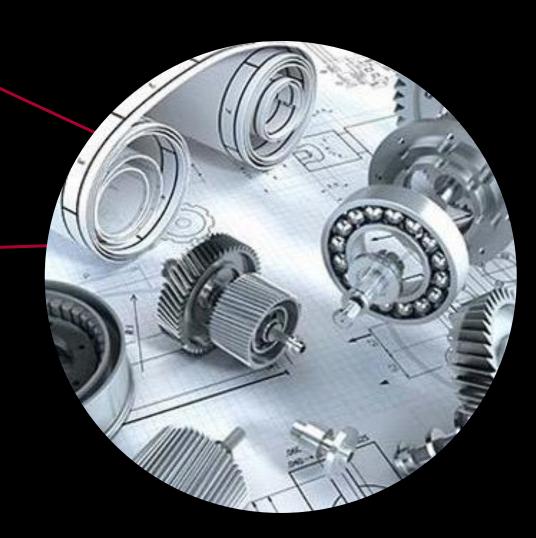


Design an educational system



Design an educational system

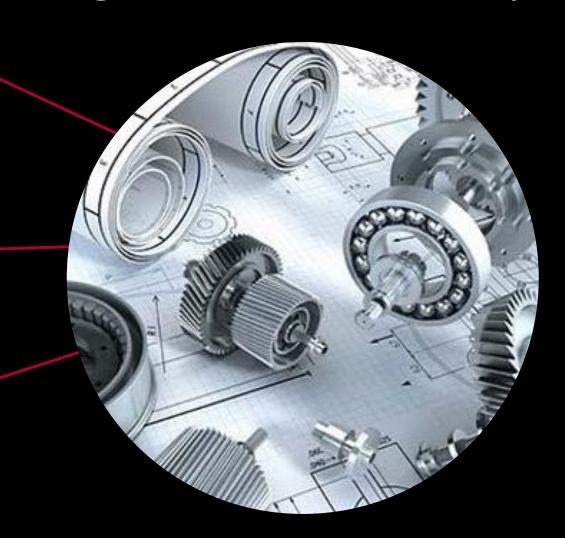
Little global impact



Design an educational system

Little global impact

Tradition & status quo

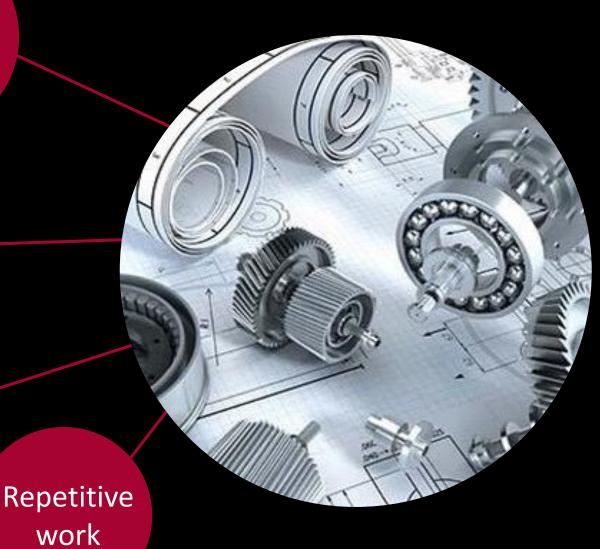


Design an educational system

Little access to information

Little global impact

Tradition & status quo

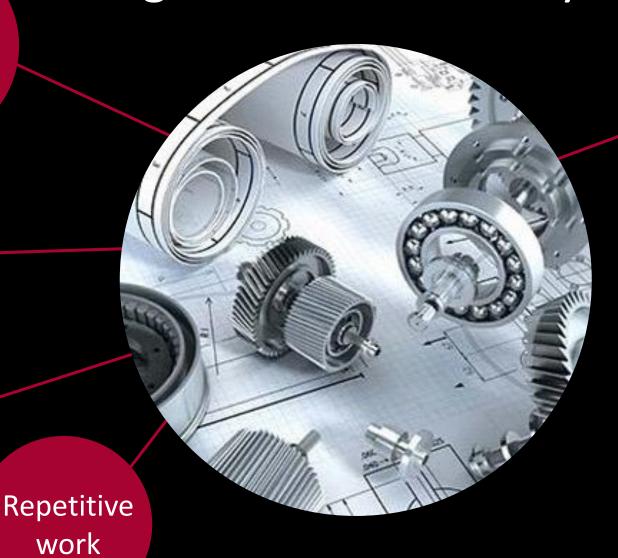


Design an educational system

Solely based on productivity

Little global impact

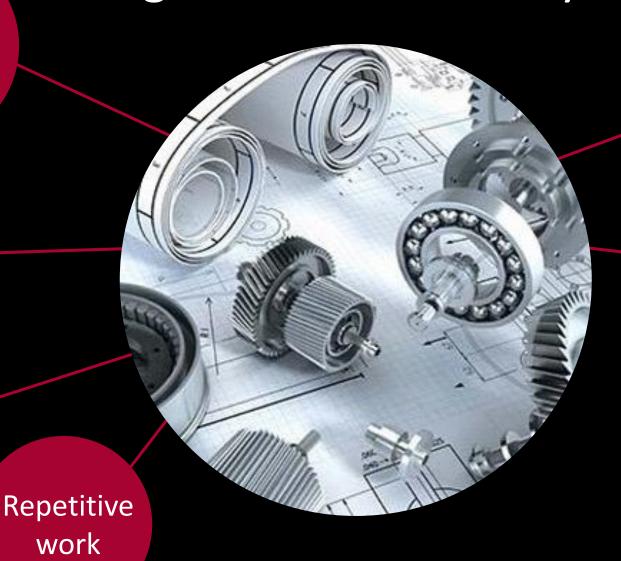
Tradition & status quo



Design an educational system

Little global impact

Tradition & status quo



Solely based on productivity

Driven mostly by competition

Design an educational system

Little global impact

Tradition & status quo



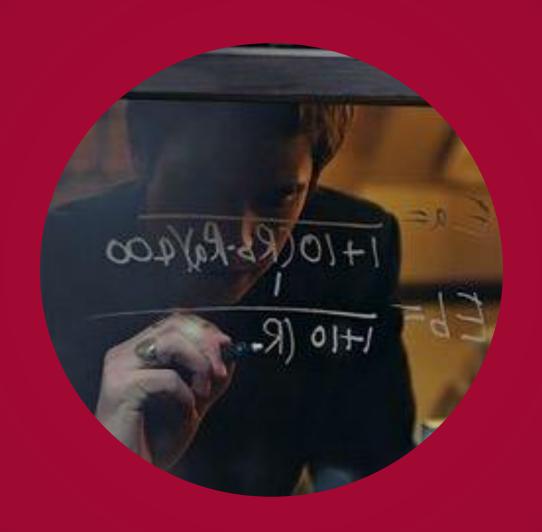
Solely based on productivity

Driven mostly by competition

Elite

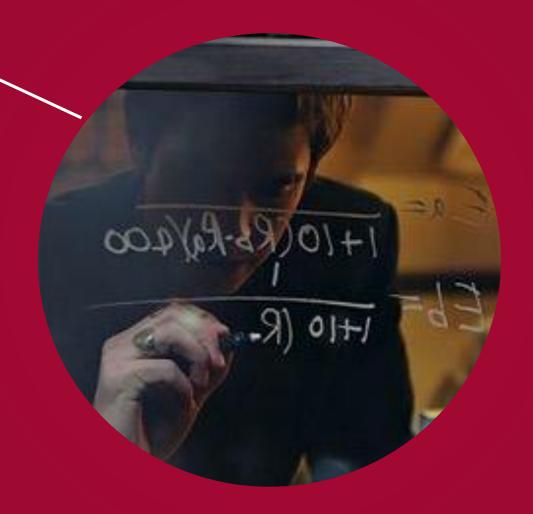


Design an educational system



Constant access to information

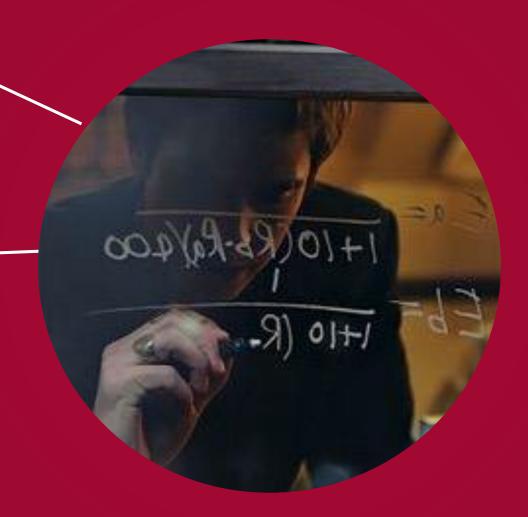
Design an educational system



Design an educational system

Constant access to information

Possibility for global impact

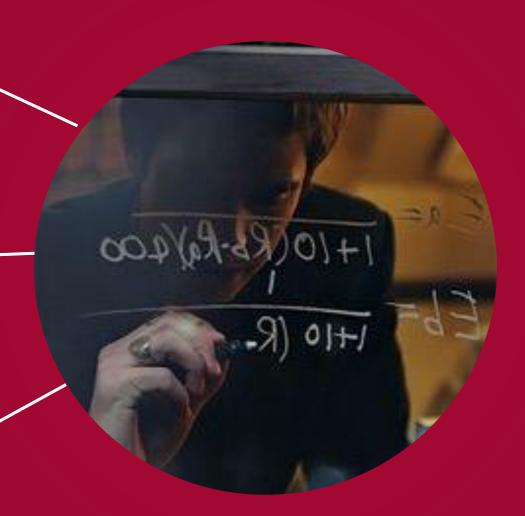


Design an educational system

Constant access to information

Possibility for global impact

Personal work path



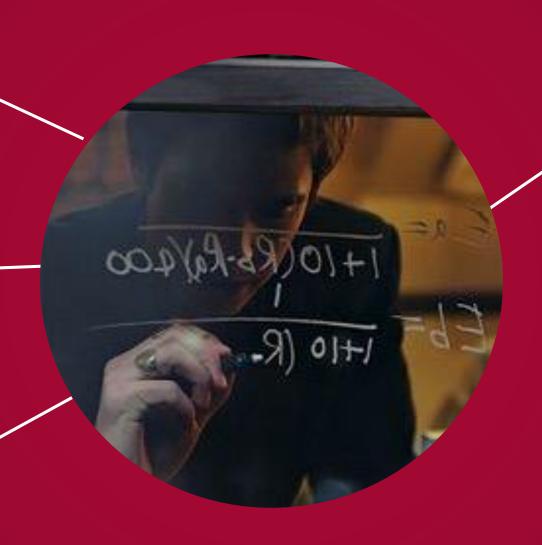
Constant access to information

Design an educational system

Innovation driving force of economy

Possibility for global impact

Personal work path



Constant access to information Design an educational system

Innovation driving force of economy

Possibility for global impact

Collaboration

Personal work path Constant access to information

Design an educational system

Innovation driving force of economy

Possibility for global impact

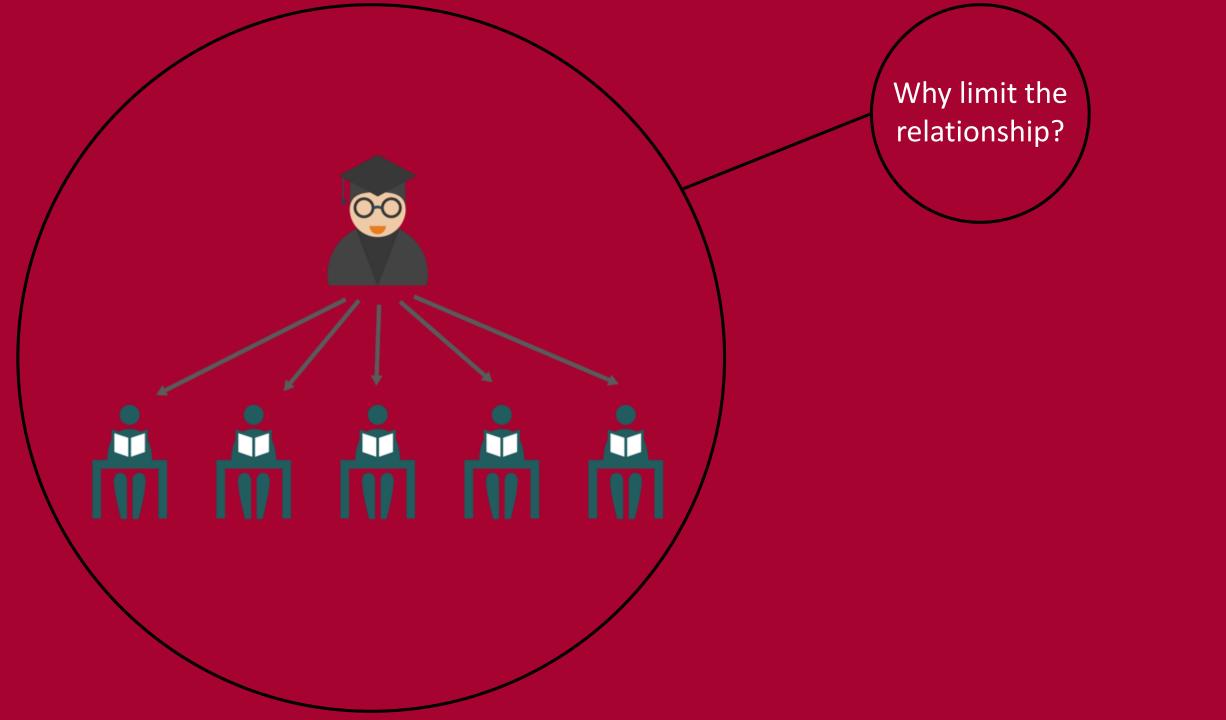
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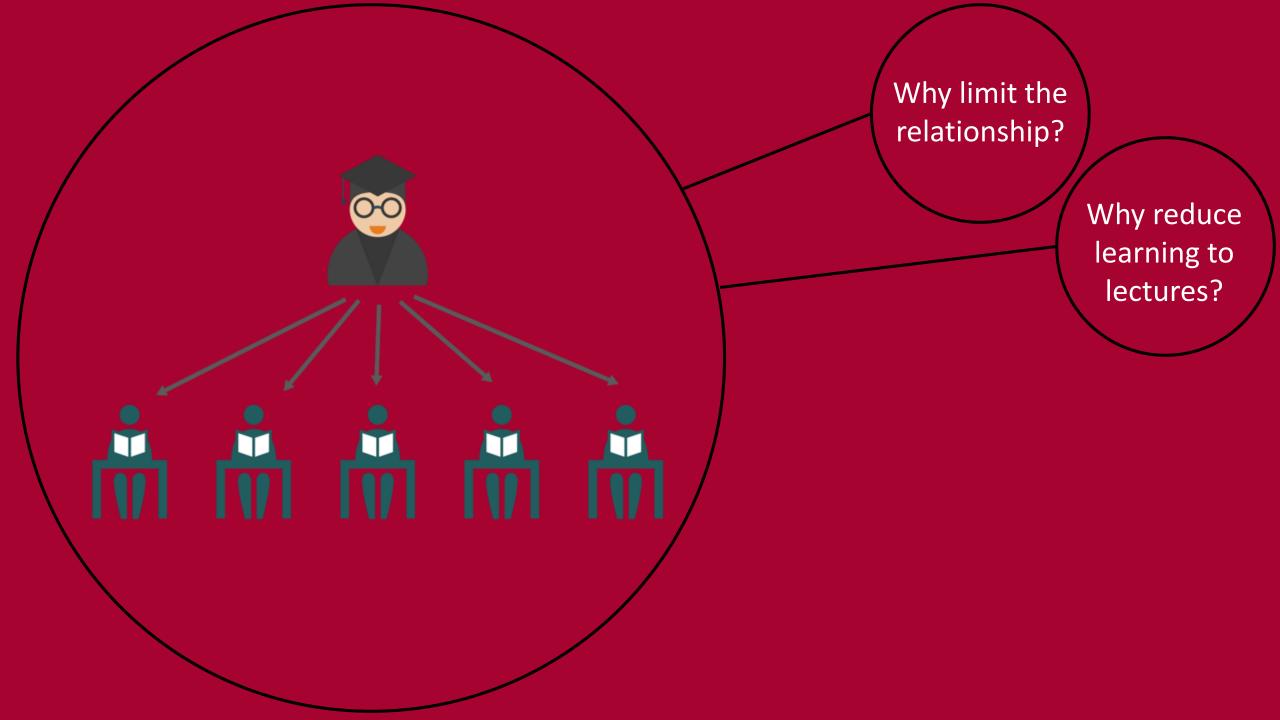
Collaboration

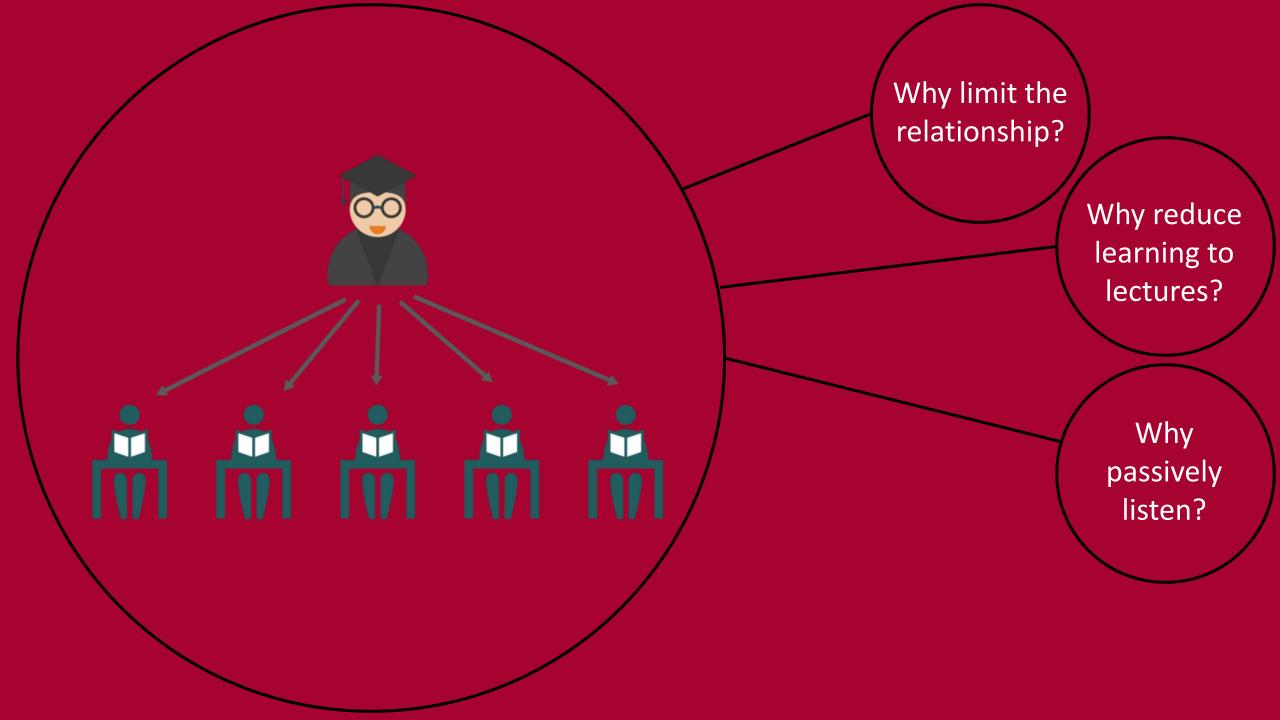
Personal work path

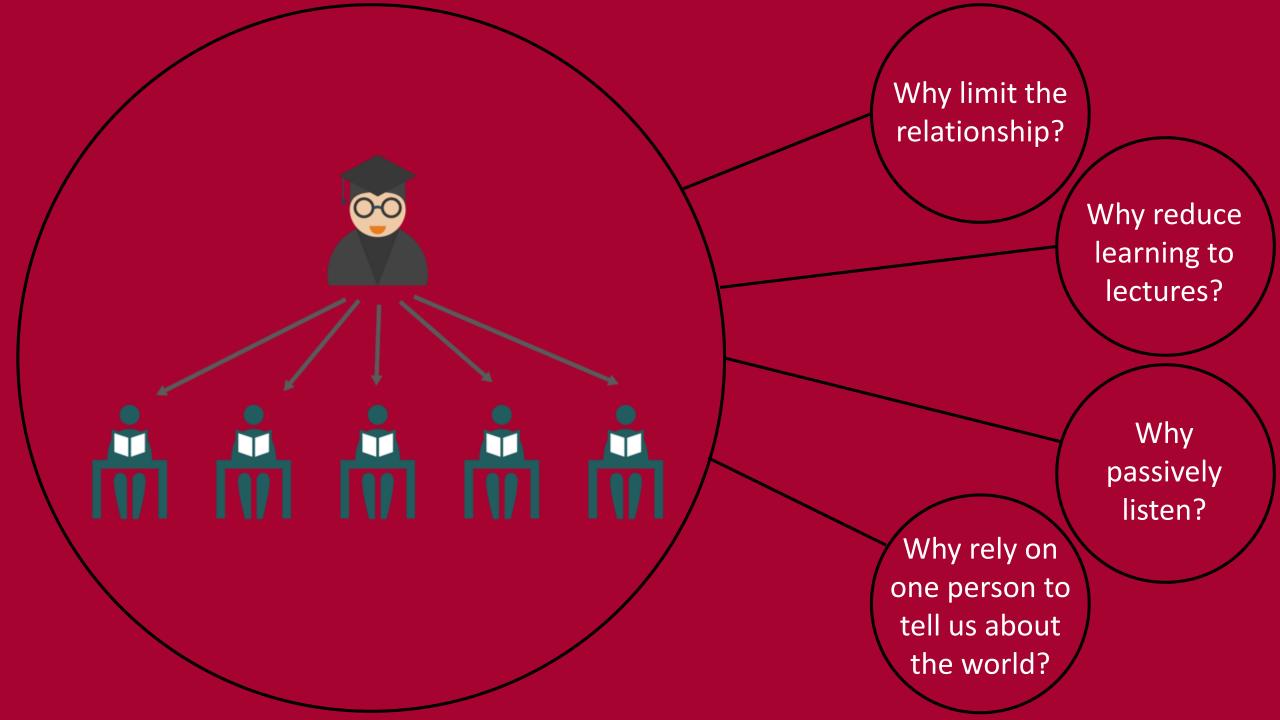
Collective intelligence







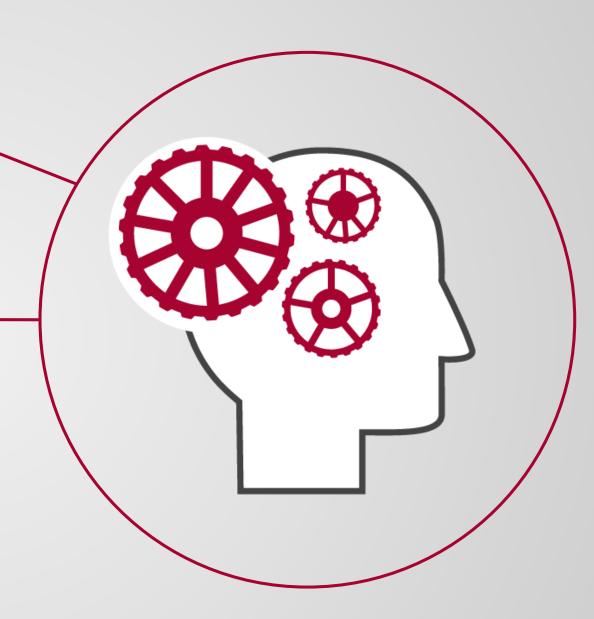




Why pretend that there is only one solution to problems?

Why pretend that there is only one solution to problems?

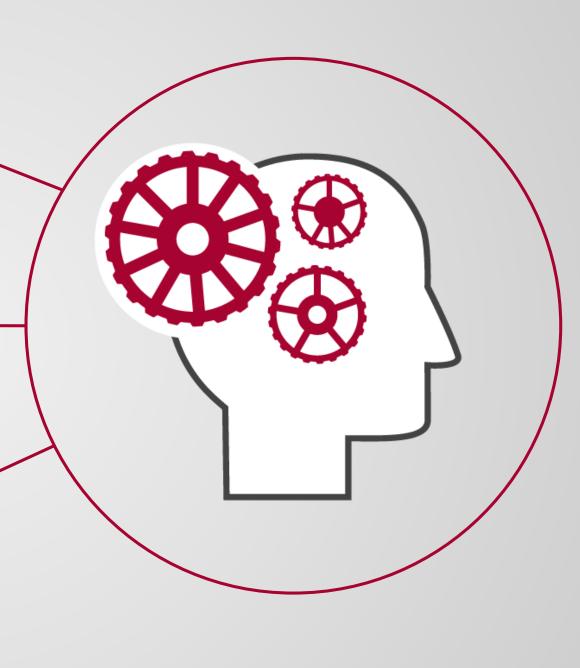
Why would we let others decide what questions we ask ourselves?



Why pretend that there is only one solution to problems?

Why would we let others decide what questions we ask ourselves?

Why would we learn skills we used to fifty years ago?



DOK level 1 recall and reproduction

DOK level 2

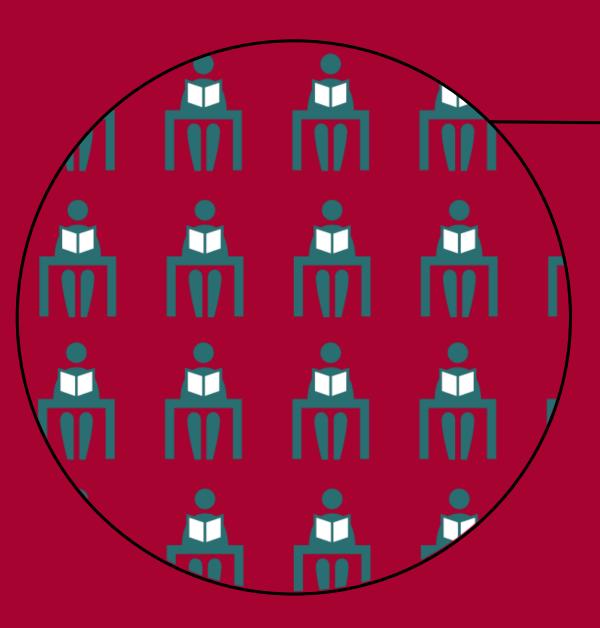
Basic application of skills and concepts

DOK level 3

Strategic thinking

DOK level 4

Extended thinking

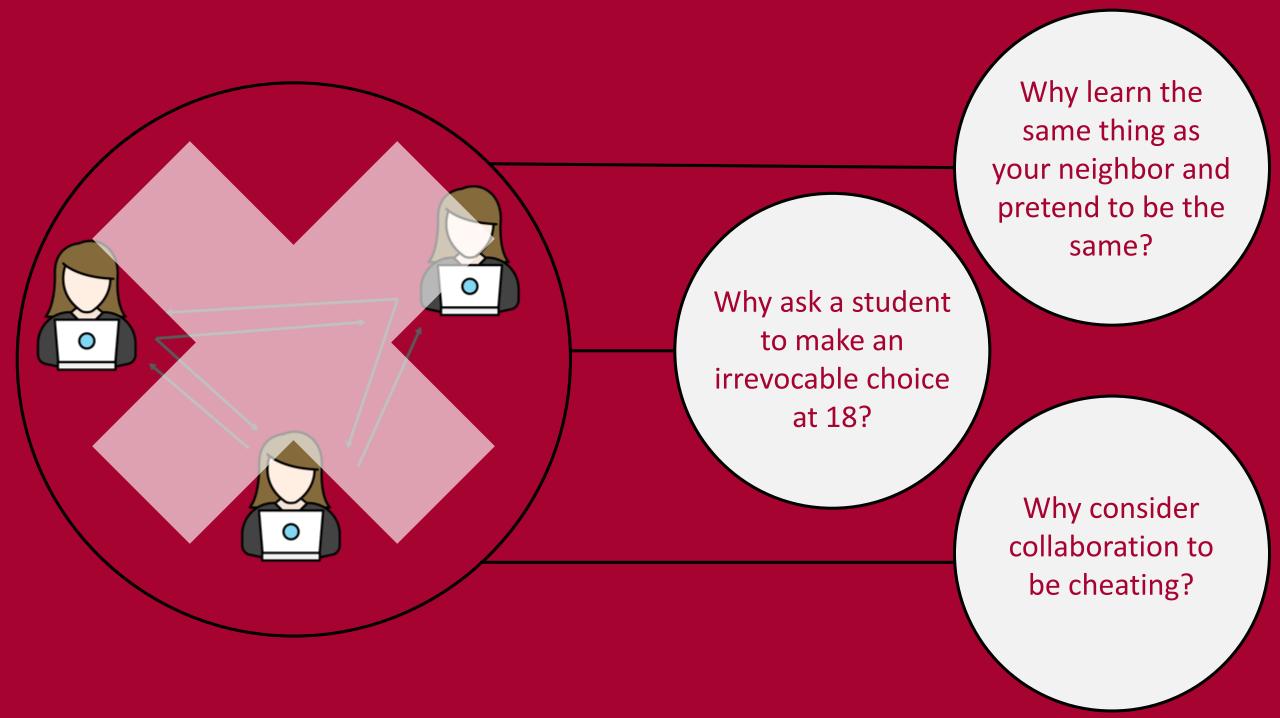


Why learn the same thing as your neighbor and pretend to be the same?



Why ask a student to make an irrevocable choice at 18?

Why learn the same thing as your neighbor and pretend to be the same?



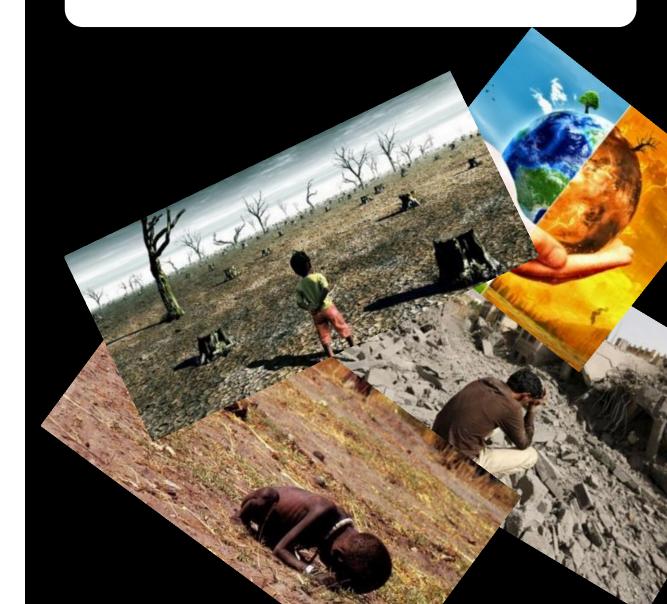
Is such a behavior suitable?



Is such a behavior suitable?



To solve our world's crisises





We have the tools to solve all that, the tool is not the problem anymore



Mastery of the tools

People

Conscious Mastery of the tools People

Conscious

Mastery of the tools

Able to interact

People





Witness



Witness



Guinea pig



Witness



Guinea pig



Staff



No teachers



No teachers



No classes



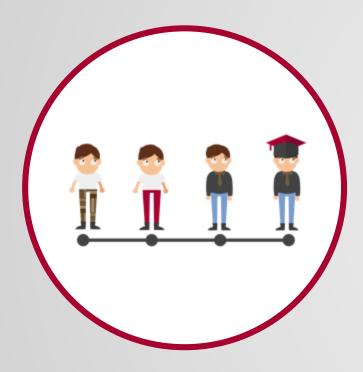
No teachers



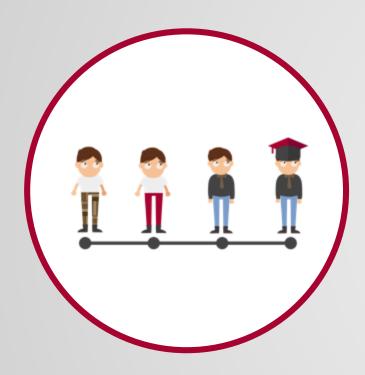
No classes



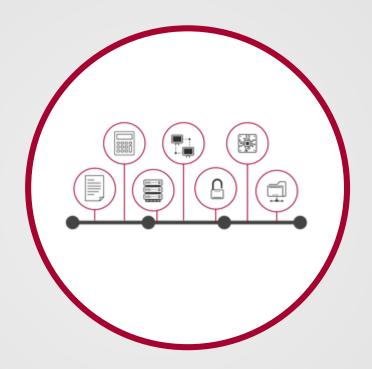
No schedules



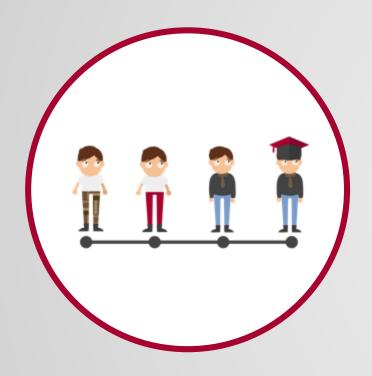
No age/year ranking



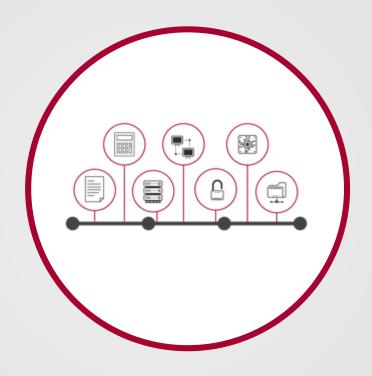
No age/year ranking



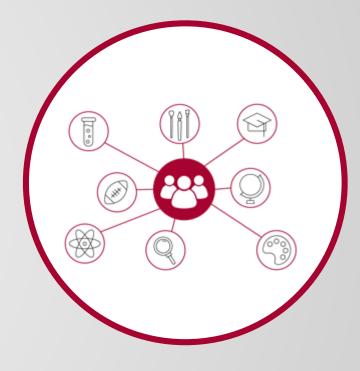
No single program



No age/year ranking



No single program



Cultural and social diversity

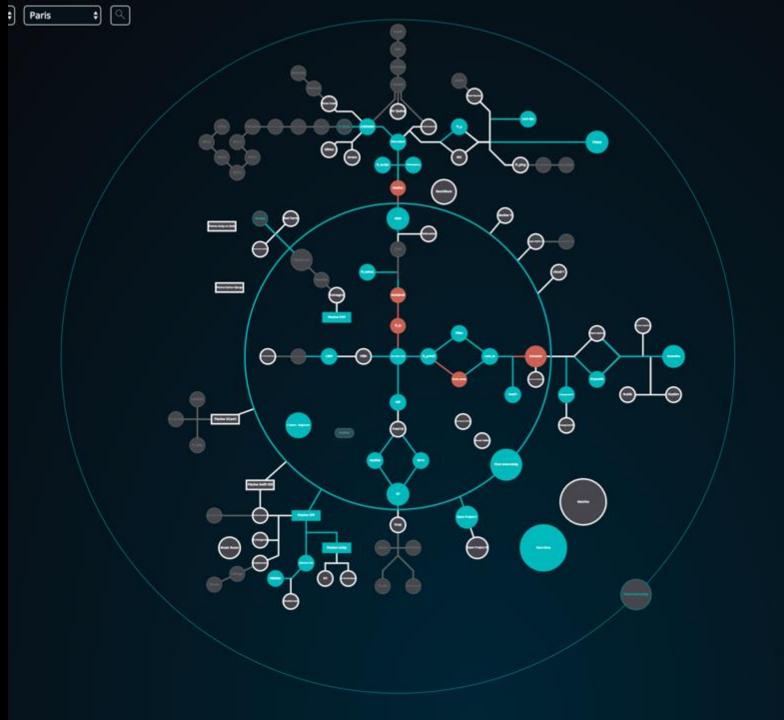


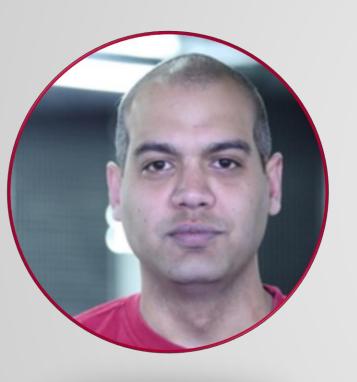
Physical place





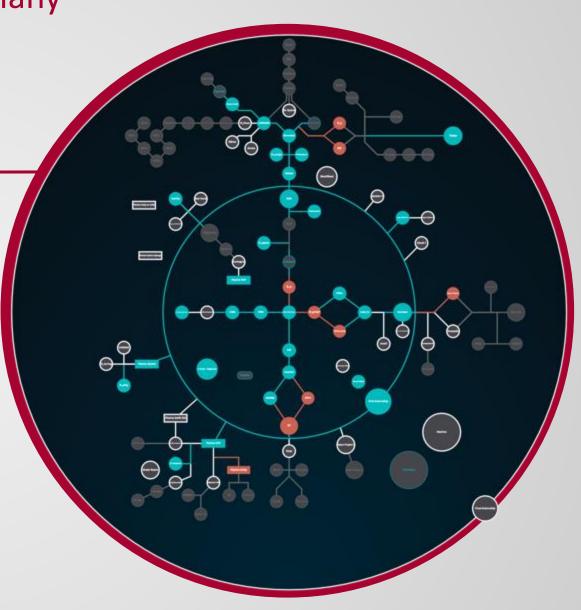
Virtual place







Own path and time frame





Own path and time frame

Levels and ranks

Grade

Captain

level 17 - 96%

Wolf3d



5 minutes videos

Specifications

✓ success

99,100

T2 - solo - about 2 week

Subject
Play with me too! (Sierra binary)
Play with me!

Wolf3D

See my project page

Description

Inspired by the world-famous 90's game of similar naming (which was the first FPS ever). Explore the technique of ray-casting. The goal is to create a dynamic view inside of a maze. How far will you go to create the best game we have ever seen?

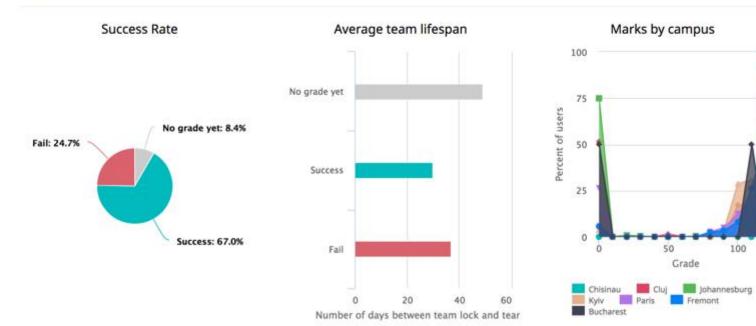
Objectives

Ray-casting Optimization techniques Math

Skills

Imperative programming Graphics Algorithms & AI

- Created by ol
- & 159 users currently registered (16 retries)
- 256 users can subscribe and never did
- A 1756 users registered in 2288 teams ever
- Finished 2120 times





Levels and grades

Gamified projects

Peer-to-peer interaction

















* / Adam Goomany - agoomany Wallet Grade ETEC 220 ★ 42 \$ Captain in a year level 17 - 96%

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🝰 Paris



ACHIEVEMENTS PATRONAGES

FORUM

MARKS

CLOSES @

CURSUS

NOTES 0

Piscine PHP a year ago ▼	√ 56
Rushes 3 years ago 🕶	
Piscine CPP a year ago +	√ 94
First Internship 7 months ago •	√ 114
Part-time 2 years ago +	0
Piscine OCaml a year ago ▼	√ 94
Piscine Unity a year ago 🕶	imeso
42 Commandements 5 months ago	√ 100
42sh 8 months ago →	√ 75
Big Web Project 3 years ago	imeso







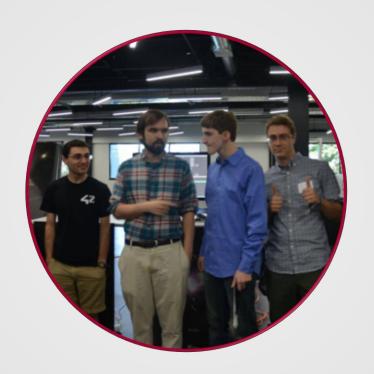
Adam Goomany



J-gravity team

J-gravity Team





Freedom of projects

J-gravity Team

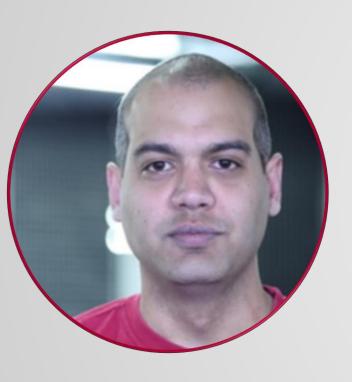




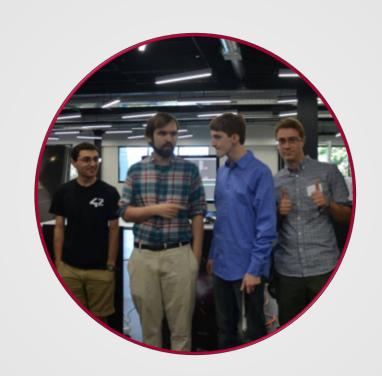


Freedom of projects

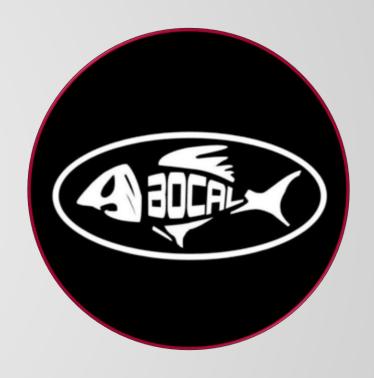
Create projects in curriculum



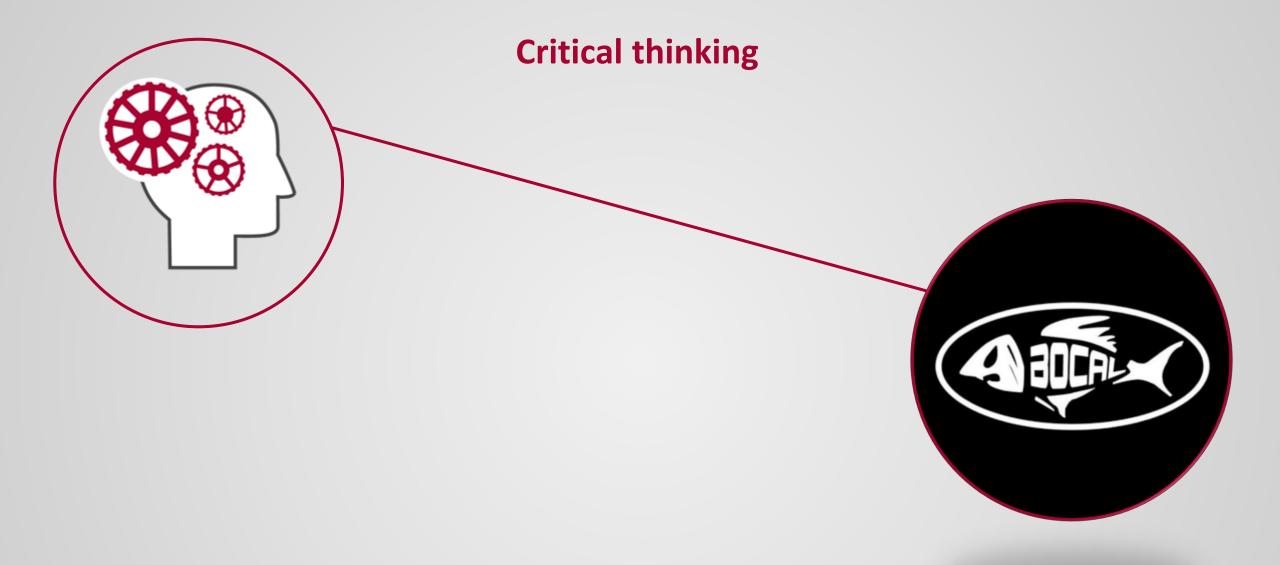
Adam Goomany

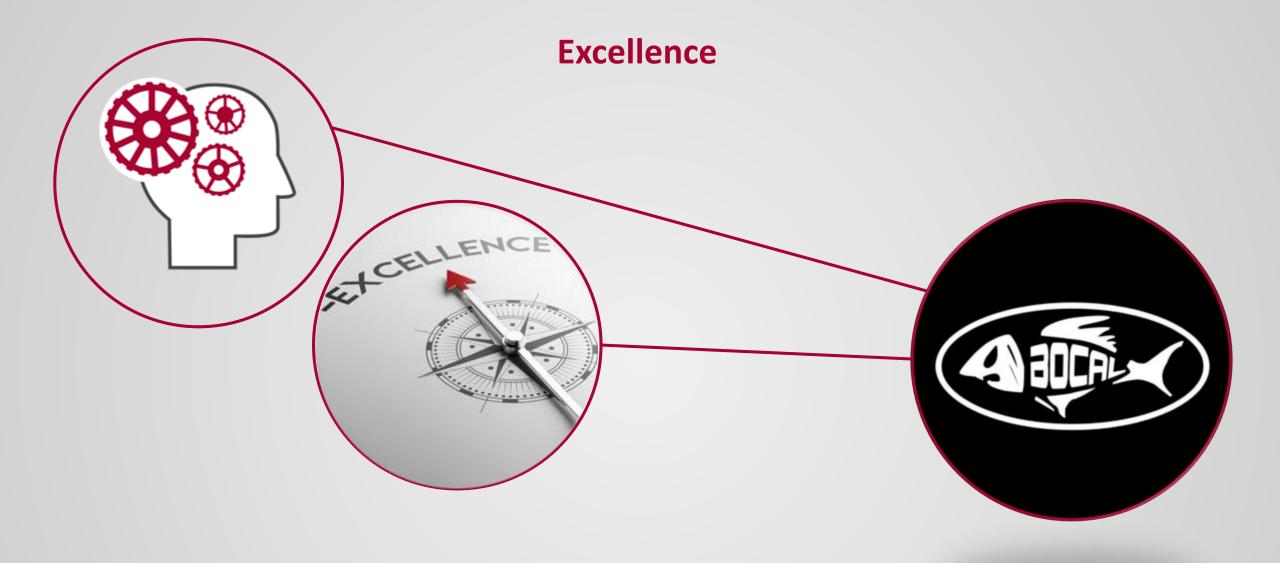


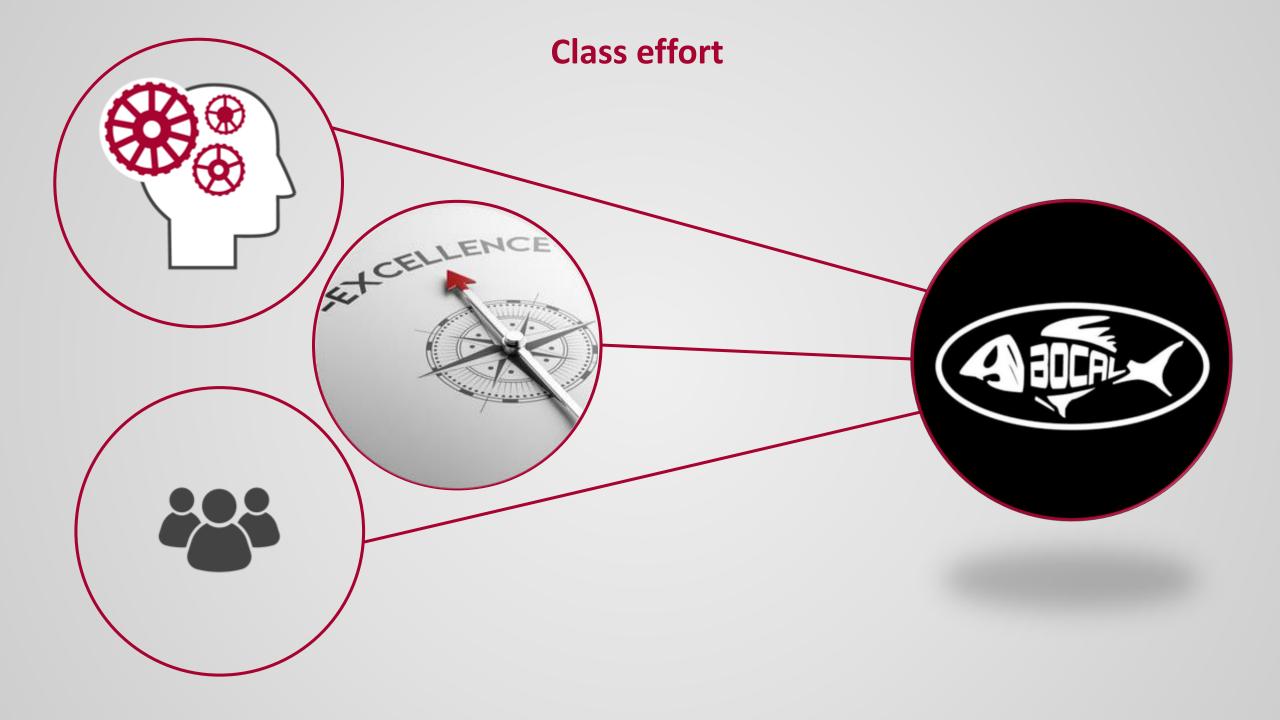
J-gravity team



Staff









Communication





Communication

Collaboration







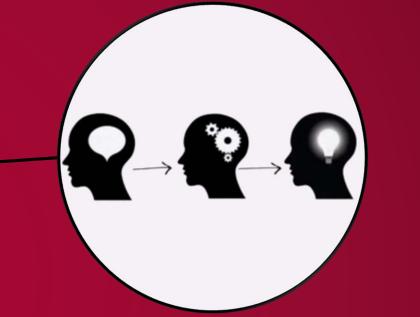
Communication

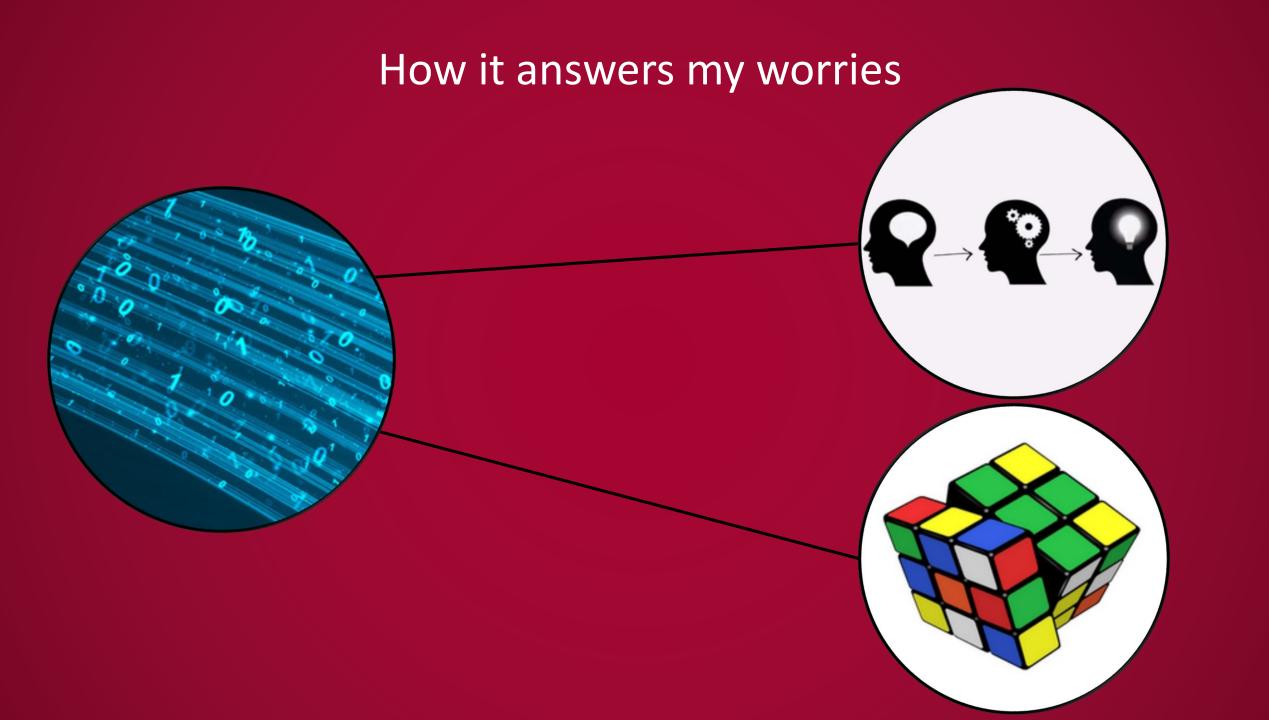
Collaboration

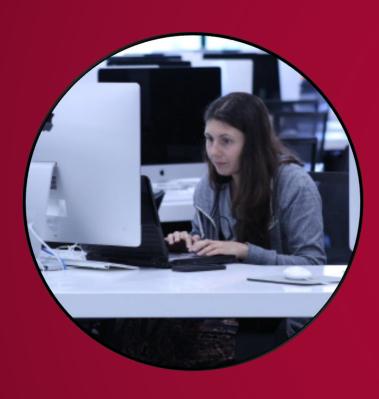
Trust











Taking responsibility



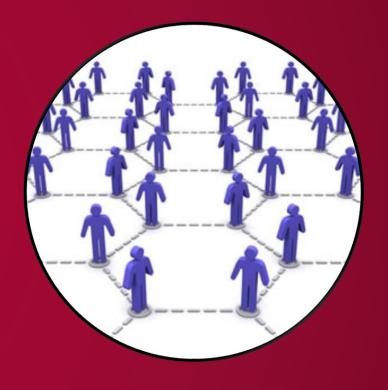


Taking responsibility

Self directing learning







Taking responsibility

Self directing learning

Conscious of environment



44

Cutting edge innovation not about teaching

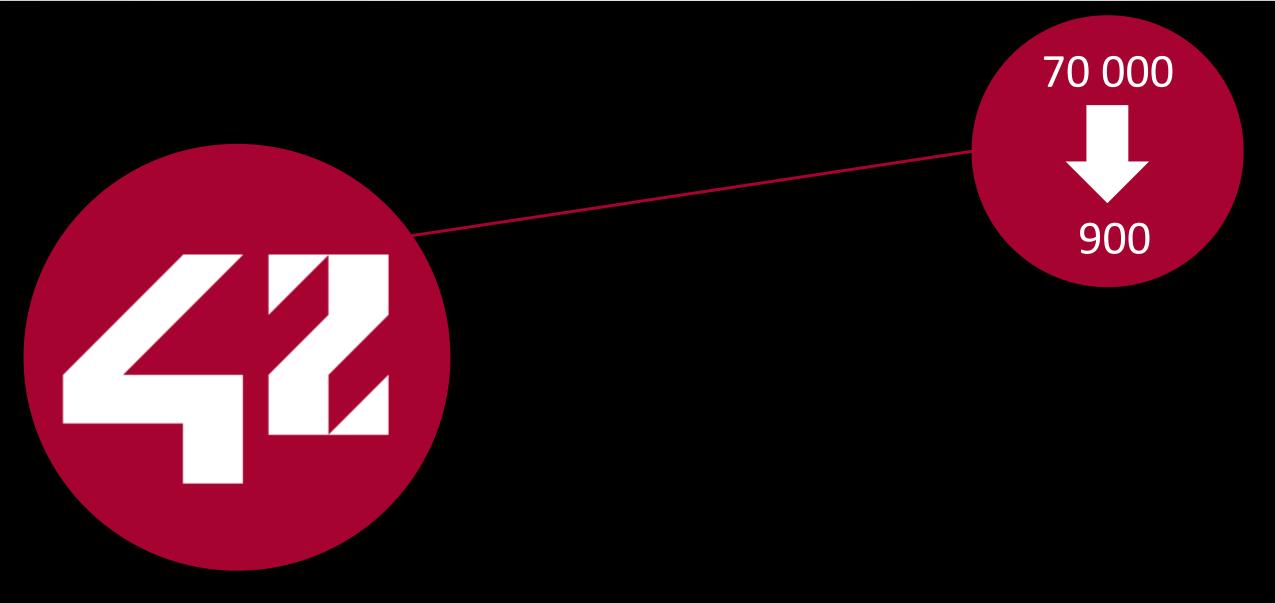


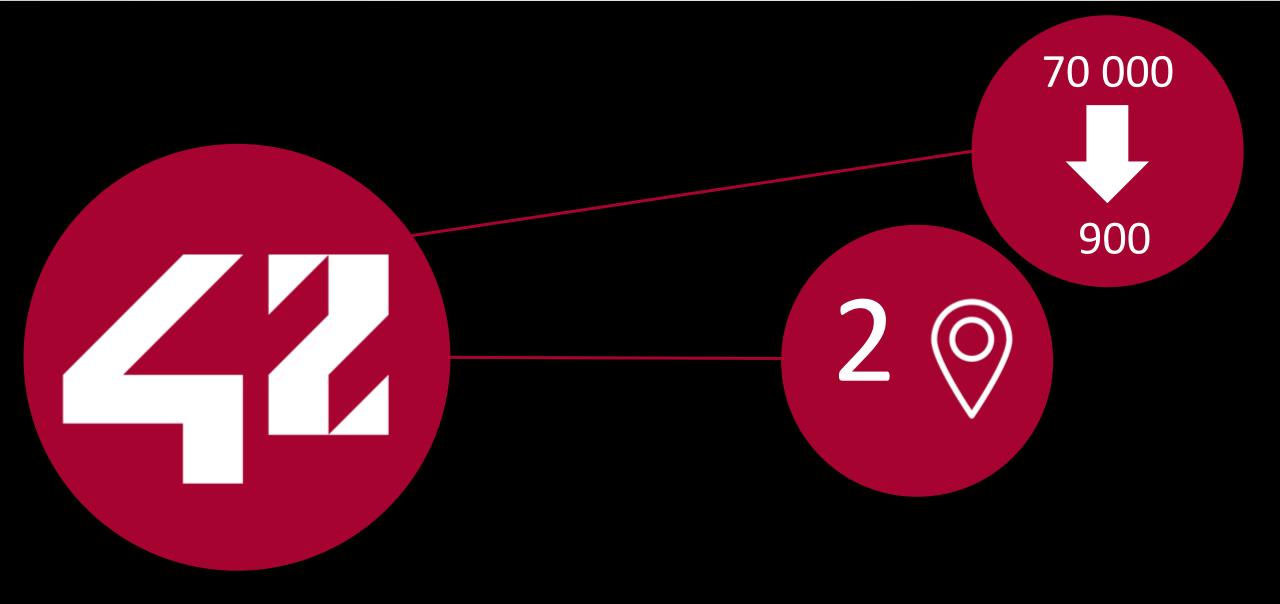
Is 42 the answer to all the questions?

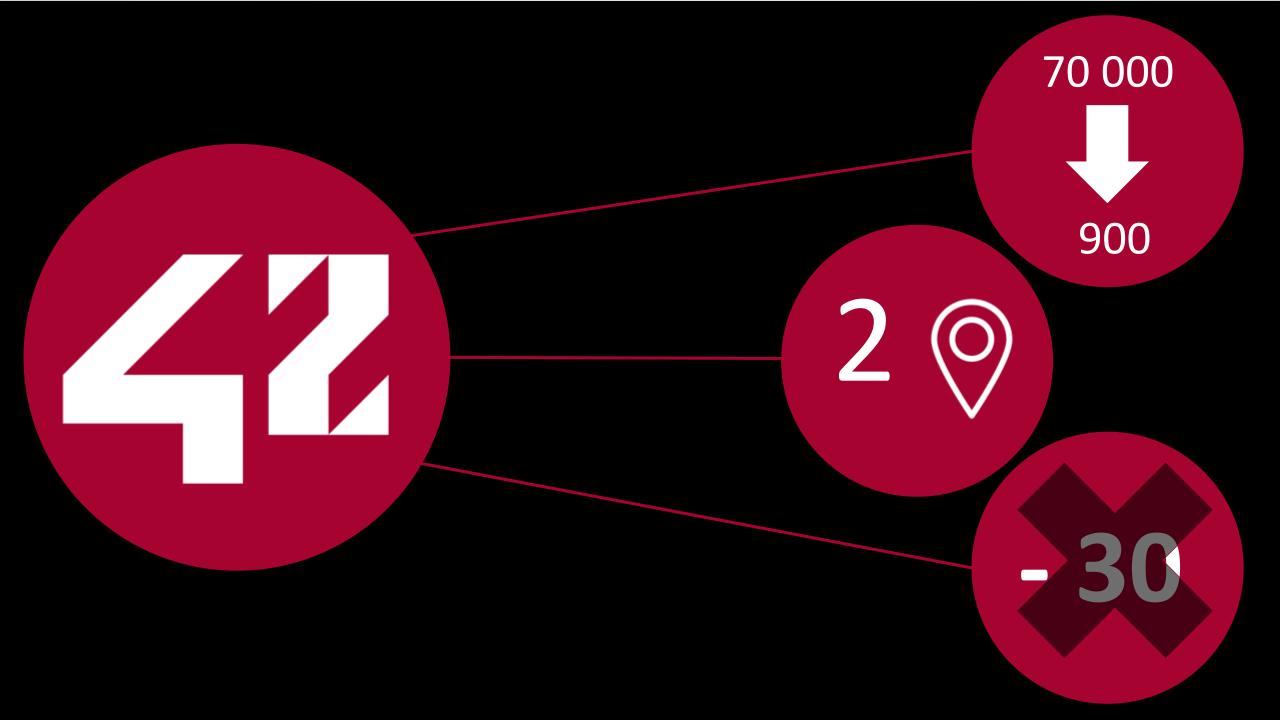


Is 42 the answer to all the questions?

NO





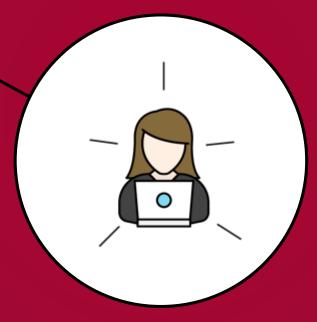


Alumni

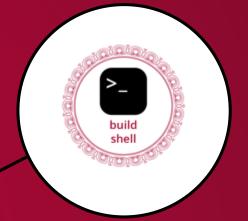


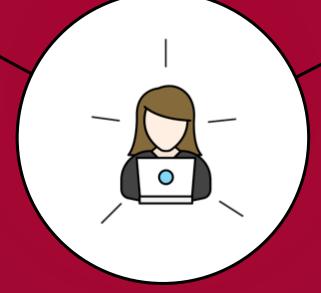


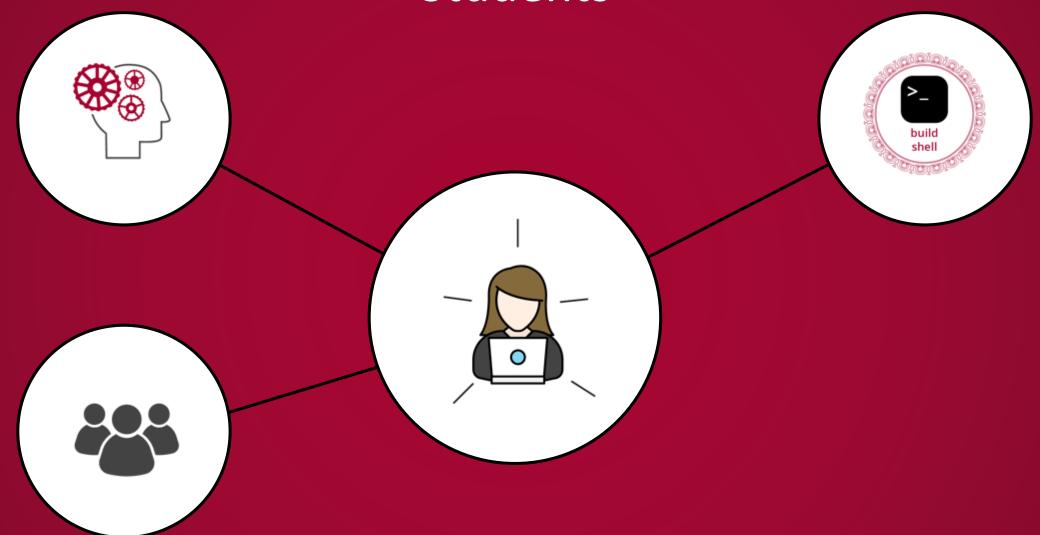


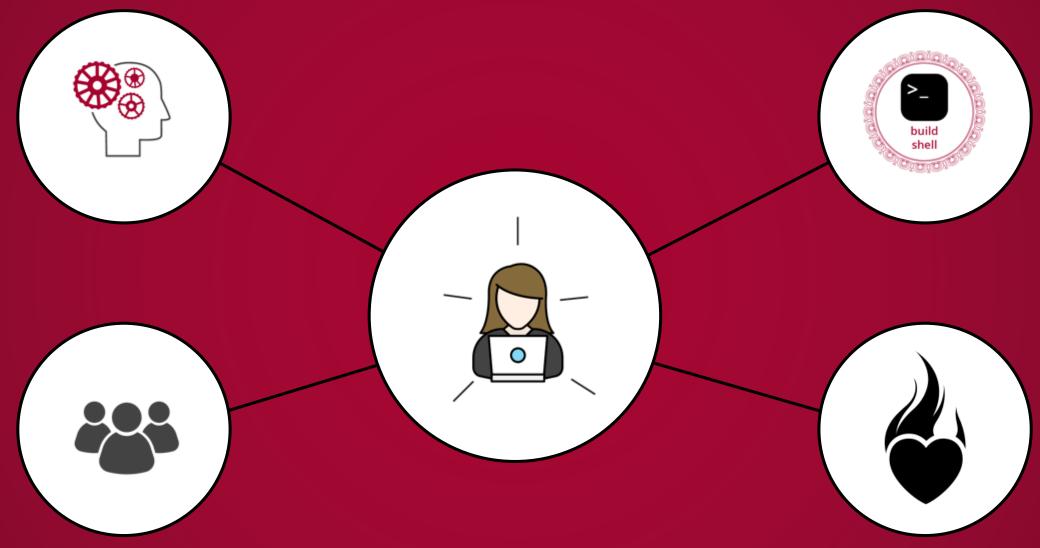












What am I doing here?



Witness

What am I doing here?





Witness Goal











Challenges

Horizontal rather than vertical

Challenges

Horizontal rather than vertical

Use the force of active learning and collective intelligence

Challenges

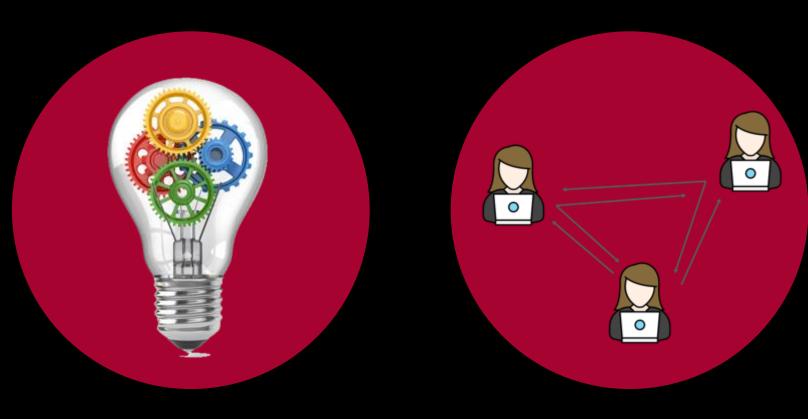
Horizontal rather than vertical

Use the force of active learning and collective intelligence

Open Learning



Constant innovation

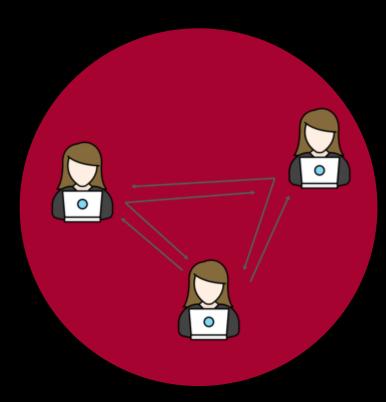


Constant innovation

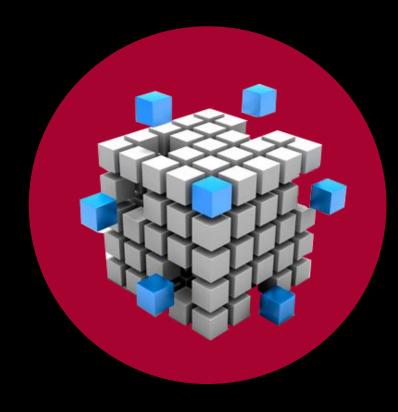
Peer-to-peer interaction



Constant innovation



Peer-to-peer interaction



Fitted framework



Thank you for coming