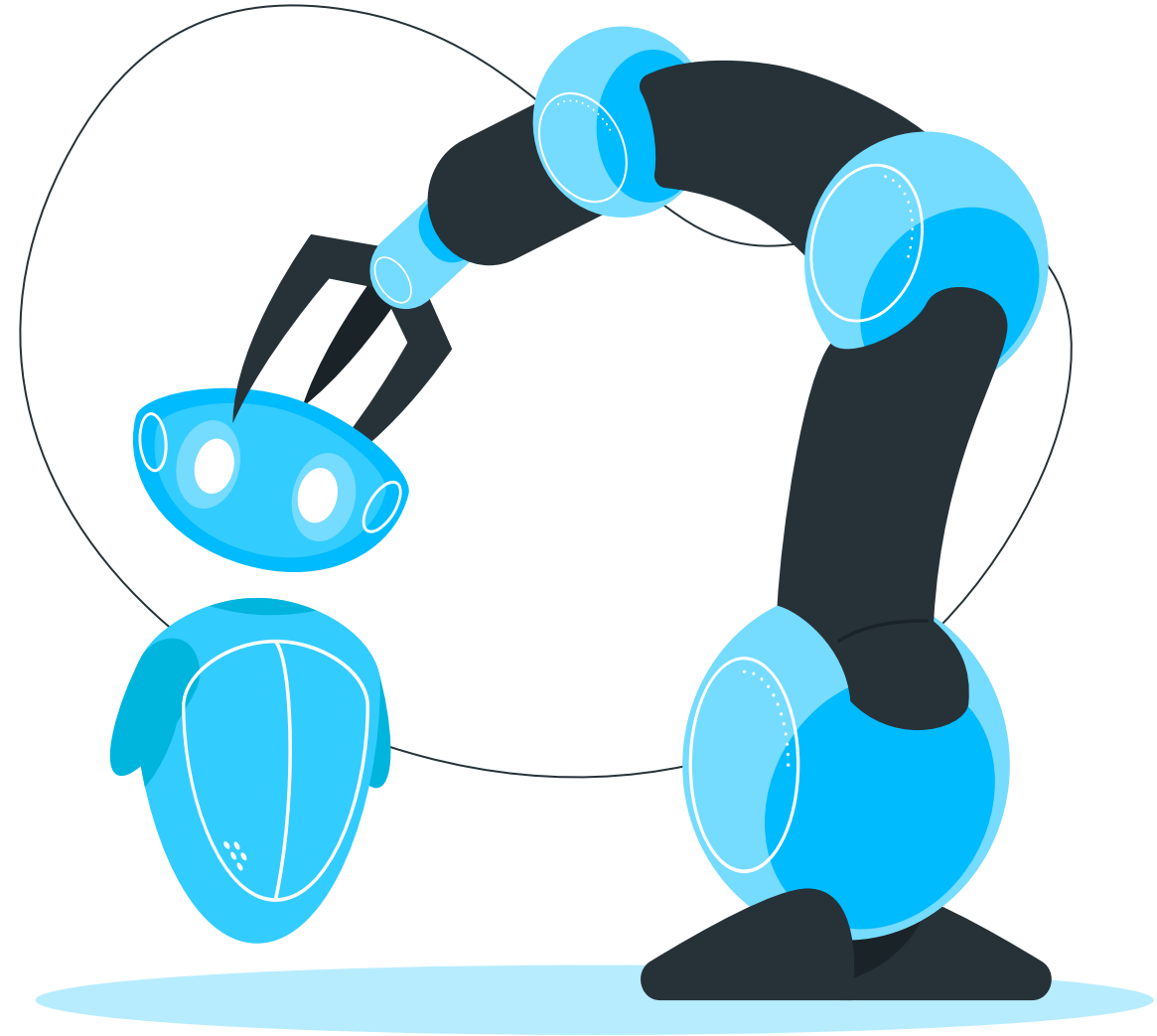
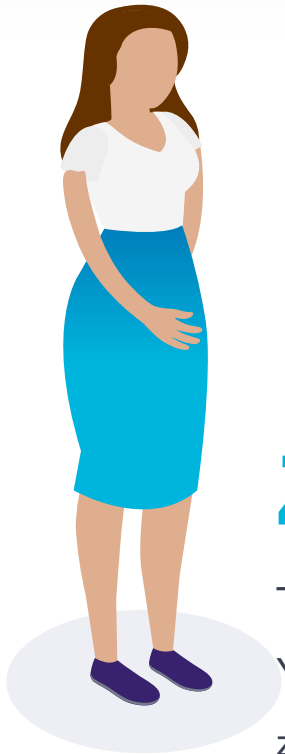


*Medical assistant
for patient care in
normal and
emergency
conditions*

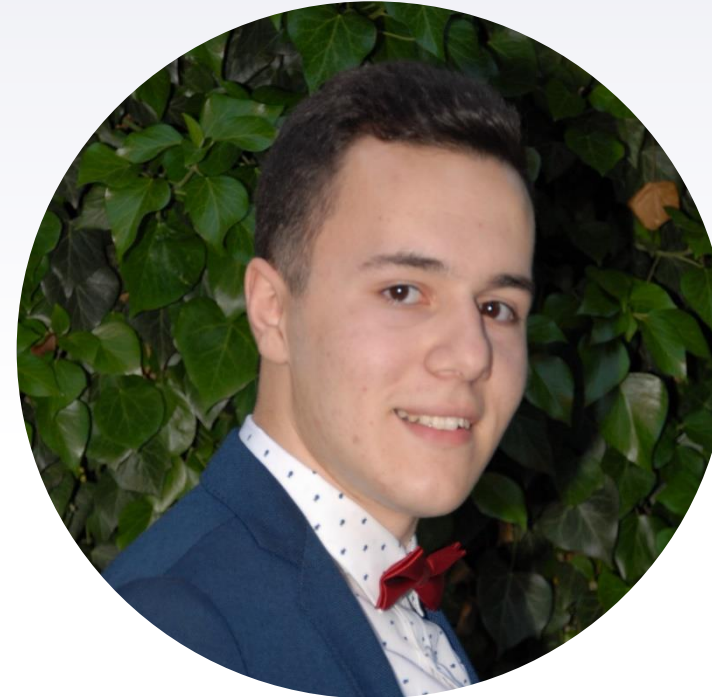


IT'S TIME TO MEET US



Zorica Koceva

Team member involved in the project
You can find me and reach me at
zorica.koceva@students.finki.ukim.mk



Andrej Petrushev

Team member involved in the project.
You can find me and reach me at
andrej.petrushev@students.finki.ukim.mk



Table of contents



1

Introduction

Description of the project topic

3

Ideas, conceptions, interests

Description of key ideas, conceptions and interests

2


Motive of the project

Description of the motive for the project

4

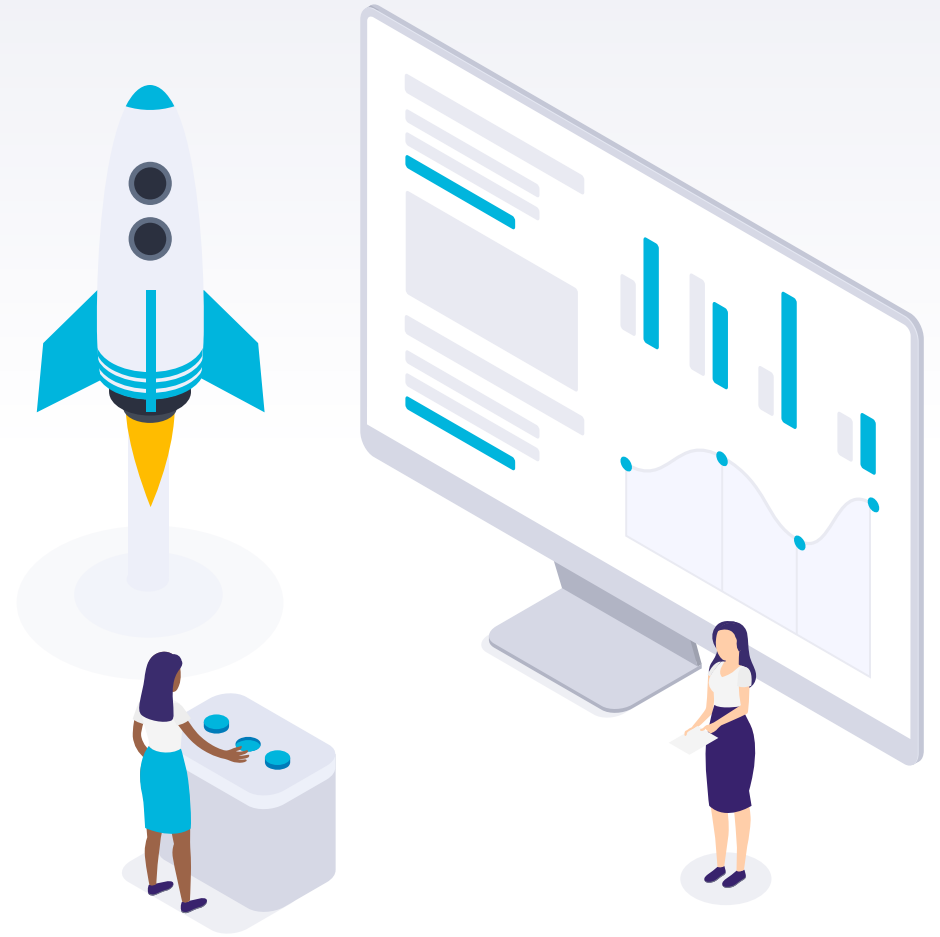
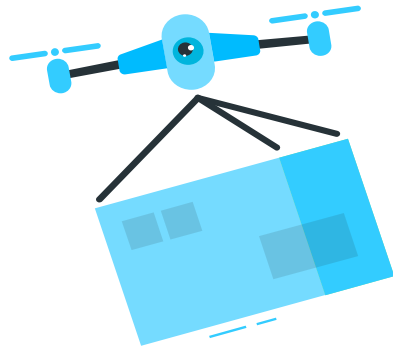
Goal of the project

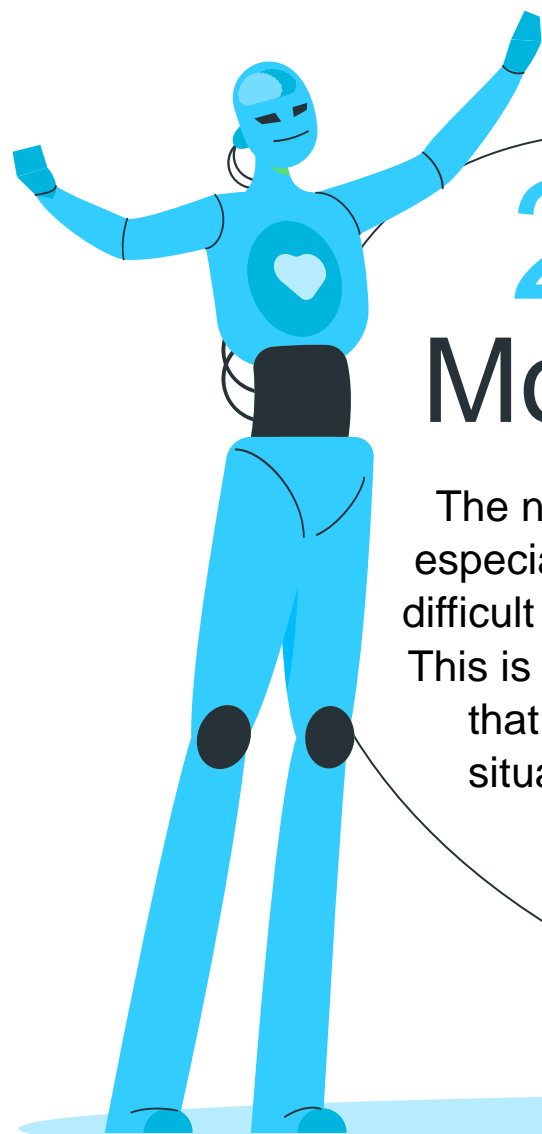
Description of the ultimate goal to be achieved with the project



Introduction

1 In this project we are talking about the so-called medical robot assistant which will assist and care for patients under normal and emergency conditions. With its help, the condition of the patients themselves will be constantly monitored and analyzed and will be determined exactly what is needed for their treatment and care.

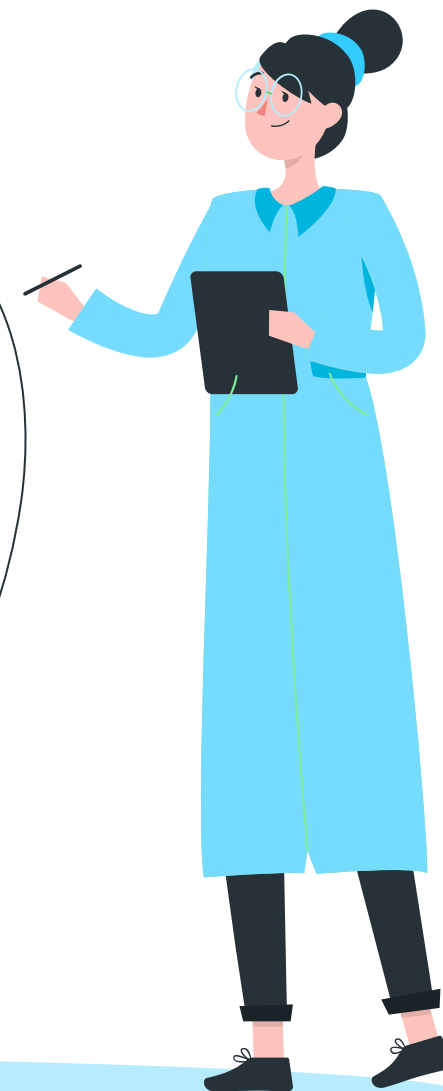




2

Motive of the project

The new situation with the pandemic has affected all of us, and especially the health system, which due to the lack of staff finds it difficult to dedicate itself to the patients and give them proper care. This is exactly what caused us a great motivation to do something that will help with the burden of the health system in a crisis situation so that human lives are not lost due to negligence.



3 Key things



1

IDEAS

The initial idea is to make robots that will have all the necessary functionalities and that will characterize the indicated persons. First of all, from my own point of view, wanting my parents to still be present and remembered in the place where I lost them forever.



2

CONCEPTIONS

The robot itself will consist of cameras that will detect patients and accurately determine their condition, distancing and whether protective equipment and masks are worn by others in health facilities, select the correct therapy and write notes, read parameters at any time and consultation on the results, submission of lists electronically to the chief physician, etc.



3

INTERESTS

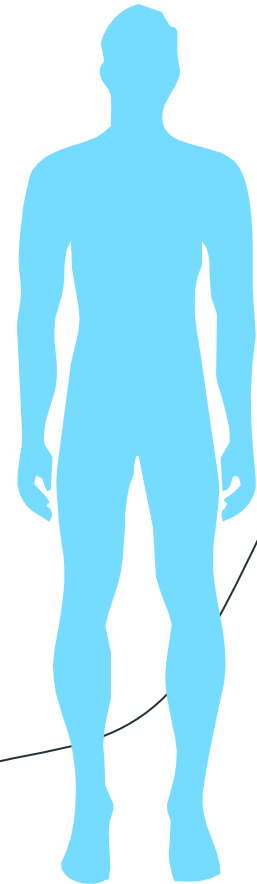
Our field of interest consists of working on real projects that will help medicine in the future and are of great importance to humanity.

In addition, the robot will be able to establish pleasant communication with polite and correct attitude and be available on call at any time because the lives of patients are left to the care of health professionals.

Goal of the project

4

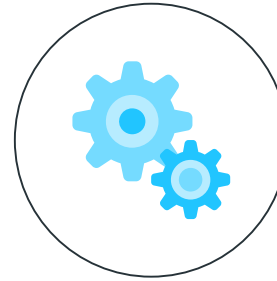
- The main goal of this project is to make human robots with the help of Artificial Intelligence and Machine Learning. Additionally, once a working model has been developed and designed, the project itself would be expanded to fully match the appearance and biological characteristics.
- Also, another very important goal that will be achieved with the development of such a robotic system, which is in great deficit in our country, will be the assistance that will be provided to the medical staff, to whom it will be of great importance, in the care of each patient. We will do our best to build and implement the whole system as a system that means life for every person. The loss of my parents and being remembered in the place where I lost them forever is an incentive to help our future and all generations and thus reduce mortality.



Concepts



Appearance and visualization



Hardware structure

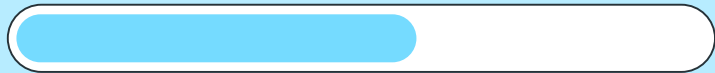
Factors

0%



Representation

65%



Utilization

95%



Necessity

50%



Increased
assistance



Practical experiences

A

Perception

C

Execution

B

Processing

D

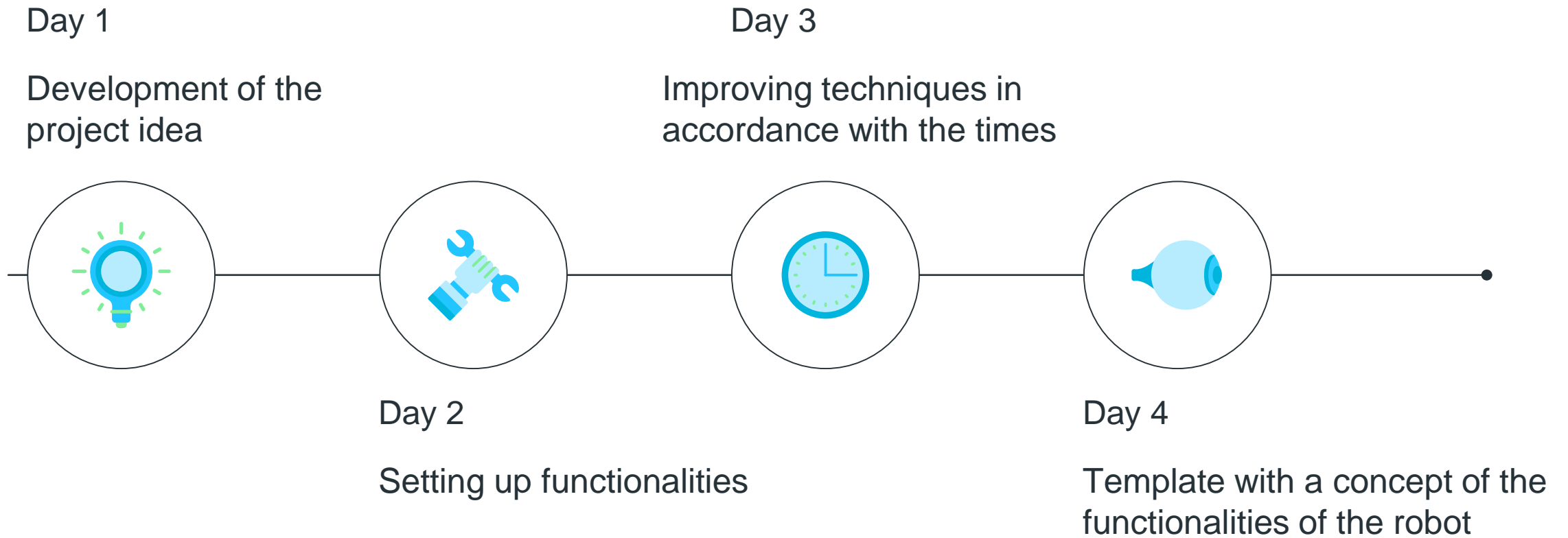
Analysis



Here we are



Project timeline



THE BIG PICTURE OF THE CONCEPT



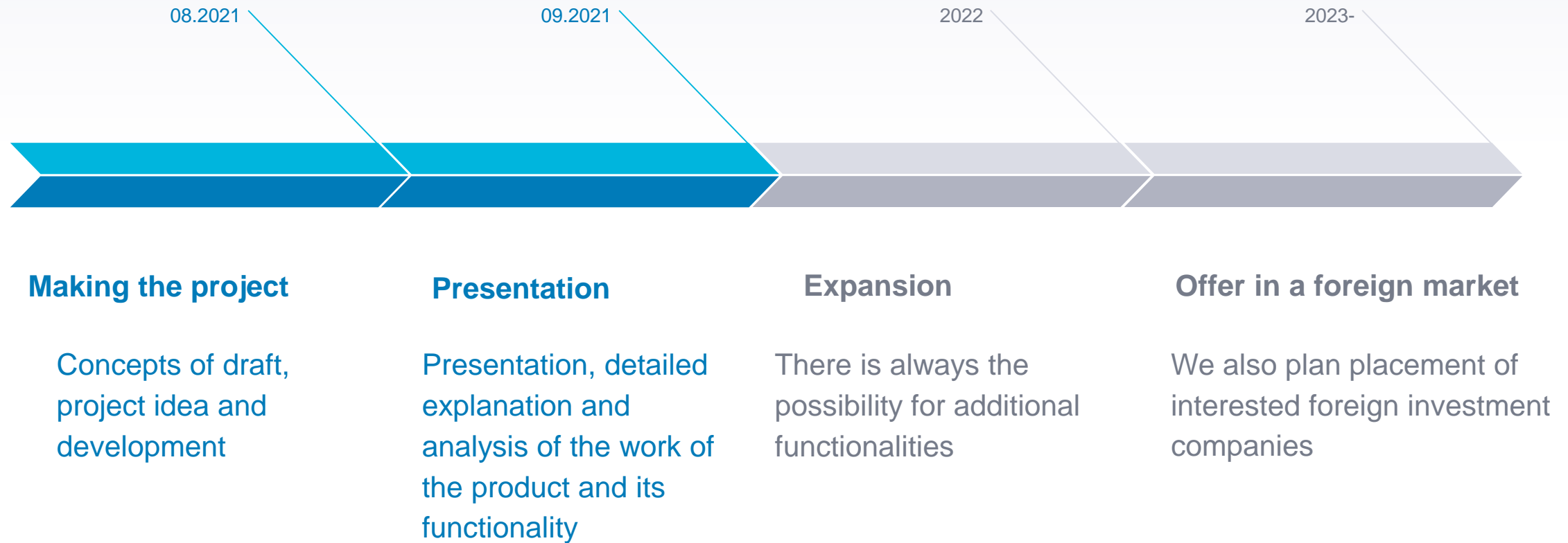
Searched in the world

- ▶ Available online
- ▶ Catalog offers, brochures
- ▶ Recommendations from institutions that already use the system

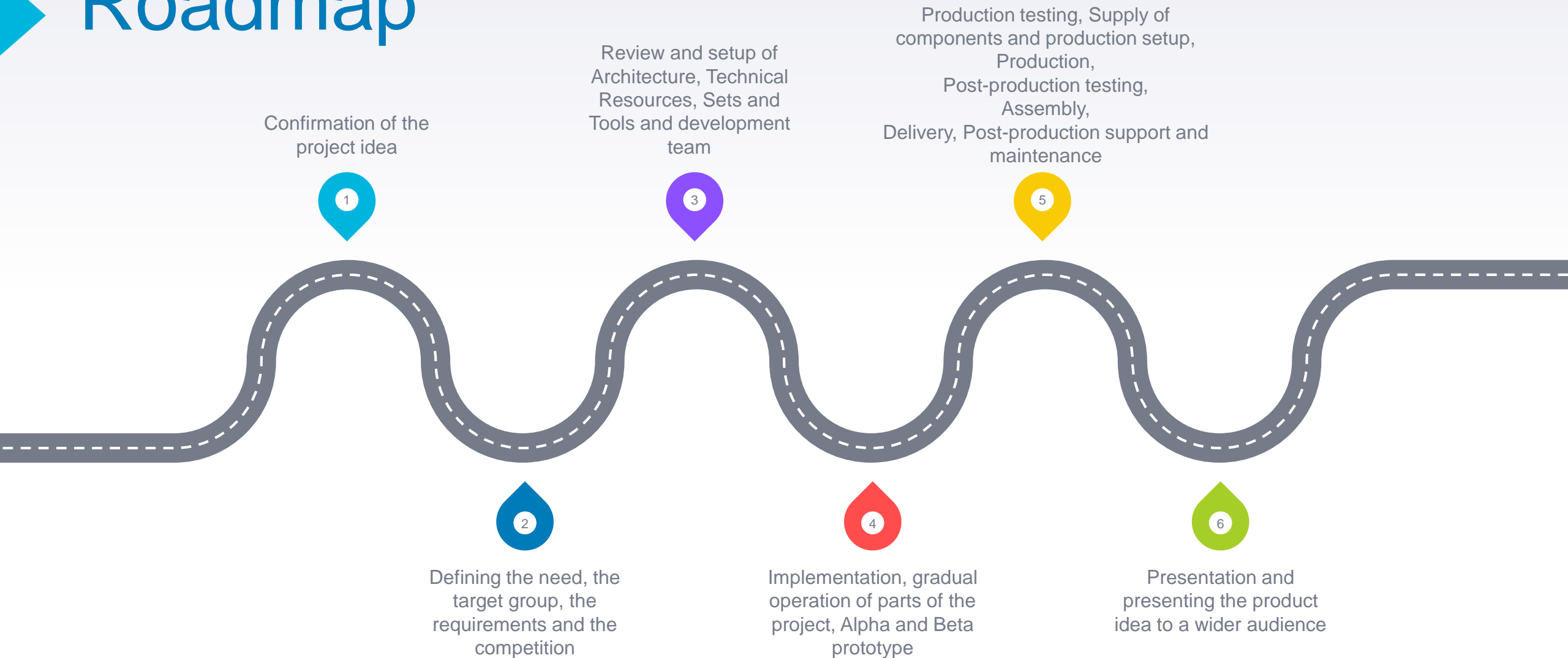
Wide audience in order to be widespread



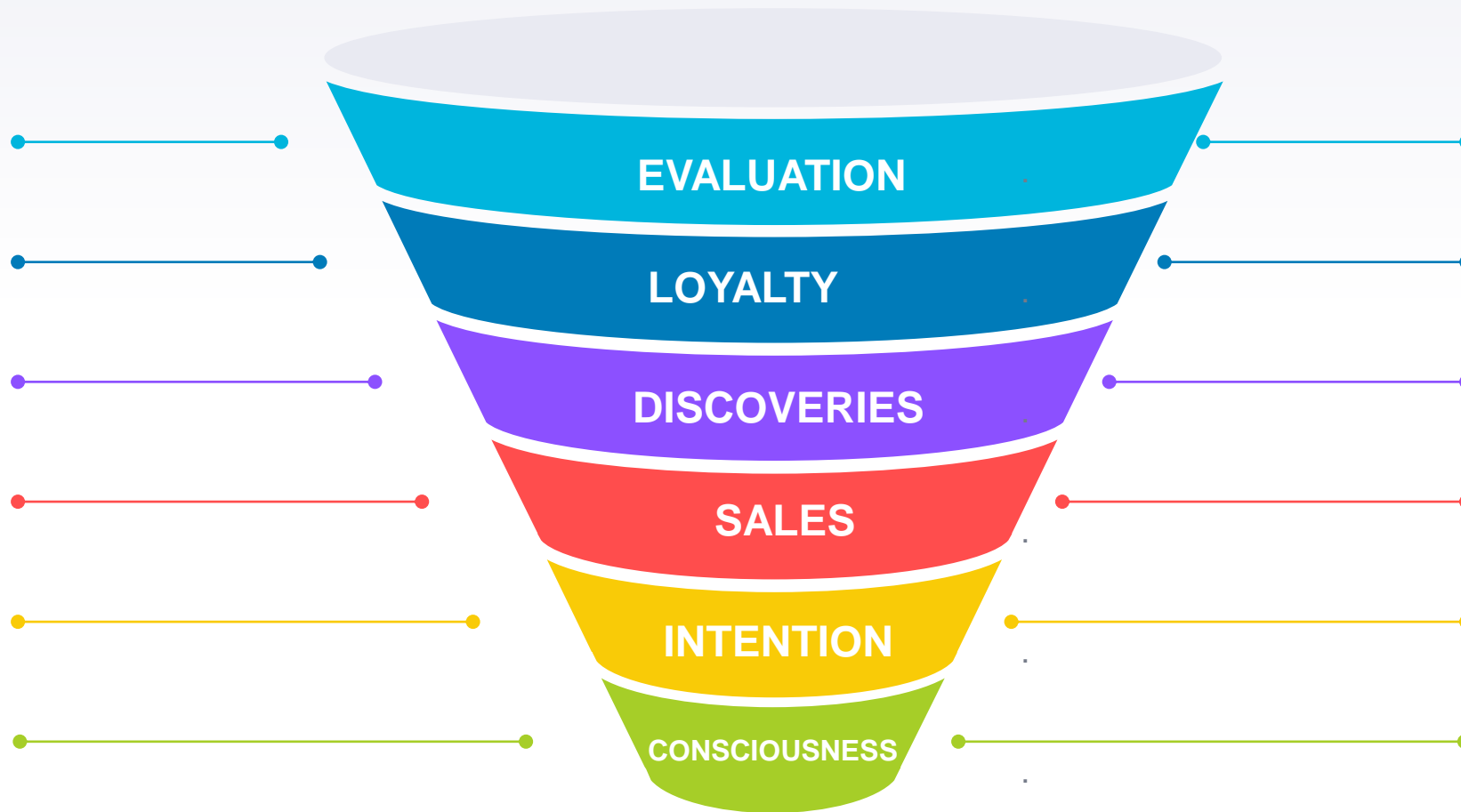
Our process will grow

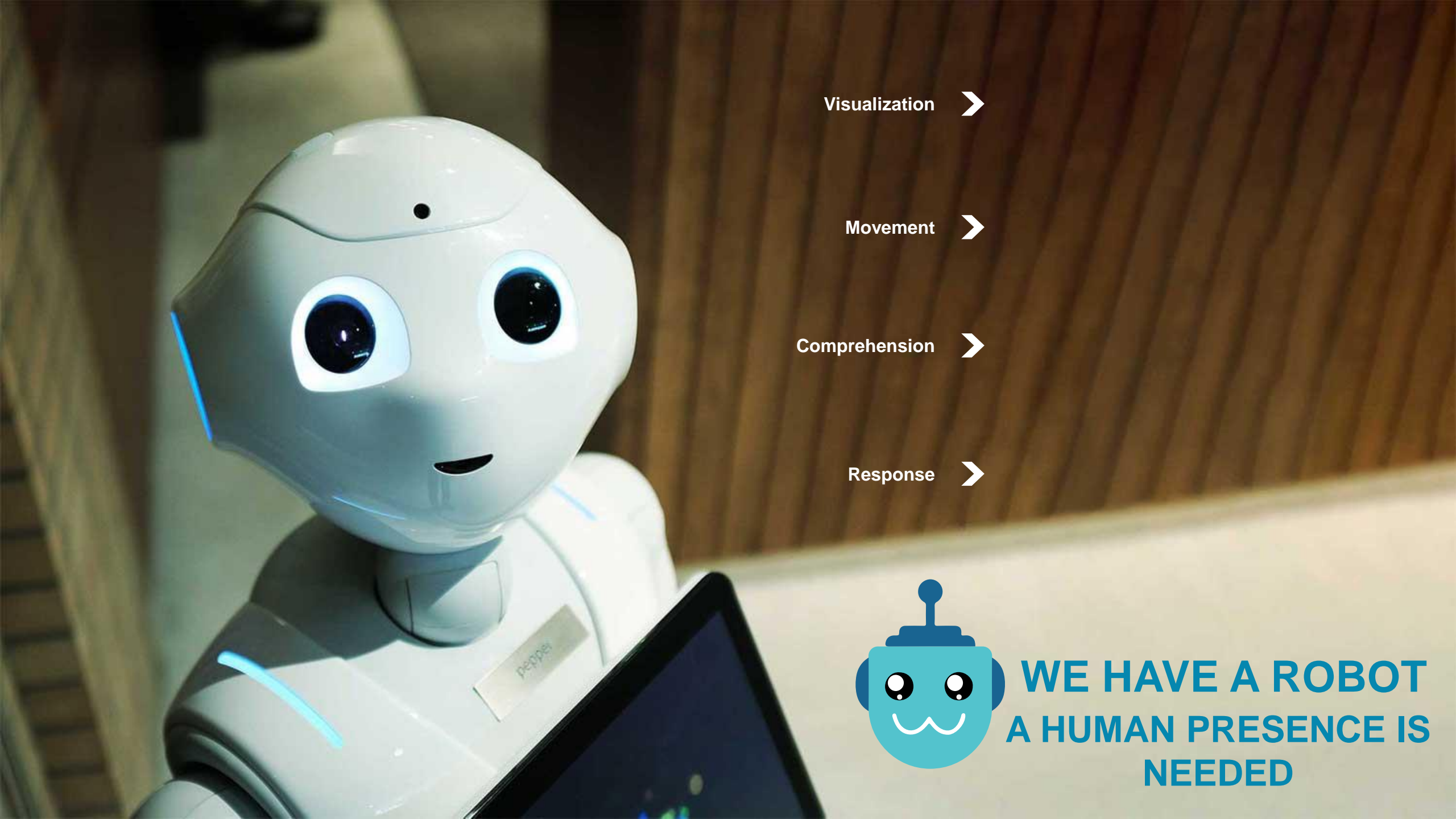


Roadmap



Key factors for the system



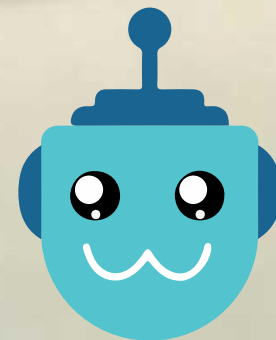


Visualization >

Movement >

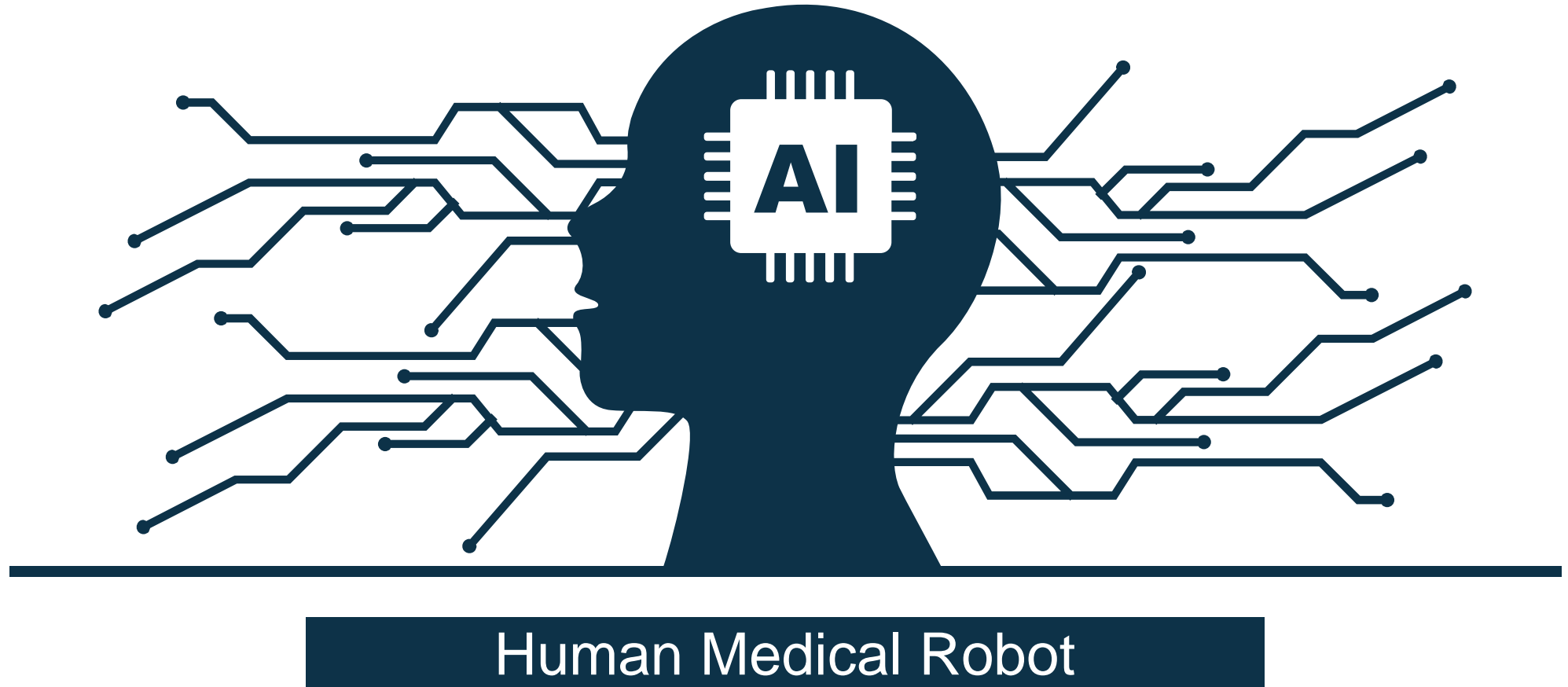
Comprehension >

Response >



**WE HAVE A ROBOT
A HUMAN PRESENCE IS
NEEDED**

Created for the needs



Perception of a condition with the outside world



Interpretation, analysis

Detailed study and detection of the patient's condition. Loading parameters with a clear picture through given previous teachings on what is best to apply.

Using cameras and sensors to recognize faces and shapes, objects by comparison make a detailed selection of what is needed and requested by the patient



Creating a database for each of the patients and storing the necessary data and parameters



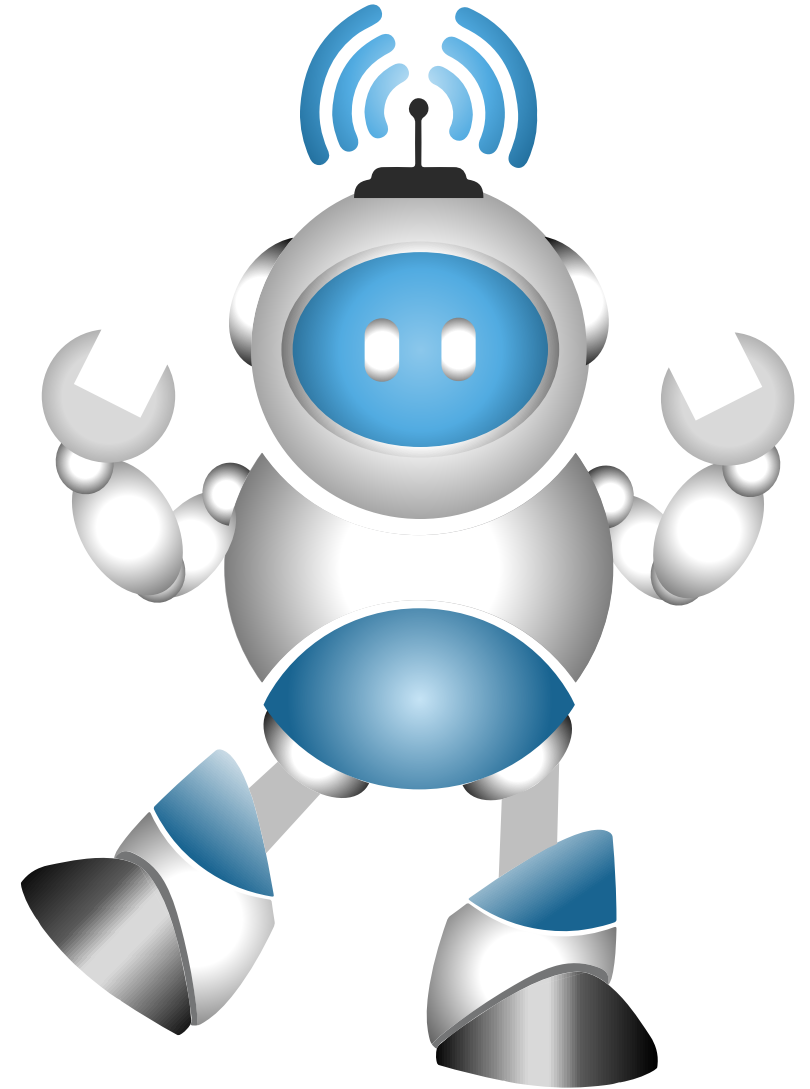
Data retrieval for each person and reuse, medical history for each previous illness

We can create
protection, care and
professionalism

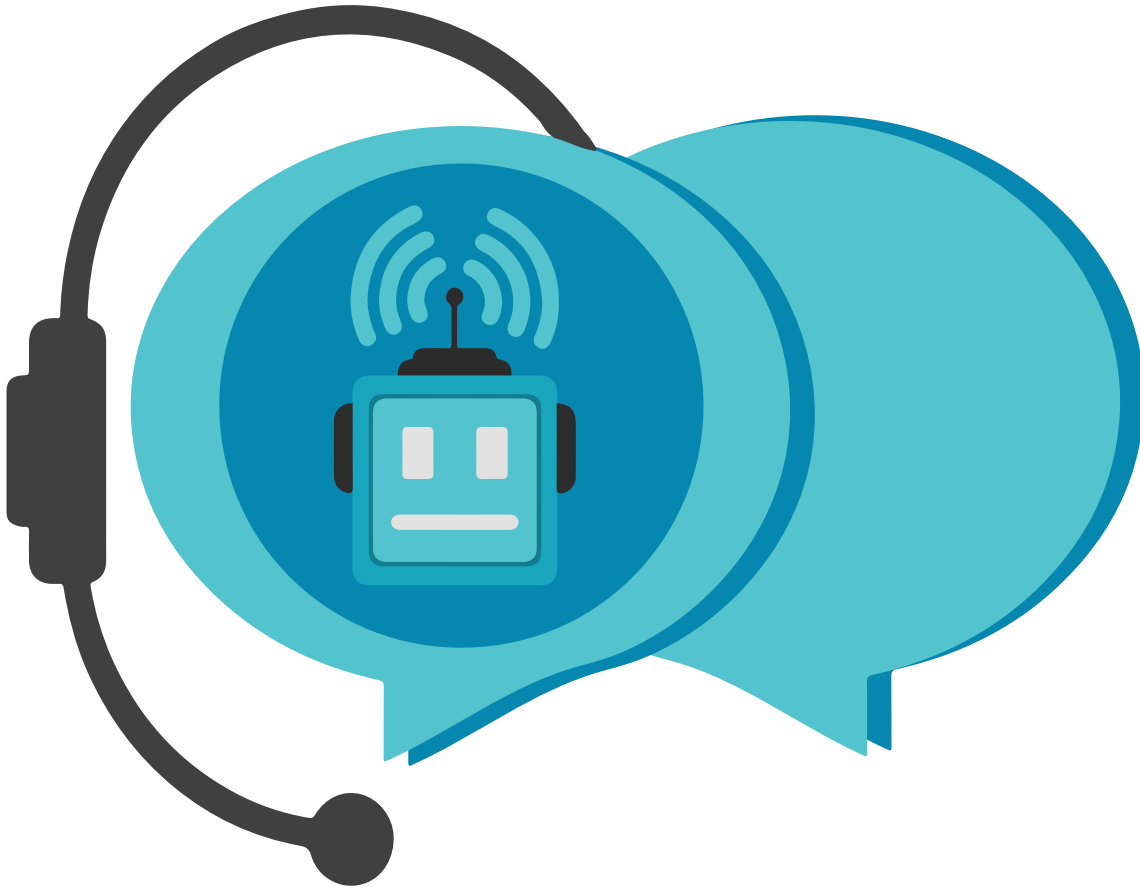
Safety

Protection

Diagnosis



Interrogation



SENSORS

Hearing

Comprehension

Response

Obedience to the order and decision

Technology



Growth of the
robot
industry



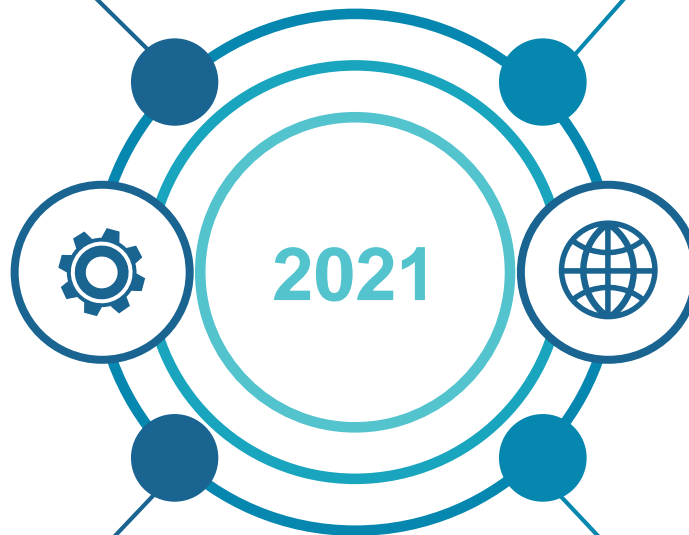
Concept



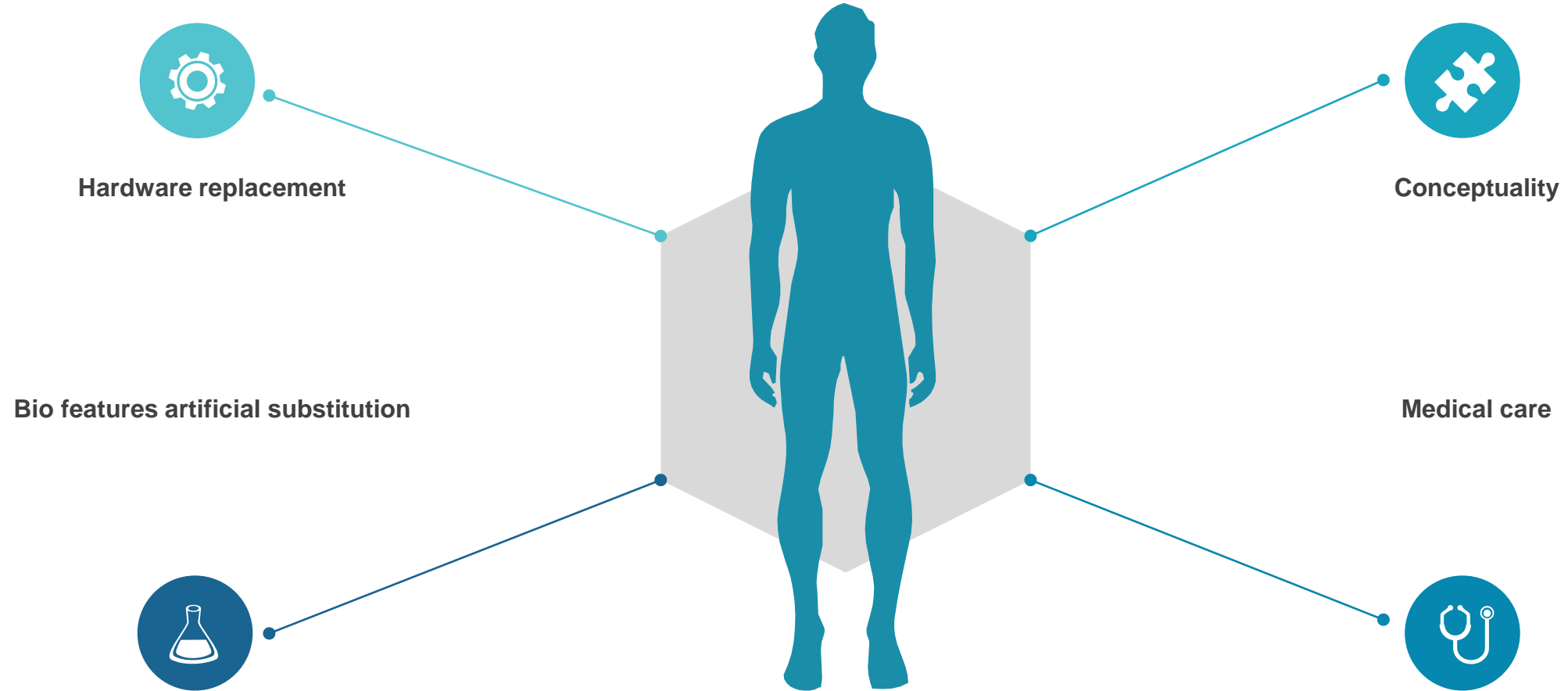
E-Communication



2021



ROBOTS BASED ON HUANS

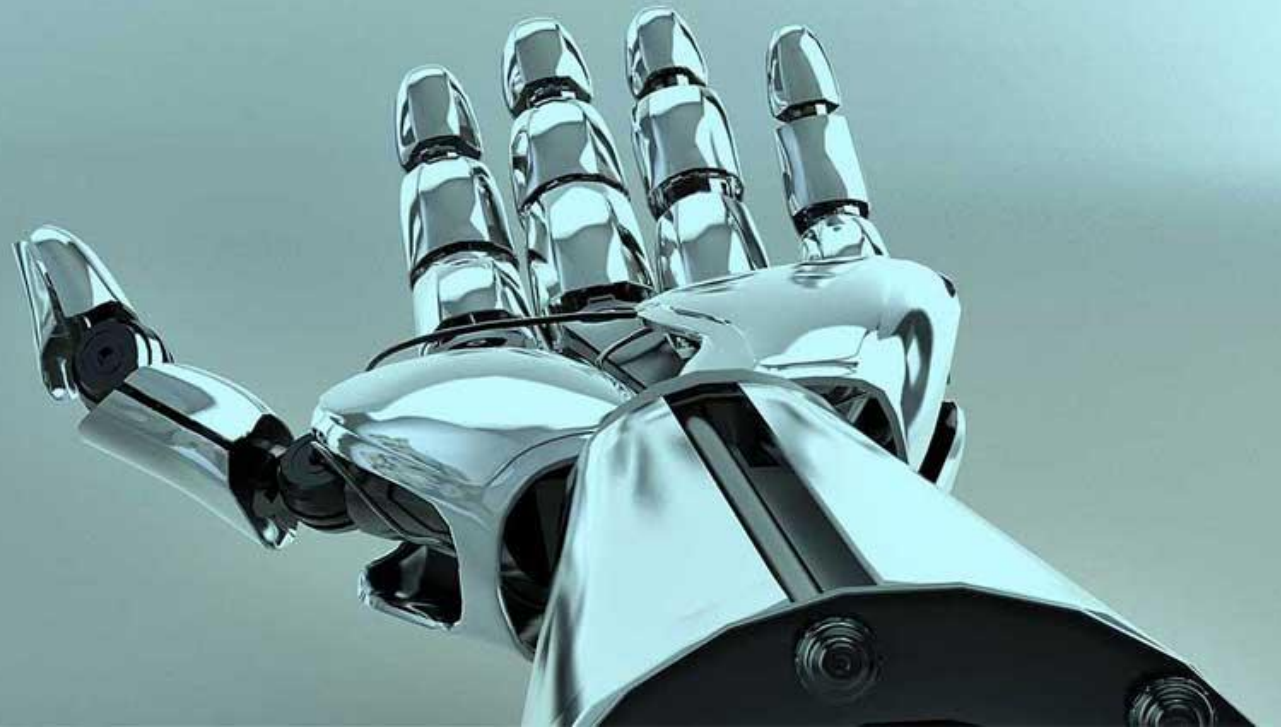
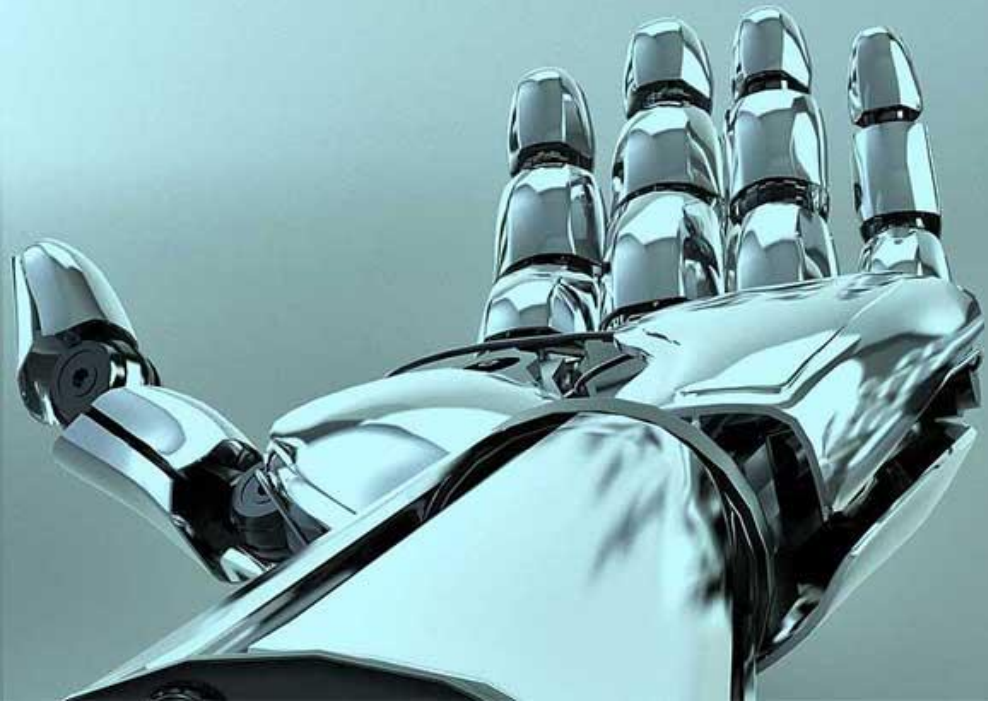


**Safe like the
human hand**

“

We can recognize
sensitivity

”



HUMAN ROBOT



The uniqueness of humanity is complicated in itself, but can be achieved through implementation and the highest standards of learning.

The story behind the project



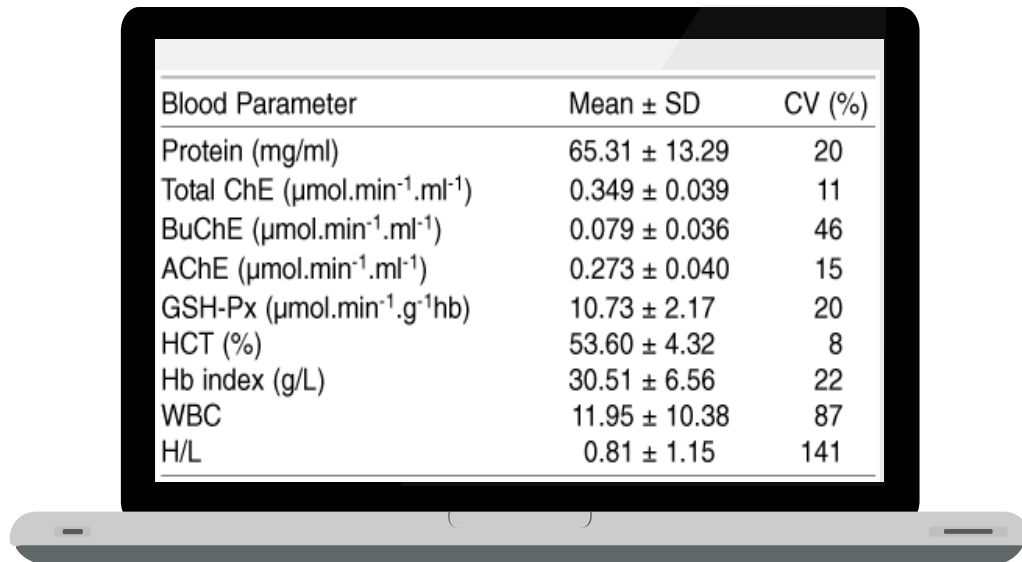
Everything a person possesses can be implemented



Database utilization



Updated Reporting



Blood Parameter	Mean \pm SD	CV (%)
Protein (mg/ml)	65.31 \pm 13.29	20
Total ChE ($\mu\text{mol}\cdot\text{min}^{-1}\cdot\text{ml}^{-1}$)	0.349 \pm 0.039	11
BuChE ($\mu\text{mol}\cdot\text{min}^{-1}\cdot\text{ml}^{-1}$)	0.079 \pm 0.036	46
AChE ($\mu\text{mol}\cdot\text{min}^{-1}\cdot\text{ml}^{-1}$)	0.273 \pm 0.040	15
GSH-Px ($\mu\text{mol}\cdot\text{min}^{-1}\cdot\text{g}^{-1}\text{hb}$)	10.73 \pm 2.17	20
HCT (%)	53.60 \pm 4.32	8
Hb index (g/L)	30.51 \pm 6.56	22
WBC	11.95 \pm 10.38	87
H/L	0.81 \pm 1.15	141

You can get your results right after they come out



Printing



Sending by e-mail



Contacts

How everything will be changed

Running on time

You will always be ready for new experiences and challenges. Everything can be done with continuous working habit.

Fluently speaking

You can see how NAO is fluently speaking with us, how he knows what we are doing and what we are expecting from him. The work with NAO is really enjoyable and interesting.

Texting messages

You can also use NAO for texting messages to him and he will respectively answer to you as soon as he can. The way NAO is very smart and fast in doing things is amazing.

Stay tuned

You can stay tuned with all the things NAO works on. It provides you with constant communication and insight into what NAO is doing. Working with him has always been a pleasure that gives a person only inspiration and enjoyment.

Watching videos

You can enjoy watching exiting videos with NAO, how we communicate with the robot and many other wonderful things that will attract your attention

Working on time

You can work with NAO for whatever you want. There are many things that NAO can do in practise, such as taking medicaments, searching for people who need help and always be on time.

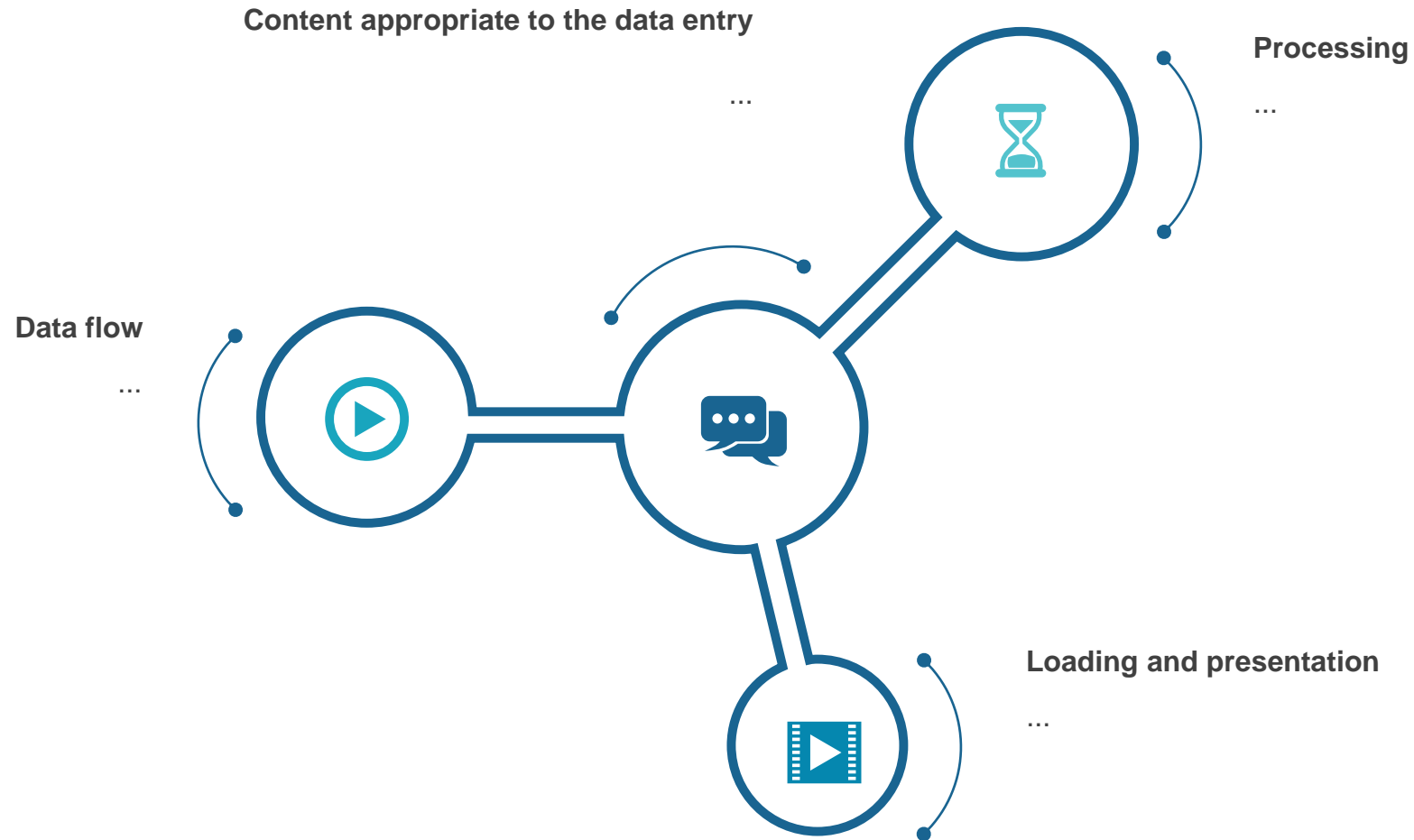


Profitability and growth



- 01 Work and busyness ...
- 02 Assistance in delivery of products ...
- 03 Reporting ...
- 04 Footage and medical supplies ...
- 05 Real person condition ...

Data entry processing



Alternative resources





Thank you!

If you have any questions,
feel free to ask us!