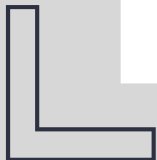


# Adventure Guard Milestone 2

Saving people since 2023





# Table of contents

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**02**

Project Timeline

**03**

System Architecture

**04**

Database Model

**05**

Workload Assignment

**06**

Website Demo

**07**

Next Steps



01

# Project Overview



# Our Team



**1072803**

Agisilaos Kolliopoulos



**1072670**

Alkiviadis Tzortzakis



**1072754**

Nikolas Filippatos



# Application

A responsive web application keeping track of individual locations and emergency alerts

## GPS Tracker

Top of the line, multifunctional GPS tracker supplied to each mountaineering enthusiast

## Multi-Purpose Button

Provided to each athlete, triggers multiple emergency states





# Main Requirements



## FiWare Integration

Provides a complete solution for the IoT backend using MQTT Broker and IoT service Agents.



## Orion Context Broker

Use of Rest API for communication between Web Server and Database with Orion Context Broker.



## Web Server & Front End



## Long Term Storage Database



02

# Project Timeline



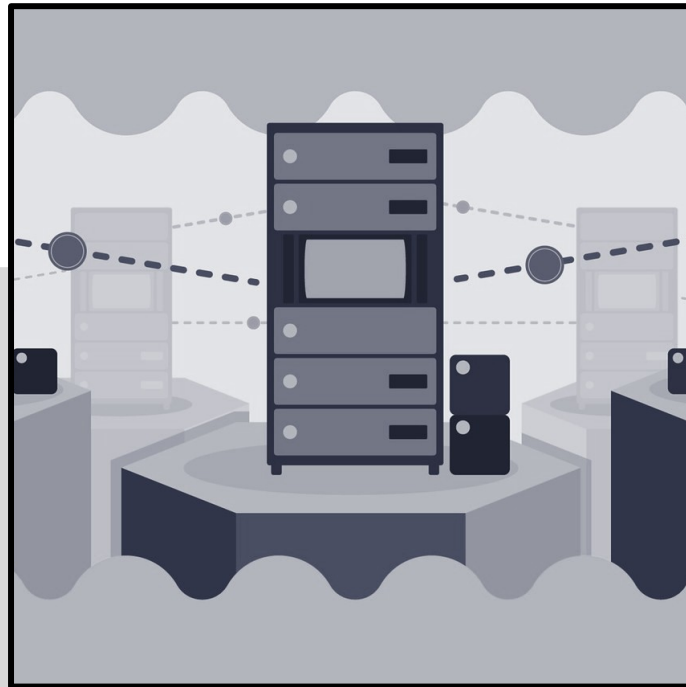
# Roadmap infographic

	Initiative	Oct		Nov				Dec				Jan		Feb		Objective
✓	Understanding															Analyze and understand the needs of the project
✓	Brainstorm ideas															Research existing products in the industry and analyze their structure, successfulness
✓	Conduct research															Generate ideas based on research, develop a simple prototype
✓	Figma Prototype															Create a basic version of the product on Figma
✓	System Prototype															Develop the internal system structure on code, testing
✓	Final Demo															Present a working demo and analyse feedback



03

# System Architecture

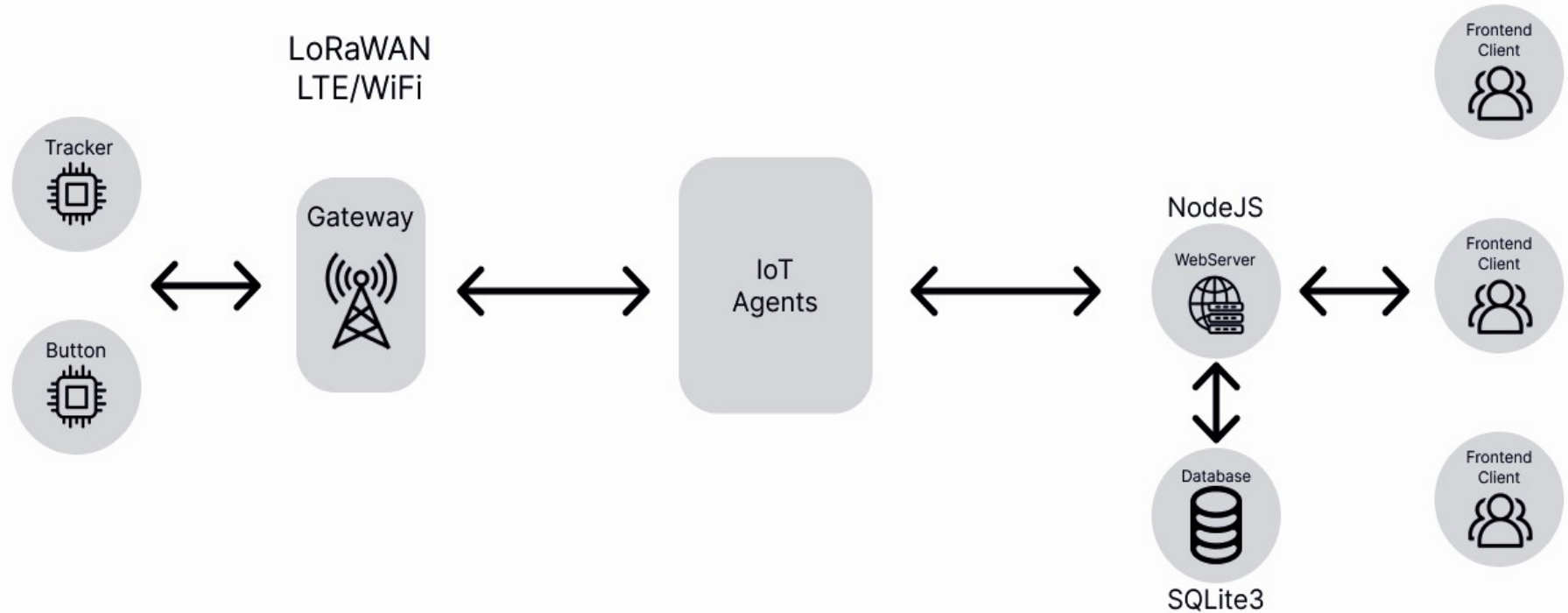


Devices

Gateway

Cloud

Application



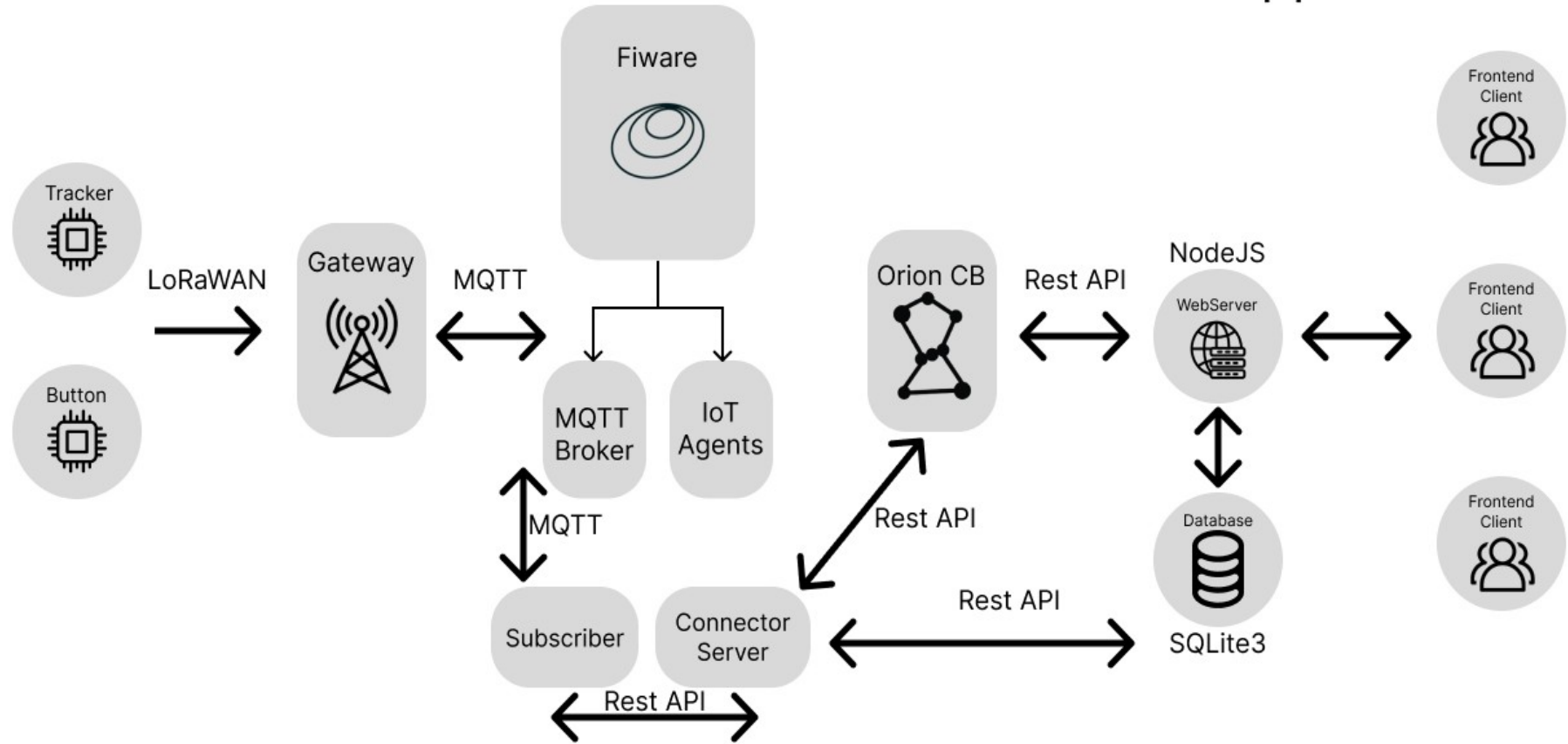
Simple System Structure

Devices

LoRaWAN

Cloud

Application



 Detailed System Structure

**04**

# Database Model



# Database Model - SQLite3 (Temporary)

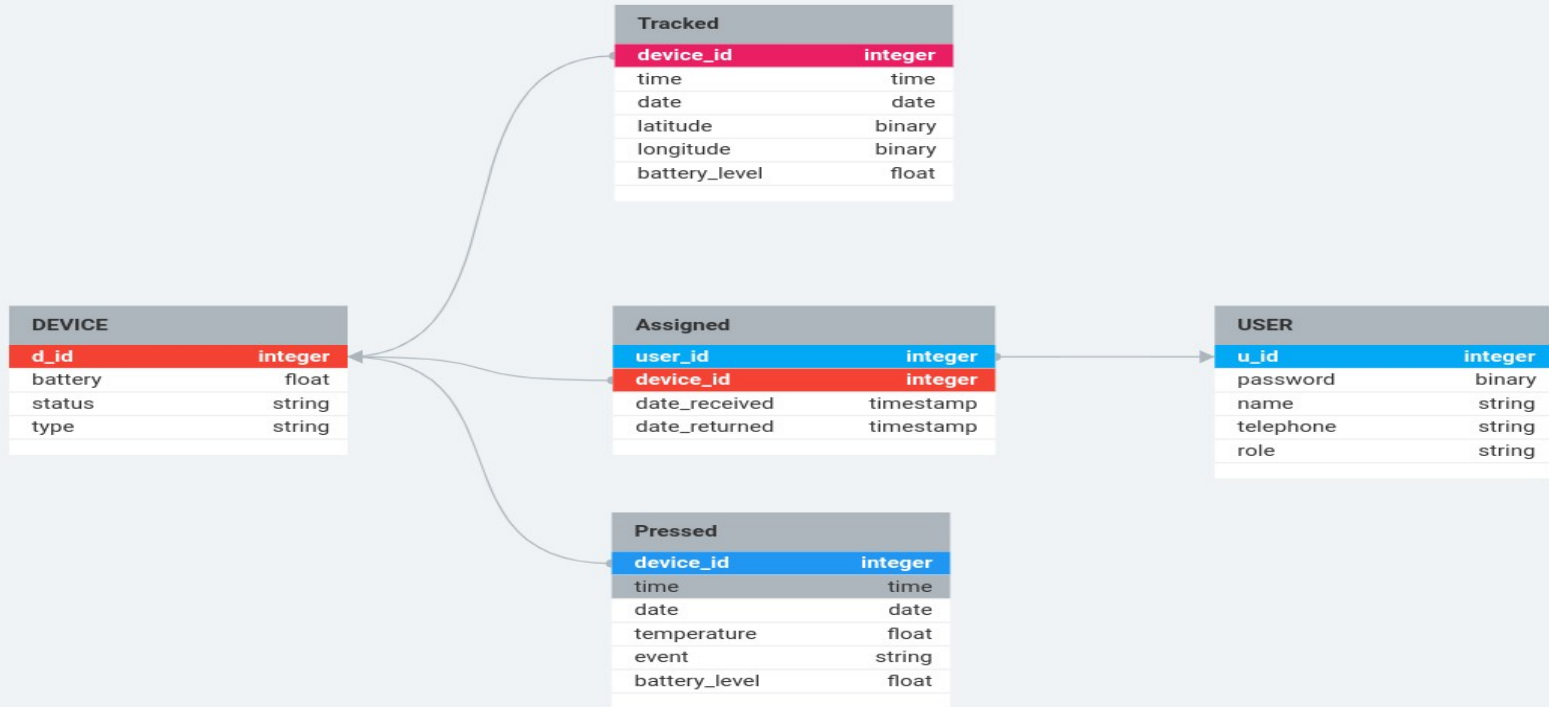
USER
u_id
password
name
telephone
role

Assigned
user_id
device_id
date_received
date_returned

Tracked
device_id
time
date
latitude
longitude
battery_level

Pressed
device_id
time
date
temperature
event
battery_level

DEVICE
d_id
battery
status
type



# Database Structure

**05**



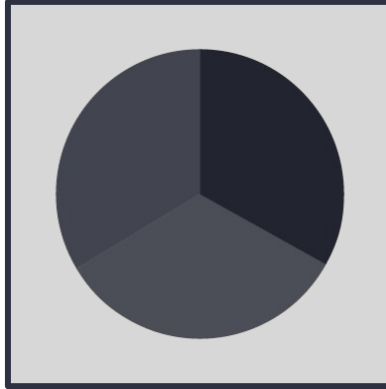
# Workload Assignment



# Team Assignment

Nikolas  
Filippatos

- System Back End
- Website Hosting
- Device Integration
- Documentation



Alkiviadis  
Tzortzakis

- System Research
- Design
- System Front End
- Business Plan

Agisilaos  
Kolliopoulos

- System Research
- System Back End
- Database Management
- Documentation

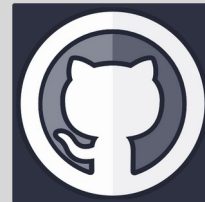



06


# Web Application







# GitHub





 **IOT-Project-2023** Public



 Watch **1**

 **frontend\_development** had recent pushes 22 minutes ago [Compare & pull request](#)

 main  5 Branches  0 Tags

 Add file

 Code

 **nikolasfil** final update of the database 9e2336c · 2 hours ago  499 Commits

📁 DockerFiles	removed cluttering Docker compose ymls	last week
📁 docs	one more function to documentation	2 days ago
📁 node_servers	final update of the database	2 hours ago
📁 python_servers	final upload	15 hours ago
📄 .gitignore	Temp Fix	2 days ago
📄 README.md	updating general documentation of the project	5 days ago
📄 docker-compose.yml	final upload	15 hours ago

**Contributors** **3**

 **nikolasfil** Nikolas Filippatos

 **agis22**

 **ALKABOURAS**

**Languages**



 **JavaScript** 34.5%

 **Python** 32.6%

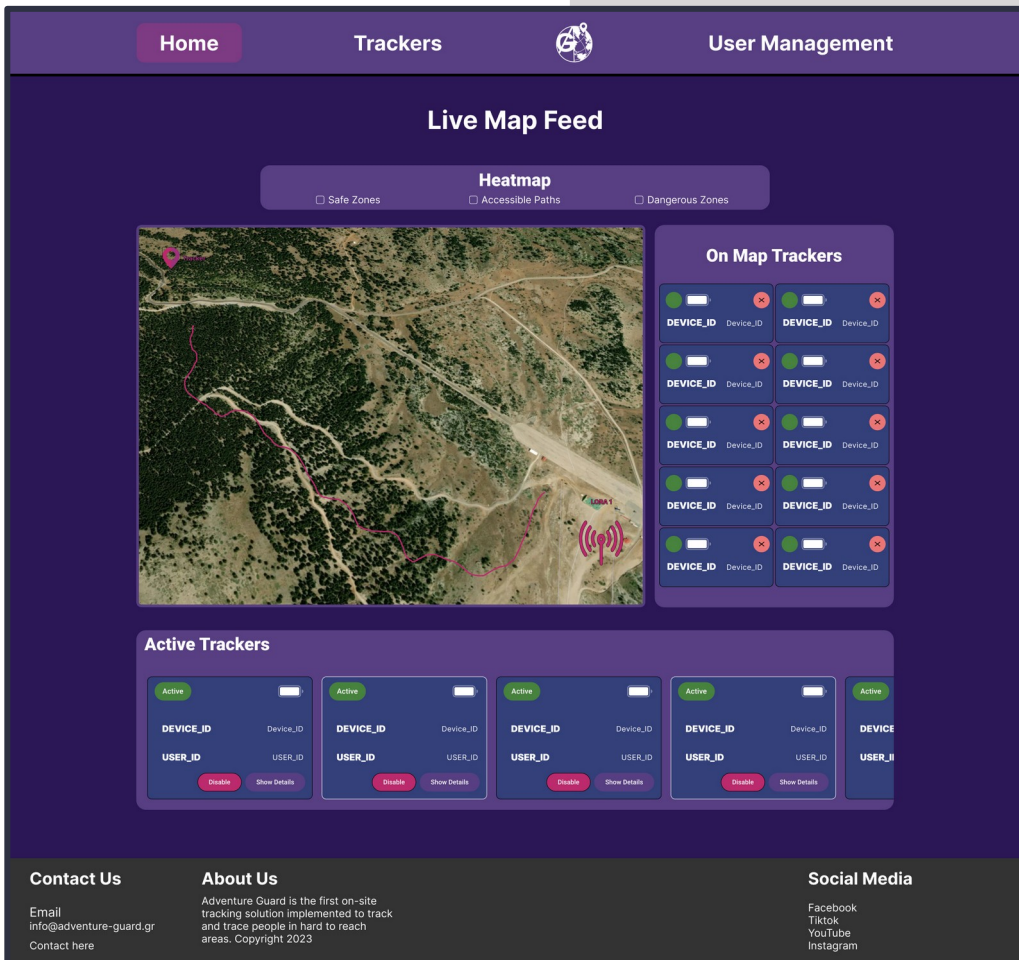
 **Handlebars** 17.8%

 **CSS** 15.1%



GitHub Page





# Before

# Home

## Contact Us

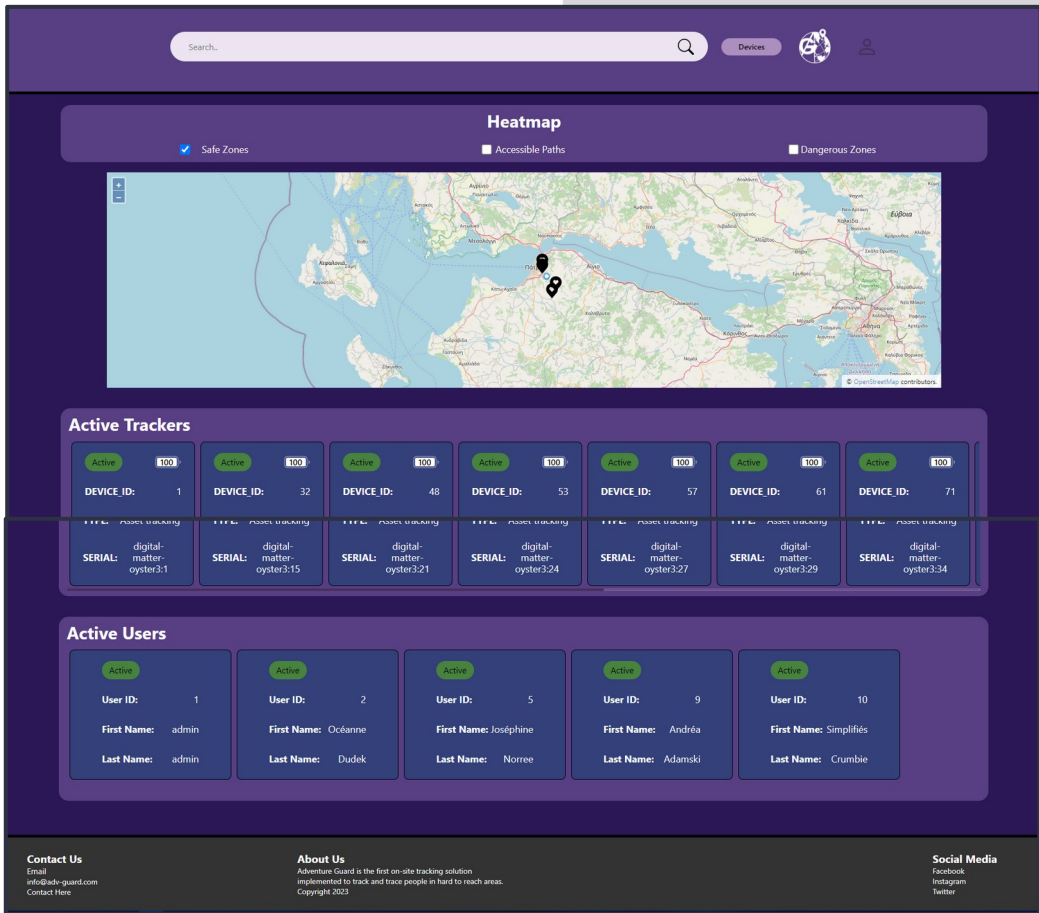
Email  
info@adventure-guard.gr  
Contact here

## About Us

Adventure Guard is the first on-site tracking solution implemented to track and trace people in hard to reach areas. Copyright 2023

## Social Media

Facebook  
TikTok  
YouTube  
Instagram



# After

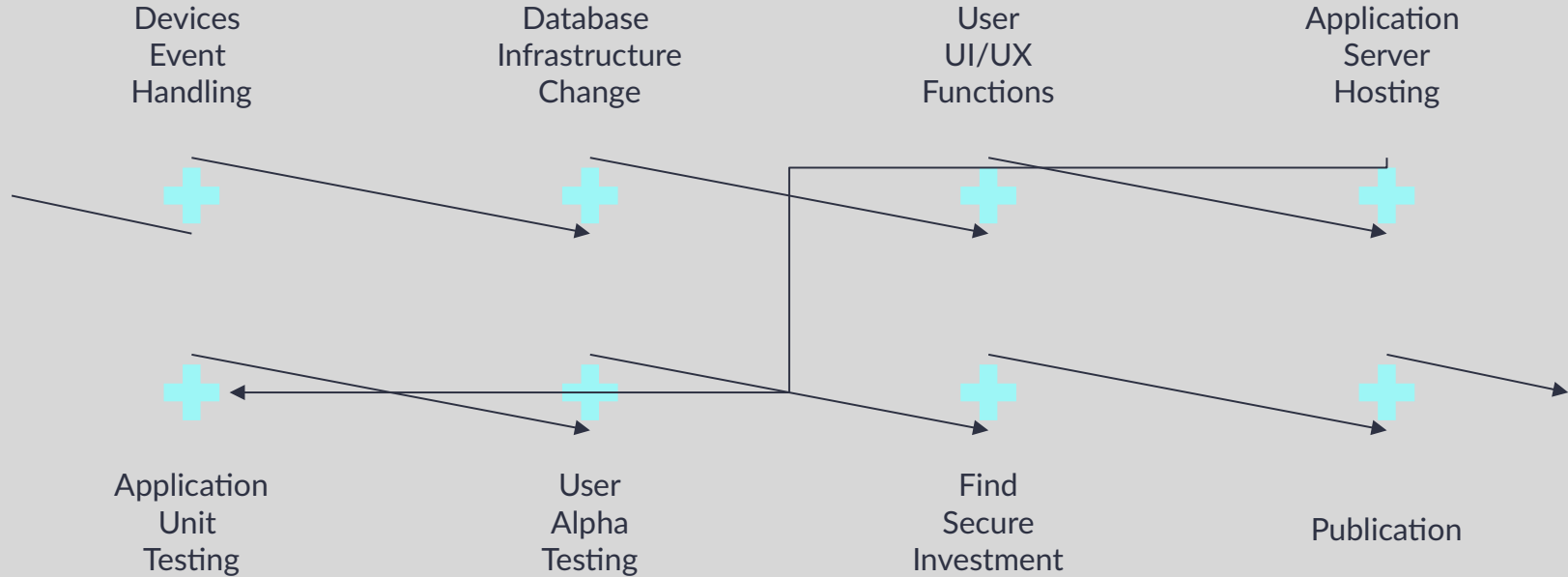
# Home

07

# Next Steps



# Timeline of the next updates





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08

# Business Model







# Business Model - Device Combos

## 1 Tracker

1 Admin

Up to 10 active  
trackers

Standard Support

**169.99 / Combo**

## 10 Trackers

Up to 5 Admins

Up to 50 active trackers

Extended Support

**159.99 / Combo**

## 100 Trackers

Up to 10 admins

Up to 100 active trackers

Premium Support


**149.99 / Combo**





# Business Model - App Subscription

Monthly	Semi-annually	Annually
1 Admin	Up to 5 Admins	Up to 10 admins
Up to 10 active trackers	Up to 50 active trackers	Up to 100 active trackers
Essentials Support	Essentials Support, Eligible for Advanced	Essentials Support, Eligible for Premium
<b>14.99 / Tracker</b>	<b>9.99 / Tracker</b>	<b>4.99 / Tracker</b>





# Business Model - Support Packages

## Essentials

24/7 App Support

On-site support  
1-5 Business days

-25% Device Replacement  
Cost

**9.99 / Month**

## Advanced

24/7 App Support

On-site support  
1-3 Business days

-50% Device Replacement  
Cost

**19.99 / Month**

## Premium

24/7 App Support

Express On-site support  
1 Business day

-75% Device Replacement  
Cost

**29.99 / Month**

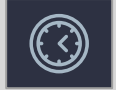


# Mountaineering accidents

## Leading Causes



Never reported



Slow discovery time



Late response from rescue teams



# Our Target Group



Commercial  
Mountaineering Business



Commercial  
Skiing Chalets



Commercial



Extreme Sports  
Events Organisers



# Application

A responsive web application keeping track of individual locations and emergency alerts

## GPS Tracker

Top of the line, multifunctional GPS tracker supplied to each mountaineering enthusiast

## Multi-Purpose Button

Provided to each athlete, triggers multiple emergency states



# Multi-Purpose Button



- **Tap Action**

Single  
Double  
Triple



Emergency  
State  
Update

- **Temperature Sensor**

Critical  
Temp  
Change



Possible  
Emergency  
Alert

- **Ultra Low Power Consumption**





[Home](#)[Trackers](#)[User Management](#)

Live Map Feed

Heatmap

☐ Safe Zones☐ Accessible Paths☐ Dangerous Zones

On Map Trackers

<input type="checkbox"/>	<input type="checkbox"/>
DEVICE_ID Device_ID	DEVICE_ID Device_ID
<input type="checkbox"/>	<input type="checkbox"/>
DEVICE_ID Device_ID	DEVICE_ID Device_ID
<input type="checkbox"/>	<input type="checkbox"/>
DEVICE_ID Device_ID	DEVICE_ID Device_ID
<input type="checkbox"/>	<input type="checkbox"/>
DEVICE_ID Device_ID	DEVICE_ID Device_ID
<input type="checkbox"/>	<input type="checkbox"/>
DEVICE_ID Device_ID	DEVICE_ID Device_ID

Active Trackers

<div>Active </div> <div>DEVICE_ID Device_ID</div> <div>USER_ID USER_ID</div> <div>Disable Show Details</div>	<div>Active </div> <div>DEVICE_ID Device_ID</div> <div>USER_ID USER_ID</div> <div>Disable Show Details</div>	<div>Active </div> <div>DEVICE_ID Device_ID</div> <div>USER_ID USER_ID</div> <div>Disable Show Details</div>	<div>Active </div> <div>DEVICE_ID Device_ID</div> <div>USER_ID USER_ID</div> <div>Disable Show Details</div>	<div>Active </div> <div>DEVICE_ID Device_ID</div> <div>USER_ID USER_ID</div> <div>Disable Show Details</div>
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Contact Us

About Us

Social Media

# Application

**Geographical Checkpoints:** Safe zones, where no alarms are raised

## Map:

- Heatmap with more easily accessible paths, collected from the database geo-locations
- Heatmap with the locations for the most dangerous zones, based on SOS calls and accidents
- Viewing all trackers on a single map

**Send Alert Button:** Instantly contact the authorities with the trackers info

**Sports Mode Configuration:** Different tracking mode based on activity expectations

### Contact Us

Email  
[info@adventure-guard.gr](mailto:info@adventure-guard.gr)  
Contact here

### About Us

Adventure Guard is the first on-site tracking solution implemented to track and trace people in hard to reach areas. Copyright 2023

### Social Media

Facebook  
Tiktok  
YouTube  
Instagram



# Statistics

ΣΥΧΝΟΤΗΤΑ ΜΕΤΑΦΟΡΑΣ ΦΑΡΜΑΚΕΙΟΥ	ΣΥΧΝΟΤΗΤΑ ΜΕΤΑΦΟΡΑΣ ΑΣΥΡΜΑΤΟΥ
ΠΑΝΤΑ - ΣΧ. ΠΑΝΤΑ : 59,2%	ΠΑΝΤΑ - ΣΧ. ΠΑΝΤΑ : 8%
ΜΕΡΙΚΕΣ ΦΟΡΕΣ : 22%	ΜΕΡΙΚΕΣ ΦΟΡΕΣ : 4,5%
ΣΠΑΝΙΑ - ΠΟΤΕ : 18,8%	ΣΠΑΝΙΑ - ΠΟΤΕ : 87,5%

**ΠΙΝΑΚΑΣ 1.2.5**

**ΟΜΑΔΑ 1: ΠΑΡΑΚΟΛΟΥΘΗΣΗ ΣΧΟΛΗΣ (ΟΜΑΔΟΠΟΙΗΣΗ)**

ΣΥΧΝΟΤΗΤΑ ΜΕΤΑΦΟΡΑΣ ΦΑΡΜΑΚΕΙΟΥ	ΣΥΧΝΟΤΗΤΑ ΜΕΤΑΦΟΡΑΣ ΑΣΥΡΜΑΤΟΥ
ΠΑΝΤΑ - ΣΧ. ΠΑΝΤΑ : 48,4%	ΠΑΝΤΑ - ΣΧ. ΠΑΝΤΑ : 6%
ΜΕΡΙΚΕΣ ΦΟΡΕΣ : 12%	ΜΕΡΙΚΕΣ ΦΟΡΕΣ : 4%
ΣΠΑΝΙΑ - ΠΟΤΕ : 39,6%	ΣΠΑΝΙΑ - ΠΟΤΕ : 90%

**ΠΙΝΑΚΑΣ 1.2.6**

**ΟΜΑΔΑ 2: ΜΗ ΠΑΡΑΚΟΛΟΥΘΗΣΗ ΣΧΟΛΗΣ (ΟΜΑΔΟΠΟΙΗΣΗ)**

ΜΟΝΟΣ	12 ΠΕΡΙΠΤΩΣΕΙΣ
ΜΕ ΒΟΗΘΕΙΑ ΠΑΡΟΝΤΩΝ ΑΤΟΜΩΝ	34 -//-
ΜΕ ΟΜΑΔΑ ΔΙΑΣΩΣΗΣ	3 -//-

**ΠΙΝΑΚΑΣ 2.3.1**  
**ΑΝΤΙΜΕΤΩΠΙΣΗ ΑΤΥΧΗΜΑΤΟΣ**

Από 0 μέχρι και 0,5 ώρα	16 Περιπτώσεις
Από 0,5 μέχρι και 1 ώρα	5 -//-
Από 1 μέχρι και 24 ώρες	9 -//-

**ΠΙΝΑΚΑΣ 3.1.1**  
**ΧΡΟΝΟΣ ΕΙΔΟΠΟΙΗΣΗΣ ΟΜΑΔΑ ΔΙΑΣΩΣΗΣ**

Από 0 μέχρι και 0,5 ώρα	7 Περιπτώσεις
Από 0,5 μέχρι και 1 ώρα	6 -//-
Από 1 μέχρι και 5 ώρες	9 -//-
Πάνω από 5 ώρες	4 -//-

**ΠΙΝΑΚΑΣ 3.1.2**  
**ΧΡΟΝΟΣ ΜΕΤΑΒΑΣΗΣ ΤΗΣ ΟΜΑΔΑΣ ΔΙΑΣΩΣΗΣ  
ΣΤΟΝ ΤΟΠΟ ΤΟΥ ΑΤΥΧΗΜΑΤΟΣ**

# Our Team



**1072803**

Agisilaos Kolliopoulos



**1072670**

Alkiviadis Tzortzakis

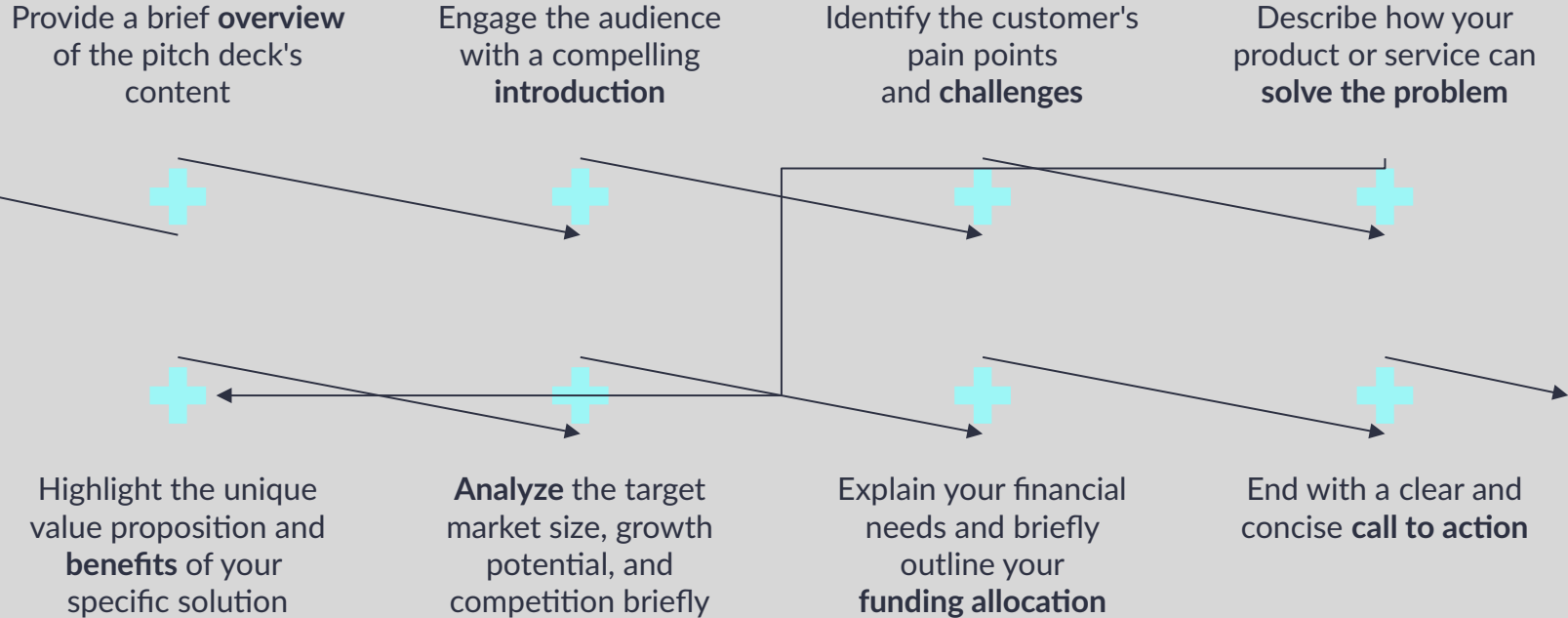


**1072754**

Nikolas Filippatos



# Timeline of your presentation





# Contents of this template

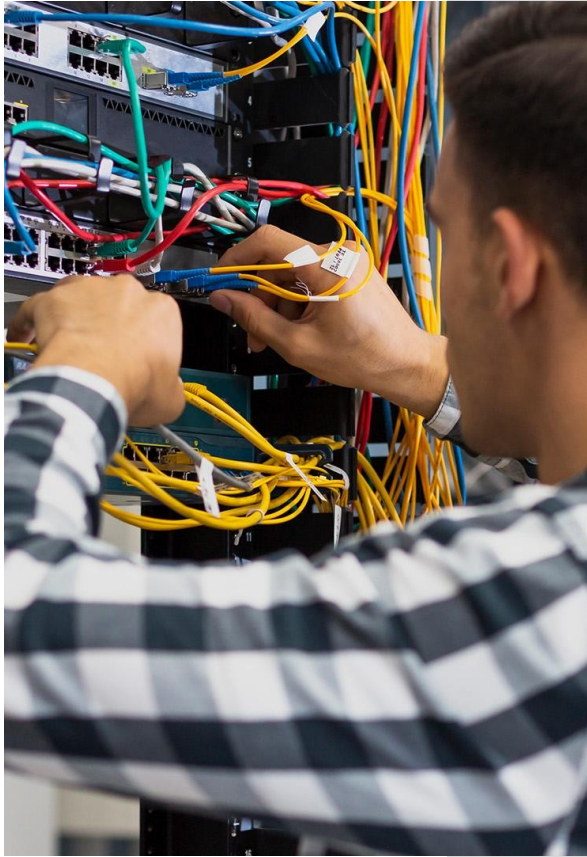
You can delete this slide when you're done editing the presentation

<b><u>Fonts</u></b>	To view this template correctly in PowerPoint, download and install the fonts we used
<b><u>Used and alternative resources</u></b>	An assortment of graphic resources that are suitable for use in this presentation
<b><u>Thanks slide</u></b>	You must keep it so that proper credits for our design are given
<b><u>Colors</u></b>	All the colors used in this presentation
<b><u>Icons and infographic resources</u></b>	These can be used in the template, and their size and color can be edited
<b>Editable presentation theme</b>	You can edit the master slides easily. For more info, click <b><u>here</u></b>

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# What is a pitch deck?

A pitch deck is a short presentation that entrepreneurs use to describe their business and present it to potential investors. It usually consists of about 10 slides with:

- An overview of the company's mission and the product or service offered
- Market opportunity
- Team, financials, etc.

The goal is to garner enough interest from investors so that they are motivated to invest in the business





# Main ideas of a pitch deck



## Presentation

A great presentation for a pitch deck should be concise, clear and easy to understand. Visual elements such as charts, graphs, images, and videos can help to make the presentation engaging



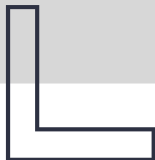
## Investors

When it comes to picking investors for a pitch deck, it's important to research potential investors and understand their preferences, goals and interests



## Value

The value of a product is determined by how much customers are willing to pay for it. It's a combination of factors, including the quality of the product, its features, and how well it meets customer needs



# Introduction



## Our company

The introduction of your company in the pitch deck should include a brief overview of who you are and what you do. It should also include a brief description of why your product or service is unique and the value it provides to customers



## Our idea

The “our idea” part of a pitch deck should include an explanation of your product/service, how it works, and what the customer value is. You should also explain the market opportunity for your product/service

# Key ideas in market opportunity



## Research new markets

Analyze existing customer needs and identify gaps in the market to find new opportunities



## Innovative solutions

Utilize technology and customer feedback to come up with novel solutions that meet your customer's demands or needs



## Stay ahead of trends

Monitor changes in the marketplace, such as shifts in consumer behavior or emerging technologies, to stay competitive and capitalize on new opportunities and trends



## Seasonal spikes

Identify times of year when demand for certain products may spike, such as holidays or special occasions, and use these times to target customers or maximize sales







# Six recommendations

## Keep it simple

Structure your pitch deck clearly and make sure all the important points are easy to understand

## Use visuals

Incorporate visuals or graphics to illustrate your message and keep the audience engaged

## Keep it short

A good pitch deck should be concise and clear; avoid trying to cram in too much information

## Make it memorable

Include impactful stories, statistics, or facts that will help your audience remember your message afterwards

## Test & iterate

Practice presenting your deck beforehand with friends or colleagues for feedback, then use this input to refine it further

## Main points

A pitch deck is an overview of your business; focus on key points that get the most important ideas across



# 333,000

Users bought our product

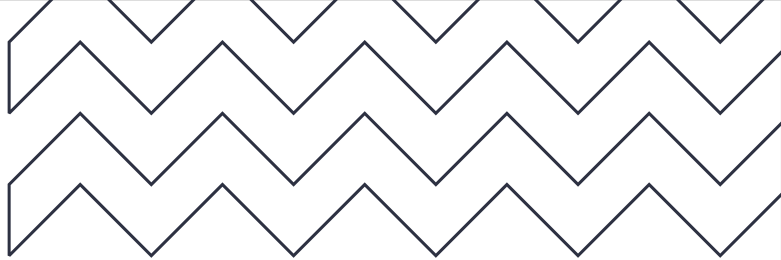
# 9h 55m 23s

Estimated delivery time per unit

# 386,000 km

Avg. distance travelled by logistics team





# 4,498,300,000

Number of users analyzed in our market research



# Revenue by quarter

Q1

January - March

Q2

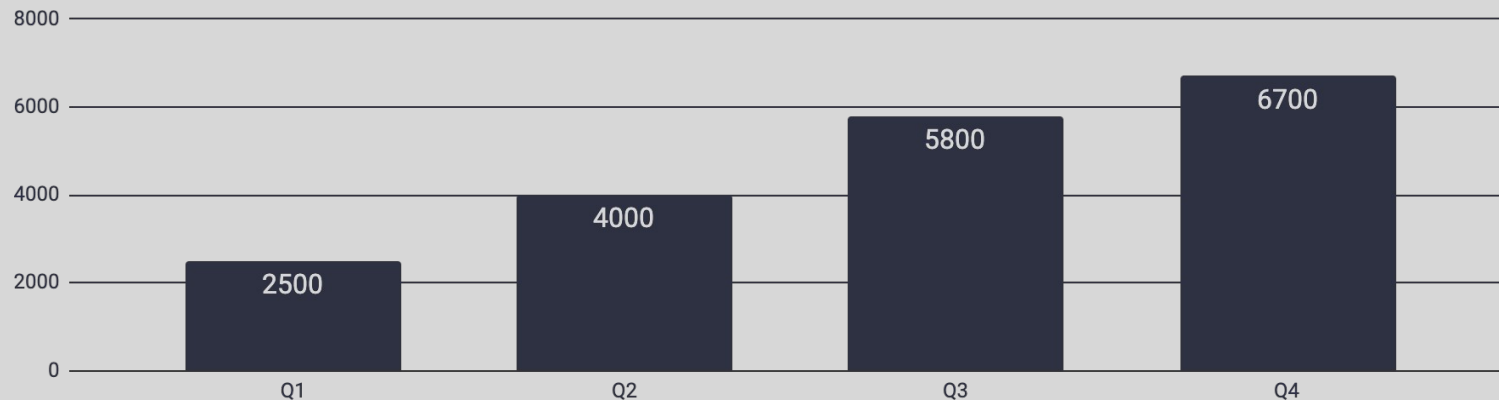
April - June

Q3

July - September

Q4

October - December



Follow the link in the graph to modify its data and then paste the new one here. [For more info, click here](#)

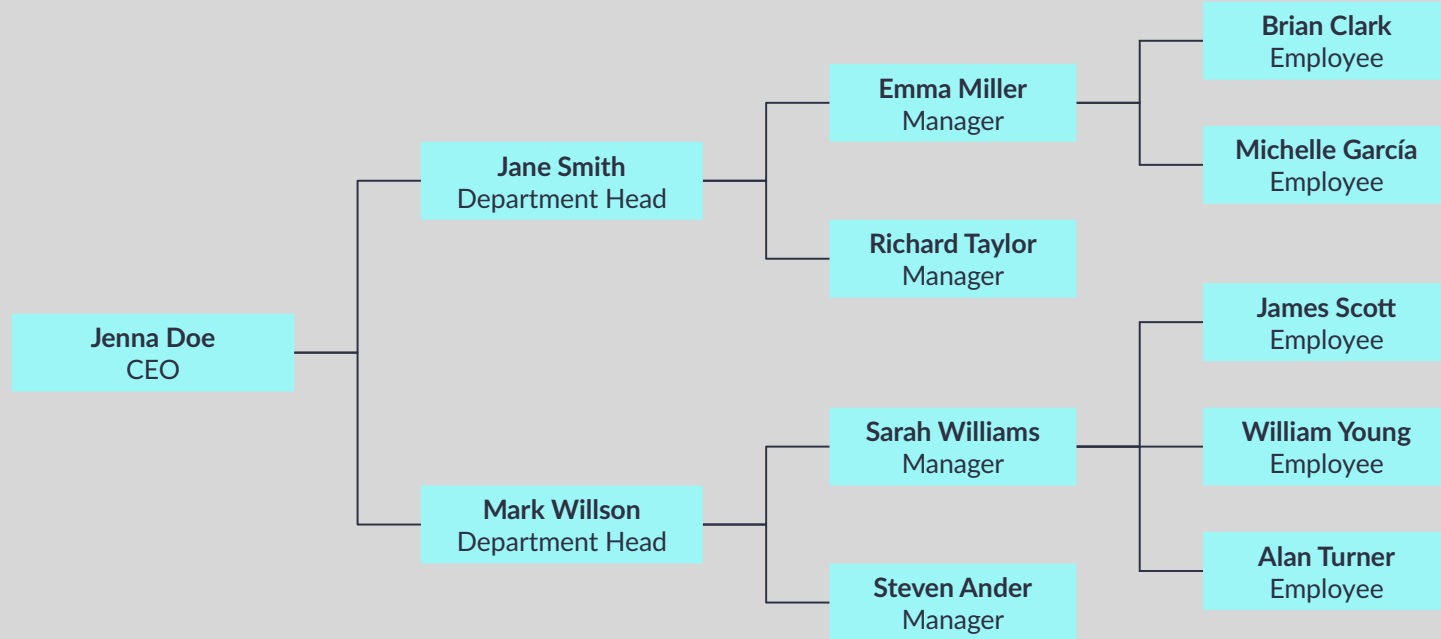


# Competition comparison

	Features	Value	Pricing	Trial	Competence	Share
Company A	Fuel economy	Special offers	\$23,000	No	Low	8%
Company B	Design	Reliability	\$27,000	No	Low	5%
Company C	Performance	Repairs	\$30,000	Yes	High	20%
Company D	Safety features	Marketing	\$24,000	No	High	22%
Company E	Technology	Customers	\$32,000	Yes	Low	10%
Company F	Comfort	Best prices	\$15,000	Yes	High	30%
Company G	Customization	Brand name	\$45,000	No	Low	5%



# Organizational chart



# Market size overview

## Outer circle

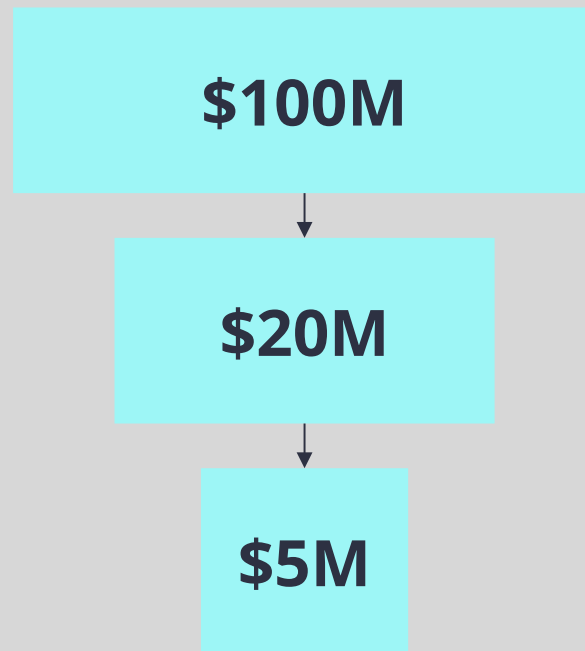
Include the total size of the market, which represents the entire potential customer base for the product or service

## Middle circle

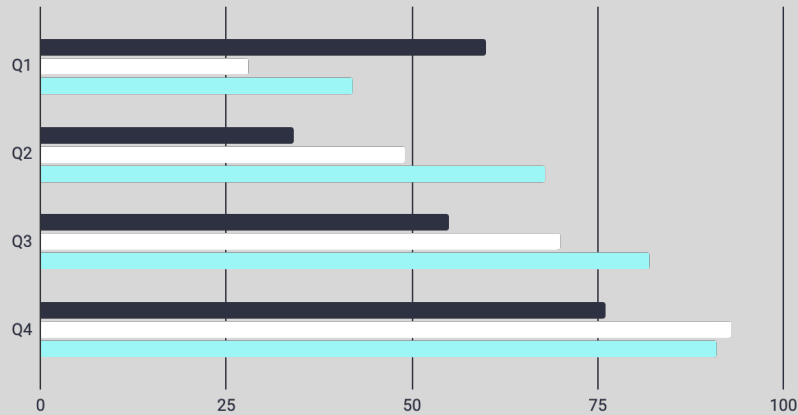
Identify the target market for the product or service, which may be a subset of the total market. This could be based on factors such as demographics, geography, or specific needs

## Inner circle

Indicate the current market size, which represents the portion of the target market that the company has successfully captured



# KPI dashboard



**\$4,000,000**

Revenue

**\$100,000**

General costs

**\$5,000**

Profit

Product	Units	Revenue	Returns
Item 1	500	2,000,000	40
Item 2	1,000	50,750	10
Item 3	250	1,500,000	300
Item 4	500	2,000,000	40
Item 5	1,000	50,750	10
Item 6	250	1,500,000	300
Item 7	500	2,000,000	40
Item 8	1,000	50,750	10

Follow the link in the graph to modify its data and then paste the new one here. [For more info, click here](#)





# Thanks!

Do you have any questions?

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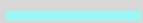
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# Alternative resources

Here's an assortment of alternative resources whose style fits the one of this template:

## Vectors

- [Mechanic instagram stories collection](#)
- [Mechanic landing page template with photo](#)
- [Mechanic double-sided business card](#)
- [Mechanic flyer template with photo](#)
- [Mechanic flyer template with photo](#)





# Resources

Did you like the resources in this template? Get them at these websites:

## Vectors

- [Gym training twitch banner](#)
- [Gym training instagram posts](#)
- [Gym training youtube channel art](#)
- [Gym training twitch background](#)
- [Gym training twitter header](#)
- [Gym training landing page template](#)
- [Gym training youtube thumbnail](#)

## Photos

- [Side view man using laptop outdoors](#)
- [Young man working on an ethernet switch](#)
- [Detailed view of a computer circuit board](#)



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**Lato**

(<https://fonts.google.com/specimen/Lato>)

#2d3142

#d7d7d7

#ffffff

#9df6f6

# Storyset

Create your Story with our illustrated concepts. Choose the style you like the most, edit its colors, pick the background and layers you want to show and bring them to life with the animator panel! It will boost your presentation. Check out [how it works.](#)



Pana



Amico



Bro



Rafiki



Cuate

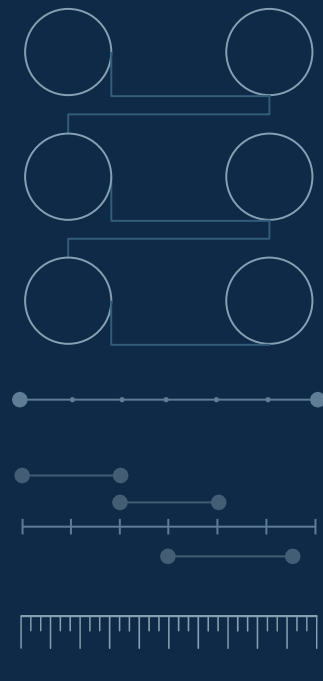
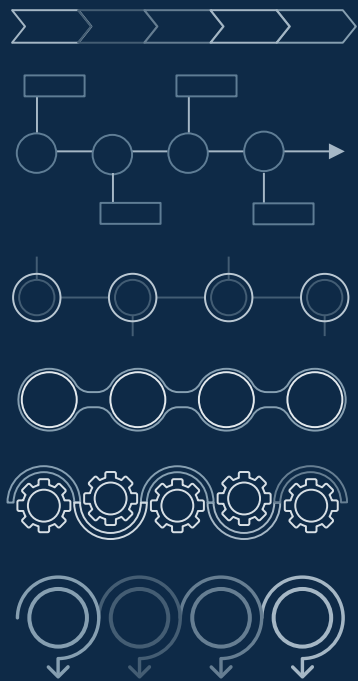
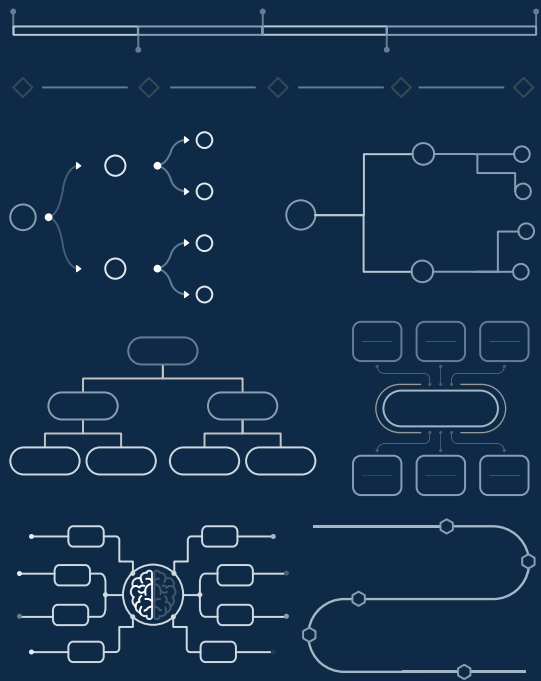
# Use our editable graphic resources...

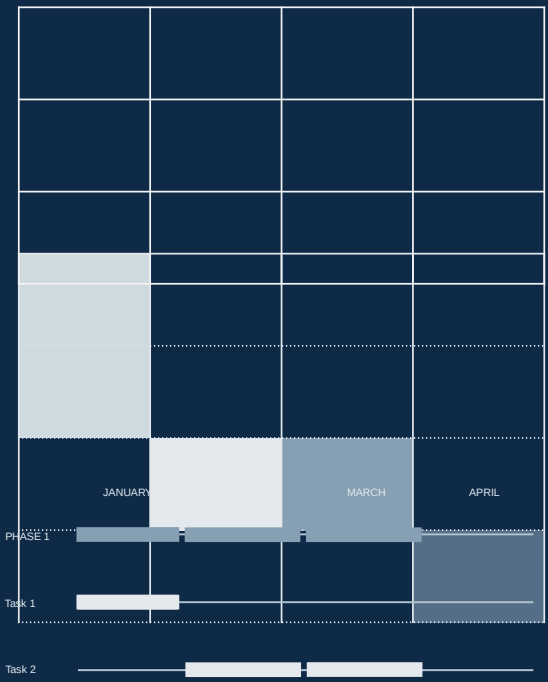
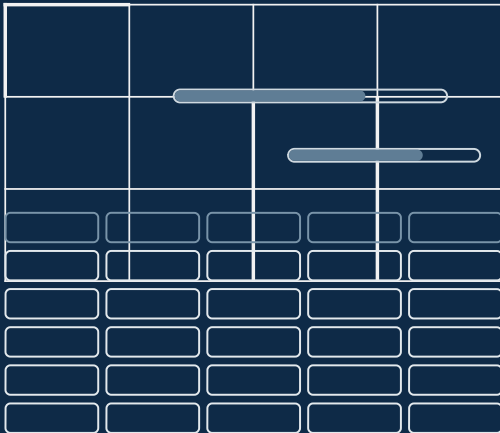
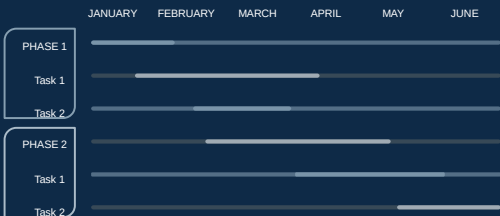
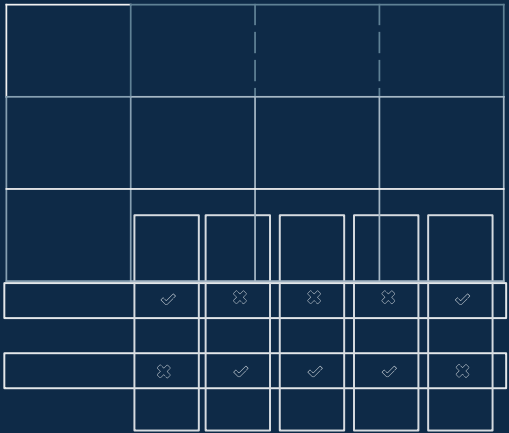
You can easily **resize** these resources without losing quality. To **change the color**, just ungroup the resource and click on the object you want to change. Then, click on the paint bucket and select the color you want. Group the resource again when you're done. You can also look for more [infographics](#) on Slidesgo.



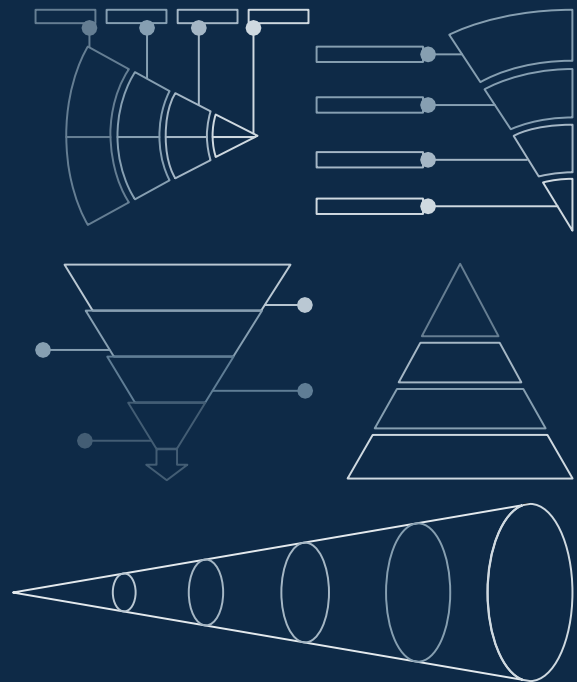
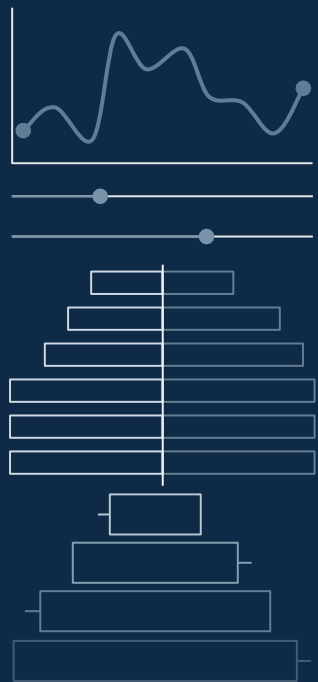
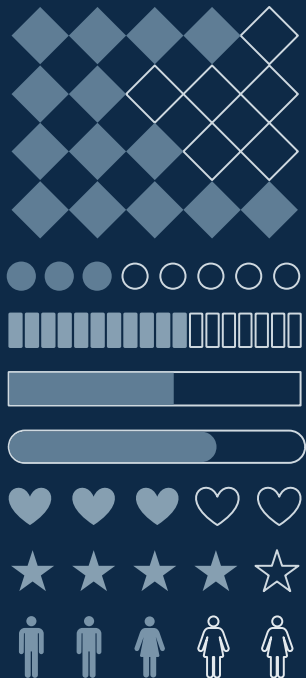
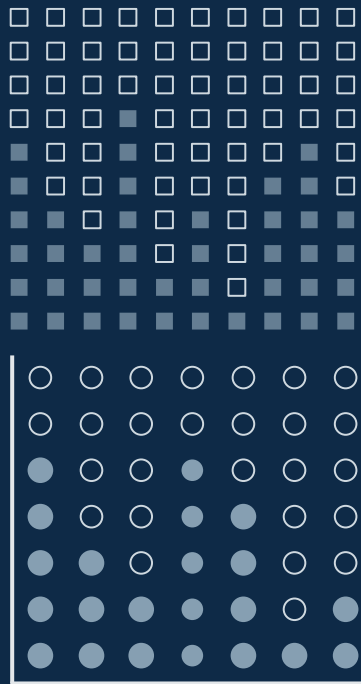












# ...and our sets of editable icons

You can **resize** these icons without losing quality.

You can **change the stroke and fill color**; just select the icon and click on the **paint bucket/pen**.

In Google Slides, you can also use [Flaticon's extension](#), allowing you to customize and add even more icons.



## Educational Icons



## Medical Icons



## Business Icons



## Teamwork Icons





## Help & Support Icons



## Avatar Icons



## Creative Process Icons



## Performing Arts Icons



# Nature Icons

