

# **Hydrogen as Fuel**

## *PROJECT PROPOSAL*

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# How does Hydrogen Fuel work?

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You can enter a subtitle here if you need it

# Hydrogen Cell Function

1. Hydrogen fuel cells generate electricity using a chemical reaction
2. Hydrogen acts as the basic fuel in a hydrogen fuel cell, but the cell also needs oxygen to work
3. Develop a budget for the project and estimate any potential risks associated with it
4. Single fuel cells do not generate a large amount of electricity
5. Fuel cells work like batteries but, unlike batteries, they will not run down or need recharging



# Advantages and Disadvantages

## High Energy Density Improves Productivity

Hydrogen fuel cells do not produce any CO<sub>2</sub> emissions during operation, even if their production is not necessarily carbon-free.

## Fuel Cell Efficiency

Hydrogen fuel cells are more energy-efficient than internal combustion engines. However, lithium-ion batteries are still the most energy efficient and the highest performing energy source for forklifts.

## *Consistent*

Hydrogen fuel does not rely on an electric grid, making it a consistent and reliable source of energy that is not subject to disruptions.

## **Hydrogen Storage and Transportation**

Hydrogen can be stored as either gas in high-pressure tanks or as a liquid in cryogenic temperatures, but it must be in the gas form to be used for lift truck fuel cells.

## *Quiet*

Unlike traditional fuel sources, hydrogen fuel technology is extremely quiet, making it more popular for situations when noise is especially worrisome.

## **The Use of Fossil Fuels in Hydrogen Production**

While it is true that hydrogen fuel cells do not emit harmful gases during operation, the same is not true for the production process.



# Applications of Hydrogen Fuel

## *Personal Vehicles*

Nine of the major auto manufacturers are developing hydrogen fuel cell electric vehicles (HFCEVs) for personal use. Notable models include the Toyota Mirai, Honda Clarity, Hyundai Nexo, and BMW i Hydrogen Next.

## *Buses*

Hydrogen power is being considered for other public transportation applications, including hydrogen fuel cell buses.



## *Backup Power Generation*

At a local level, stationary fuel cells are used as part of uninterruptible power supply (UPS) systems, where continuous uptime is critical. Both hospitals and data centers are increasingly looking to hydrogen to meet their uninterruptible power supply needs.

## *Trains*

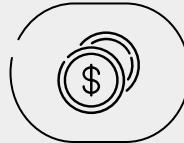
Hydrogen fuel cell trains have now appeared in Germany, and in the next five years, other models are expected to come to Great Britain, France, Italy, Japan, South Korea, and the United States.

# Examples



## ***HUMAN RESOURCES***

The project team is responsible for the successful execution of the project. Our team is composed of professionals with the necessary skills and expertise to complete the project always on time and within budget



## ***FINANCIAL RESOURCES***

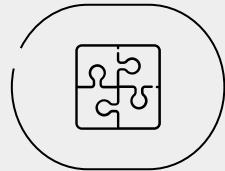
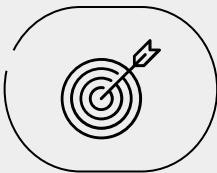
Our project budget is \$100,000. The budget includes all expenses associated with the project, like salaries and equipment. We have allocated these resources to ensure that we are able to complete the project within budget



## ***PHYSICAL RESOURCES***

Our project requires a number of specialized pieces of equipment. We will be using [insert equipment and their functions]. All equipment is in good working condition and has been tested and calibrated prior to use

# OBJECTIVES



## ***OUR AIM***

An aim in a corporate context is a goal or desired result that the organization seeks to achieve. The aim should be clear and achievable, and often serves as the basis for further planning actions inside the organization

## ***THE GOAL***

Goals inside a company are usually specific and measurable, with clearly defined deadlines and outcomes. The company's goals help focus the actions of the organization and ensure resources are used effectively

# \$500,000

Net profit of the project

# 200

Break-even point

# 25%

Market share in the industry

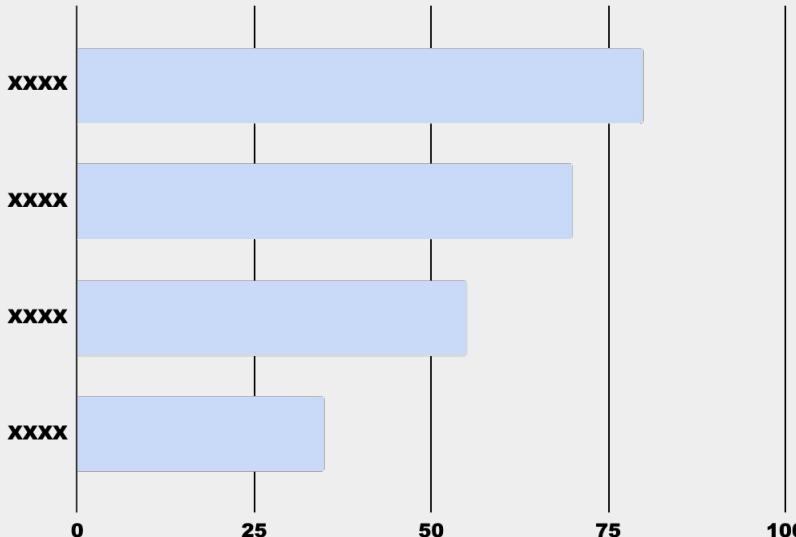
# 10 MILLION

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First-year revenue of the project



# EXPECTED OUTCOMES



## AIR POLLUTION LEVEL

This column graph represents the sales revenue for a business project proposal in thousands of dollars for each quarter of the year. It shows an increase in sales revenue from Q1 to Q4, indicating a positive trend in the project's performance

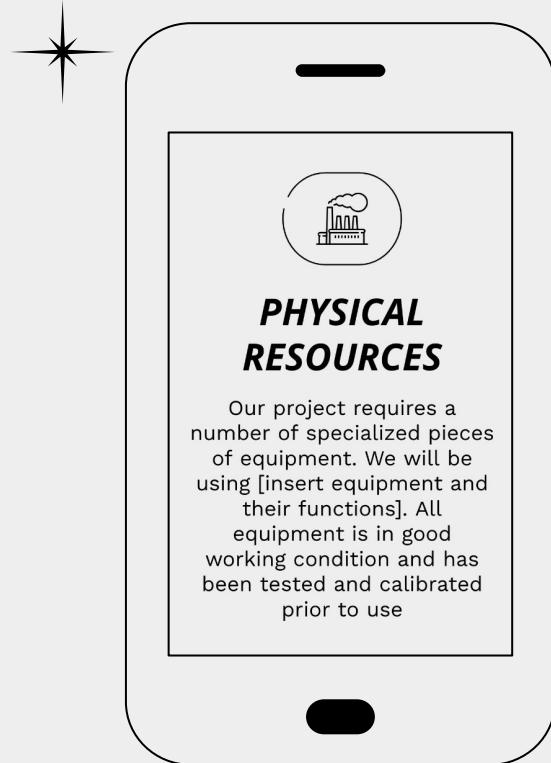
Follow the link in the graph to modify its data and then paste the new one here. **For more info, click here**

# POLICIES TO REDUCE AIR POLLUTION

ACTIVITY	START	END	RESOURCES	COST
<b>Research</b>	1/1/20XX	1/15/20XX	Researcher, Databases	\$10,000
<b>Identify key stakeholders</b>	1/16/20XX	6/30/20XX	Project Manager	\$15,000
<b>Develop policy proposals</b>	7/1/20XX	8/15/20XX	Policy Analyst, Consultant	\$25,000
<b>Cost-benefit analysis</b>	1/1/20XX	1/15/20XX	Economist, Analyst	\$20,000
<b>Public awareness campaign</b>	1/16/20XX	6/30/20XX	Marketing Consultant	\$50,000
<b>Monitoring and evaluation</b>	7/1/20XX	8/15/20XX	Analyst, Data Manager	\$15,000

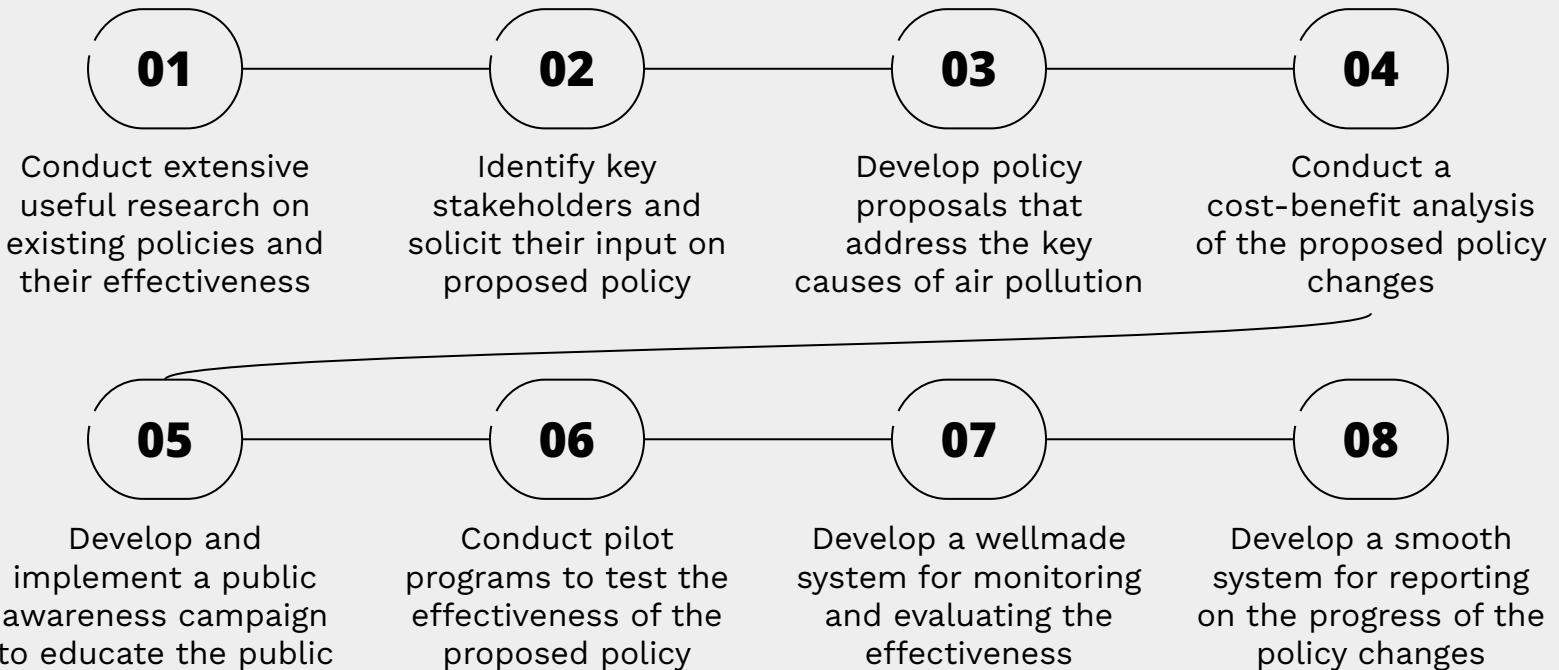
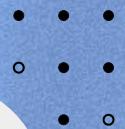
# WHAT YOU NEED TO SHOW IN A MOCKUP

- Product/website description: A brief overview of the product/website, including its key features, dimensions, and materials used
- Features and benefits: A detailed explanation of the product's/website's features and how they will benefit the user
- Technical specifications: A list of the product's/website's technical specifications, such as dimensions, weight, power requirements, connectivity options and hosting platform





# PROJECT TIMELINE





# PROJECT ROADTRIP

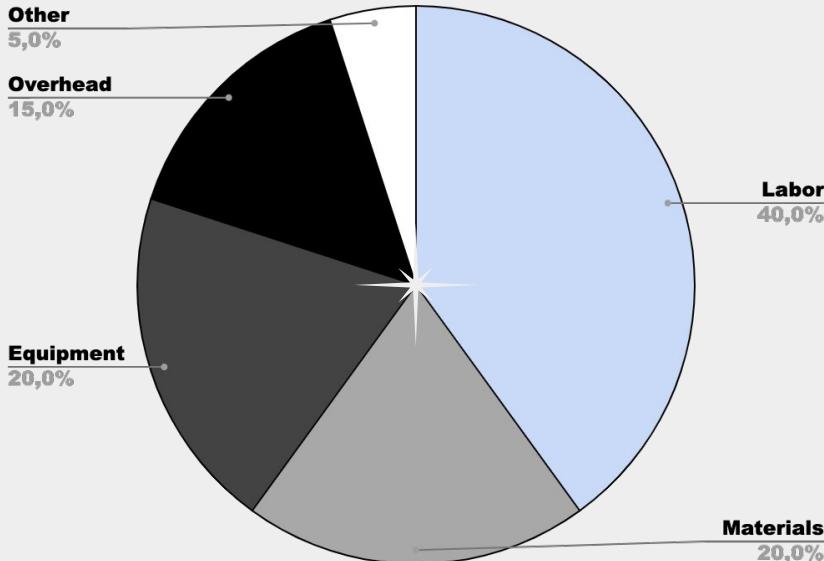
# PHOTO SHOWCASE

A photo showcase can be a useful addition to a business project proposal as it can help to visually communicate the concept or idea being proposed





# PROJECT EXPENSES



**40%**

## LABOR

Despite being red, Mars is cold

**20%**

## MATERIALS

Saturn is a gas giant with rings

**20%**

## EQUIPMENT

Neptune is very far away from us

**15%**

## OVERHEAD

Venus has a very nice name

**5%**

## OTHER

Earth is the only planet with life

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# KPI DASHBOARD

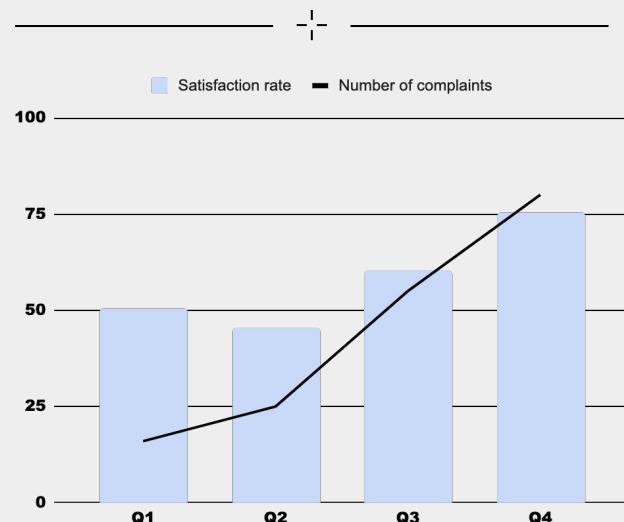
RESOURCE	UTILIZATION RATE	COST PER UNIT
Labor	85%	\$50
Equipment	70%	\$100
Materials	95%	\$20
Rent	90%	\$1,000
Energy	80%	\$80
Software	80%	\$200
Advertising	60%	\$500

**120 U/DAY**

Output per worker

**2H**

To complete a task



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

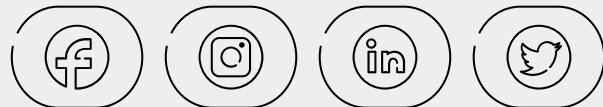
# THANKS!

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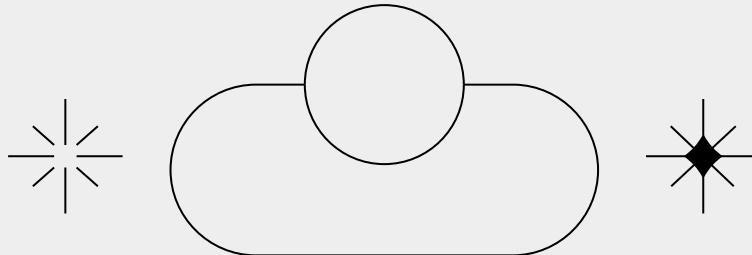
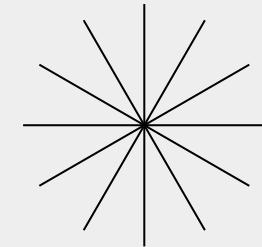
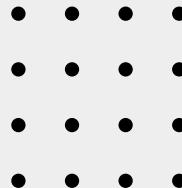
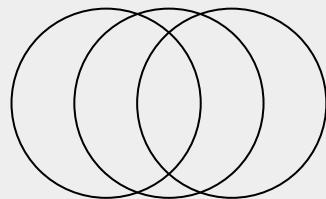
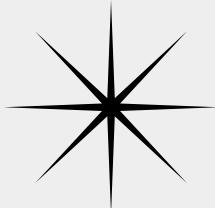
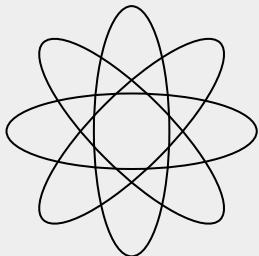
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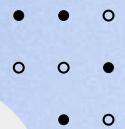
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# RESOURCES



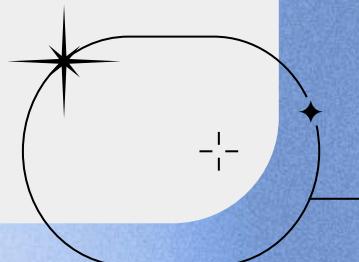
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## ***PHOTOS:***

- Beautiful city buildings daytime with fog
- Environmental pollution and industry exterior in daylight
- Person putting a medical mask on earth
- Pollution concept of factory emissions

## ***VECTORS:***

- Earth day template design



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#c9daf8

#a8a8a8

#434343

#000000

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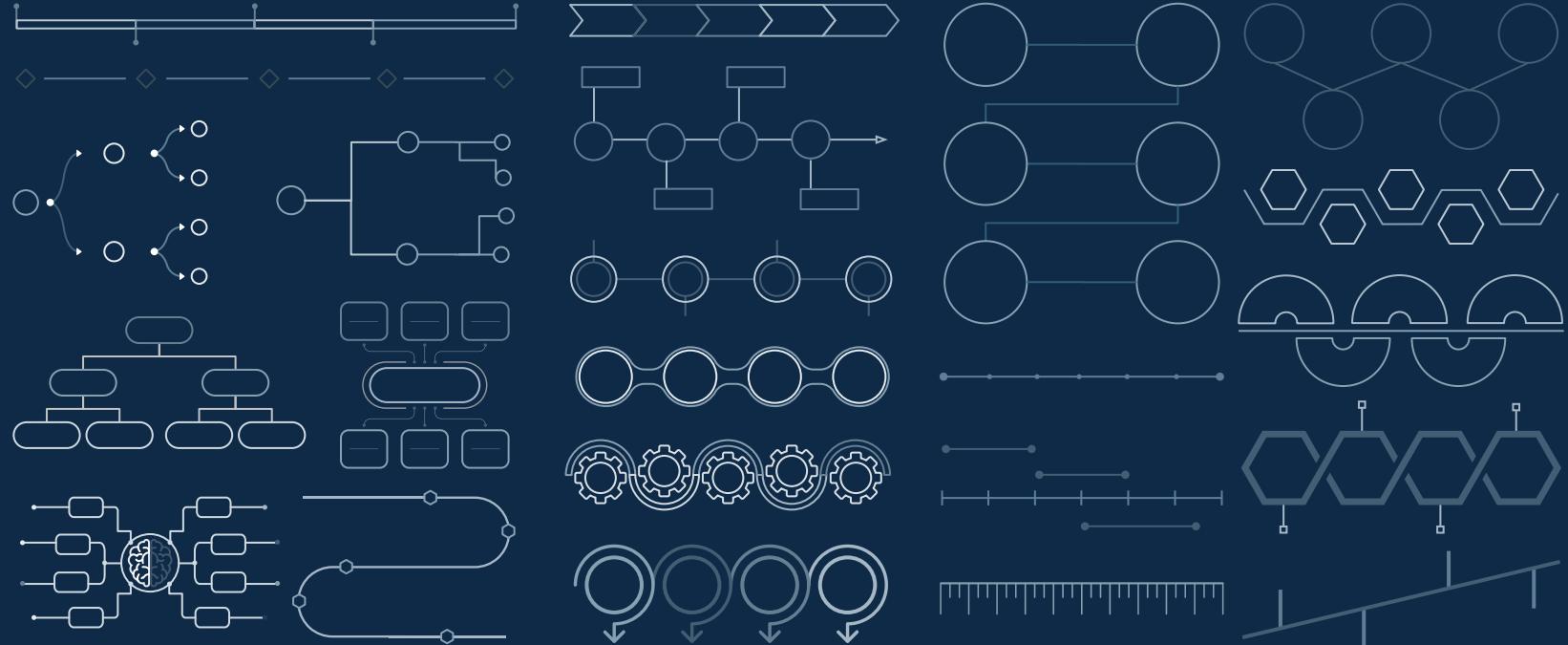
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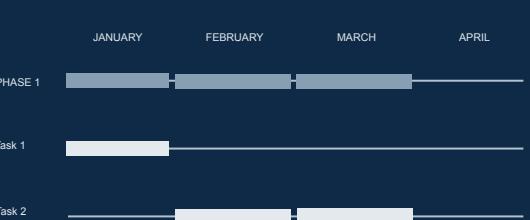
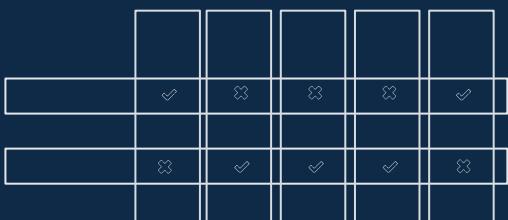
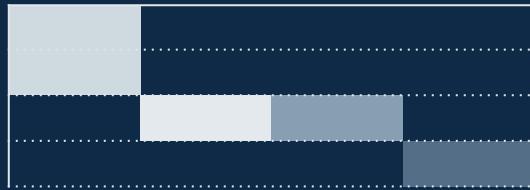
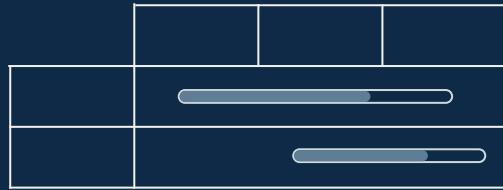
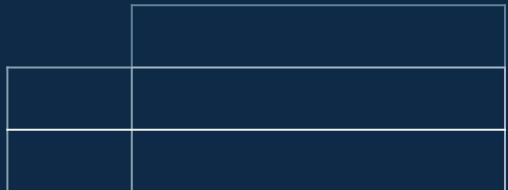
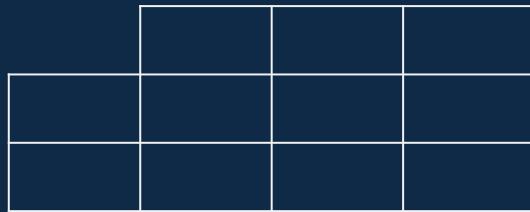
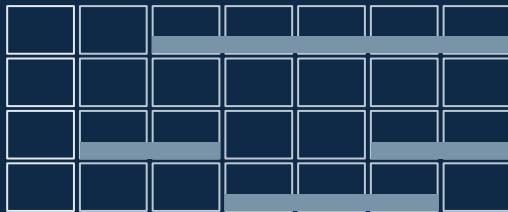
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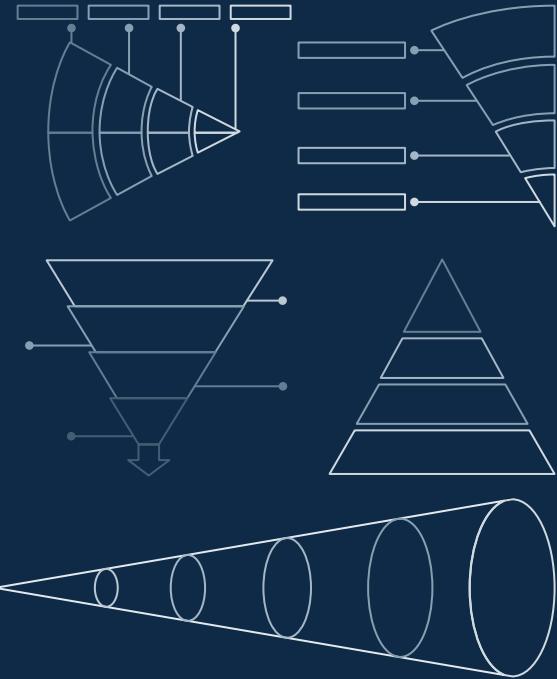
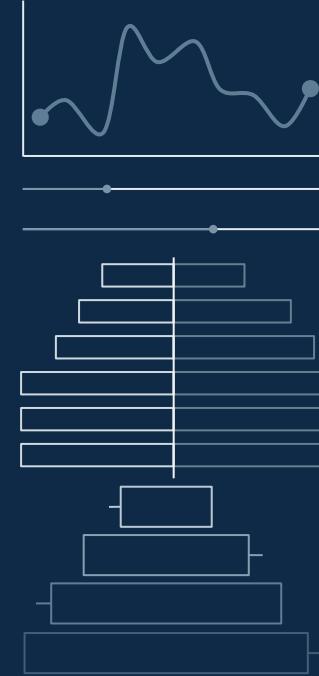
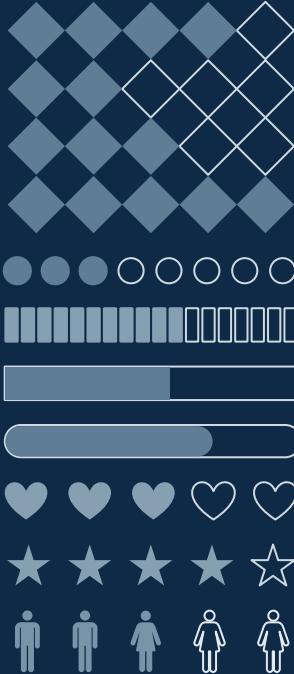
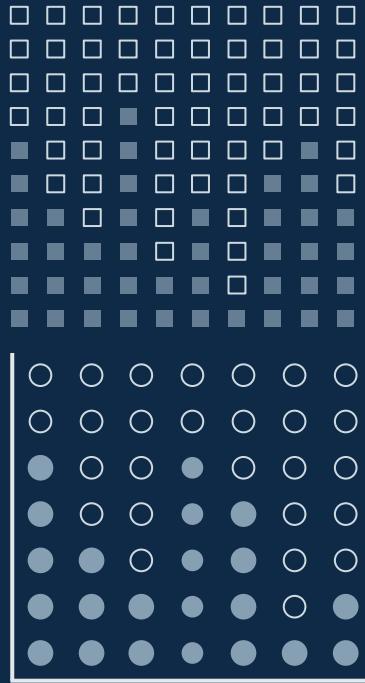












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