



Final Project Report

# ITS CAMPUS NAVIGATION

An Augmented Reality Experience  
for Navigating in ITS Campus

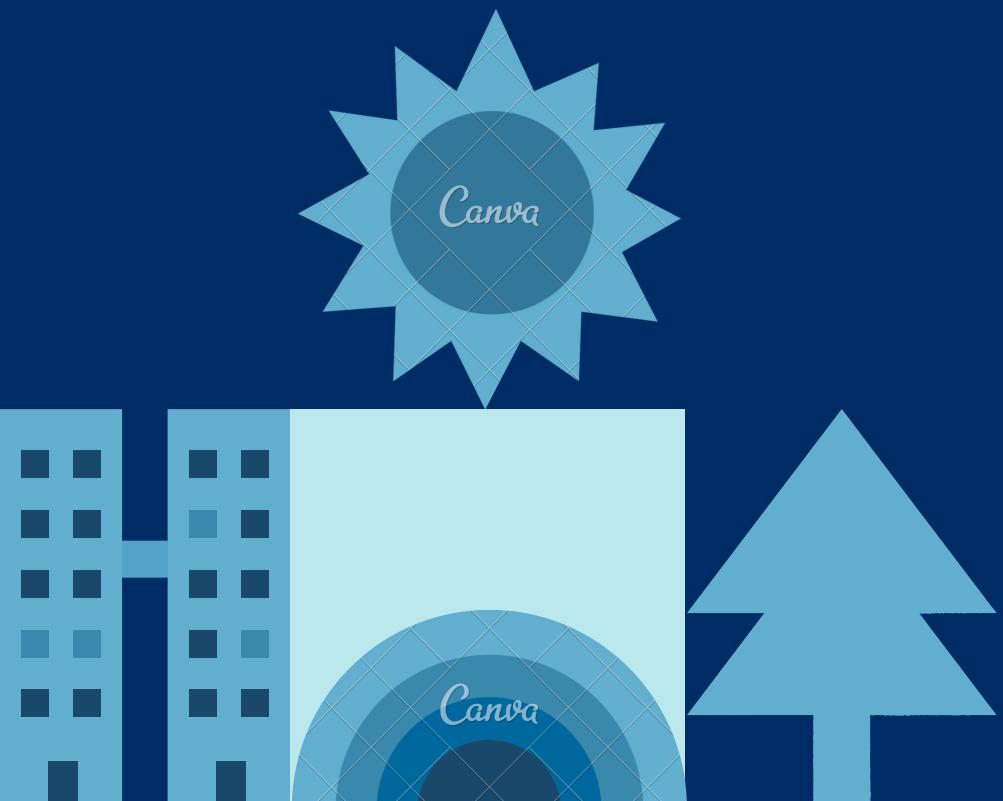
Kelas Realitas X 2023



Akses melalui tombol dibawah untuk melihat media ppt dengan lebih baik



# Daftar Isi



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# Tentang Project

Final Project ini memiliki tujuan untuk membangun aplikasi yang dapat memberikan pengalaman navigasi mudah bagi pejalan kaki di lingkungan kampus ITS

# Masalah Utama



## Skala

Perbandingan ukuran yang cukup signifikan antara dunia nyata dengan peta bisa membuat pengguna kehilangan persepsi

“Gender Differences in Distance Estimates When Exposed to Multiple Routes”



## Awareness

Untuk membuat sistem navigasi bagi pejalan kaki, pengguna harus ‘aware’ dengan lingkungan sekitarnya dan dapat melakukan estimasi arah selanjutnya tanpa membuka gadget

# Masalah Utama



## Scale

Perbandingan ukuran yang cukup signifikan antara dunia nyata dengan peta bisa membuat pengguna kehilangan persepsi

“Gender Differences in Distance Estimates When Exposed to Multiple Routes”



## AR Map



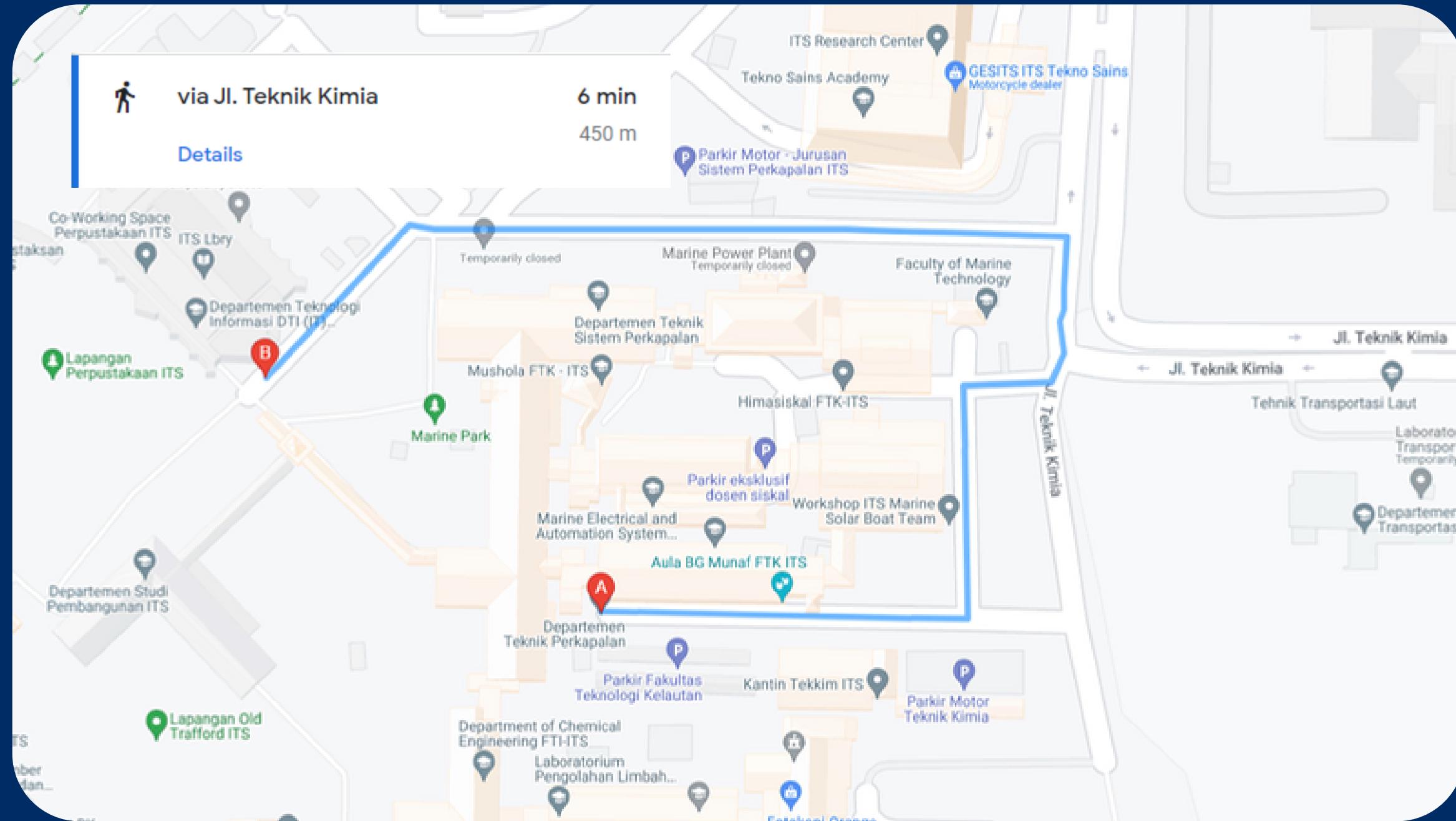
## Awareness

Untuk membuat sistem navigasi bagi pejalan kaki, pengguna harus ‘aware’ dengan lingkungan sekitarnya dan dapat melakukan estimasi arah selanjutnya tanpa membuka gadget



## 2D Map

# Studi Kasus :



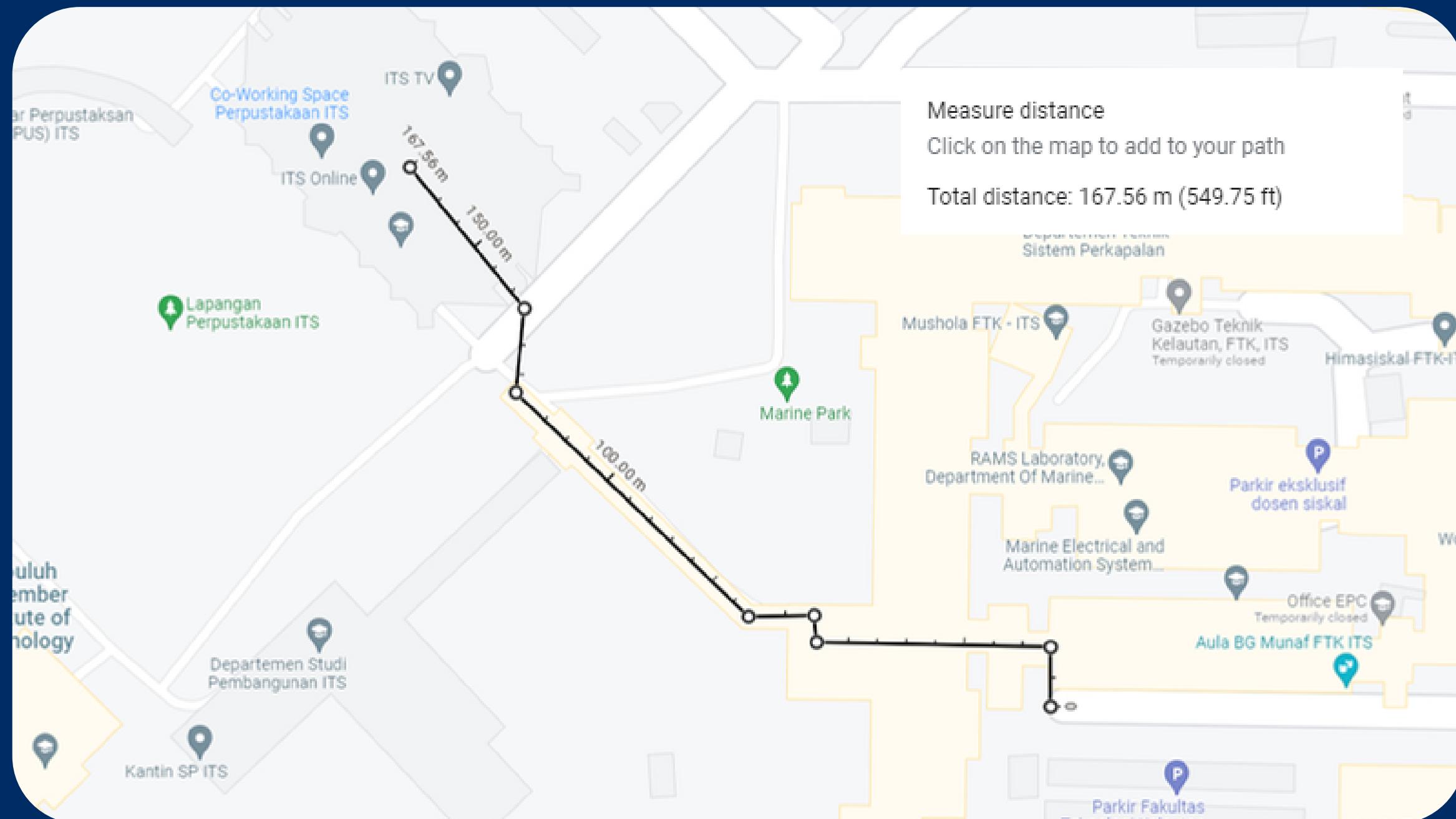
**A**  
Departemen Teknik Perkapalan

**B**  
Perpustakaan ITS

Tercatat dari data google maps,  
bahwa jarak tempuh yaitu

**450m**

# Aslinya :



A

Departemen Teknik Perkapalan

B

Perpustakaan ITS

Ternyata ada jalan yang lebih pendek, yaitu hanya sejauh

**167m**

navigasi lebih cepat dengan selisih

**283m**



kita harus membuat peta yang up to date dengan lingkungan kampus ITS

# Tinjauan



Google Maps  
memberikan data peta paling terbaru



Google Chrome  
salah satu browser yang paling banyak digunakan



AR.js  
bisa memberikan pengalaman Augmented Reality di  
browser

# Tinjauan



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apakah data ini bisa kita extend sesuai dengan kebutuhan?

**ya!**

# Kemajuan Proyek



Mempelajari Dokumentasi untuk implementasi  
Google Maps

The screenshot shows a navigation bar at the top with links for Overview, Products, Pricing, Documentation (which is underlined), Blog, and Community. Below this, a breadcrumb trail shows the path: Web > Maps JavaScript API. A secondary navigation bar below the breadcrumb has tabs for Guides, Reference (which is underlined), Samples, and Support. To the left, there is a sidebar with a 'Filter' button and a list of API Reference versions: v3.54 (weekly channel), v3.53 (quarterly channel), v3.52, and v3.51. The main content area is titled 'Directions' and shows the 'DirectionsService class'. It describes it as a service for computing directions between two or more places, and provides code for access via `const DirectionsService = await google.maps.importLibrary("routes")`. It also links to 'Libraries in the Maps JavaScript API'.

Home > Products > Google Maps Platform > Documentation > Web > Maps JavaScript API > Reference Was this helpful?

## Directions

### DirectionsService class

`google.maps.DirectionsService` class

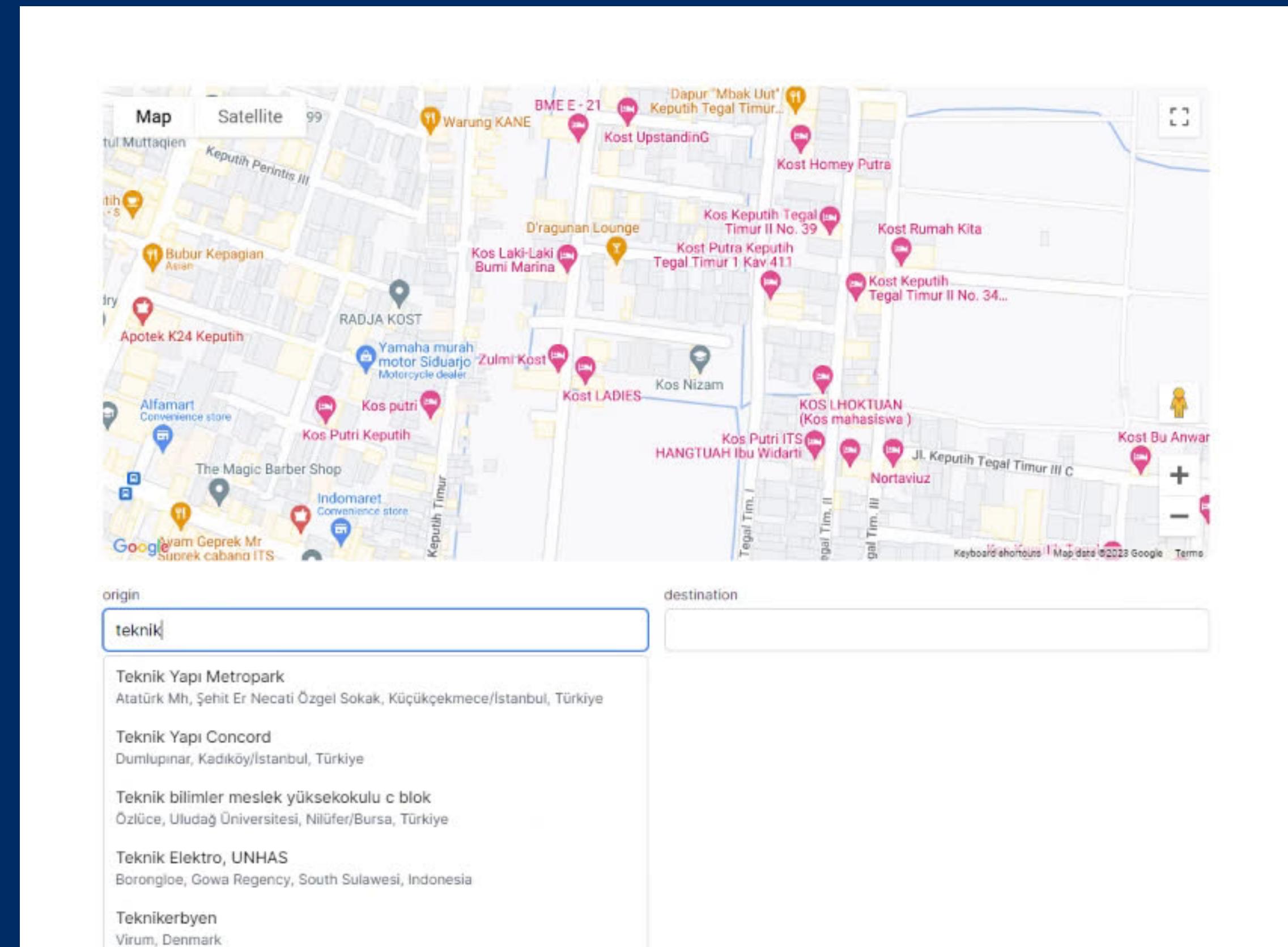
A service for computing directions between two or more places.

Access by calling `const DirectionsService = await google.maps.importLibrary("routes")`. See [Libraries in the Maps JavaScript API](#).

# Kemajuan Proyek



Implementasi pencarian rute di web



# Rencana Kerja

Rencana kerja kita selama 1 bulan penggerjaan final project ini

## Minggu 1

- Pelajari data shortest path yang diberikan google
- Implementasi penambahan "Walking Trail" baru dalam custom Map
- Cari tau mengenai teknik pembacaan GPS di web secara continuous

## Minggu 2

- Analisis bagaimana cara menampilkan data shortest path dalam bentuk AR objects

## Minggu 3 dan 4

Implementasi sistem navigasi berbasis AR di kampus ITS sesuai dengan studi kasus yang telah dilakukan

# Terima Kasih



# The 17 Sustainable Development Goals

The Sustainable Development Goals (SDGs), also known as Global Goals, are a set of 17 integrated and interrelated goals to end poverty, protect the planet and ensure that humanity enjoys peace and prosperity by 2030.



## THE GLOBAL GOALS





# Introduction

Your SDG progress report can start with a brief review of your organization's alignment to the Global Goals.

Creating a good SDG progress report means being transparent with your audience. Back up your claims with relevant data. Keep your sentences concise when necessary, but dive into detail when it comes to qualitative and quantitative evidence.

# Message from Our Leaders

This section is an opportunity to demonstrate how top management is taking the lead and giving direction to the company's sustainability efforts.

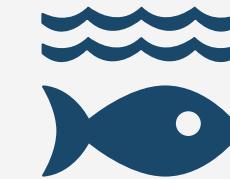
An authentic, sincere and mission-driven statement from the chair, CEO or president signals commitment and sets the tone for the rest of the report. It can include an overview of the vision, direction and strategy the organization is committed to take, to help move the needle on the SDGs to meet the global 2030 deadline.



**Chad Gibbons**

Role/ Position

# Priority SDGs



## Priority SDG

To help give your audience an overview, this section can include a brief description of the goal, its relevance to your sector or industry, and the specific sub-targets your organization is addressing.

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# Measuring Progress



## Key Indicator

## Activity / Project

## Data / Outcome

Your Key Performance Indicator goes here

Add a few details describing the related activities

- What results did you obtain from your project?
- Write them here.

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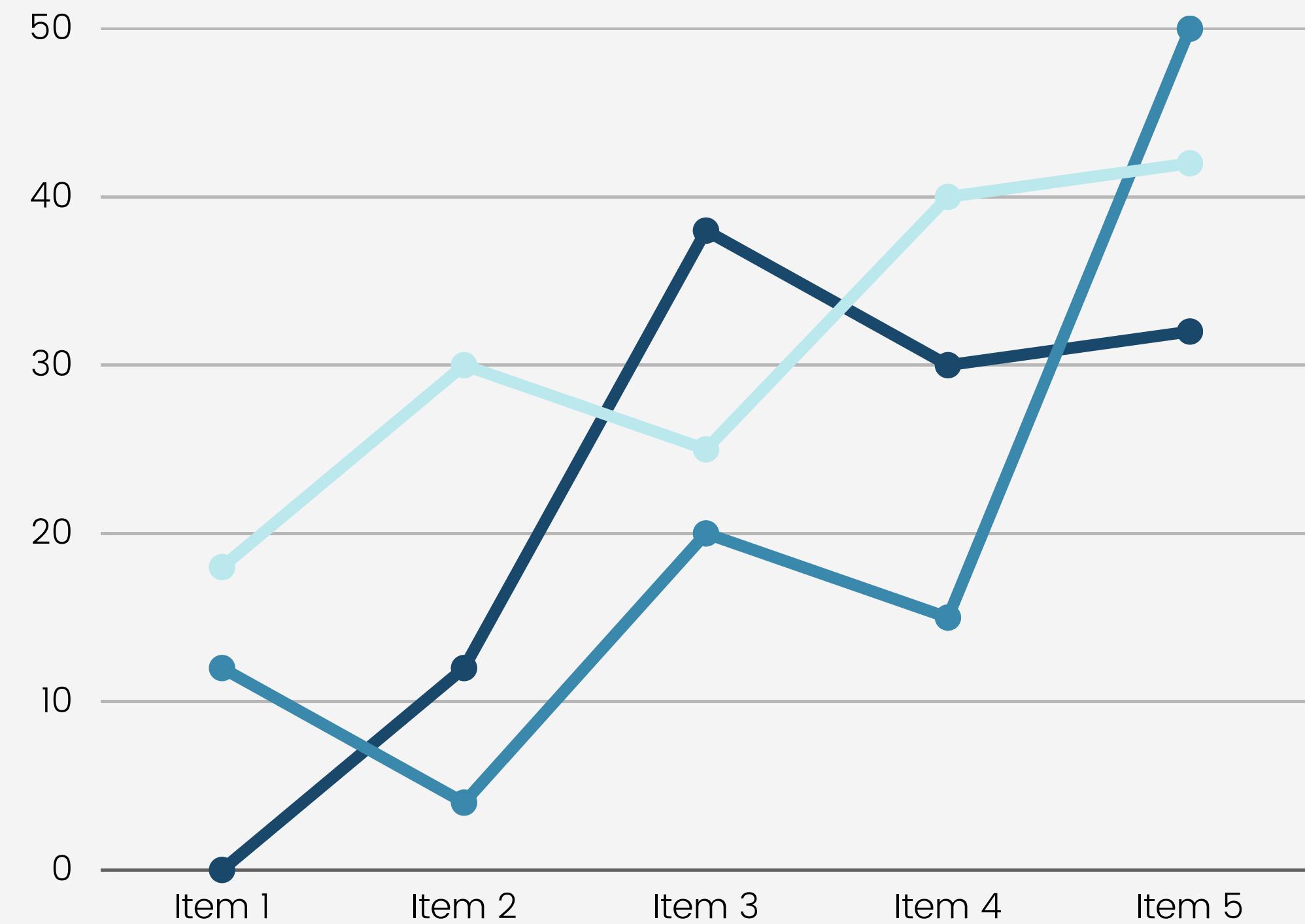
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# Infographic Title

Here, you can add a brief line explaining your data.

- █ Readers appreciate accurate information
- █ Readers appreciate accurate information
- █ Readers appreciate accurate information



**What should you be including in your SDG progress report? While there is no standard way of reporting on the Global Goals as of yet, here are a few methods to consider when presenting your data:**



**Key statistics**

Your most important quantitative data



**Key findings**

Qualitative results from SDG-related projects or activities



**Report cards**

Criteria and grade assessments for transparent reporting



**Infographics**

An organized snapshot of relevant data



**Timelines**

A visual way to track progress over time

# Next Steps

Where do you go from here? Sustainability reports are not just about looking back, but also looking forward. This SDG Progress Report is a continuous work in progress – a way for your organization to track its impact and improvements over time. This section outlines your strategy for continuing the good work done so far.

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## Action or commitment

Include a brief description, rationale and intended impact. It helps to keep it concise yet concrete!

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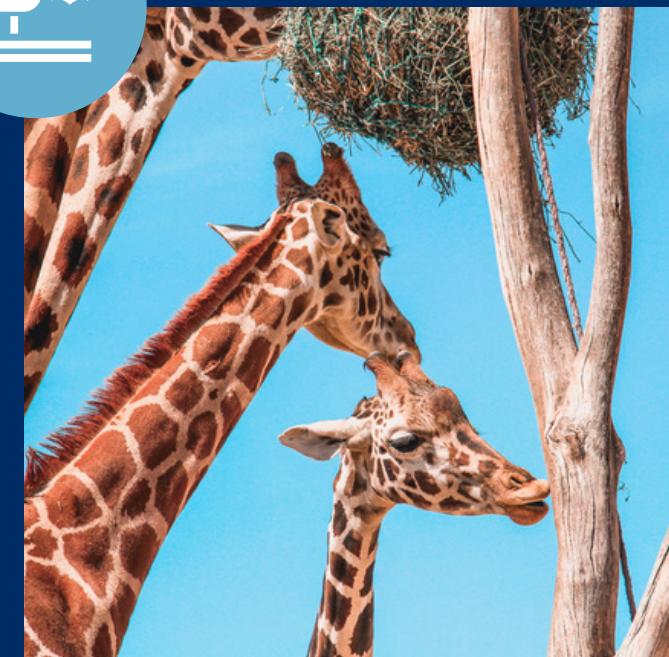
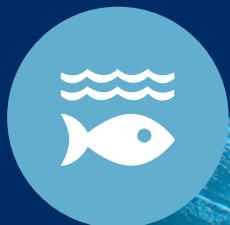
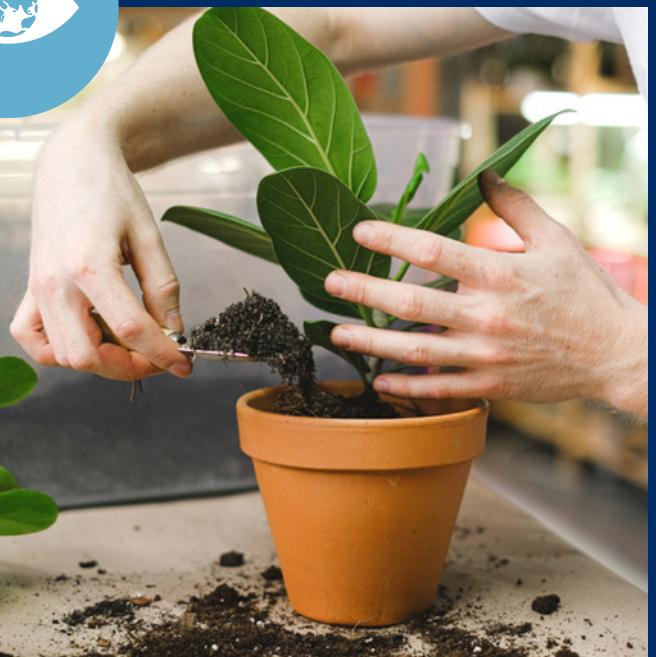
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# Conclusion



## Highlight 1

Summarize the key points here.

- Bullet points help!
- Bullet points help!
- Bullet points help!

## Highlight 2

Summarize the key points here.

- Bullet points help!
- Bullet points help!
- Bullet points help!

## Highlight 3

Summarize the key points here.

- Bullet points help!
- Bullet points help!
- Bullet points help!

## Highlight 4

Summarize the key points here.

- Bullet points help!
- Bullet points help!
- Bullet points help!

# Acknowledgements

Most reports conclude with a page acknowledging the contributions of the people who worked tirelessly on the projects mentioned within. Below, list down the names of those committed to these projects, such as:

## Concept & Coordination

**Yael Amari**

Role / Position

**Lars Peeters**

Role / Position

**Chad Gibbons**

Role / Position

**Cahaya Dewi**

Role / Position

**Paige Turner**

Role / Position

## Writers

**Cahaya Dewi**

Role / Position

**Marga Perez**

Role / Position

**Ketut Susilo**

Role / Position

**Yael Amari**

Role / Position

## Designers

**Paige Turner**

Role / Position

**Maria Aguado**

Role / Position

**Ketut Susilo**

Role / Position

**Lars Peeters**

Role / Position

# Free Resource Page

Use these official Sustainable Development Goal elements in your Canva presentation.



## THE GLOBAL GOALS



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