

BE GREEN!



**Web service that measures and optimizes
carbon footprint in source code**

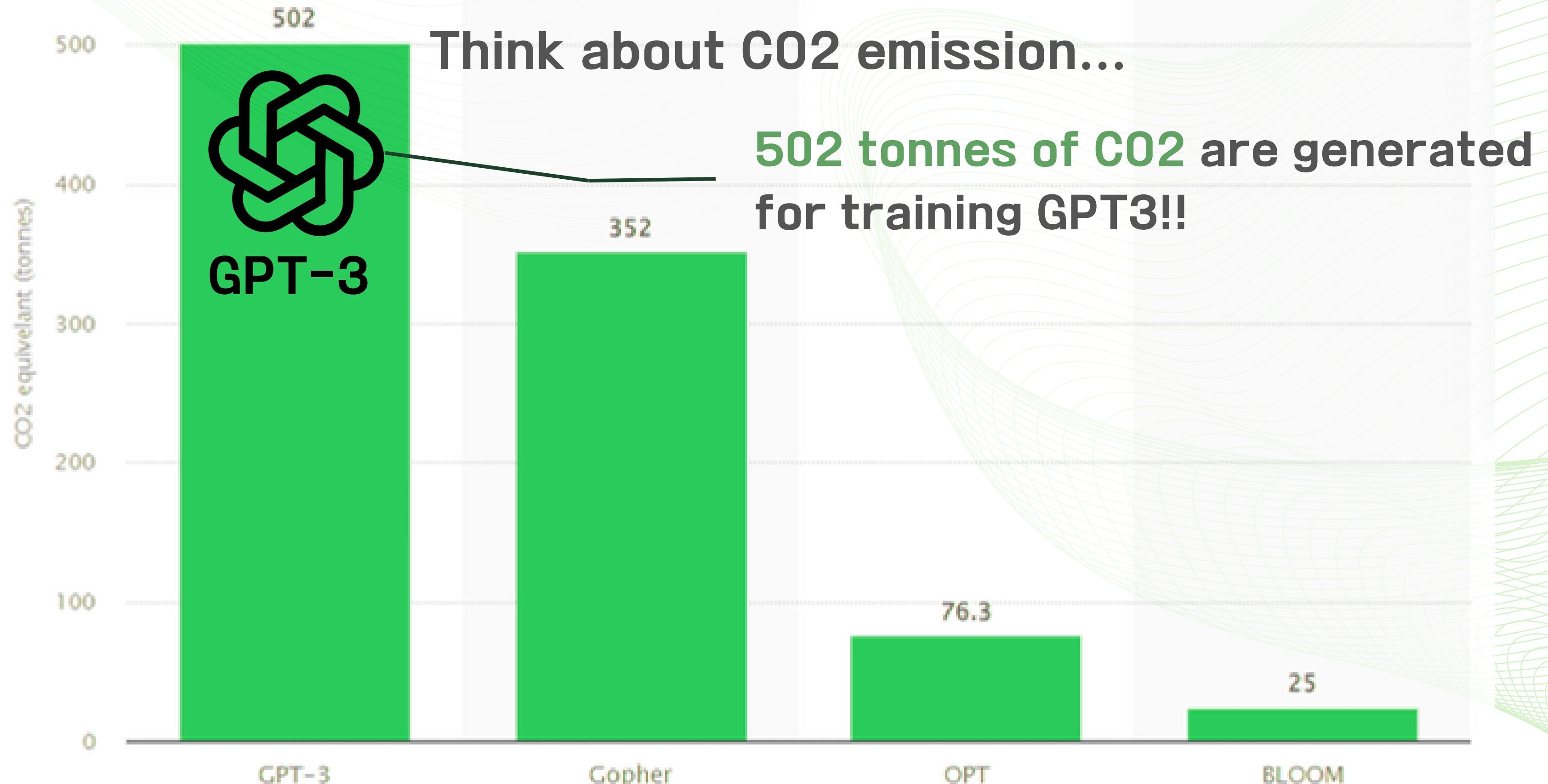
김도현
김민서
김지환
박진호
안현기
이재원

TABLE OF CONTENTS

-  **Introduction**
-  **Goals**
-  **Implementation**
 - Front-End
 - Back-End
-  **Team**
-  **Plan & Effect**

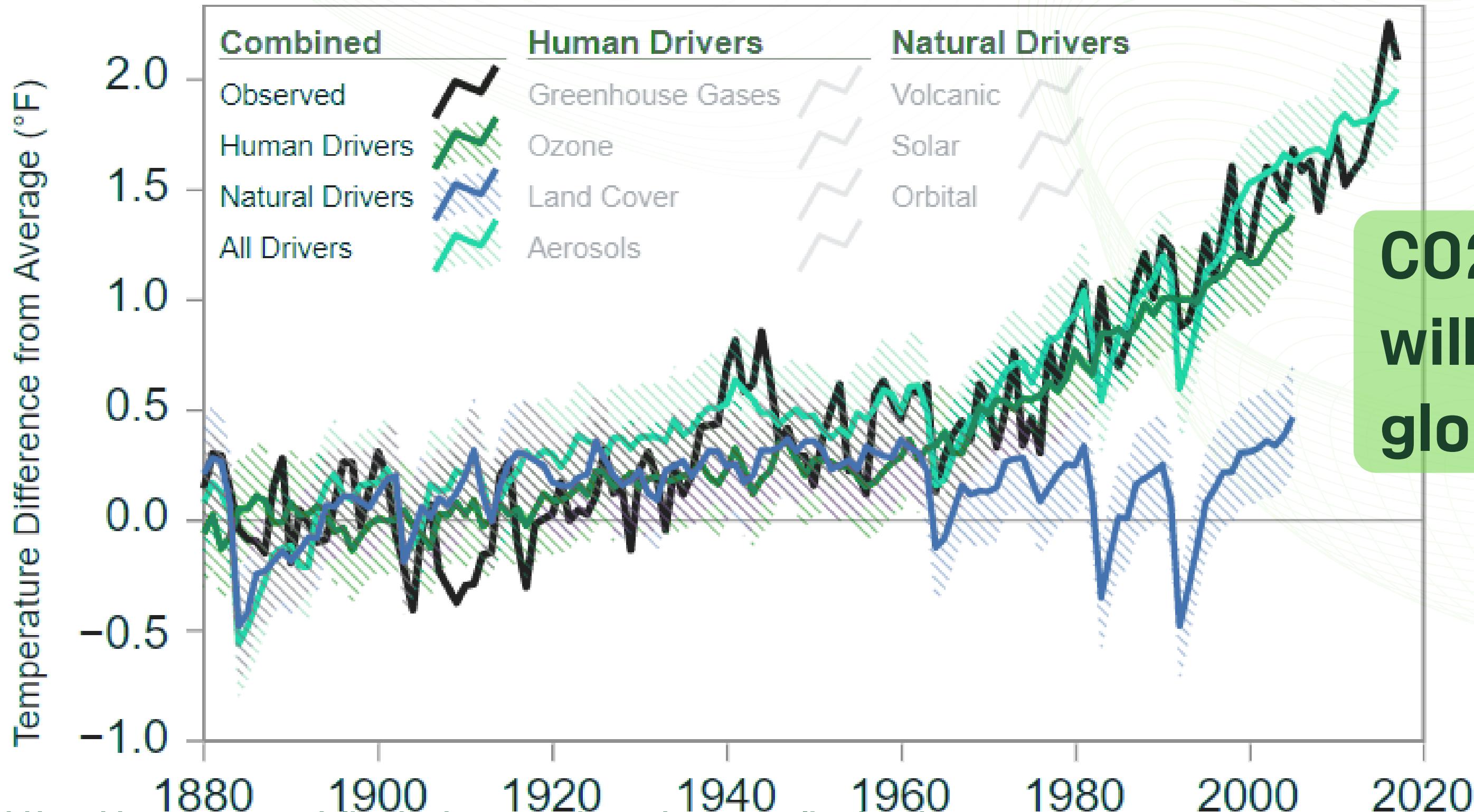


INTRODUCTION



INTRODUCTION

Human and Natural Influences on Global Temperature



CO2 emission...?
will accelerate
global warming!

INTRODUCTION



Need to measure carbon footprint
for code written by developer !!
&
ESG
(Environmental, Social, Governance)

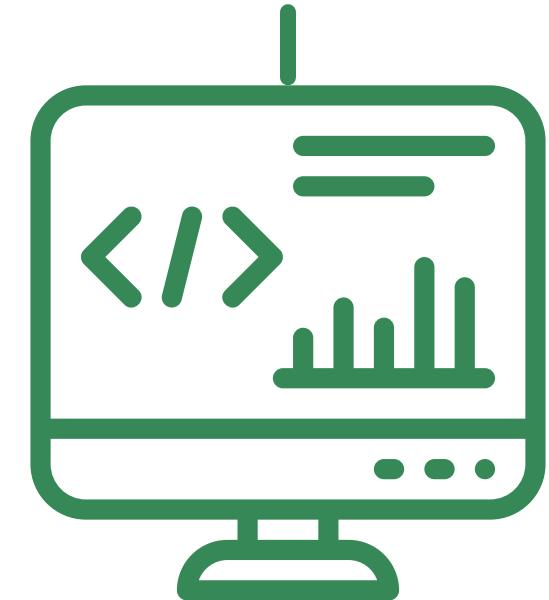


GOALS

BE GREEN!



Raising
awareness of
carbon emission



Implementation of
carbon footprint measurement code

GOALS

"Web service that estimates carbon footprint of user's input codes, detects carbon waste pattern, provides improved code with greening pattern"



IMPLEMENTATION



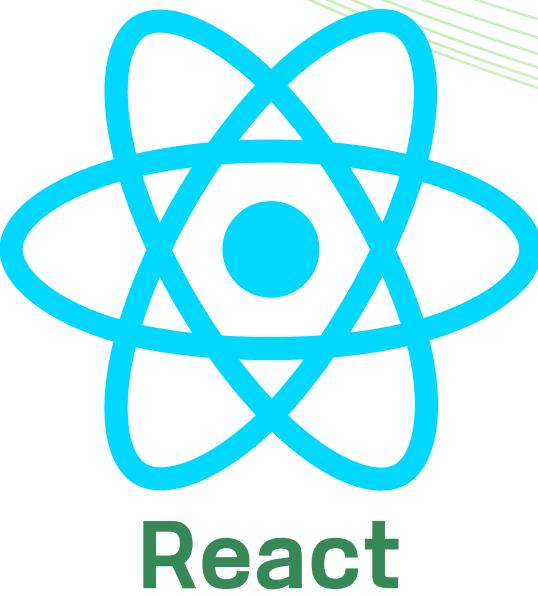
Front-End



Back-End

IMPLEMENTATION

- Front-End



React

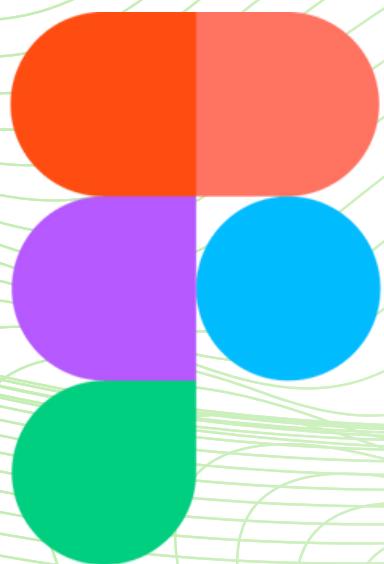
- UI/UX
- More Intuitive, User-friendly!!



Front-End



Html, CSS



Figma

IMPLEMENTATION

- Back-End



Spring



Back-End

- Server/Database/API
- Implementing code analysis algorithms



TEAM



총괄

Front-End

Back-End

박진호

김도현, 안현지

김민서, 김지환, 이재원

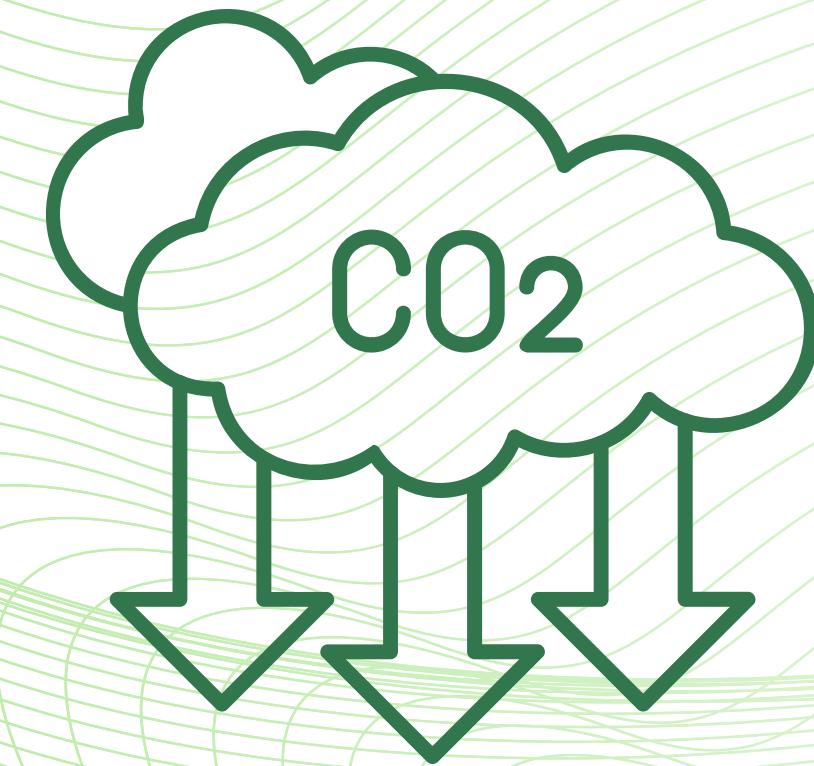
PLAN & EFFECT

W6	W7	W8	W9	W10	W11	W12	W13	W14	W15	W16
제안서	FE									
	웹디자인					통합		테스트	최종발표	
	BE									
요구사항 정의										
	시스템 및 소프트웨어 설계									
		구현								

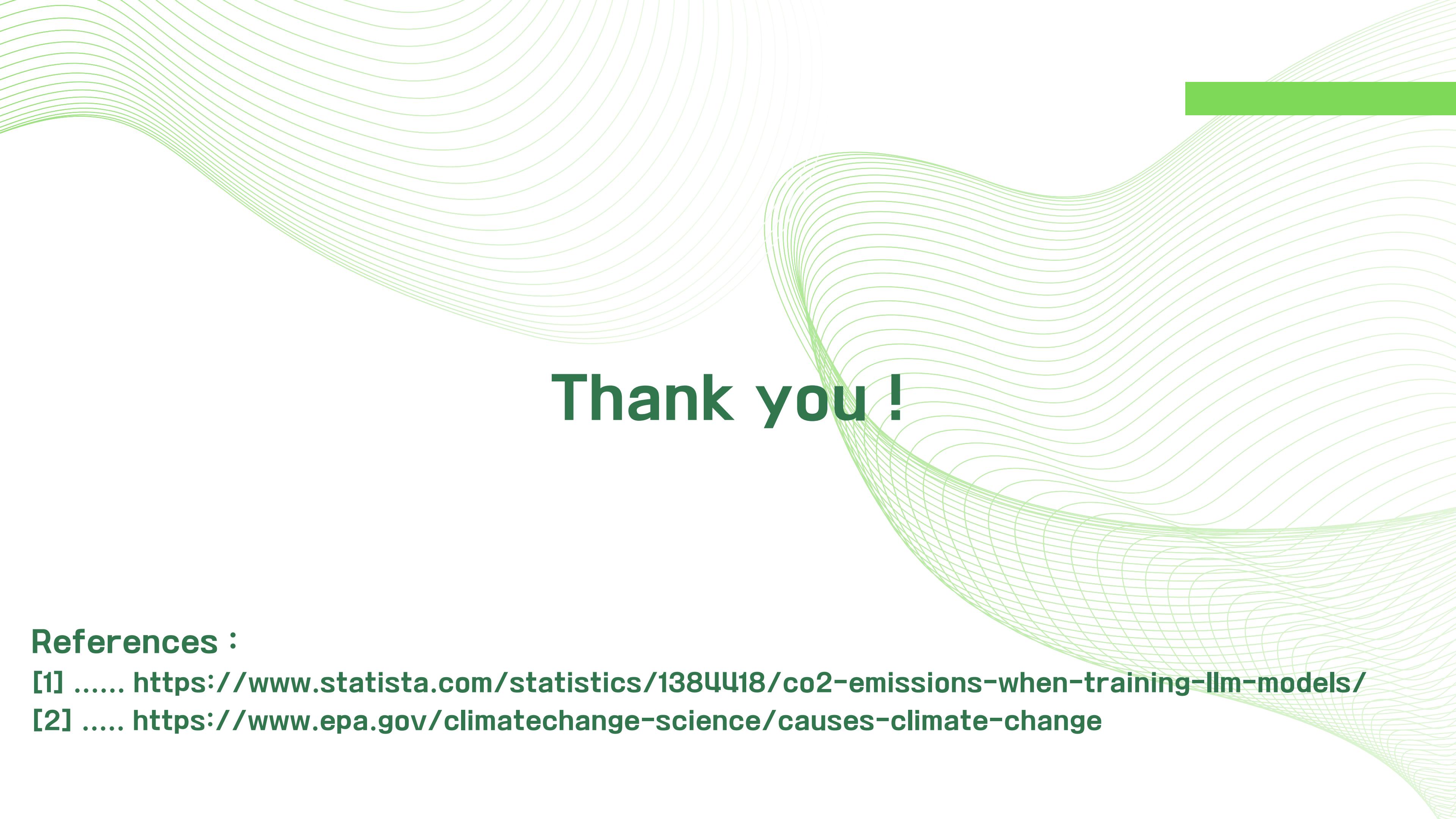
PLAN & EFFECT



Check carbon emissions for developer's code



Contribute to reducing carbon emissions



Thank you !

References :

- [1] <https://www.statista.com/statistics/1384418/co2-emissions-when-training-lm-models/>
- [2] <https://www.epa.gov/climatechange-science/causes-climate-change>