



Information Design

GUIDED BY: **PROF.(DR.) ANUPAM RANA**



GREEN TO SMART

The Price of Urbanization

GANDHINAGAR

About Project

This Project Highlights Gandhinagar's Transformation From 2009 To 2023, Focusing On Deforestation And Urbanization. Through A Map, Bar Graphs, And A Pie Chart, Visualise The Retained Forest Percentage, Urban Growth Rate, And Land Use Distribution The Project Aims To Raise Awareness About The Environmental Impact Of Rapid Urban Development And The Need For Sustainable Growth.

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Concept -

We Brainstormed Key Data Points, Like Tree Density And Urbanization From 2009-2023, To Highlight Gandhinagar's Transition.

Initial Sketches Explored Using Tree Heights To Represent Data Visually. After Refining Ideas, We Built A 3D Model With Layered Cardboard, Showcasing Tree Density Loss Alongside Urban Growth. The Design Effectively Communicates The City's Shift From Green To Smart.

- Infographic

Our Infographic Highlights Gandhinagar's Transformation From 2009-2023, Showcasing Key Elements Of Our 3D Model. It Outlines The Model's Structure, Emphasizing The Use Of Tree Heights To Depict Density Changes Over Time. The Infographic Also Features Afforestation Data, Comparing Replantation Efforts With Tree Loss, Providing A Clear Visual Narrative Of The City's Green-To-Smart Transition.



The Infographic Outlines Our 3D Model, Illustrating Gandhinagar's Forest Retention And Urban Growth From 2009-2023. It Highlights Tree Height Layers Representing Forest Density, Contrasted With Expanding Urban Structures And The Metro Network's Growth, Visually Showcasing The Balance Between Greenery And Urbanization.

Area (In Ha.)				Seedling (In Lakhs)			
D&M	SF	Land	Total	D&M	SF	Land	Total
483	367	344	1194	3.22	3.47	3.76	10.45

D&M - Disaster Management Division SF - Social Forestry Wing

In 2022-23, The Departments Of D&M, SF, And Land Wings Undertook Significant Afforestation Initiatives To Combat Deforestation And Enhance Green Cover. These Efforts Focused On Planting Diverse Tree Species Across Urban And Rural Areas, Prioritizing Ecological Balance And Environmental Restoration. The Initiatives Aimed To Mitigate The Effects Of Urbanization While Promoting Sustainable Development.

- Timeline -



The Timeline On Our 3D Model Spans From 2009 To 2023, Visually Transitioning From Green To Blue. This Gradient Represents The Reduction In Tree Cover Over Time, Correlating With Data On Deforestation And Urban Expansion. Key Points Highlight Significant Events, Such As The Development Of The Metro, Which Contributed To Tree Cutting. The Gradient Effectively Conveys The Shift From A Lush Green Cityscape To One Increasingly Shaped By Urban Infrastructure.

- Pie Chart -



The Pie Chart Cutout On Our Model Visually Breaks Down The Land Usage In Gandhinagar From 2009 To 2023. It Shows The Percentage Distribution Of Forested Areas, Urban Zones, And Infrastructure Development. The Chart Illustrates How The Proportion Of Forested Land Has Decreased Over Time, While Urban And Infrastructure Areas, Including Metro Developments, Have Significantly Increased, Providing A Clear View Of The City's Evolving Landscape.

- Main Model -

The Pie Chart Cutout On Our Model Visually Breaks Down The Land Usage In Gandhinagar From 2009 To 2023. It Shows The Percentage Distribution Of Forested Areas, Urban Zones, And Infrastructure Development. The Chart Illustrates How The Proportion Of Forested Land Has Decreased Over Time, While Urban And Infrastructure Areas, Including Metro Developments, Have Significantly Increased, Providing A Clear View Of The City's Evolving Landscape.



Ecological Visualization In 3D

The Impact Of Tree Loss CO2 And O2 In Gandhinagar



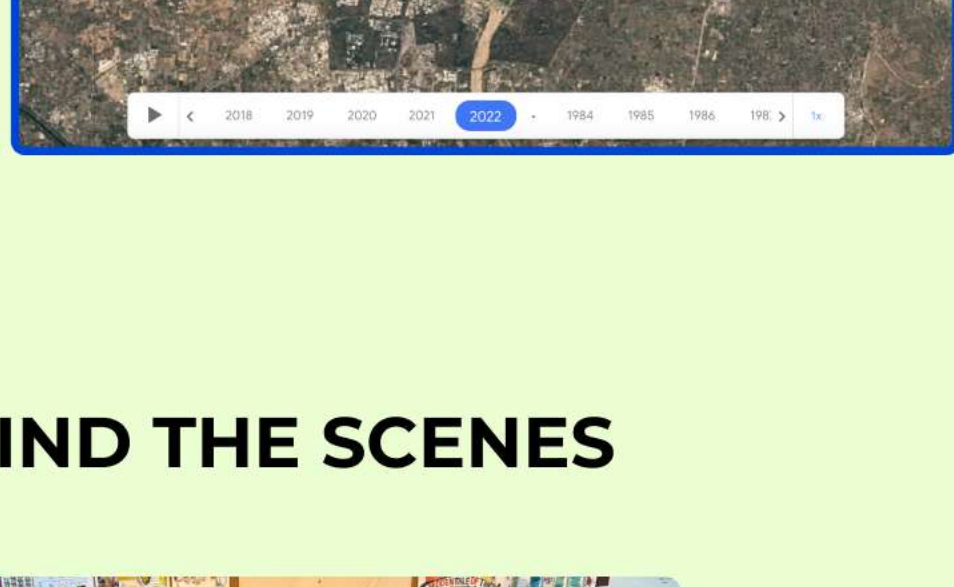
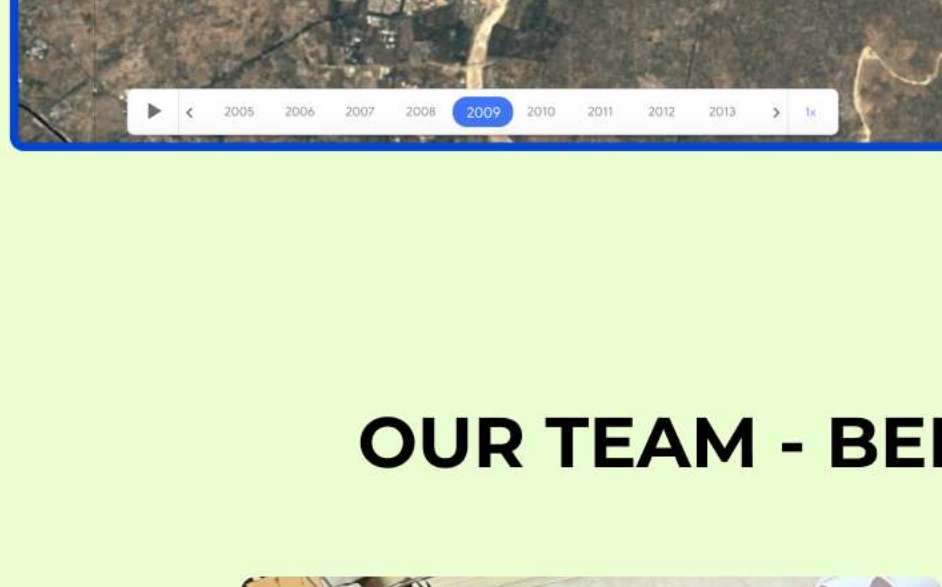
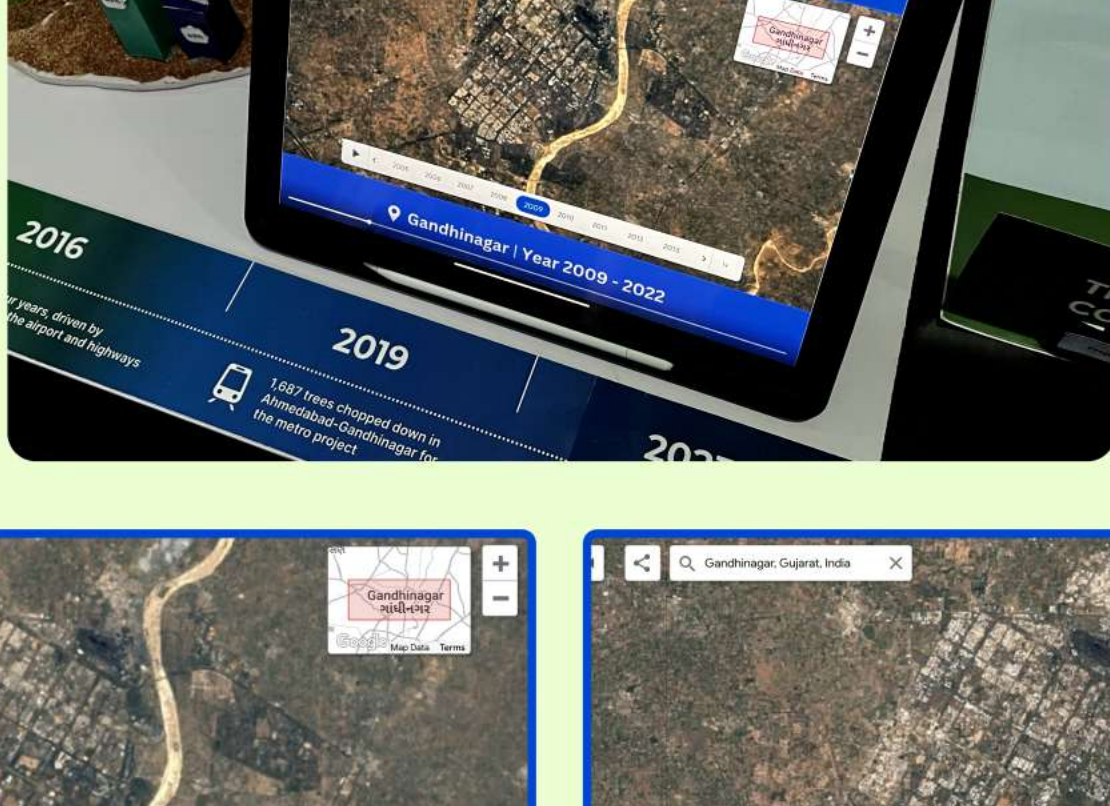
Enhance The 3D Model To Visualize The Ecological Balance By Integrating Quantifiable Data On CO2 Absorption And O2 Production By Trees, Emphasizing The Environmental Impact Of Deforestation.



Gandhinagar Map Evolution Loop

The Time-Lapse Showcases The Transformation Of Gandhinagar's Map From 2009 To 2022,

Designed For Seamless Presentation On An iPad



OUR TEAM - BEHIND THE SCENES



THANK YOU!

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