Impact on Infrastructure Decision Making Mechanism using Advanced 3D Visualisation with PTV VISSIM

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Introduction
Sunovatech Group at a Glance

- Incorporated in 2000
- Locations: India, UAE, Qatar
- Experience: +450 Projects across 6 continents
- Specialisation:
  - Infrastructure 3D Visualisation
  - Augmented & Virtual Reality
  - Traffic Simulation Modelling
  - Public Art Design (Artscape Design)
  - CSR: Road Safety Education
YouTube Video Link: https://youtu.be/8MHn4JTFzM8
Decision Making Challenges
Most infrastructure project developments are complex in nature.

Difference in Judgements from Stakeholders.

Lack of Technical Understanding.

Collaboration between Critical Design Components.

Environmental Impact

Operational and Economical Forecast

Public Health and Safety
How It feels to be a Decision Maker

- To Untie the Complex Infrastructure Quest
Impact of 3D Visualisation
Impact of 3D Visualisation

Implementing Proposals Before Reality

- Technical Impact Analysis
- Social and Economical Impact Analysis
Impact of 3D Visualisation - Technical

- Evaluation of Options
Impact of 3D Visualisation - Technical

- Evaluation of Options
- Feasibility of Operations
Impact of 3D Visualisation - Technical

- Evaluation of Options
- Feasibility of Operations
- Collaboration of Design Components
Impact of 3D Visualisation - Technical

- Evaluation of Options
- Feasibility of Operations
- Collaboration of Design Components
- Mathematical Adaptation of Engineering Analysis
Impact of 3D Visualisation - Technical

- Evaluation of Options
- Feasibility of Operations
- Collaboration of Design Components
- Mathematical Adaptation of Engineering Analysis
- Environmental Impact Assessment
Impact of 3D Visualisation - Technical

- Evaluation of Options
- Feasibility of Operations
- Collaboration of Design Components
- Mathematical Adaptation of Engineering Analysis
- Environmental Impact Assessment
- Impact on Urban Envelope
Impact of 3D Visualisation – Social & Economical

- Economic Development
Impact of 3D Visualisation – Social & Economical

- Economic Development
- Aesthetic Feasibility
Impact of 3D Visualisation – Social & Economical

- Economic Development
- Aesthetic Feasibility
- Lifestyle Impact
- Public Health & Safety
Smarter Decision Through 3D Visualisation of Infrastructure

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Thank You