Trezi

TREZIVERSE

A One of Its kind Metaverse For
Architecture ,Engineering & Construction Industry

INDIA | UAE

TREZI**VERSE**

TaaS **TREZI as a SERVICE**

TaaS is a range of customized professional solutions using cutting edge technologies like Metaverse, AI, VR, AR, MR, Voice based collaboration and others, which we offer to our clients. Our services are backed by a team of 3D Visual Artists and Developers who can help you to optimize your model geometry and create fabulous experiences.

Benefits & Impact

- Bespoke Solution for your specific use case

- Photorealistic Metaverse Experience

- Multi-user Environment with Customized Solutions

- Increases Efficient Communication, cost saving and time saving

TaaS **FOR TRAINING & DEVELOPMENT**

Design Review & Co-ordination

Trezi Product:

- Trezi Lens annual subscription
- Software - Hybrid SaaS
- Instant VR experience from various 3D authoring tools, like Revit & SketchUp
- Plugin for Revit
- Coordination & virtual meeting with Trezi Lenslite - Android & iOS as well
- Highly cost effective
- Edit the design, materials, furniture, etc.
- Dynamic lighting for natural & artificial both
- Trezi Showcase for instant AR function for objects & assets

Trezi Services: Tailor-made solutions

- Project specific mock-ups
- High-fidelity output using graphical interface
- Device agnostic
- Features:
  - Narration based using digital human
  - Voice assisted interface
  - Conversational AI
  - Audio & textual overlay
  - User Management
  - Mark-up, review & share data
  - Data Analytics
  - Etc.

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TaaS **FOR DESIGN COORDINATION**

Design Review & Co-ordination

Use Cases:

- Project mock-up/ Digital Twin

- Better understanding of the project and materials definition - AR, VR, XR

- Mechanical, electrical & plumbing: XR based overlay of the MEP

- Decision making on options of material/ facade/ landscape

- X-ray views of the project for MEP & construction details

- Designed vs construction

- Pre-construction site checklist - AR based

- Construction handover

- Facility Management

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USE CASES **AEC, REAL ESTATE & CONSTRUCTION**

	Concept design & pre-launch	Design Development & Construction	Sales & Marketing	AI/ML Based Analytics	Operations & Facility Management	Environment Impact Assessment Studies	Risk & Hazard Management
Stage							
Use Case	Interactive experiences at exhibitions & events	Design collaboration & review	VR based photomopsaiced views for decision making & purchase	AI/ML insights for business geographies	Holographic projection simulating real customer support personnel	Location data overlay for operation energy management	Immersive & realistic scenarios for potential hazard simulation
	Property personalization using luxury product discovery	Customer engagement during construction	AR/VR based unsold inventory analysis	Third-party pervasive & sensor based data overlays & predictive analysis	AR/VR bot based interactions for maintenance support	Climatology studies using material characteristics	Hazard assessment studies, modelling & loss computation
	Personalized buyer experience using celebrity meta-humans	MEP, pre & ongoing construction process management	Price-based salability scenarios with overlaid sales data	Improvement of operational & facility management practices	Viral community interaction	Green cover & carbon management	Training for pre-event and post-incident management
		Product discovery, comparison & selection			Interface with project management system - collaboration and tandem working		
		Project monitoring & control					
Sector	Residential		Retail		Commercial		Industrial

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	Personalized buyer experiences with celebrity meta-humans	MEP, pre and ongoing construction process management	Price-based salability scenarios with overlaid sales data	Improvement of operational and facility management practices	Virtual community interaction	Green cover and carbon management	Training for pre-event and post-incident management
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FUNCTIONAL STAGE	USE-CASES	DESCRIPTION	NEW BUILDS / FIT-OUTS / RENOVATIONS	ONGOING O&M FOR EXISTING FACILITIES
Planning & Design	Familiarization with built environment	Understanding all aspects of 'unbuilt' environment - reducing surprises on completion, prior knowledge of specific areas	Y	Y
Sales & Marketing	Customer-facing touch-point and interaction planning	Using AR/VR to provide customers a 'feel' of what will be / is there, supporting decision making for customer purchases, refit-outs	Y	Y
Construction & Finishing	Training for assembly & installation for speciality building products & finishes	Use pre-created, synthesized content for training construction manpower in familiarization and installation procedures for speciality and high-value building materials, products and finishes	Y	Y
Construction Handover & Operations	Training, learning & development for O&M staff	Cost-effective, first-time and refresher training based on as-built facility, final products & finishes for new, existing, and replacement O&M staff.		Y
Operations	Ongoing maintenance and upkeep	Periodic refresher training including facility upgrades and familiarization to new, existing, and replacement O&M staff.		Y
Risk Management	Risk Management and Prevention Scenarios	Knowledge, awareness and actionable SOPs to keep premises safe and secure	Y	Y
Risk Management	Access to remote expertise during post-event support	SOPs, access to remote O&M expertise during post-event reconnaissance, rescue and recovery.		Y

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DESIGN COORDINATION & REVIEW

Collaborative Design & Planning

- Enhance communication, streamline decision-making, and accelerate project timelines

- Bring together architects, developers, and clients in a virtual space where they can collaborate, iterate, and visualize ideas in real-time

- Showcase unbuilt projects with lifelike 3D renderings, allowing clients and stakeholders to explore every single angle, understand spatial dynamics, and make informed decisions before construction even begins

- Virtual Meeting and Conferences
- Real-Time markups and annotations
- Enhanced Collaboration & Feedback

Virtual Twin Development

- Tailor-made Metaverses that showcase properties with unparalleled realism and interactivity.

- Allow potential buyers to explore, visualize, and engage - both Residential Homes and Commercial Spaces

- Offering a more targeted and immersive experience for stakeholders such as buyers, agents, developers, investors and architects

- Photo Realistic Rendering
- Customizable Avatars for Meta-humans
- Custom Design and Branding
- Virtual Tours and Walkthroughs with Voice Assisted AI

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APPLICABILITY: **COMPLETE DESIGN & CONSTRUCTION LIFECYCLE**

Stage
Concept design
Design Development and During Construction: Design collaboration and review Customer engagement during construction MEP, pre and ongoing construction process management Product discovery, comparison and selection Project monitoring and control
Operations & Facility Management: Holographic projection simulating real customer support personnel AR/VR Bot based interactions for maintenance support - multi user functionality Virtual community interaction Interface with project management system - collaboration and tandem working
AI based Analytics

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TaaS **CAPABILITY**

AWARDS & **RECOGNITION**

- World's First Immersive Platform for Marketing Building Products

- India's First VR Product for the Building Industry

- Top Indian and Global Architects and Building Product Manufacturers like Gensler, Schneider, Bluestar, Orient Bell, Venkataraman Associates using Trezi League of 10 at NASSCOM's Emerge Top 50 Companies in 2018 in India

- Immersive Product of the Year 2019 at NASSCOM Design4India Awards

- Meity NASSCOM Startup Women Entrepreneur Award 2020-21 in Emerging Technologies

- Only Immersive Tech Company in 12th Cohort of Microsoft Scaleup Program

- 3 Patents applied for, 7 trademarks registered. 2 new patents being applied for in the near future.

- Frost & Sullivan's Virtual Reality Provider Of The Year, Two Years In A Row

- 50 trailblazers of Indian Start Ups 2023 by Dun & Bradstreet

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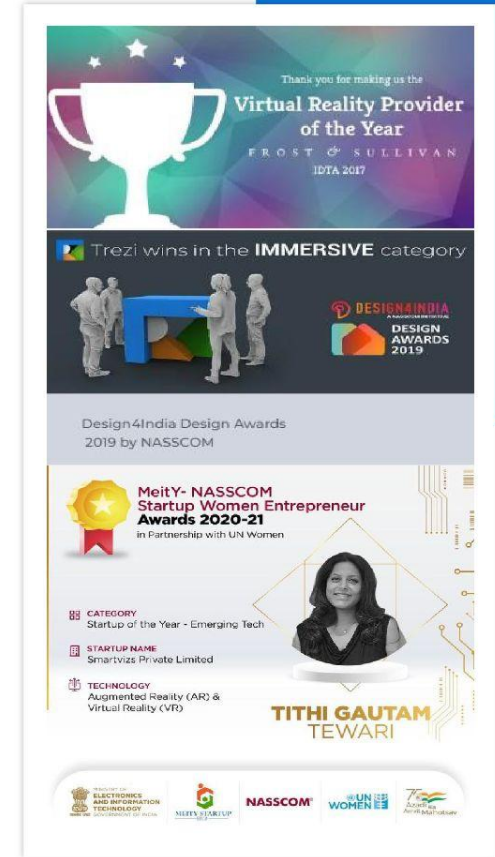
KEY CUSTOMERS TaaS

Real Estate Developers

- OMAXE — Turning dreams into reality
- MANTRI
- WINDLASS DEVELOPERS
- Godrej
- OXIRICH GROUP
- ALPHACORP
- ireo
- RISLAND
- Shapoorji Pallonji
- LODHA — BUILDING A BETTER LIFE
- SPR — Building with purpose
- RAMKY — RAMKY ESTATES — Spaces for life
- ASF INSIGNIA

Product Manufacturers

- Schneider Electric
- AIS — Asahi India Glass Ltd.
- LUMINOUS
- asianpaints
- World of Stones — LIVE WITH NATURE
- WELSPUN
- fanzart — DESIGNER FANS FOR DESIGNER HOMES

IPCs & Other Integrators

- CBRE
- BMR Advisors
- Piramal Realty
- bptp culture}movement
- DASNAC
- GAURS — ur own world
- magicbricks.com
- CUSHMAN & WAKEFIELD
- EA — EXPRESS AVENUE — express yourself!

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OUR KEY **CUSTOMERS**

Architects/ Designers/ IPC

CBRE

ADRIANSE GROUP

CUSHMAN & WAKEFIELD

cherry HILL

Gensler

HKS

PAPER SPACE

RSP

ANJAY PURI ARCHITECTS

Flad

Vibrant SPACES

VESTIAN

hpa hiren patel architects

Venkataramanan Associates

TAKENAKA

Enterprises & Developers

belgravia group

OMAXE
Turning dreams into reality

UltraTech

Godrej

JUMEIRAH GOLF ESTATES

RAHEJA UNIVERSAL

Shapoorji Pallonji

TECH mahindra

CENTRAL PARK RESORTS

Piramal Realty

Product Manufacturers

BLUE STAR

durlum

orientbell tiles

SAINT-GOBAIN

Schneider Electric

Steelcase

WELSPUN FLOORING

WT THE WHITE TEAK COMPANY

fanzart LUXURY DESIGNER FANS SINCE 2012

Infrastructure

ADITYA BIRLA UltraTech

DELHI METRO

Chennai Metro Rail Limited

GMR

L&T

MEGAWIDE

ncrtc national capital region transport corporation

Academy

AIIT

AMITY UNIVERSITY

CHITKARA UNIVERSITY

IVS SCHOOL OF DESIGN

Pearl Academy

Sushant school of art and architecture

TaaS **APPLICATION SCENARIOS**

Infrastructure Ops & Maintenance

How AR/VR benefit the following :

- Facility maintenance across all utilities and services

- Location of each utility point, evacuation paths, fire-assembly areas, with the possibility to overlay metadata e.g. door widths, fire-rating, etc.

- Shortest path video walkthroughs to exits and service points

- Familiarisation for visitors / staff via 360 panos of key areas e.g. fire assembly points, etc.

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TaaS **APPLICATION SCENARIOS**

L&D Programs in HSSE Drills

Using synthesised and 'as-built' virtual environments for :

- Understanding access to hazardous locations & processes

- Video walkthroughs from entry to hazardous locations showing what points will be encountered, refuge/shelter areas, hoist/hold/rest points.

- VR content for training on hazardous tasks

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TaaS **APPLICATION SCENARIOS**

Exhibition & Virtual Showroom

- Trezi empowers exhibitors to seamlessly showcase their products, services, videos, and promotional content

- With Trezi, exhibitors can transform their products into interactive 3D models

- Our platform enables attendees to connect through chat, video calls, and virtual meetups, fostering meaningful interactions just like at physical events

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TaaS **APPLICATION SCENARIOS**

AI based Voice Assistant

- Personalisation of applications with meta-humans of real humans.

- These meta-humans are integrated with the voice based AI to answer different questions being asked.

- The module can be integrated in various applications to enhance customer support and related experiences. This module enables both audio and textual responses.

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TaaS **APPLICATION SCENARIOS**

Virtual Aisles/ Shopping Exp.

- For remote shopping experiences; this can be used for retail shopping largely.

- With Trezi, customised applications can be developed for expanding the physical retail shopping experience to go virtual.

- This enables convenience to customers with a highly immersive customer experience.

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- SmartVizX Showreel_v3.1: https://www.youtube.com/watch?v=feTjrqeriN4
  - https://www.youtube.com/watch?v=-kuv19_B4Ms
- Metaverse:
  - https://www.youtube.com/watch?v=tnkQoFoqFGo (Citadel)
  - https://youtu.be/Pro3sNZukw0 (Voice Assistant & virtual Shopping Exp.)
- Virtual experience of product/automation:
  - For Polo Elevators: https://youtu.be/7Z6LpdGYCjw
  - For Asian Paints: https://www.youtube.com/watch?v=Y4K-EEYuNz4&feature=youtu.be
  - For Welspun: https://youtu.be/Jb-BpznyxQ4
- Functionality and features:
  - https://www.youtube.com/watch?v=YoVmrJrXqDw (Apartment with foldable furniture)
  - https://www.youtube.com/watch?v=4l1izB5bpeA (Cabinet)
  - https://youtu.be/fgAhQOlCFdc (Smarthome automation, Schneider)

- Mobile based:
    - Viviz: http://bit.ly/2xinMgG (Express Exclusive)
    - Viz 360: http://bit.ly/2wDNcbf (Apartment 360)
- For shoot based solutions:
    - https://www.brookfieldindiareit.in/candor-techspace-sector-21-gurugram-virtual-tour/ (Office space)
    - http://bit.ly/2xinlxs (Manufacturing unit)
- Training Solutions:
    - https://www.youtube.com/watch?v=bHjjjS_e804 (Butt welding)
    - https://www.youtube.com/watch?v=B_lIcHa6Fzs (Crane maintenance)
    - https://www.youtube.com/watch?v=zLUvzhJIPEE&t=3s (Factory familiarization)
    - https://www.youtube.com/watch?v=rUK1cCtc8DM (FMCG-Product training)

TREZI as a Service **PROJECTS**

Exteriors, Max Estate
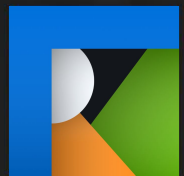CBRE

Interiors, Polo Elevators

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TREZI as a Service **PROJECTS**

Training & Devlopment
Welding Module

Metaverse, Mahindra Lifespaces
Tech Mahindra

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THANK YOU

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