







ESTABLISHED

Established in **2002**, SATPALDA has successfully completed a wide range of photogrammetry, mapping and remote sensing projects.



PROFILE

- Satellite RemoteSensing
- GIS
- Photogrammetry
- LiDAR
- UAV
- Aviation Solutions
- 3D Landscape
- WebGIS & Software Development



EXPERIENCE

Twenty years of rich experience and expertise, our company has a team of experts with thousands of man hours of production and experience



Company Overview





PRODUCTS

- Satellite Imagery :
 WorldView, GeoEye,
 KazEOSat, BlackSky,
 GRUS
- **3D Landscape** 50cm to 5m DSM/DTM
- AMDB (Aerodrome Mapping Database)



SERVICES

- Drone Photogrammetry
- Satellite Photogrammetry
- Land subsidence
 Mapping
- 3D Modelling
- Cadastral Mapping
- GIS Mapping
- Planimetric mapping
- SDSS



SECTORS

- Water
- Mining
- Railways
- Forestry
- Agriculture
- Oil and Gas
- Disaster Management
- Urban Planning
- Waste Management



PARTNERS

- BLACKSKY
- AXELSPACE
- MAXAR
- RESTEC
- SCANEX
- Simactive
- INTERMAP



Operating From

2

Locations

Projects

60+

Countries

Across

6

Continents

Delivered

1500+

Projects

Technical Staff

70+

Supporting



Smart City Overview







GIS for Smart Cities



Objective

- Efficient transportation, public and health services
- Contribute significantly to the country's economy
- Underground cabling to avoid electrocution
- Decision-making based on spatial data
- Smart waste management, recycling and reuses
- Citizen-centric

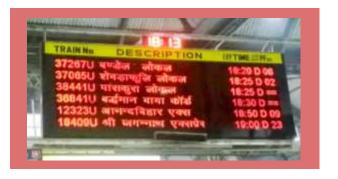
Applications

- Site identification, selection, evaluation, etc
- Planning: 2D–3D Design, and visualisation of cities
- Construction and project management
- Facility management information systems
- Operation and reporting















Photogrammetry

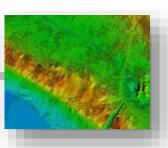
GIS

DGPS

UAV

Ground Penetrating Radar (GPR)

LiDAR









Smart City Strategies







Digital twin is the virtual representation of real-world assets, allowing simulation with real-time data. A digital twin can not only run simulations but also allow us to engage with it.

Applications

- Disaster resilience
- Urban planning /smart city/ pan city solutions
- Structures and their system

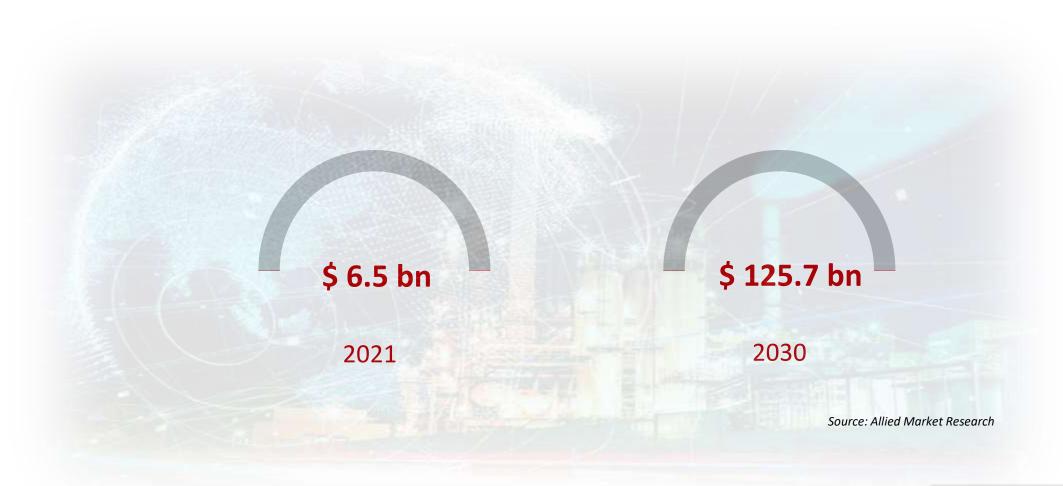
Advantages

- Better R&D: Development of R&D options with the help of data and simulations and creating efficient product design.
- Greater efficiency of the system or process with proper monitoring and achieving peak performance.
- End-of-life products: Digital twins can also assist producers in determining how to handle products that have reached the end.





The current share of the Digital Twin market and its forecasted growth.







Property Tax Evasion using GIS

- Cities can increase their revenue by accurately identifying unidentified houses using GIS.
- The technique produces a visual result showing the location of such properties as either a paper copy or a digital map. Determining the impact of location on property value was challenging in the past since an accurate location was impossible to get.
- However, cities may easily analyze the geographic characteristics of any number of entities using GIS.







Water Resource Management: Utility, Risk and Prevention

- Better water management and groundwater depth analysis.
- Surface water, watershed mapping and LULC mapping of the city to find where pressure will go negative and where water supply is required.
- Overhead tank, water supply pipeline, and waste water supply distribution and its maintenance.
- Urban flood risk analysis.
- Storm Water Management Model (SWMM).
- Inundation mapping.







City and 3D Information Model

- 3D City models represent an actual 3 dimensional view of the buildings and contains all the details and dimensions of the infrastructure. This is important for a better understanding of housing and commercial properties.
- DEM and DSM are 3D Models of the bare earth, natural and man-made features. It is created using stereo pairs of remote sensing data. They have a wide range of applications like flood analysis, volumetric calculation, cut-fill analysis, etc.
- Slope detection, geomorphology of the terrain etc.
- 3D Planimetric maps based on high-resolution stereo pairs satellite images depict the best feature collection like roads, buildings, walls, parking, and many more.





Deliverables: 3-D Model

(Al-Manakh)



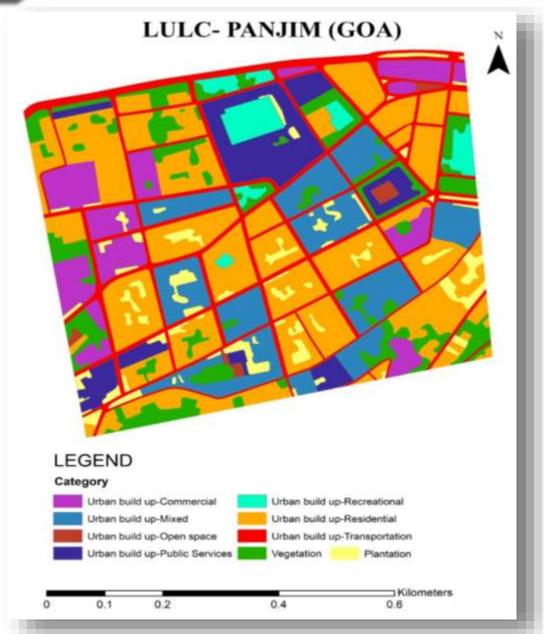






Deliverables: LULC







Deliverables: Cadastral

SATPAL DA

Map (Navi Mumbai)

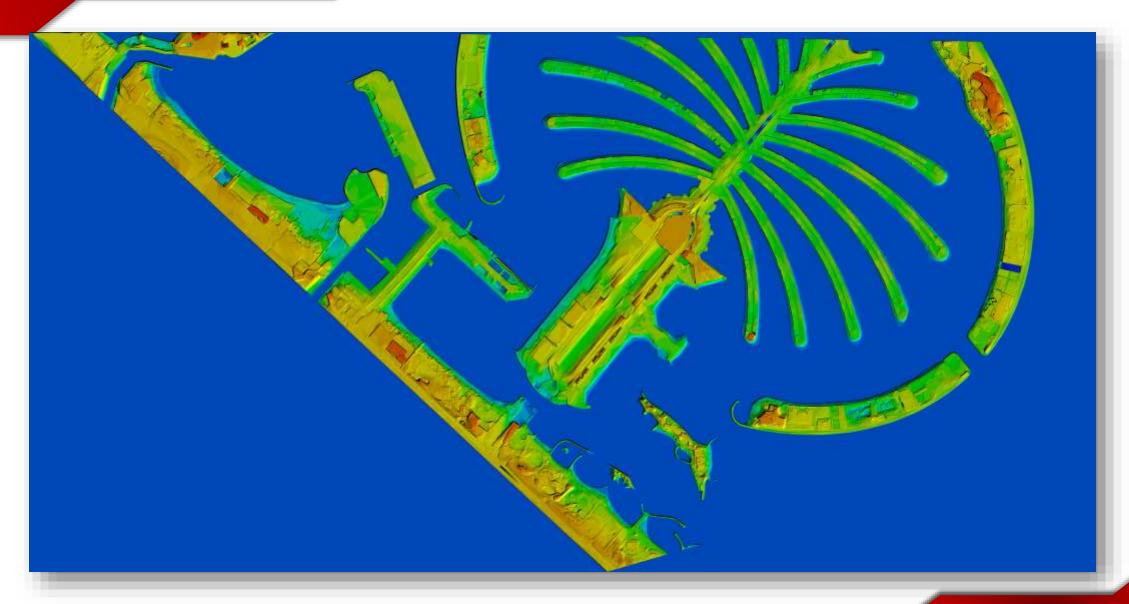




Deliverables: DTM

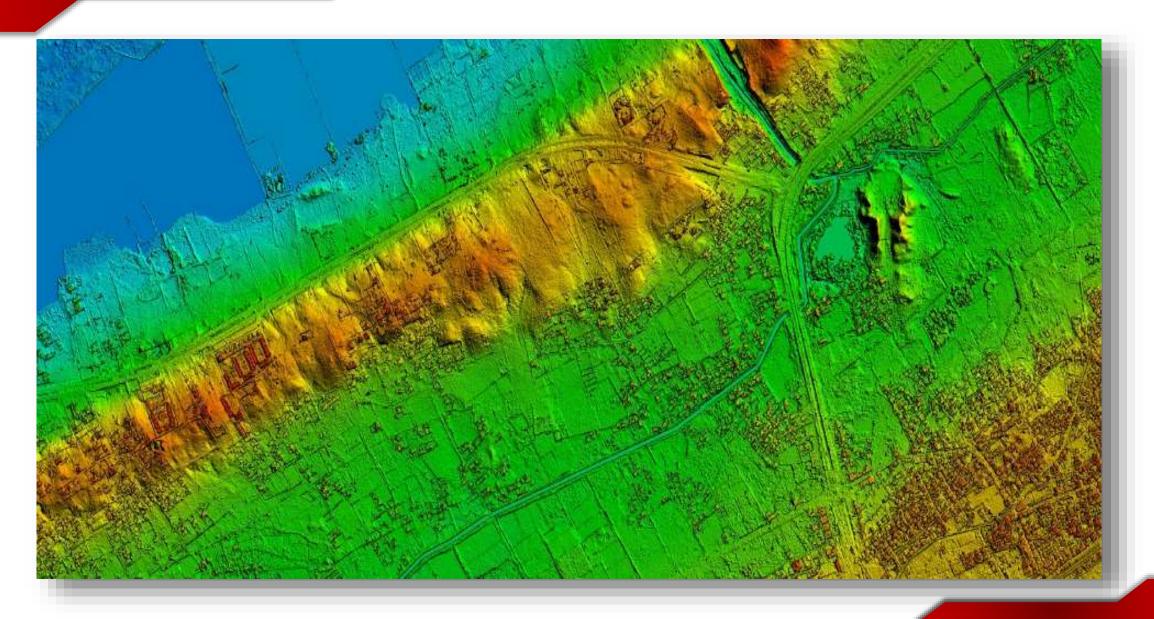
(Palm Jumeirah)





Deliverables: DSM







Deliverables: Taxation Map (Agra ward no. 89)







Deliverables: Orthophoto (Panjim)

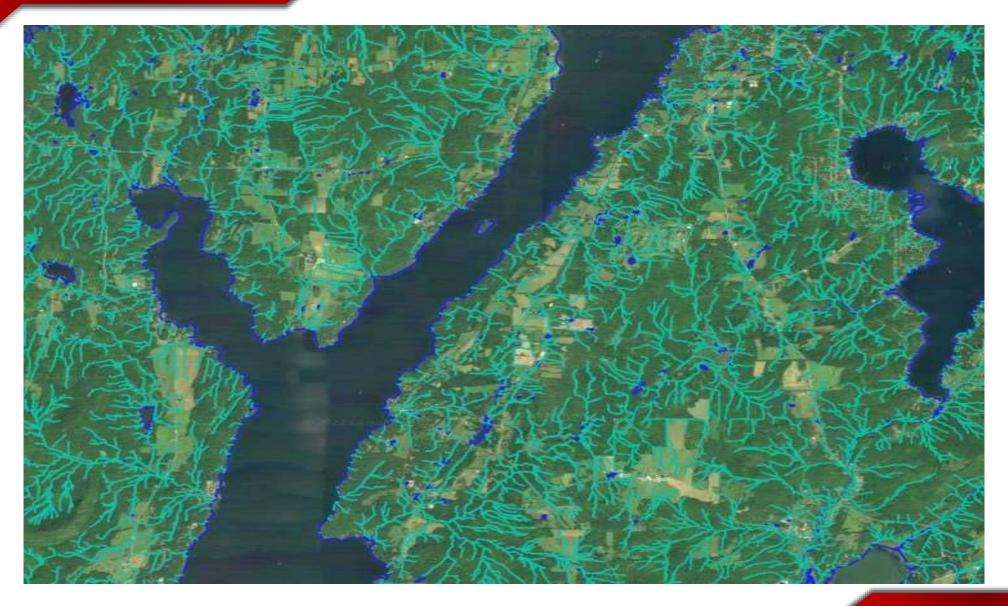






Deliverables: Surface Water Mapping









Thank You





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