

# Map the New World



PLATEAU  
by MLIT

PLATEAU English Website



PLATEAU Japanese Website



Project PLATEAU is an open data initiative for urban digital twin led by the Ministry of Land, Infrastructure, Transport and Tourism (MLIT), Japan.

## Empowering urban 3D digital twin solution through open data platform

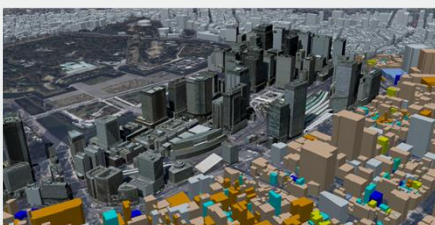
1

3D city model as infrastructure for a digital society

Advanced and localized international standard for 3D city model (City GML)

### Major Works in 2023

- 1 Data development**
  - Add definition of attribute information
  - Defining of texturing rules
- 2 Data Coverage**
  - FY2021 56 Cities
  - FY2022 127 Cities
  - FY2023 196 Cities
  - FY2027(projected) 500+ Cities



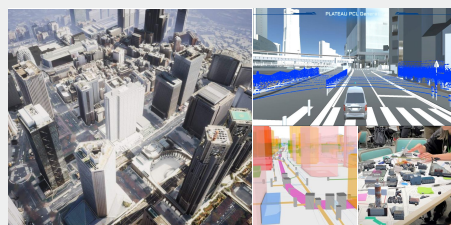
2

Use case development and social implementation

Launching demonstration projects by the cutting-edge technology by PLATEAU

### Major Works in 2023

- 1 Launching Demonstration Projects**
  - More than 100 projects
  - Fields ranging from urban planning, mobility, robotics and more
- 2 Established the Consortium**
  - More than 350 institutions from private/public sector



3

Open data and solution for open innovation

Publishing wide variety of technical reports for sharing knowledge and offering open data and source for developers

### Major Works in 2023

- 1 Open Data**
  - More than 200 datasets are available in various format
- 2 Open Source Software on GitHub**
  - PLATEAU VIEW 3.0 Source Code
  - PLATEAU SDK for Unity/Unreal Engine
  - PLATEAU SDK Toolkits for Unity
  - Variety of Toolkit



## Action1 Standardization and Extension of 3D City Model Ranging from LOD0 to LOD4

### LOD1-2: Generating 3D City Model from LOD0 (2D) map data

**Standard Data Generation Procedure**

Aerial Survey + Photogrammetry LIDAR + Legacy 2D Data

### LOD3: Extend Standard Module by Optimizing for Various Use Cases

**Standard Data Generation Procedure**

Aerial Survey + MMS + AI Generate

**Various Objects in LOD3**

**Defining Geometry for Various City Furniture**

### LOD4: Integrating BIM Models in 3D City Model

**Data Generation Procedure**

BIM IFC + IDM/MVD + CityGML (LOD4)

**IFC-CityGML Concept based on IDM/MVD(PLATEAU)**

### Related Documents

- 01 Standard Data Product Specification
- 02 Standard Implementation Manual
- 03 Manual for Integration of BIM Model in 3D City Model

## Action2 Development of PLATEAU Use Cases for Digital Transformation of Society

**Urban planning**  
Simulation and consensus building

**Disaster Management**  
Risk visualization and evacuation simulation

**Tourism**  
XR tourism content

**Mobility / Robots**  
Autonomous vehicle and drones

**Public Participation**  
Visualization through XR technologies

**Environment / Energy**  
Simulation for solar power generation and ventilation

**Infrastructure**  
Facilities management through IoT data

**Digital twin tech**  
Modelling of sensing data and integration with BIM

### Technical Reports

Technical Reports from PLATEAU projects

## Action3 Driving Open Innovation through Open Data and Open Source

### PLATEAU VIEW 2.0

**PLATEAU View 2.0**  
-Visualizing Data from Projects  
-Nation Wide 3D City Model  
-Various Overlay Data such as Urban Planning, hazard Info

### Open Data

**Geo Spatial Information Center**  
-3D City Model Data  
-PLATEAU Use-Case Data  
-Data-Conversion Tool Kits  
-Total of 145 Datasets

### Open Source Software

**PLATEAU GitHub Offers**  
-PLATEAU VIEW Source Code  
-Unity/Unreal PLATEAU SDK  
-Data Conversion Tool Kits  
-Other FOSS for Users

### Documents

**Handbooks**

**PLATEAU Library Offers**

- 3D City Model Introduction Guidance
- Data Product Specification
- Technical Reports
- Other Educational Documents

### PLATEAU YOUTUBE



### Contact

