



UNGEONOW 2024
首届联合国地信周



“实景三维创新技术中澳国际合作项目” 成果发布

Release of Achievements
for China-Australia International Cooperation Project
on 3D Real Scene Innovative Technology





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“实景三维创新技术中澳国际合作项目” 情况介绍

Project Introduction
for China-Australia International Cooperation Project
on 3D Real Scene Innovative Technology



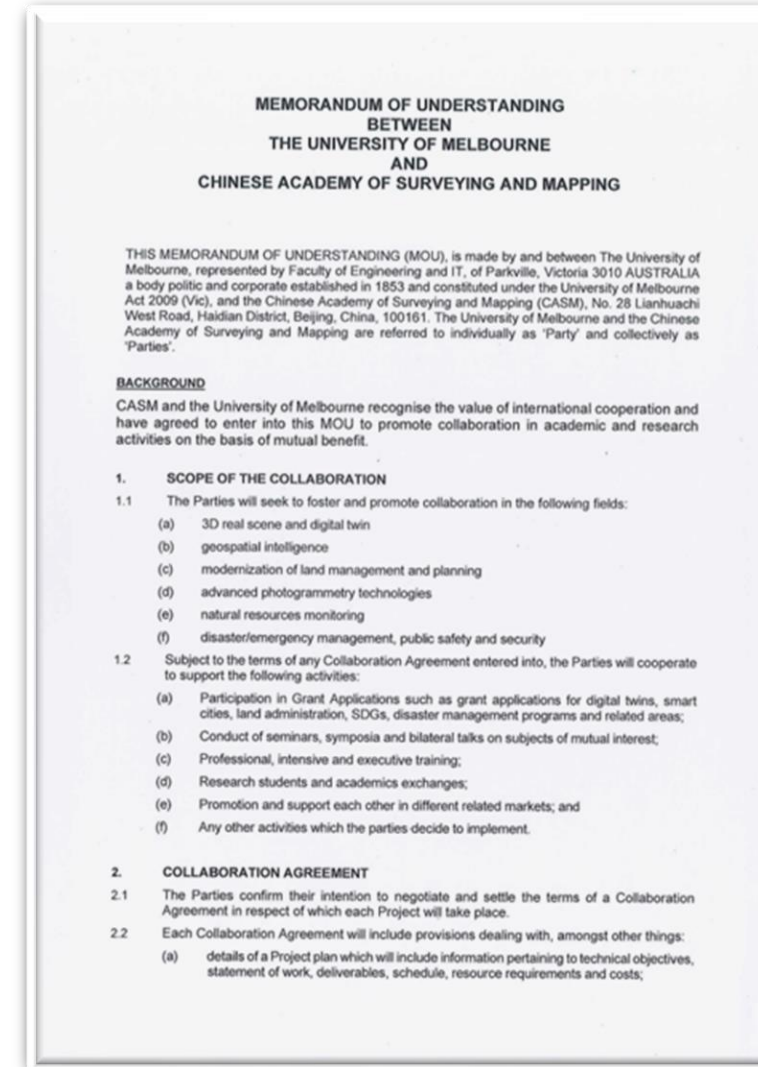


Started from 2023,

- Chinese Academy of Surveying and Mapping Sciences (**CASM**),
- Center for Spatial Data Infrastructures and Land Administration (**CSDILA**), the University of Melbourne
- Qingdao Surveying and Mapping Institute (**QSMI**),

have signed a **Memorandum of Understanding (MoU)**, and an **Action Plan** for cooperation in research on **Digital Twins and Smart City Technologies**.

从2023年起，中国测绘科学研究院联合墨尔本大学空间数据基础设施与土地管理中心、青岛市勘察测绘研究院签署合作备忘录、数字孪生与智慧城市技术研究合作行动计划等合作协议。



CASM and CSDILA the
University of Melbourne
Signed a MoU

International Symposium on
“3D Real Scene and Smart City
Construction”

Workshop on GeoAI for Sustainable
Development: Governance,
Innovation and Application

2023.10

Melbourne, 墨尔本

2024.04

Qingdao, 青岛

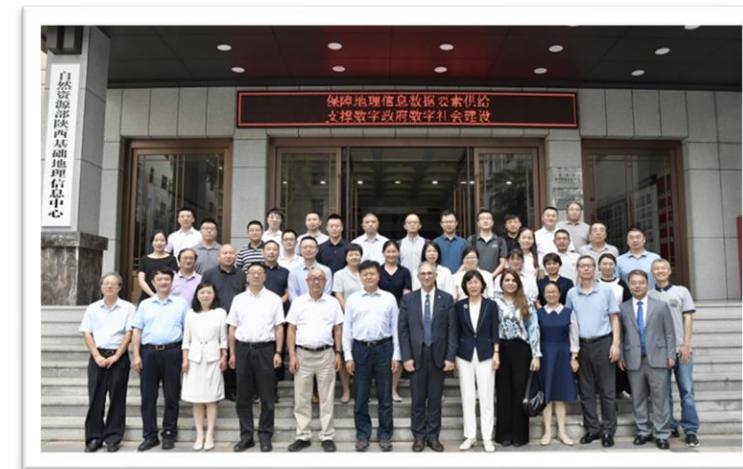
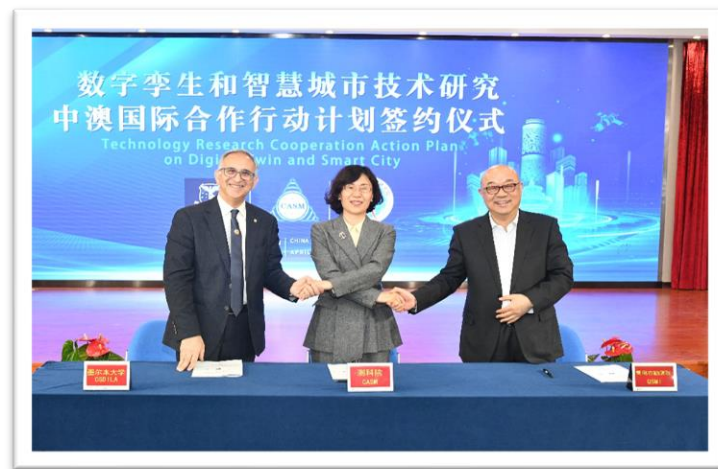
2024.09

Xi'an, 西安

中国测绘科学研究院与墨尔本
大学签署合作备忘录

“实景三维与智慧城市建设”
国际科技合作与发展研讨会

“地理空间人工智能促进可持续发展：治理，
创新和应用” 地理空间知识交流研讨会

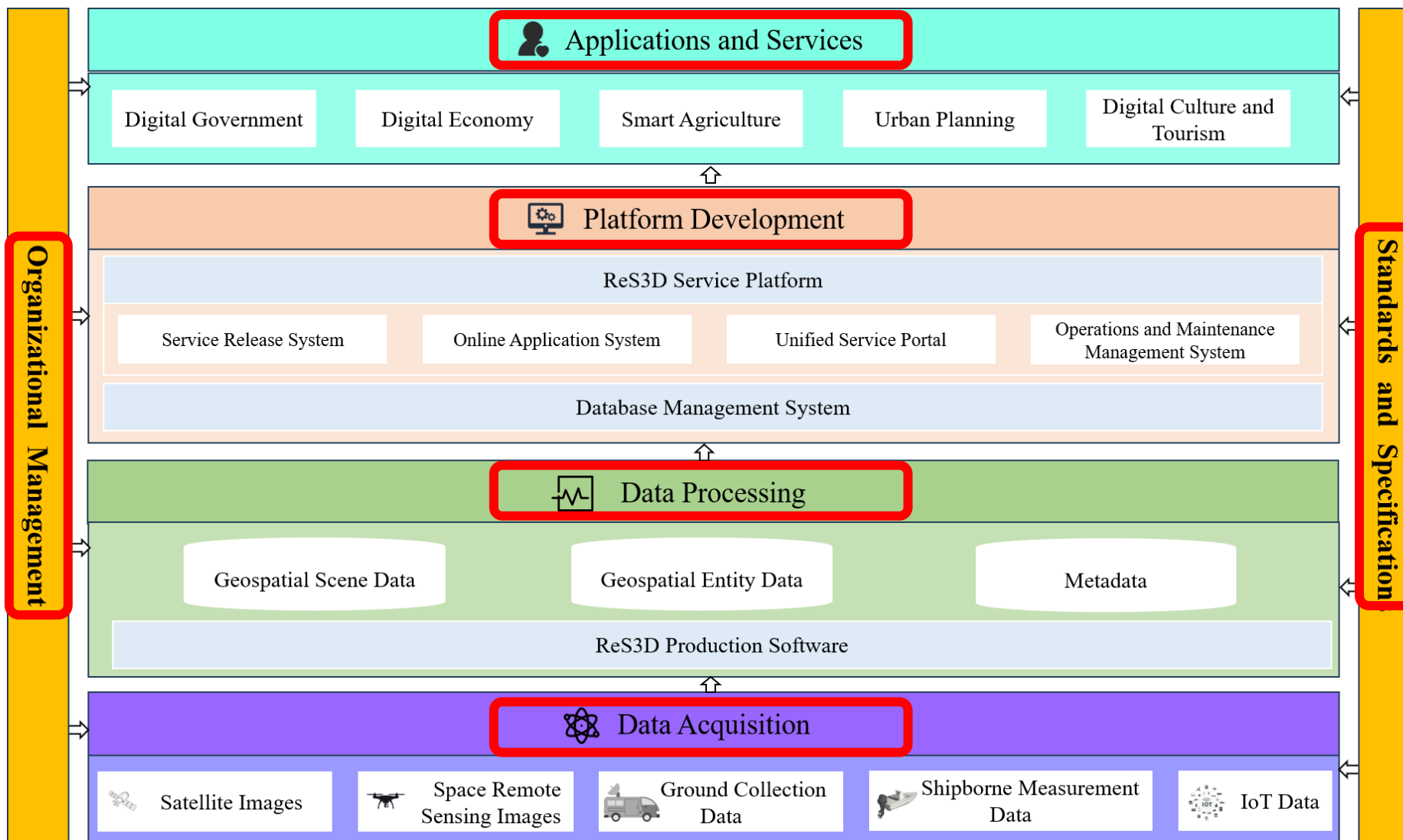




3D Real Scene Technology Solution

ReS3D V1.0

实景三维技术解决方案

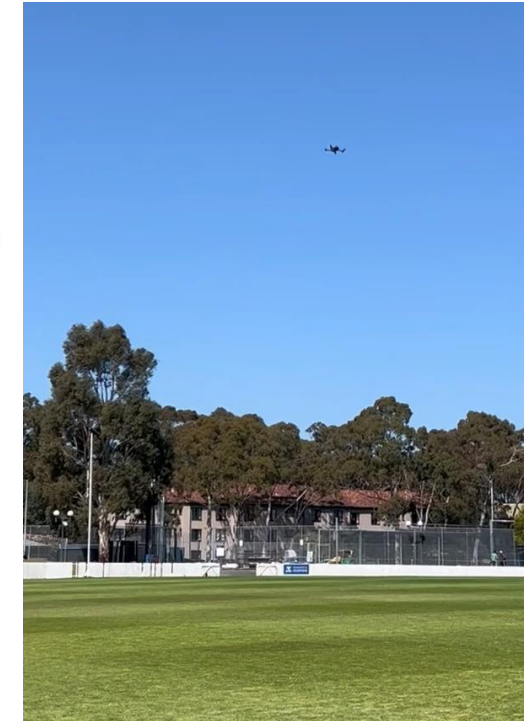
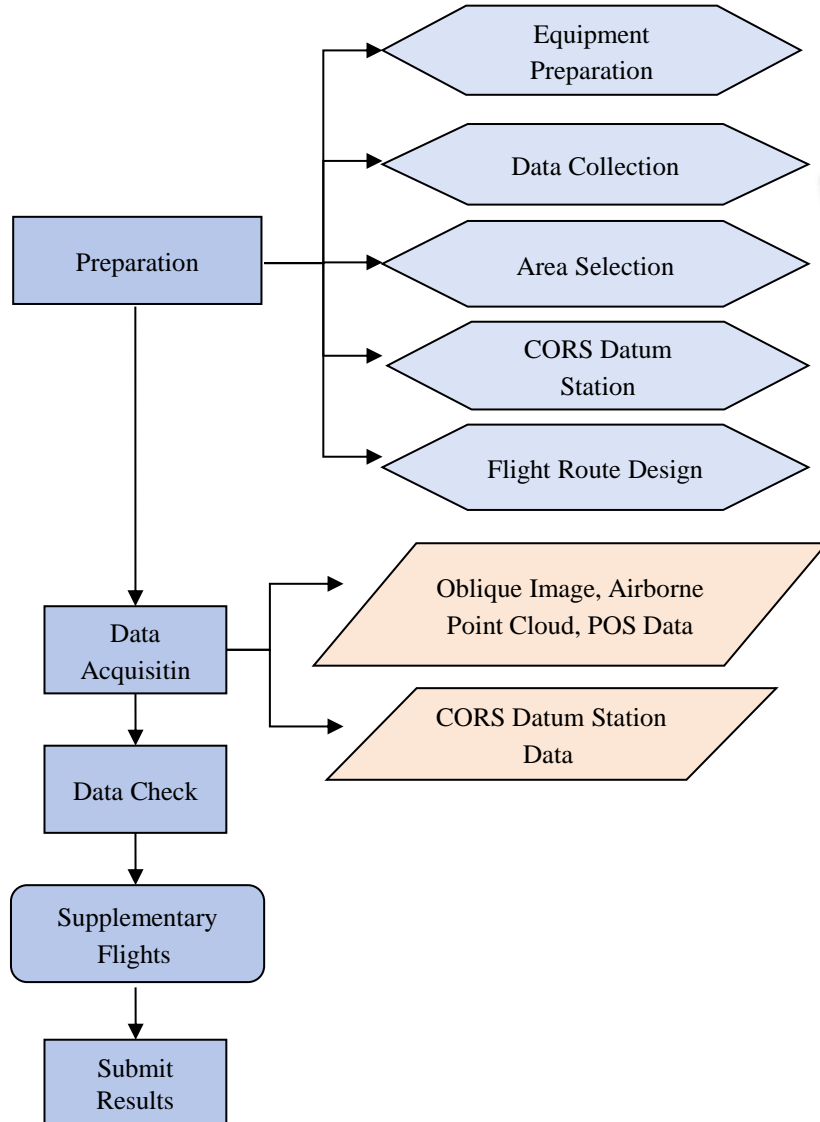


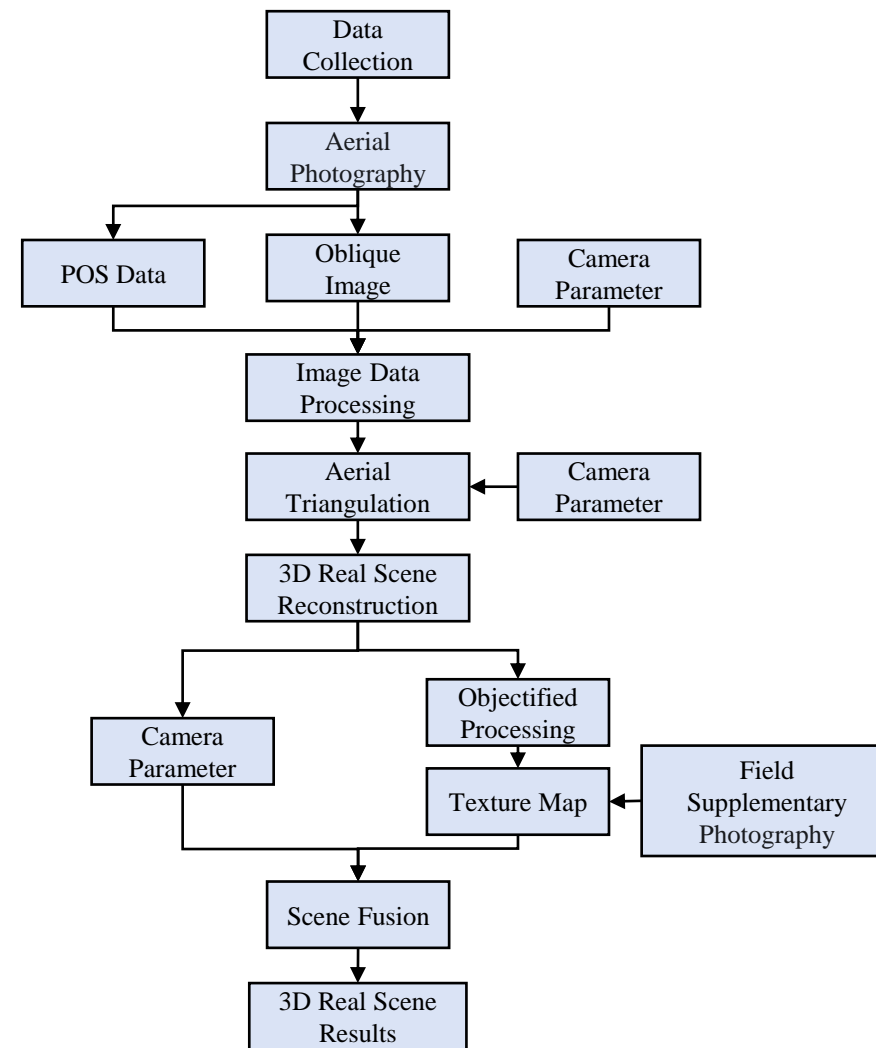
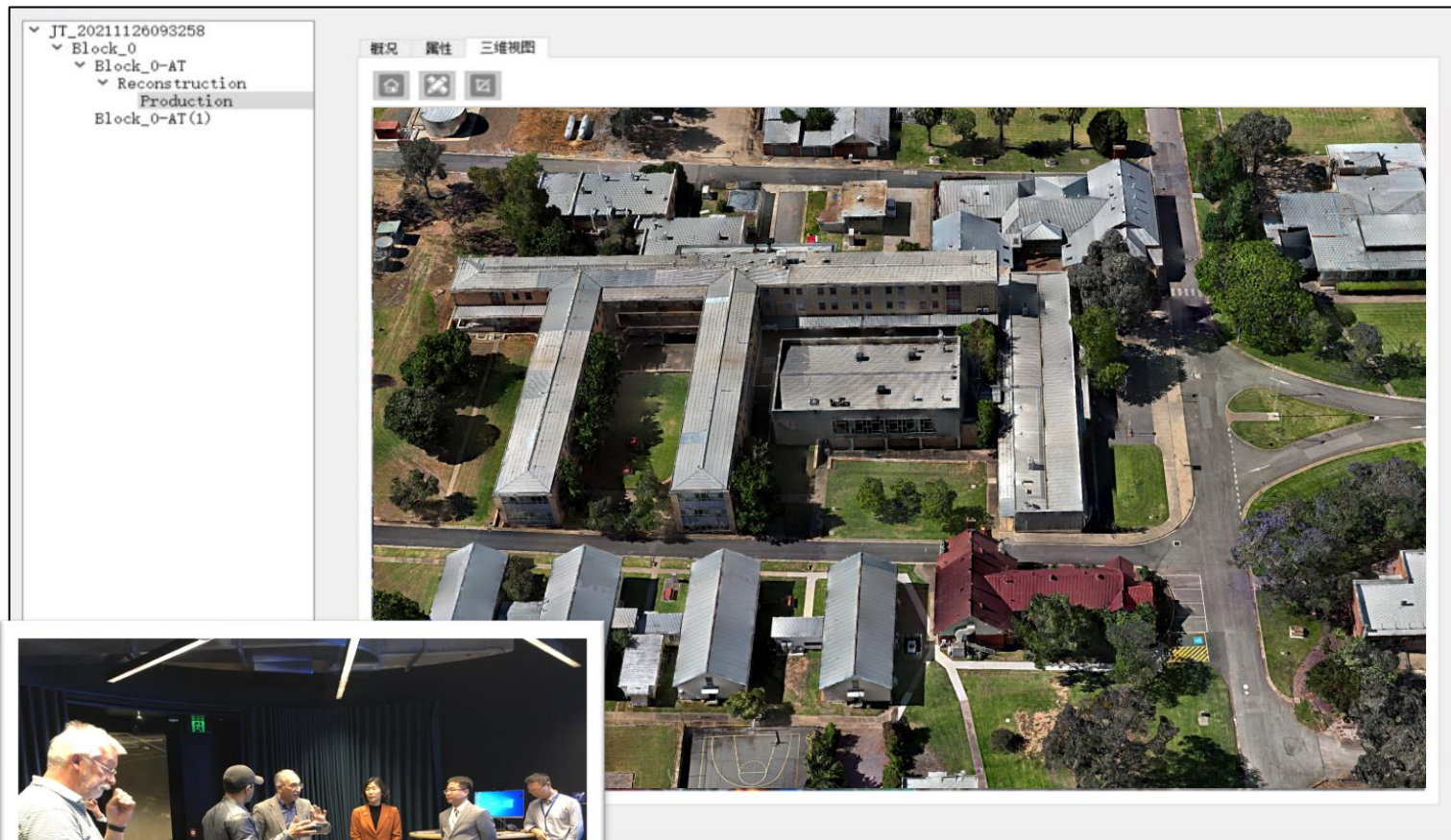
ReS3D V1.0 - High Precision and Speed Data Acquisition

高精度快速数据采集



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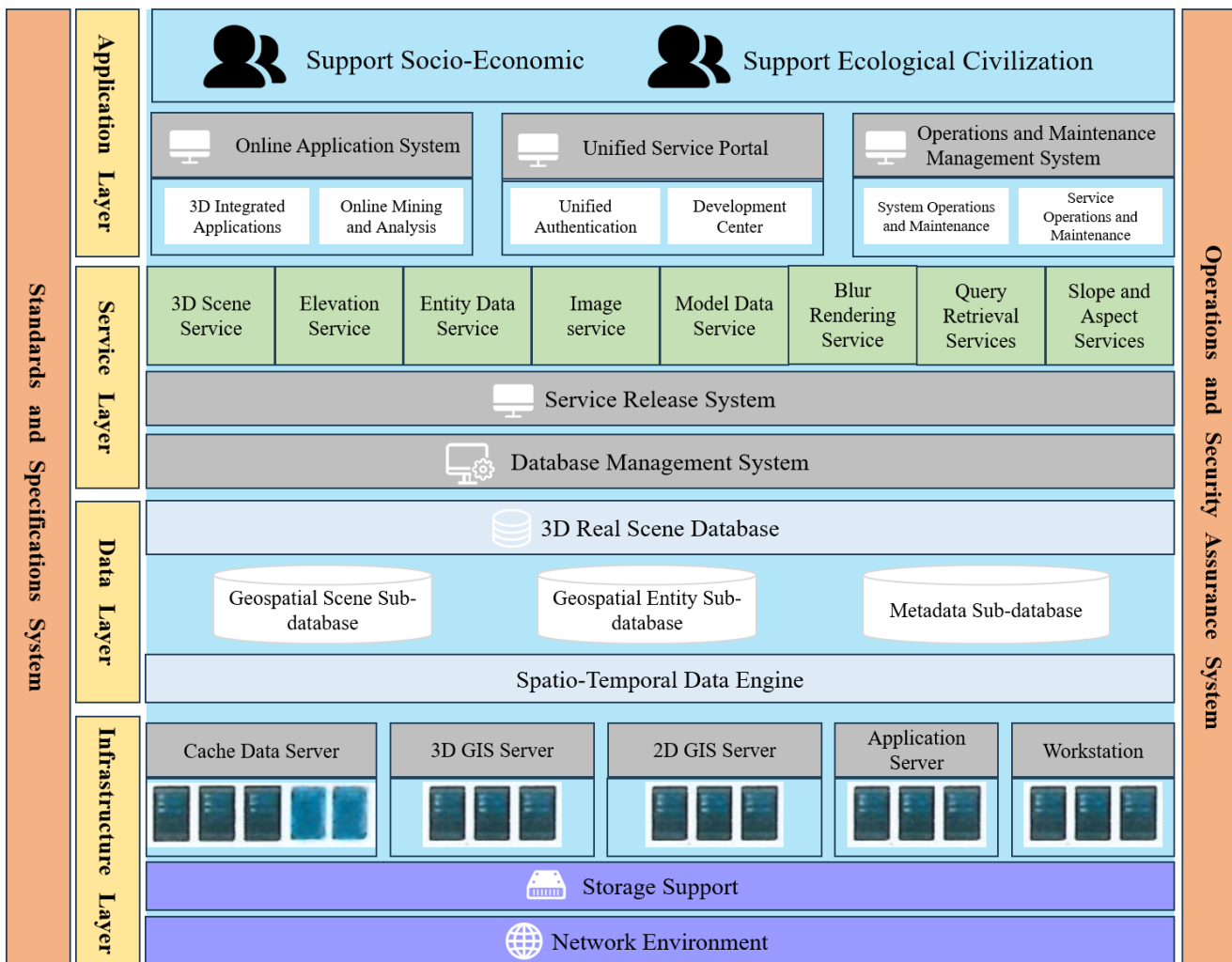


ReS3D V1.0 - Platform Development & Shared Services

平台开发与共享服务



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To achieve online services for large-scale, high-precision 3D Real Scene, the platform has been developed upon the ReS3D solution, focusing on data fusion, integration, and application on one spatial base layer.

为实现大范围、高精度实景三维的在线服务，建设ReS3D实景三维平台，以数据融合、平台融合、应用融合为核心，搭建智慧城市信息化基础设施，支撑基础时空要素信息和业务信息在时空底板上的承载和应用



Focusing on the practice of **Qingdao**, we **first completed the digital space** support of “**mountains, seas, cities, islands and bays integration**”, forming terrain-level and city-level multi-scale 3D Real Scene covering the entire **Qingdao**, with **730 km coastlines, 49 bays, and 46 islands** at the headquarters. It truly restores Qingdao’s natural geographical pattern and urban style characteristics, **provides the city with the sole and authoritative 3D digital spatial foundation.**

聚焦青岛实践，率先完成“山、海、城、岛、湾一体”的数字空间底座，形成了覆盖青岛市全域地形级、城市级多尺度实景三维场景，涵盖730千米海岸线、49个海湾、46个海岛，真实还原了青岛的自然地理格局和城市风貌特色，为全市提供了唯一、权威的三维数字空间底座



Empowering Various Sectors in Qingdao: As the **Sole and Authoritative Digital Spatial Foundation of Qingdao**, **3D Real Scene Qingdao** is open and shared across **40+ Sectors**, and provides geographic information public services for **100+ Digital Application Scenarios** in the city. With annual visits exceeding **100 million times**, it has established a **best practice for ReS3D in cities**.

赋能千行百业，作为青岛市唯一、权威的数字空间底座，成果对全市 40 多个领域开放共享，为全市百余个数字化应用场景提供地理信息公共服务，平台服务年访问量 1 亿次以上，打造了ReS3D应用实践最近范例城市。



服务智慧城市建设
Support Smart City Construction



服务智慧港口建设
Support Smart Port Construction



ReS3D V1.0 Best Practice in Cities

White Paper

On Promoting Qingdao's High-Quality Development

实景三维赋能青岛高质量发展白皮书



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“实景三维创新技术中澳国际合作项目” 成果赠送

Presentation of Achievements
for China-Australia International Cooperation Project
on 3D Real Scene Innovative Technology





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向联合国全球地理信息知识与创新中心(UN GGKIC)

赠送“实景三维创新技术中澳国际合作项目”成果

实景三维技术解决方案 ReS3D V1.0

3D Real Scene Technology Solution ReS3D V1.0

Presented by:

Chinese Academy of Surveying and Mapping

Qingdao Surveying and Mapping Institute

The University of Melbourne

*Bridging the Digital Divide and
Shaping a Beautiful Earth*

3D Real Scene Technology
Solution - Res3D V1.0
(2024 Edition)



Compiled by

Chinese Academy of Surveying and Mapping,
Qingdao Survey and Mapping Institute,
And University of Melbourne



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向联合国全球地理信息知识与创新中心(UN GGKIC)
赠送“实景三维创新技术中澳国际合作项目”成果
《实景三维赋能青岛高质量发展白皮书》

White Paper on Promoting
Qingdao's High-Quality
Development with 3D Real Scene
Technology



Compiled by
Qingdao Natural Resources and Planning Bureau,
Qingdao Surveying and Mapping Institute

White Paper on Promoting Qingdao's High-Quality
Development with 3D Real Scene Technology.

Presented by
Qingdao Natural Resources and Planning Bureau
Qingdao Surveying and Mapping Institute



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