

26 February 2020

## Aerometrex completes landmark 3D modelling project in Europe

- **Aerometrex completes 3D modelling of the City of Pau, southern France**
- **Highly detailed 3D modelling method uses multi-platform capture (helicopter, drone and street level) to produce seamless imagery**
- **Unprecedented level of resolution and clarity**
- **Samples of 3D model released by City of Pau, showcasing Aerometrex's capability in Europe**

Aerometrex Limited (ASX: AMX) ('AMX' or 'the Company') is pleased to announce the completion and public unveiling of a landmark 3D modelling project in Europe. 3D modelling is one of four business units within Aerometrex, the others being LiDAR, aerial photo contracting and MetroMap.

After a world-wide capability search and an international competitive tendering process in 2019, the city of Pau in southern France commissioned Aerometrex and its partner French company IGO SAS to produce a 3D model of the old city, including its historic castle, at a resolution approaching a few millimetres pixel size. Aerometrex began working on the project in June 2019 and the final 3D model has now been released for public viewing.

A video displaying the unprecedented resolution, detail and clarity of the 3D model can be viewed here: <https://youtu.be/bRSJff6ayL4>

The project is a ground-breaking implementation of the science of massive multi-ray photogrammetry, involving the geometric reconstruction of more than 100,000 2D images taken from helicopter, drone and on foot. The ability to process the massive volume of data generated by these 3 perspectives over a whole city centre into a photo-realistic 3D environment provides users with an unparalleled immersive visual experience and Aerometrex with a clear lead on the 3D modelling service market world-wide.

Aerometrex's Managing Director Mark Deuter said:

"This project illustrates the global reach of our 3D modelling service as well as the degree of 3D technical excellence that now exists in the company. The 3D model of the City of Pau has set a standard that will attract the attention of every other municipality in Europe. We intend to capitalise on this exposure by working closely with our sales channel partners in Europe and the USA in 2020."

"The combination of very high resolution shots and the surface treatment make it a first on a European scale", says Marc Serraf, Director of AEC Informatique, the company in charge of project management assistance. Jean-Michel Lopez, Project Manager, highlighted the multitude of opportunities that this 3D model opens to the community, businesses and individuals.

● **Town planning:** It is in town planning that the 3D model offers the most direct applications. Architects or engineers will be able to understand the positioning of a building before its construction

in a dynamic context. It is possible to entrust pieces of the model to these firms so that they can deposit digital sketches within the framework of building permits. This would allow all stakeholders to observe the real estate project from all angles: facades, colours, textures of materials, etc. Public decision makers will also have a tool to anticipate urban development and land use planning.

● **Transportation and traffic:** The region's public transport services should be among the most interested users: they will have the possibility of foreshadowing the impacts of a change of direction of traffic on an arterial route. Similarly, the Mixed Urban Transport Union will be able to virtually drive its buses through the model in order to determine optimal path.

● **Economics:** In tourism, the model can be a real ambassador for the city. People can walk like a pedestrian in a virtual space. This tool can be enriched with references from merchants, companies or services, so that the viewer can click on a front door or storefront and switch either to their website or to the digital model of the interior of the building.

● **Risk management:** The model, based on the reality of dimensions and shapes, becomes a support used for simulating floods or installing video surveillance cameras. Any deterioration of the architectural heritage can also be monitored by comparing the images over time.

● **Urban logistics:** The 3D model can be at the origin of the creation of a single control centre grouping several supervision missions (lighting, energy, roads, video surveillance, public buildings, parking, etc.). A citizen spotting a damaged pole, a blown bulb or something to remove on the road, can report it and locate it with precision. It can also be used for simulation in night lighting of public spaces.

● **Heritage documentation:** In the case of damage to historic buildings, a 3D model forms an ideal documentation base for reconstruction work. Accurate measurements can be taken from the pre-existing 3D model to ensure that the reconstruction is carried out accurately and with the same materials.

This release is approved by the Board of Directors of Aerometrex Limited.

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## **ADDITIONAL INFORMATION**

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## **ABOUT AEROMETREX**

Aerometrex Limited is a professional aerial mapping business specialising in aerial photography, photogrammetry, LiDAR, 3D modelling and aerial imagery subscription services.

The company listed on the ASX in December 2019 to raise capital to fund its growth. The company has a clear strategy to provide value to its shareholders by providing high-quality, accurate aerial imagery and LiDAR products to a growing client base.

AMX has strong Board and Executive teams, with a combined staff experience in the industry of 780 years total.

**About Pau:**

Known as the city of art & history, Pau has been a great tourist attraction for many decades. The birth-city of King Henry IV, Pau is also one of the regular venues for the Tour de France. The city has always had an innovative & progressive approach to adopting technology; some note-worthy examples include:

- Very high-speed internet access via one of the first fibre-optic network infrastructures
- Hydrogen-powered buses, launched in January 2020 as a part of a sophisticated public transport system.

**Attachments:**

Video: Sample section of the 3D model, showcasing the Castle of Pau:

<https://youtu.be/bRSJff6ayL4>

Some images of the 3D Mesh Model:

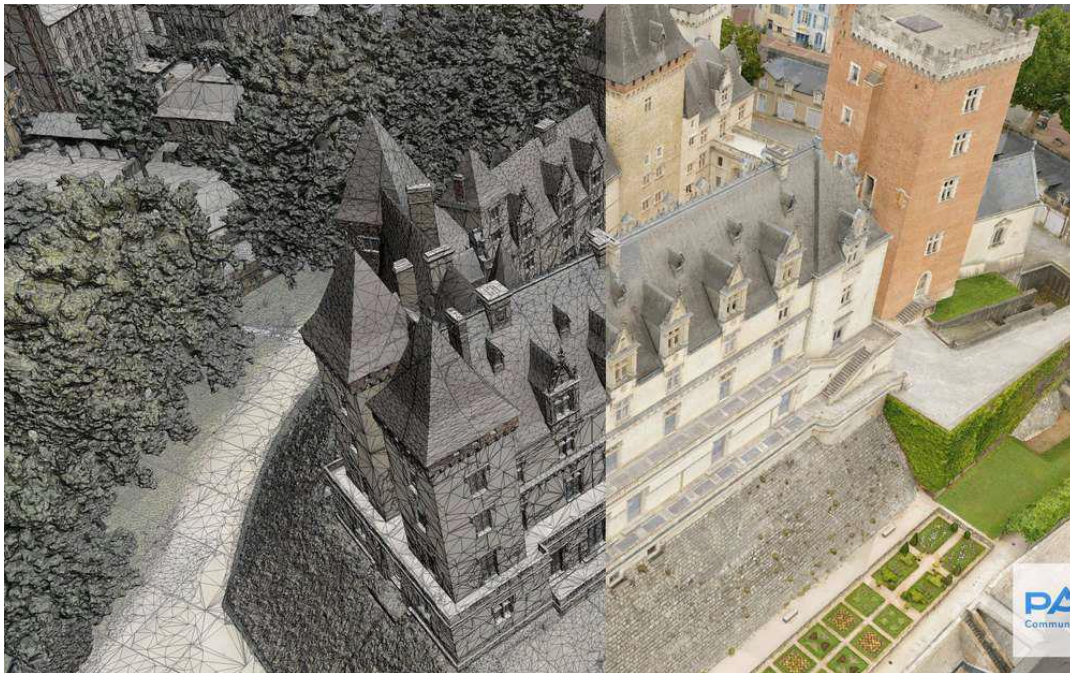


Figure 1. imagery is affixed on a digital skeleton showing the dimensions of the buildings.



Figure 2. Place Marguerite reconstructed in 3D. On the left, the mesh before applying the photos.





Figure 3. An aerial photo of the castle district



Figure4. The reconstruction of the castle district with the 3D model.





Figure 5. A photo of the town hall



Figure 6. The city hall reconstructed in 3D model.