Allianz Risk Consulting (ARC) together with our partner FairFleet is now able to provide 3D model creation and efficient roof inspection solutions with modern drone technology. We can identify specific problems, such as holes in roofs, blistering of bricks, maintenance defects, faulty or loose bricks and cables as well as cracks, stagnant water and inadequate repairs. From the data and the evaluations of the drone photography, we get valuable insights for further work processes - safely, innovatively and efficiently.

SERVICES PROVIDED

3D MODEL CREATION WITH DRONES
- High-resolution aerial photography to create a digital twin: with the digital twin package you get a photogrammetric 3D model of the asset. This is done using a variety of high-resolution aerial photographs.
- RGB frames and an orthomosaic: In addition, you receive the resulting RGB frames and an orthomosaic. This information helps to balance risks and identify damages or weaknesses quickly, precisely and in an innovative way.
- During the risk assessment and underwriting the data captured by drones can help to assess and evaluate risks. In case of a loss, well-documented historical data is available.

Innovation and new technologies are enabling more accurate and immediate data collection to mitigate risks. In recent years, drone technology has evolved tremendously, enabling more comprehensive and holistic records than manually recorded notes. This is also proven to be more cost efficient and faster than traditional methods. The precision of drone technology will improve data quality and ultimately be essential in mitigating and controlling future losses.
AERIAL ROOF INSPECTION WITH DRONES

- Automated damage analysis of roofs with high-resolution aerial photographs.
- The roof inspection provides the complete selection of RGB single images, but also a complete analysis of the roof.
- The images are analyzed by a smart algorithm.
- The output is a comprehensive report on the condition of the roof and information to the kind of damage (hail storm or any other damage) to the roof.
- The delivered report includes aerial photos with damages such as: broken tiles, debris, clogged gutters, overhanging vegetation, soiling or other damages.

Orthomosaic with roof measurement

Damage detection with drone

OUR PARTNER

We partner with FairFleet, full-service-provider for drone powered solutions. Drone technology will help in the performance of inspections.

For further information on AGCS’ portfolio of customer services, visit www.agcs.allianz.com/services

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