

User Event in Australia --- November 13th - 17th 2017

Park Regis North Quay
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	Training topics
Monday, 13.11. (no or little experience required)	Basic Training for TerraScan Basic concepts of processing any kind of point clouds (airborne, mobile, photogrammetric) with TerraScan: <ul style="list-style-type: none"> - importing trajectory information - project creation and point cloud import - visualization and evaluation of the point cloud - point cloud classification approaches including batch processing, manual tools, grouping as new processing approach in TScan* - ground extraction, export of ground models
Tuesday, 14.11. (no or little experience required)	Basic Training for TerraPhoto Basic concepts of processing aerial imagery with TerraPhoto: <ul style="list-style-type: none"> - importing camera calibration and image positioning information into TPhoto - tie points for camera calibration refinement and improvement of image positioning - production of an orthophoto mosaic
Wednesday, 15.11. (some experience required, e.g. by attending the basic training on Mon/Tue)	City Models (TerraScan and TerraPhoto) Workflow of creating and visualizing textured city models based on ALS point clouds and images: <ul style="list-style-type: none"> - automatic building classification and vectorization - introduction of manual tools for improving building vector models - import of image data from a five-camera system (vertical + 4 oblique cameras) - creation of wall textures from oblique images - mapping of trees in public spaces (e.g. along roads)*
Thursday, 16.11. (some experience required, e.g. by attending the basic training on Mon/Tue)	Powerline Data Processing (TerraScan) Processing ALS point clouds for powerline maintenance and mapping: <ul style="list-style-type: none"> - classification of point clouds along powerline corridors - automatic vectorization of wires, half-automatic/manual tools for improving the wire vectors - danger object detection along powerlines - reporting options for danger objects* - creation of a colored point cloud and visualization approaches - mapping of tower locations*
Friday, 17.11. (for any experience level)	Demos: Processing Data of Mobile Mapping Systems (MMS) with TerraScan, TerraMatch, TerraPhoto <ul style="list-style-type: none"> - processing MMS data of roads and highways (drive path matching, road surface extraction and analysis, pole vectorization*) - processing MMS data of urban areas (matching MLS to ALS point clouds*, visualization of the combined point cloud)

Terrasolid reserves the right to change the training content without prior notice.

The training on **Monday to Thursday** is planned as hand-on training. Workflow steps are done step-by-step and only occasionally, prepared files will be used. Participants may decide if they want to do the training steps on their own laptops or just follow the training without doing the steps themselves.

On **Friday**, the capabilities of Terrasolid software for processing mobile point clouds and the outline of processing workflows are illustrated in demos. Major workflow steps are shown in the software but prepared files will be used and automatic processes will be skipped in order to save time.

In the training, we will use MicroStation or PowerDraft CONNECT Edition and 64-bit versions of Terrasolid software. New features in the software will be shown whenever applicable. Major new features in the software are marked with a * in the training outline above.