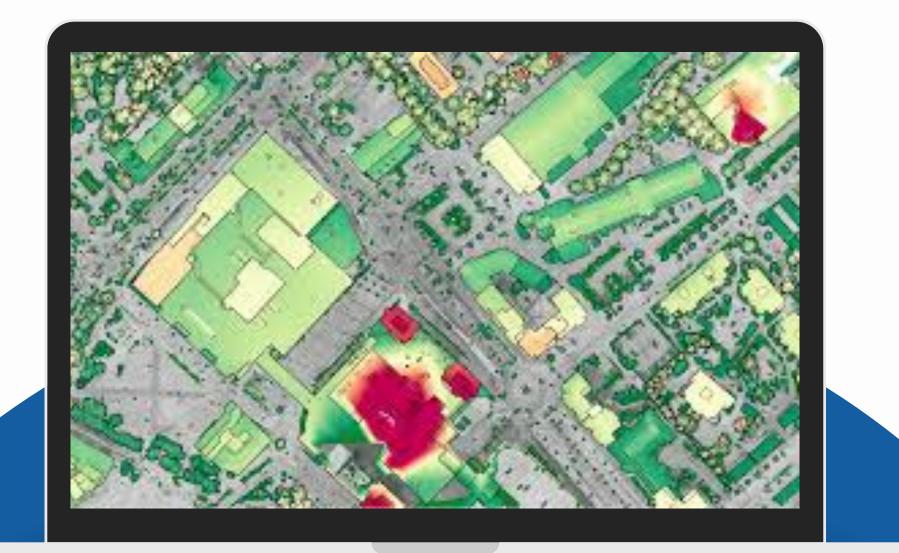**Terra solid**

TERRASOLID INTERNATIONAL TRAINING EVENT

TORINO (ITALY) | 22 – 24 ottobre 2024

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Professional training

Terra solid

Specific topics:

- **Tree Trunk Volume Measurement**
- **Powerline Processing**
- **Railroad Data Processing**
- **Easy Stockpile Volume Computation**

Take part <u>with us</u> in the international training on Terrasolid software.

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01 Participate in high-level hands-on training for basic and advanced users.

02 Stay up to date with the newest development and features of Terrasolid software.

03 Get in touch with Terrasolid software developers, support and sales & marketing personnel, and discuss about your ideas, practical experiences, suggestions, issues, etc..

04 Meet other Terrasolid users and exchange knowledge.

05 The training fee is **200**€ / day / attendee (0% VAT) until 22.9.2024

		TRACK 1 - ALS	TRACK 2 – UAV	TRACK 3 - MLS
DAY 1 (22.10)	morning 9:00 – 12:30	**Opening and New Features Presentation** Software Setup available after opening		
	afternoon 13:30 – 16:30	Speedup using TerraDispatcher and TerraBatch	HESAI Data Processing with Wizard	Project Setup
DAY 2 (23.10)	morning 9:00 – 12:30	Feature Extraction	Railroad Data Processing	Data Accuracy Check
	afternoon 13:30 – 16:30	Texturing Building Vector Models and 3DCityDB	Flythru Video Creation	Powerline Processing
DAY 3 (24.10)	morning 9:00 – 12:30	Integrating LiDAR and Photogrammetric Point Clouds	Easy Stockpile Volume Computation	Tree Trunk Volume Measurement
	afternoon 13:30 – 16:00	Partner presentations		

		TRACK 1	TRACK 2	TRACK 3
DAY 1	morning 9:00 – 12:30	**Opening and new features** Software Setup available after opening		
	afternoon 13:30 – 16:30	**Speedup using TerraDispatcher and TerraBatch** Utilizing multiple running instances to speed up batch processing steps using TerraDispatcher and TerraBatch. Use of TerraBatch to process selected files, import data into a project and to process project blocks. Session will be run using airborne LIDAR data.	**HESAI Data Processing with Wizard**	**Project Setup**
		Instructor: Arttu	Instructor: Ana	Instructor: Antti

		TRACK 1	TRACK 2	TRACK 3
DAY 2	morning 9:00 – 12:30	**Feature Extraction**	**Railroad Data Processing** Processing steps for railroad UAV LIDAR data. Training session steps: - Import of data, cutting overlap, classifying ground and classifying low/medium/high vegetation using Wizard. - Classification and vectorization of overhead wires. - Classification of tower hits. - Vectorization of railroad rails. - Vectorization of slope edges along railroad. - Grouping and classification of above ground features. - Reporting danger trees which could fall on the track. - Finding vegetation to be cleared close to the railroad tracks.	**Data Accuracy Check**
		Instructor: Eerika	Instructor: Arttu	Instructor: Justina
	afternoon 13:30 – 16:30	**Texturing Building Vector Models and 3DCityDB**	**Flythru Video Creation** Creation of flythru video visualizing high density point cloud using TerraPhoto's 'Create Flythru Video' tool. Training session steps: - Creation of viewer 3D trajectory. - Creation of sight direction vectors. - Control of viewer traveling speed. - Rendering video frames. - Creation of final video from frames.	**Powerline Processing**
		Instructor: Eerika	Instructor: Arttu	Instructor: Justina
	Evening	Social Dinner		

		TRACK 1	TRACK 2	TRACK 3
DAY 3	morning 9:00 – 12:30	**Integrating LiDAR and Photogrammetric Point Clouds**	**Easy Stockpile Volume Computation**	**Tree Trunk Volume Measurement** Processing workflow for high density forest point cloud using handheld scanner data. Classification of trees hits and invidual tree grouping. Measurement of tree trunk diameters at different heights and reporting tree trunk volume.
		Instructor: Helen	Instructor: Antti	Instructor: Arttu
	afternoon 13:30 – 16:00	**Partner presentations**		

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