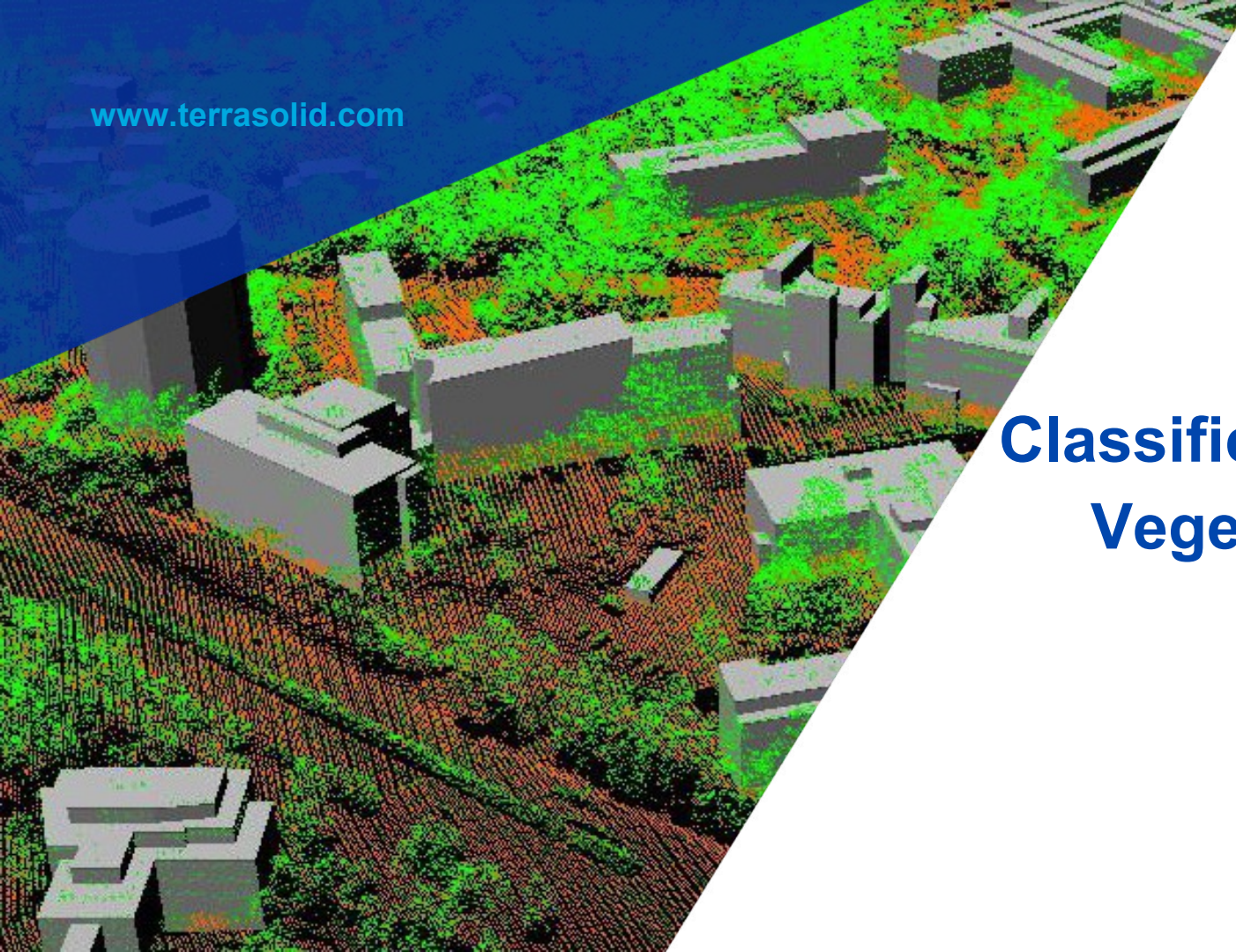


[www.terrasolid.com](http://www.terrasolid.com)



# Classification using Vegetation Index

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## Classification using Vegetation Index



- Vegetation index gives a good capability to separate vegetation and non-vegetation from each other

# Vegetation Index

- TerraScan supports two types of vegetation index:

- Normalized Difference Vegetation Index = 
$$\frac{NIR - R}{NIR + R}$$

- Visual Band Difference Vegetation Index = 
$$\frac{2 * G - R - B}{2 * G + R + B}$$

- Both indexes give values between -1.0 and +1.0
- NDVI requires near infrared color information but gives very good separation between green vegetation and other objects
- Visual Band Difference works with normal visible RGB channels

# Vegetation Index

- Display mode supports **Vegetation index** coloring



- **Classify / By vegetation index** classifies points by vegetation index

**Classify by vegetation index**

From class: Classes 4-5 >>

To class: 21 - Vegetation

Inside fence only

Index type: Normalized difference

Min value: 0.0000

Max value: 1.0000

Copy dominant result from neighbours

Limit: 85 %

OK Cancel