



## Workshop:



### Use of algorithms on big DEM's

April 4<sup>th</sup> and 5<sup>th</sup> 2018, Tønsberg, Norway

## Program

<b>Title</b>	<b>Use of algorithms on big DEM's</b>
<b>Objective</b>	Share experiences and knowledge gained when using different algorithms on height data. Identify common challenges, identify fields of possible cooperation and research
<b>Venue</b>	Premises of the County Governor of Vestfold, Statens park Bygg I, Anton Jenssens gate 4, 3125 Tønsberg
<b>Dates</b>	April 4 <sup>th</sup> and 5 <sup>th</sup> 2018
<b>Day 1 (April 4<sup>th</sup>)</b>	
<b>12:00</b>	Lunch and registration
<b>13:00</b>	Welcome address, objectives and an introduction to EuroSDR Jon Arne Trollvik, Norwegian Mapping Authority (NMA) (No)
<b>Session 1: Key notes</b>	
<b>13:15</b>	<i><b>iQmulus - A High-volume Fusion and Analysis Platform for Geospatial Point Clouds.</b></i> Tor Dokken, SINTEF (No)
<b>14:00</b>	<i><b>Introduction to Point Cloud Processing</b></i> Xinlian Liang, FGI (Fi)
<b>14:45</b>	Coffee break
<b>Session 2: New sensors</b>	
<b>15:05</b>	<i><b>LiDAR data capture with sensor SPL100 in the Region of Navarra</b></i> Victor Garcia, Tracasa (Sp)
<b>15:35</b>	<i><b>New possibilities with multispectral and hyperspectral point clouds</b></i> Dagrun Aarsten, Terratec AS (No)
<b>Session 3: Water detection</b>	
<b>16:05</b>	<i><b>Detection of Waterbodies from Dense Point Clouds</b></i> Christian Malmquist and Jon Moe, NMA (No)
<b>16:35</b>	<i><b>Automatic river network extraction from LiDAR data</b></i> Jesus Maria Garrido Saenz de Tejada, IGN (Sp)
<b>Session 4: Break out</b>	
<b>17:05</b>	<i>Introduction to break out / Coffee break</i>
<b>17:15</b>	<i><b>Break out discussion</b></i>
<b>18:00</b>	Closure of meeting day 1
<b>20:00</b>	Get-together dinner at Restaurant Kverneriet, Rambergveien 15, 3115 Tønsberg (at the harbor)

<b>Day 2 (April 5<sup>th</sup>)</b>	
<b>09:00</b>	Introduction day 2
<b>09:05</b>	Wrap up of discussions day 1
<b>Session 5: Bathy LiDAR</b>	
<b>9:20</b>	<i>Large scale Bathymetric LiDAR for shallow water,</i> Jon Moe and Boele Kuipers, NMA (No)
<b>Session 6: Feature extraction</b>	
<b>09:50</b>	<i>Feature extraction potential in the Norwegian national detailed elevation model</i> Arkadiusz Szadkowski Terratec AS (No)
<b>10:20</b>	Coffee break
<b>10:35</b>	<i>Detection of power lines and obstacles for aviation using national LiDAR data</i> Jesus Maria Garrido Saenz de Tejada, IGN (Sp)
<b>Session 7: Break out</b>	
<b>11:05</b>	<i>Introduction to break out</i> (Topics to be decided end of day 1)
<b>11.10</b>	<i>Break out discussion</i>
<b>11:45</b>	Wrap up discussions from break out
<b>Session 8: Closing session</b>	
<b>12:00</b>	Recommendations for further work
<b>12:10</b>	Closure of meeting
<b>12:15</b>	Lunch