

Section 2

Video: Imagery analysis in ArcGIS Pro

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Time	Caption
0:00	♪ [music] ♪
0:08	Hi, I'm Vinay Viswambharan,
0:10	and I'm a principal product manager on the Imagery team.
0:13	Imagery and raster analysis is all about extraction of information
0:17	from imagery to derive actionable insights.
0:20	ArcGIS has a robust set of image- analysis tools and capabilities.
0:25	From deep learning to multidimensional analysis to terrain analysis and tools
0:30	to perform advanced analytics on different types of data,
0:34	and you can do all of this from within ArcGIS.
0:38	These tools and these capabilities are available from within desktop,
0:42	Enterprise, and online deployments.
0:45	We will be going through each one of these
0:48	deployments over the next few weeks.
0:50	However, this week, we'll talk about our
0:53	flagship desktop product, ArcGIS Pro.
0:56	We will first introduce you to raster functions. And raster functions,
1:01	they're a foundational technology that our image-processing
1:04	and raster-analytics capabilities are built on top of.
1:08	Now, simply put, raster functions are image-processing algorithms.
1:13	They can be used as is, or they can be chained together
1:16	to create focused information products.
1:19	Performing change detection, identifying burn scars, these are
1:23	just some of the different products that can be created.

1:26 There are other key capabilities, one of which being change detection.

1:30 Change detection is critical to imagery and raster GIS workflows.

1:35 Imagery is collected from many sensors.

1:38 Most of that data collected is being used

1:41 for monitoring environmental changes,

1:43 land use, land-cover change detection, and similar workflows.

1:47 ArcGIS Pro provides tools to achieve these workflows, as well as tools

1:53 to perform image-to-image and time-series change detection.

1:57 Now, we have only touched on a fraction of the analysis

2:01 that can be conducted in ArcGIS Pro.

2:04 We will explore many different tools and capabilities in the coming weeks.