Section 1

Video: Using imagery in GIS



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veryone.
ay we're going to talk about the use of imagery in GIS.
integration of imagery has been an important part of the ArcGIS system
ears now, and there are many reasons for that.
gery and remotely sensed data are
tical part of a complete GIS system.
gery can assist in making important business decisions because you have
ccurate and up-to-date idea of what's happening on the ground.
g imagery in your GIS system can keep boots off the ground
allow organizations to monitor assets remotely.
gery can tell a story to anyone, even someone without GIS knowledge,
ugh lifelike visuals that represent what the real world looks like.
ne, aerial, satellite, elevation,
other types of remotely sensed data can all be used
sist your organization with making better decisions.
now can imagery and remotely sensed data
ombined with traditional GIS workflows?
way is through the use of basemaps.
emaps, typically already georeferenced, orthorectified,
mosaicked to allow for accurate measurements
optimized to be streamed quickly over the web.
act as a visually appealing backdrop

1:11	and can add clear context and real-world visuals
1:14	to any map or vector dataset.
1:16	Another way of using imagery and remotely sensed data in GIS
1:19	is by running analysis on that data in the ArcGIS system.
1:23	You can identify and monitor changes, such as disturbed earth, construction,
1:27	new structures and roads, and removed features.
1:31	Apply deep learning and AI to imagery to automatically detect
1:34	roads, buildings, cars, land cover, human settlements, and more.
1:39	Or if you have imagery of your assets and infrastructure,
1:42	apply image processing and analysis to evaluate
1:45	the conditions of those assets.
1:47	You can also use imagery and remotely sensed data to examine
1:49	and extract information about vegetation coverage.
1:52	Use imagery and remotely sensed data to make sure your vector data
1:55	is accurate and up to date within your GIS system.
1:58	And, in the event of an emergency, quickly evaluate on-the-ground
2:02	conditions during hurricanes, tornadoes, earthquakes, fires,
2:06	flooding, explosions, and security events.
2:09	As you can see, using imagery and remotely sensed data is
2:12	an extremely important and beneficial addition to your GIS system.
2:16	It will allow you to be more efficient and make better decisions.