

**NAPCS Product List for NAICS 54137: Surveying and Mapping (except Geophysical) Services**

1	2	3	4	5	6	7	8	9
Industry Subject Area	Working Group Code	Tri-lateral Detail	National Product Detail			United States		NAICS Industries Producing the Product
			Can	Mex	US	Title	Definition	
54137	1					Geospatial photo and image acquisition services	Collecting information about the earth's surface from aircraft and spaceborne platforms.	541370
54137	1.1	X				Airborne geospatial photo and image acquisition services	Collecting information about the earth's surface from aircraft in which aerial cameras, radar, infra-red detectors, GPS receivers and/or other equipment aboard the aircraft are the primary means of data collection. Products may be processed and geospatially referenced.  Excludes: • providing aerial photography and filming, including systematic photography.	541370
54137	1.2	X				Spaceborne geospatial image acquisition services	Collecting information about the earth's surface from spaceborne platforms. Products may be geospatially referenced.	541370
54137	2					Geospatial photo and image processing services	Processing photos and images acquired from aircraft or spaceborne platforms.	541370
54137	2.1	X				Orthophoto and image processing	Processing aerial photographs or satellite imagery to remove distortions due to tilt, terrain relief, and perspective to produce an orthorectified photo or image.	541370
54137	2.2	X				Elevation and terrain modeling services	Producing models that describe the elevation of the earth's surface over a defined area. The models may take the form of a data array, a randomly distributed set of points, or an image produced using the digital elevation data. The elevations may have been corrected for the height of trees, vegetation, and building. The result is either a Digital Elevation Model (DEM) or a Digital Terrain Model (DTM).	541370
54137	2.3	X				Aerotriangulation services	Determining horizontal and/or vertical coordinates of points on the ground from precise measurements on a photograph or image in order to create a control network sufficiently dense to provide a positionally accurate framework.	541370
54137	2.4	X				Geospatial photo and image processing services, nec.	Providing geospatial photo and image processing services, not elsewhere classified.  Includes: • photomosaics, photogrammetric mosaics, and photogrammetric restitution services, etc.	541370

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54137	2.4.1			X		Photomosaics services	Forming a photographic image of an area of the earth's surface by combining individual photographs obtained directly from the negative. This process is intended to lead to less distortion of scale by making adjustments and cuts to the original photographs.  Excludes: • rectified photographs.	541370
54137	2.4.2			X		Photogrammetric mosaics services	Forming a continuous photographic representation of part of the earth's surface by combining rectified aerial photographs so that the borders coincide.	541370
54137	2.4.3			X		Photogrammetric restitution services	Converting information obtained from aerial photographs or satellite imagery into conventional symbols.	541370
54137	3	X				Geospatial data interpretation services	Analyzing a photograph or other imagery of a portion of the earth's surface in order to identify or describe the objects, natural or man-made features, and characteristics of the earth's surface that appear on the image.	541370
54137	4					Integrated surveying and mapping services	Collecting data and information about real property and/or the earth's surface, and subsequently portraying this information in report, map or plat format.	541370 541320 541330
54137	4.1	X				Topographic and planimetric surveying and mapping services	Surveying for the purpose of determining the shape (relief) of the surface of the land and/or the location of natural and manmade features on the surface, and preparing or revising a map that indicates the elevation of the surface (relative to a datum) and slope.	541370
54137	4.2	X				Hydrographic and bathymetric surveying and mapping services	Surveying for the purpose of determining the geometric and dynamic characteristics of bodies of water, including the depth, temperature, or salinity of water; configuration of the bottom; velocity of currents; heights and times of tides and water stages; and the location of fixed objects used in navigation, and preparing or revising maps showing this information.	541370
54137	4.3	X				Property line surveying and mapping services, including subdivision layout and design	Surveying to delimit surfaces and determine boundaries of the land.	541370 541330

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54137	4.3.1		X		X	Boundary, property line, and cadastral surveying and mapping services	Surveying for the purpose of establishing or re-establishing a boundary or property line on the ground, and/or preparing a map or plan showing a boundary or property line(s).  Includes: • surveying for legal and/or cadastral purposes.	541370
54137	4.3.2		X		X	Subdivision layout and design services	Dividing a piece of land into smaller pieces such as lots, streets, and rights of way; marking or monumenting all necessary corners or dividing lines; and/or preparing maps or plats for record that show all information regarding adjoining land affecting the boundaries and (optionally) the layout of roadways and storm water/sanitary systems.	541370 541320 541330
54137	4.4	X				Construction surveying services	Surveying prior to and during construction to control elevation, horizontal location and dimensions, and configuration; to determine if the construction was adequately completed; and to obtain dimensions essential for calculating quantities used in paying for construction.	541370 541330
54137	4.5	X				Geodetic surveying and ground control support services	Surveying for the purpose of determining the precise horizontal and/or vertical position of points or monumented locations in order to provide a reference framework for further surveys.  Includes: • ground control support services.	541370
54137	4.5.1			X		Geodetic surveying services	Surveying for the purpose of determining the precise horizontal and/or vertical position of points or monumented locations in order to provide a reference framework for further surveys.	541370
54137	4.5.2			X		Ground control support services	Obtaining coordinates in the field of identifiable points on the terrestrial surface by means of the global positioning system (GPS) or equivalent methods.	541370
54137	5					Thematic mapping, orthophoto mapping, and charting services	Preparing and revising thematic maps, orthophoto maps, and charts.	541370
54137	5.1	X				Thematic mapping services	Preparing and revising specialized map and data products that are designed to portray specific data themes (natural resource, demographic, economic, biological, etc.).	541370
54137	5.2	X				Orthophoto mapping services	Preparing and revising orthophoto maps.	541370

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54137	5.3	X				Nautical charting services	Preparing and revising charts designed primarily for use in nautical navigation. Features usually shown are bathymetric contours, navigational hazards, aids to navigation, port facilities, water depths, and type of shoreline.	541370
54137	5.4	X				Aeronautical charting services	Preparing and revising charts designed primarily for use in aeronautical navigation. The aeronautical chart provides important information about flight paths, airport approaches and facilities, and landmark features.	541370
54137	6	X				Custom geographic information system software design and development services	Designing the structure and/or writing the computer code necessary to create and/or implement software for a geospatially-referenced information system.  Subset of product 1.2.1 on 5112 et al list.	541370 5415
54137	7	X				Geospatial consulting services	Providing advice and guidance on geospatial activities, such as surveying and mapping projects.  Excludes: • consulting services bundled with a particular surveying and mapping project are included in products under 1 - 6, depending on the project.	541370
54137	7.1		X		X	Project definition services related to surveying and mapping	Providing a report that defines the problem, studying available geospatial technologies, and recommending the most appropriate technology and methods in order to resolve the problem.  Excludes: • consulting services bundled with a particular surveying and mapping project service are included in products under 1 - 6, depending on the project.	541370
54137	7.2	X				Expert witness services, surveying and mapping	Providing testimony as a witness who, by virtue of experience, training, skill or knowledge of surveying and mapping, is recognized as being qualified to render an informed opinion on matters relating to that field.	541370
54137	7.9		X		X	Geospatial consulting services, nec.	Providing geospatial consulting services, not elsewhere classified.	541370

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54137	8	X				Training services, surveying and mapping	Providing training in surveying and mapping methods and technology; the use of specialized hardware and software; and the interpretation of surveying and mapping results.  Subset of product 1.2.10 on 61 list.	541370
54137	9	X				Geospatial data conversion services	Converting geospatially-referenced data from one medium to another, typically scanning or digitizing of hardcopy products to digital format, or the conversion of digital data from one format to another, for example, from raster to vector or from one cartographic system to another.  Subset of product 1.6.2 on 5112 et al list.	541370 5415
54137	9.1			X		Geospatial data digitizing services	Converting geospatially-referenced data from one medium to another, typically scanning or digitizing of hardcopy products to digital format.	541370 5415
54137	9.2			X		Other geospatial data conversion services	Providing other geospatial data conversion services, not elsewhere classified.  Includes: • converting geospatially-referenced data from one format to another, such as from raster to vector or from one cartographic system to another.	541370 5415
54137	10	X				Satellite images	Satellite images published on own-account for sale.  Excludes: • retailing of satellite images purchased on own-account for resale or sold on a fee or commission basis for others is in product 13, Other services.  Subset of product 1.2.9 on 51119 list.	541370

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54137	11	X				Geospatial publications, except satellite images	<p>Geospatial publications, except satellite images, produced on own-account for sale.</p> <p>Includes:</p> <ul style="list-style-type: none"> <li>scanned map products, electronic atlases, and related products; aerial photographs (such as contacts, slides, and enlargements); and specialized software, etc.</li> <li>publications in print, online, or on electronic and other media.</li> </ul> <p>Excludes:</p> <ul style="list-style-type: none"> <li>geographic information systems software published on own-account is in product 12, Published geographic information systems (GIS) software.</li> <li>retailing of geospatial publications purchased on own-account for resale or sold on a fee or commission basis for others is in product 13, Other services.</li> </ul> <p>Subset of product 1.2.9 on 51119 list.</p>	541370
54137	11.1			X		Aerial photographic records	<p>Aerial photographs published on own-account for sale.</p> <p>Includes:</p> <ul style="list-style-type: none"> <li>contacts, slides, and enlargements, etc.</li> <li>publications in print, online, or on electronic and other media.</li> </ul> <p>Excludes:</p> <ul style="list-style-type: none"> <li>retailing of geospatial publications purchased on own-account for resale or sold on a fee or commission basis for others is in product 13, Other services.</li> </ul> <p>Subset of product 1 on 51119 list.</p>	541370 511199
54137	11.2			X		Maps	<p>Maps published on own-account for sale.</p> <p>Includes:</p> <ul style="list-style-type: none"> <li>publications in print, online, or on electronic and other media.</li> </ul> <p>Excludes:</p> <ul style="list-style-type: none"> <li>retailing of geospatial publications purchased on own-account for resale or sold on a fee or commission basis for others is in product 13, Other services.</li> </ul> <p>Subset of product 1 on 51119 list.</p>	541370 511119

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54137	12			X	X	Published geographic information systems (GIS) software	Software published on own-account that is designed for use in geographic information systems (GIS) applications.  Subset of product 1.9.2 on 5112 et al list.	541370 511210
54137	13	X				Other products	Other products provided by establishments classified in NAICS 54137.  Includes: • services such as lamination services, equipment rental, laboratory work for aerial photography, and reselling of products produced by others..	541370