

Проект по Визуализация на Геоданни

Задание: Да се изработи видео-клип на тема Картографска визуализация на геоданни.

Проектът трябва да осведомява непрофесионалисти как да четат, да анализират, да съставят картографски материал, визуализират геоданни или картографска информация.

Екипи: Един видео-клип се изработва от 2-ма човека, като се изписват имената на членовете на екипа и тяхната роля: автор, режисьор, оператор и т.н. Добавя се и информация "Видео-клипът е изработен като курсов проект към Лаборатория по картография, УАСГ, София."

Изработване: Видеоето може да бъде заснето с непрофесионален фотоапарат с налична видео-камера. Може да бъде използван различен софтуер за рязане и събиране на кадри, поставяне на субтитри. В Интернет пространството съществуват достатъчно неплатени версии на изискания софтуер, напр: Windows Movie Maker.

Публикуване: След одобрение в лабораторията по картография, УАСГ, видеоето може да бъде публикувано в Интернет пространството за свободен достъп и използване

Език на изработване: Видеоето може да бъде изработено на български или английски език.

Примери за видео-клипове:

<http://www.youtube.com/watch?v=j5WmvTxQF5w>

<http://www.youtube.com/watch?v=swKBi6hHHMA>

<https://www.esri.com/videos/watch?videoid=IXYFhgntmjg&title=see-the-world-with-esri-location-technology-see-what-others-cant>

<http://www.gadling.com/2012/11/14/video-vintage-cartography-film-caught-mapping/>

Тук

https://www.youtube.com/channel/UCi0PGdqs_5GpFOu3RU8j-EA
може да видите проектите, разработени от ваши бивши колеги.

Всеки може да избере тема, включваща картографска/геодезическа информация.
Литературата по-долу, може да бъде полезна.

Софтуер: Имате възможността да изберете сами софтуер, който ще позволи да изработите проекта си. Например:

Filmora Video Editor

https://www.iskysoft.us/lp/filmora9-video-editor.html?gclid=EAIaIQobChMlr7a-ndz86wIVRebtCh1nRAQ2EAAYASAAEgJvh_D_BwE

Free online video maker with music and pictures

<https://spark.adobe.com/make/video-maker/>

Easy online video maker

<https://animoto.com/apps/online-video-maker>

ICA NEWSLETTERS

Mapping Ourselves

- Mapping Ourselves – leventhalmap.org
- 3D Mapping The Global Population Density – vividmaps.com
- Detailed hand-drawn maps allow Perth residents to see their homes 100 years ago – abc.net.au
- Open StreetMap community maps disaster-prone Munnar – timesofindia.indiatimes.com
- Hermes enhance contact-free deliveries with what3words address mapping – tamebay.com
- The rise of collaborative mapping for the masses – devex.com

Large Map Scale Mapping

- Victorian Land Cover Time Series Released – ces.vic.gov.au
- A New Interactive Map Shows All Four Million Buildings That Existed in New York City from 1939 to 1941 – openculture.com
- Google Adds Colour and Detail to Its Maps – maproomblog.com
- Pioneer study maps regions of Amazon tree flora and may help in future efforts at species conservation – news.mongabay.com

Maps Bringing People Together

- The rise of collaborative mapping for the masses – devex.com
- Ericsson and UNICEF launch global partnership to map school internet connectivity – unicef.org

Cartographic Industry News

- Comprehensive Report on 3D Mapping and Modeling in Mapping Market Set to Witness Huge Growth by 2025 | Apple, Autodesk, Google, SAAB, Autodesk – scientect.com
- Future of Mobile Mapping Market 2020 – scientect.com
- Growth of Simultaneous Localization and Mapping (SLAM) Market Size Report Till 2025 – express-journal.com

Cartography – Technically Speaking

- How Cartographers Generalize Data – esri.com
- Where is the border? – e-flux.com
- Mapped: Visualizing the True Size of Africa – visualcapitalist.com
- Full Frontal Mapping in 3D – gim-international.com

Gatherings & Accolades

- WAML Conference 2020 – waml.org
- The Henry Johns Award for 2020 – youtube.com

- Mapping events – virtual – eventbrite.co.uk
Cartography Opportunities, Sources, Resources & Research
- Décimo “Virtual” Congreso de la Ciencia Cartográfica – [centrodecartografia](http://centrodecartografia.com)
- Top 40 Cartography Blogs & Websites – blog.feedspot.com
- International Journal of Cartography – tandfonline.com
- Newsletter of the Scottish Map Forum – nls.uk
- Five of the best online mapping apps – theguardian.com
Just Maps
- Vesuvius – historytoday.com
- Countries With The Most Venomous Animals – brilliantmaps.com
- Map in a minute: Map a hurricane using ArcGIS Online and ArcGIS Living Atlas – esri.com
Cartography – Discussions
- Most world maps show north at the top. But it doesn’t have to be that way – abc.net.au
- Cartography, rebels, and African history – themedium.ca
- Uncharted Territory – montanakaimin.com
Cartographic Horizons
- Revolutionary Mapping Technology Brings TPC Courses to Life – [golfaustralia](http://golfaustralia.com)
Under Construction
- North Atlantic Seafloor draft map – shadedrelief.com
- Google Confirms Massive Upgrade For Google Maps Users – forbes.com
The Monetary Value of Maps
- Ortelius World Map Offered in the Catawiki Cartography Auction – [finebooksmagazine](http://finebooksmagazine.com)
Imagery
- Wind map – windy.com
- How Satellites Build A Picture Of The Earth To Track Rain, Snow & Storms – britishbusinessenergy.co.uk
- California’s Water Crisis Hits Farmworkers Hardest, Maps Call Attention – esri.com
- From Modelling to Diving with Subastian – schmidtocean.org
- Mapping the Roots of Mangrove Loss – earthobservatory.nasa.gov
- How Google Is Fighting Fire With Real-Time Mapping Data – ecowatch.com
- Flickers of Light Help Map the Space Junkyard – eos.org
Cartotherapy
- The True Size of ... – thetruesize.com
- Flat Earth “Globe” – brilliantmaps.com
- River basins in Italy – [reddit](http://reddit.com)
- Fantasy map-making – theguardian.com

Featured

- Marie Tharp’s Adventures in Mapping the Seafloor, In Her Own Words – columbia.edu

Large Map Scale Mapping

- Another mapping survey starts in archaeologically-rich Marvdasht plain – tehrantimes.com
- A Complete Cartographic Solution Helping Farmers in Argentina – commercialuavnews.com

Maps Historically Speaking

- Hand Map of Glasgow Harbour and Docks – maps.nls.uk
- 1250 map of Britian – historiacartarum.org
- Selenography – reddit.com
- What's old is new again – sl.nsw.gov.au
- Historic Maps in Marble – spiceislandsblog.com
- Medieval maps of Paris – vividmaps.com

Cartographic Industry News

- Global Lake Mapping and Bathymetry Market 2025 – 3wnews.org
- Future Prospects of 3D Mapping and Modeling Market – coleofduty.com
- Electronic Cartography Market Projected – businesswire.com

Cartography that visually attracts

- World Elevation – Joy Plot Map – reddit.com
- Cheonhado – loc.gov
- I make 3D rendered versions of old maps. – reddit.com
- British cartographer strives to create memories for Taiwanese – focustaiwan.tw/society

Atlases

- Stories & Lies: What an Atlas Reveals – directionsmag.com
- An Atlas of the Himalayas by a 19th Century Tibetan Lama: A Journey of Discovery – blogs.bl.uk
- The Atlas of Surveillance – maproomblog.com

Cartography Opportunities, Sources, Resources & Research

- ICHC 2021 in Bucharest – call-for-papers
- Maps, globes, and plans: an ongoing census of free digital archives, #6 – air4edu.com
- Australian university adds 5,000 rare, unique Asia-Pacific maps to online collection – geoawesomeness.com/
- Online Rumsey Maps Reach 100000 – davidrumsey.com
- Diseño y análisis de redes de riego mediante QEPANET en QGIS – nosolosig.com
- Best of the Blogs – spatialsource.com.au

Cartography – Discussions

- Creativity, serendipity enhance CGA's pivot to online classes – wm.edu
- Why the world map froze – axios.com
- Google Maps just got better for cyclists – cyclingtips.com

Cartographic Consequences

- Finding the 'invisible' millions who are not on maps – bbc.com
- Map Action – mapaction.org
- The Centre for Humanitarian Data – centre.humdata.org

- Incredibly rare maps of the defeat of the Spanish Armada at risk of export – gov.uk
- Mapping human-elephant conflict hotspots from compensation records – india.mongabay.com
- Mapping the Powerful Oaxaca Earthquake From Space – scitechdaily.com
- Vancouver Island First Nations, regional district to roll out tsunami mapping project – northislandgazette.com

Thematic Cartography

- Grasslands of America – vividmaps.com
- Oldest Company in almost Every Country – geokatalog.de
- Lessons learned from regional temporal land cover mapping – novumintel.com
- Nearest Neighbour Analysis – tjukanovt.github.io
- New depth map of Arctic Ocean – miragenews.com
- 1978 Heart of the Grand Canyon Map – natgeomaps.com
- Texas Heat-Mapping Project is Largest Ever – publicnewsservice.org

The Significance of Borders

- In a town of two nations, Belgian bars are shuttered. Dutch pubs will soon be open across the street – edition.cnn.com
- SA-Victoria-NSW border dogleg leaves locals in state of confusion – abc.net.au

Cartography Out of This World

- Sloan Digital Sky Survey Collaboration Releases New 3D Map of Universe – sci-news.com
- The Most Exceptional Images of Earth from Space – flipboard.com
- Astronomers Have Mapped Out an Enormous Structure in the Universe Called the South Pole Wall – universetoday.com

Cartotherapy

- Get Out The Map: 6 Book for Cartophiles – outlookindia.com
- Summer Road Trip – drive.google.com
- Paris Exhibition Recreates Pompeii's Final Hours – smithsonianmag.com
- Map jigsaw – jigsawplanet.com

Featured – Nikita Slavin– Cartography M. Sc. Project

- How Old Is This House – how-old-is-this.house
- The Process – how-old-is-this.house/en/process

Cartographers & Explorers

- 6 Women Pioneers of Ocean Exploration – altogether.swe.org
- Putting women on the map: Feminist cartographers are filling in urban design data gaps – scroll.in
- Old map highlights role of women in cartography – kelownadailycourier.ca

- Angles on Bending Lines – leventhalmap.org
- Digital mapping campaign ‘Bangladesh Challenge’ ends – newagebd.net
- Transport for London isn’t mapping its new cycling routes – citymetric.com
- 16 Low-Stress Jobs (includes Cartographer) – wtop.com
- The M.T.A. vs. a D.I.Y. Cartographer – newyorker.com
- The world turned upside down – sl.nsw.gov.au

Cartographic Applications

- Maps show UK pavements not wide enough for social distancing – in pictures – theguardian.com
- Mapping a Slow-Motion Landslide – earthobservatory.nasa.gov
- Mapping Snow on Arctic Sea Ice – earthobservatory.nasa.gov
- Food access map demonstrates importance of community design to improving health – vermontbiz.com
- Drones Map High Plateaus Basin in Moroccan Atlas to Understand Human Evolution – heritagedaily.com
- Creating a virtual reconstruction of Everest Base Camp – nationalgeographic.com

Maps Historically Speaking

- Maps and photography: a brief history, part 2 – blogs.bl.uk
- The history of cartography: shining a light – blogs.bl.uk
- British Library map leads to a Gibraltar archaeological discovery – blogs.bl.uk/magnificentmaps
- Runnymede – a history in maps – blogs.bl.uk

Cartographic Industry News

- Mapillary Team Joins Facebook to Aid Its Open Mapping Efforts – adweek.com
- Global GIS Mapping Software Market Projected to Reach USD XX.XX billion by 2025 – medicinsider.com
- 3D Mapping and 3D Modelling Market – 3wnews.org
- Cloud-Based Mapping Service Market 2020 – medicinsider.com

White Spaces Cartography

- This map shows where on Earth humans aren’t – nationalgeographic.com
- Carte generale de la terre : appliquée a l’astronomie pour l’etude de la géographie terrestre et celeste – loc.gov
- Mapping Earth’s deepest secrets – science.sciencemag.org
- Interactive maps let Kiwis explore New Zealand’s lost continent of Zealandia – newshub.co.nz
- Breathtaking new map of the X-ray Universe – bbc.com

Cartography Unleashed

- Your Maps of Life Under Lockdown – citylab.com
- Expanding geographic awareness during home quarantine – imiamaps.org

Cartography Sources & Resources

- Bell Resources – umedia.lib.umn.edu
- The Air Map of 1943 – why straight flight paths – [youtube.com](https://www.youtube.com)
- Australian university adds 5,000 rare, unique Asia-Pacific maps to online collection – geoawesomeness.com
- Cartography – The Ideal and Its History – press.uchicago.edu
- Blue Earth Bathymetry – shadedrelief.com/blue-earth

Cartography – Discussions

- How the Lines Get Bent – harvardmagazine.com
- Origin of ordinary things: The atlas – newtimes.co.rw
- This ‘train map of the world’ is so inaccurate that people are calling it an ‘abomination’ – indy100.com

Blue Cartography

- World Hydrography Day: Mapping The Oceans – urdupoint.com
- A map of the Arctic created by the U.S. Department of State – [reddit.com](https://www.reddit.com)
- Blue Earth Bathymetry – shadedrelief.com/blue-earth
- Lake Mapping and Bathymetry Market 2020 – medicinsider.com
- Our Unmapped Ocean – earthdate.org

Cartometry and Topology

- The topologist’s map of the world – vividmaps.com
- Cartometry – book – link.springer.com
- Cartometry – lecture – geog.ucsb.edu
- How to Detect the Distortions of Maps – citylab.com

Measurement and Monitoring

- A strange earthquake swarm lasted for years. Scientists finally know why. – nationalgeographic.com
- The Benefits of Visual Intelligence Solutions in Agriculture and Forestry – gim-international.com
- The largest to smallest landmasses in the world mapped – vividmaps.com

Related Technologies and Apps

- Microdrones Enters the Third Dimension with New Mapping and LiDAR Surveying Equipment – uasweekly.com
- The Evolution of Accurate Drone Mapping – suasnews.com
- Revamped Maps app will be expanding to the United Kingdom, Ireland, and Canada – macrumors.com
- Large-scale early Maya sites in Mexico revealed by lidar mapping technology – nature.com

Cartotherapy

- Dust Off Your Bookshelf and Escape with an Atlas – directionsmag.com
- 2020 NAIDOC poster winner and new dates for celebration announced – sbs.com.au
- Over The City – overthecity.asia

Just Maps

- Let Your Mind Wander With These Gloriously Detailed Maps – atlasobscura.com
- 100 Amazing World Maps – farandwide.com
- 50 Cool Maps of Europe for Geography Buffs – farandwide.com
- Fascinating maps that show the world as you've never seen it – telegraph.co.uk
- Maps On The Web – mapsontheweb.zoom-maps.com
- Australia 1942 – collections.lib.uwm.edu
- 8 Stunning Maps That Changed Cartography – www.wired.com
- A new map reveals which parts of the US are most at risk of earthquakes in unprecedented detail — including quakes caused by people – businessinsider.com

Women in Cartography

- Women in American Cartography – rowman.com
- The Women Who Shaped The World – futuremaps.com
- Barbara Washburn: Remembering the Renowned Mountaineer and Cartographer – visiontimes.com
- Children taught to draw and read maps – standardmedia.co.ke
- The Cartographer Who's Transforming Map Design – wired.com
- How 20th-Century Women Put the 'Art' in Cartography – citylab.com

Other Cartographers

- Cartographer Jobs: Are They Still Relevant in the 21st Century? – gisgeography.com
- World-famous Bartholomew cartography empire put Edinburgh on the map – edinburghnews.scotsman.com
- Tim Robinson: a life of three halves – irishtimes.com
- How a Globemaker Navigates a Digital World – atlasobscura.com
- Mapping a Nation: Japan's Most Famous Cartographer, Inō Tadataka – nippon.com
- Notable Cartographers and Their Maps (revisited) – gislounge.com
- Master Cartographer shares his craft – youtube.com
- James Cook and his secret journey of discovery – dw.com

Cartographic Products

- Atlas of Oblique Maps – pubs.usgs.gov
- European globes of the 17–18th centuries – bl.uk
- Maps, globes, and plans: an ongoing census of free digital archives, #1 – air4edu.com
- Maps, globes, and plans: an ongoing census of free digital archives, #2 – air4edu.com
- Maps, globes, and plans: an ongoing census of free digital archives, #3 – air4edu.com

- Maps, globes, and plans: an ongoing census of free digital archives, #4 – air4edu.com
- History of Ayutthaya – ayutthaya-history.com
- A First Time Ever Geological Map of the Moon – communalnews.com
- What maps reveal about our surroundings (and ourselves) – americamagazine.org

Cartographic Inquiry

- When examining maps, understand their strengths and limitations – newsbreak.com
- What are star charts? – space.com
- Understanding Digital Technology and Fourth Industrial Revolution – lankaweb.com
- Big Data and Urbanism: How to Organize Information for Optimal Application – archdaily.com
- 6 Advantages and Disadvantages of Peters Map Projection – Green Garage – newslagoon.com

Cartographic Industry News

- Lonely Planet: The Publisher That Shrank The World Is Now Itself Shrinking – independent.co.uk

Cartography related items

- Mont-Saint-Michel: The historic 3D model comes to life – microsoft.com
- Amid a Pandemic, Geography Returns With a Vengeance – wired.com
- Smart Navigation: From paper charts to augmented reality – yachtingmonthly.com
- 4 Earth Intelligence Launches Satellite Land Use Mapping Service – directionsmag.com
- World Geography Games – world-geography-games.com
- Armchair Travel – The Latest Fad Amidst COVID-19 Crisis – yourstory.com/mystory
- How to Visit Barcelona Without Leaving Home – independent.co.uk
- Leicester Sprint Project uses Artificial Intelligence to Insurance Sector – geospatialworld.net

Podcasts

- “Maps and Messages: Deconstructing Persuasive Cartography” – persuasivemaps.library.cornell.edu
- “Indigenous and European Visualizations of the North West Passage” – youtu.be
- 17 Fascinating World Map Oddities – Map Society of Wisconsin Lecture – youtube.com
- Utah Public Radio. – upr.org
- The British Library also has a map podcast. – bl.uk

Cartographic Reads

- Out of Vietnam, Drawings of Displacement and Repression – hyperallergic.com
- Terra Incognita by Jamie Kirkpatrick – talbotspy.org
- Why old-fashioned paper maps are better than Google Maps – traveller.com.au
- Times, FT and WaPo discover ‘real appetite’ for data-driven visual journalism on coronavirus – pressgazette.co.uk
- How GIS Maps Go Viral – imiamaps.org
- Why we explored two starkly different futures for the Earth in 50 years – nationalgeographic.com

- Mapping the Future: Cartography Stages a Comeback – www.wired.com
- How shipwreck hunter's search for a sunken galleon and lost engraved stone could rewrite Australian history by proving the Spanish landed more than a CENTURY before Captain Cook – dailymail.co.uk
- Excerpt: A Pirate's pilfered atlas – nationalgeographic.com

Cartography Books & Resources

- Mapping the Pāšupata Landscape – books.google.com.au
- Atlas of Remote Islands – goodreads.com
- The Boundless Sea by David Abulafia review – a fascinating voyage of discovery – theguardian.com
- A directory of cartographic inventors – oskicat.berkeley.edu
- Top 40 Cartography Blogs & Websites for Cartographers To Follow in 2020 – blog.feedspot.com

Cartography and Movies

- 10 films where maps play a starring role – 360.here.com
- Maps in Movies Ranked – medium.com
- maps in films – The Cine-Tourist – thecinetourist.net
- 5 Incredibly Detailed Maps That Explore the Plotlines of Great Movies – mentalfloss.com
- This movie about a famous cartographer just hit theaters in South Korea – geoawesomeness.com
- The Englishman Who Went Up a Hill But Came Down a Mountain – imdb.com

Cartography – Quirky

- 'CARTOGRAPHY' is a 11 letter word starting with C and ending with Y – the-crossword-solver.com
- Check out this transfer lettering catalog from 1984! – comicsbeat.com
- How To Do Map Stuff – docs.google.com
- If European Borders Were Drawn By DNA Instead Of Ethnicity – brilliantmaps.com
- Your Maps of Life Under Lockdown – citylab.com
- An Explorer's Cartography of Already Settled Lands – tor.com

Online Map Jigsaw

- Create an Online Jigsaw of Your Own Map – jigsawexplorer.com

Featured Articles

- Old map highlights role of women in cartography – kelownadailycourier.ca
- Remaking the map: Professor receives medal for influence in cartography – news.psu.edu

Mapping – past, present and future

- British Library Puts Rare Historical Globes Online – finebooksmagazine.com

- ‘The perfect combination of art and science’: mourning the end of paper maps – [theguardian.com](https://www.theguardian.com)
- Maps show drastic drop in China’s air pollution – [theverge.com](https://www.theverge.com)
- Paris falls silent: Sound maps show impact of confinement – [apnews.com](https://www.apnews.com)
- ‘Ultimate gift to future generations’: plan to laser all land on Earth – [theguardian.com](https://www.theguardian.com)

Cartographic Applications

- Mapping Martian Dunes from Orbit – eos.org
- Mondelēz meets target to map 100% of its farms registered with Cocoa Life in Ghana, Côte d’Ivoire and Indonesia, new report claims – [confectionerynews.com](https://www.confectionerynews.com)
- Free AI Mapping Tool Helps Healthcare Systems Identify High-Risk COVID-19 Communities – [healthleadersmedia.com](https://www.healthleadersmedia.com)
- Live Earthquake Mapping for Everyone – [esri.com](https://www.esri.com)
- National parks mapping to aid forest recovery from bushfires in NSW – [newcastleherald.com.au](https://www.newcastleherald.com.au)
- This Interactive Map Visualizes the Queer Geography of 20th-Century America – [smithsonianmag.com](https://www.smithsonianmag.com)
- Colombia is using an app to return land to people displaced by war – [qz.com](https://www.qz.com)
- Science voyage to end in Perth after mapping 100,000 km² of seafloor – [miragenews.com](https://www.miragenews.com)
- Dozens of unmarked graves in Kingscote cemetery revealed by radar mapping – [theislanderonline.com.au](https://www.theislanderonline.com.au)
- Edinburgh University researchers use drones to map retreating Andes glaciers – [bbc.com](https://www.bbc.com)
- iOS UgCS for DJI app (beta) – [suasnews.com](https://www.suasnews.com)

Drone Cartography

- Dark, Dirty and Dangerous: This Drone Can Map Pipes and Underground Tunnels from Above – [dronelife.com](https://www.dronelife.com)
- 3D drone mapping and litigation surveys – [sunnewsonline.com](https://www.sunnewsonline.com)
- Canadian firm explores Finnish gold mine via autonomous drones – [roboticsbusinessreview.com](https://www.roboticsbusinessreview.com)
- The Drone Boat of ‘Shipwreck Alley’ – [theverge.com](https://www.theverge.com)
- Edinburgh University researchers use drones to map retreating Andes glaciers – [bbc.com](https://www.bbc.com)
- Top Experts Analysis Report On Global UAV Mapping Software Market With Market Regional Outlook, Analysis, Growth Forecast Analysis by Manufacturers, Type and Application to 2025 – [thefourpointplay.blog](https://www.thefourpointplay.blog)

Stellar Cartographic

- Star formation project maps nearby interstellar clouds – [sciencedaily.com](https://www.sciencedaily.com)
- Astronomers use slime mould to map the universe’s largest structures – [sciencedaily.com](https://www.sciencedaily.com)
- A New Map of the Milky Way – [scientificamerican.com](https://www.scientificamerican.com)

Cartographic Secrets

- For Decades, Cartographers Have Been Hiding Covert Illustrations Inside of Switzerland’s Official Maps – [eyendesign.aiga.org](https://www.eyendesign.aiga.org)
- Smartphone data reveal which Americans are social distancing (and not) – [washingtonpost.com](https://www.washingtonpost.com)

Mapping Indoors

- This is what iPad Pro's LiDAR Scanner sees when it's mapping your home – [imore.com](https://www.imore.com)

Cartographic Industry News

- iOS 13.4 introduces CarPlay Dashboard support for third-party map apps – [appleinsider.com](https://www.appleinsider.com)
- Toyota partners with Daimler-backed Chinese startup Momenta on high-def mapping project – [caradvice.com.au](https://www.caradvice.com.au)
- Connect ONE GeoView Mapping Feature – [securityinfowatch.com](https://www.securityinfowatch.com)
- Global Electronic Cartography System Market 2019 Opportunity Analysis and Industry Forecast 2019-2025 – [bccourier.com](https://www.bccourier.com)
- Furuno Navnet TZTouch3 Displays – [boatingmag.com](https://www.boatingmag.com)
- LiDAR Market Size & Share 2019 Research Analysis and Industry Forecast to 2026 – [globalindustrynews24.com](https://www.globalindustrynews24.com)

Cartographic Tutorials, Resources & Opportunities

- Supervisory Interdisciplinary Cartographer/Geographer, GS-1370/0150-12 (MP-DP) Job in Lakewood, Colorado – Department of the Interior – [lemonwire.com](https://www.lemonwire.com)
- Invest in rare maps and find the path to profit – [thetimes.co.uk](https://www.thetimes.co.uk)
- Mapping in GIS – [youtube.com](https://www.youtube.com)

Cartography as Art

- See the city in a new light – [cyprus-mail.com](https://www.cyprus-mail.com)

Passing the Time – Cartography Quizzes (websites not tested by editor!)

- Seterra Geography – The Ultimate Map Quiz Site – [online.seterra.com](https://www.online.seterra.com)
- Map Quizzes – [jetpunk.com](https://www.jetpunk.com)
- Map Trivia Quizzes and Games – [sporcle.com](https://www.sporcle.com)
- Map Quiz – [3dgeography.co.uk](https://www.3dgeography.co.uk)

Passing the Time – Cartography Videos

- Gall-Peters Projection – [youtube.com](https://www.youtube.com)
- A Brief History of Cartography and Maps – [youtube.com](https://www.youtube.com)
- History of the World – Every Year – [youtube.com](https://www.youtube.com)
- Ten Countries Which No Longer Exist – [youtube.com](https://www.youtube.com)
- The Basics of Cartography – [youtube.com](https://www.youtube.com)
- How Did They Make Those Maps – [youtube.com](https://www.youtube.com)
- Artistic cartography: Creative ways to peel a globe | David Swart | TEDxUW – [youtube.com](https://www.youtube.com)
- Why all world maps are wrong – [youtube.com](https://www.youtube.com)

Tomorrow and beyond

- Using artificial intelligence to enrich digital maps – news.mit.edu
- Collaborative simultaneous localization and mapping technique uses available Wi-Fi networks – techxplore.com
- This map app will navigate you from your office chair to your airport gate and more – techradar.com
- Uber begins autonomous mapping of Washington D.C. – [intelligenttransport](https://intelligenttransport.com)
- CEO Spotlight: Amir Farhand of Soar Talks About His Vision to Build the World’s ‘Living’ Map Using Drones and Satellite Imagery – ceoworld.biz
- Mobile mapping market to exceed \$40bn by 2024 – spatialsource.com.au
- Florida City Opens Mapping Data Hub for Public Use – govtech.com
- App maps water fountains and refill stations across NZ – nzherald.co.nz
- MIT Uses AI to Create Updated Street Maps from Satellite Imagery – extremetech.com
- Priya Natarajan on Black Holes and Mapping the Universe – quantamagazine.org

Cartographic Memories

- Sunsetting Traditional NOAA Paper Charts – nauticalcharts.noaa.gov
- The Best Map History Books of the Decade – mappingasprocess.net
- Cartographic Humanism: The Making of Early Modern Europe, by Katharina N. Piechocki – timeshighereducation.com

Mapping for Humanity

- Intel, Red Cross: Mapping For Disasters With AI – crn.com
- Maps show where coronavirus started and why officials are so worried – washingtonpost.com
- Mapping the Global Flow of Foreign Aid – visualcapitalist.com
- How Aid Groups Map Refugee Camps That Officially Don’t Exist – wired.com
- Budgetary support sought to map unprotected monuments in State – thehindu.com

Cartographic Applications

- Mapping Potholes by Phone – nytimes.com
- Long-term Mapping Key to Effective Management of Irrigated Areas – msutoday.msu.edu
- Map tracks the Wuhan virus in real time – asiatimes.com
- High-tech Map shows Fruit, Macadamia Farms Hit by Bushfires – freshfruitportal.com/news

Indexes and Catalogues

- NOAA Custom Chart Prototype – devgis.charttools.noaa.gov

Cartographic Industry News

- Inpixon’s Indoor Mapping Platform Selected for Patient Wayfinding – geospatialworld.net
- TomTom To Supply Maps, Navigation, Live Services For Fiat Chrysler’s Uconnect 5 – nasdaq.com
- Patent awarded for indoor map generation – spatialsource.com.au

Cartographic Technology – Reflection

- Technology changing how people use maps, how they're created – wtvr.com

Cartography – Opportunities

- Special Issue: Fractal Geometry in Cartography and Geographic Information Science – utpjournals.press
- 6th International Conference on Risk Information Management, Models and Applications – rimma2020.org
- Maps Season – events – bl.uk
- MoU inked for surveying, mapping jobs of Islamabad – thenews.com.pk

Cartographic Dreams

- Building a Company with Maps – infoq.com

Cartographic Resources & Publications

- 100 Days That Mapped The Nation – newhollandpublishers
- Mapping as Process – mappingasprocess.net
- Antarctica Map and Satellite Image – gisgeography.com

Cartography – fringe

- Cartographers: A Roll Player Tale – thunderworksgames.com