Geomatics Education in the World: A Web Map Viewer for Comprehensive Understanding

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SUMMARY

Geomatics plays a fundamental role in addressing global challenges through the integration of geography, geodesy and surveying, Earth Observation, geoinformatics, mapping and land administration. However, the academic landscape of geomatics education varies significantly across regions, reflecting diverse priorities, resources, and societal needs. This presentation introduces a web-based map viewer developed to explore and analyze university-level geomatics programs worldwide. The platform allows users to search and filter programs by geolocation, academic focus, and other criteria, providing a unique tool for understanding the global distribution and trends in geomatics education. Through interactive maps and statistical visualizations, the viewer facilitates the identification of regional clusters of expertise, gaps in educational offerings, and potential areas for collaboration. Additionally, the platform includes aggregated data on program curricula offering valuable insights into how geomatics is being taught and applied in different cultural and economic contexts. The primary objective of this initiative is to foster a comprehensive understanding of the current state of geomatics education worldwide. By providing an accessible and user-friendly tool, the web map viewer aims to support academic institutions, researchers, and policymakers in their efforts to strengthen geomatics education and align it with the evolving demands of the profession. This presentation will demonstrate the key functionalities of the platform and share insights gained from its application, including statistical patterns and notable disparities in the global geomatics education landscape. In doing so, it underscores the importance of leveraging geospatial technologies not only for spatial analysis but also as a means to better understand and enhance the educational frameworks that underpin the field.