Juxtaposing Government and Social Media Data in Delivering Responsive Geospatial Information via an Online Atlas Services: A Case of Criminal Graphics in Jakarta City

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Traditional atlases either in paper format or electronic format rely on government and authoritative data to communicate multi-theme data to a broader audience in forms of maps and graphics. With the new trend in using social media and web data as a quick reference, users tend to refer to social media data which commonly are in pictures, videos and text formats when following new developments of issues in social areas, including on criminalities. The traditional atlas that has functioned as a gateway and as a storyteller to various geospatial and statistical data is now challenged to provide a new means as a geospatial information reference combining government and social media data in responding to fast information developments. This work proposes a framework on the development of an atlas online that provide a systematic means to aggregate and display results of geo-visual analytics on top of an atlas storytelling engine. Infographics and visual summaries are integrated on the atlas as a quick win solution to develop a set of responsive visualization system seen as a visual broadcaster to atlas users. The other way around, the atlas service is designed to be able to push atlas maps into social media, creating a twitter atlas of Indonesia. As a proof of concept, the online atlas service combines criminal data from Police and Statistics Office with results of geo-visual analytics of criminal data in 2017 of Jakarta City to create diagrams and maps presenting trend and pattern of criminalities. Visual clarification and detail analysis can be juxtaposed in forms of maps and graphics using government and social media data as well as field verification.