



The Computerworld Honors Program

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Final Copy of Case Study

Year:

2013

Status:

Laureate

Organization Name:

Savi Technology

Organization URL:

www.savi.com

Project Name:

Economic and Humanitarian Benefits of Cargo Tracking in Ghana

Category:

Economic Development

Please provide an overview of the nominated project. Describe the problem it was intended to solve, the technology or approach used, how it was innovative and any technical or other challenges that had to be overcome for successful implementation and adoption. (In 300 words or less.)

Challenge in Ghana: Ghana is a major road transit corridor to the landlocked countries to its north, including Burkina Faso, Niger and Mali. Goods travelling in transit through Ghana are not subject to import duties and taxes. However, as cross-border trade increased, so did instances of cargo being lost or diverted into the local economy en route, with in-transit cargo losses exceeding 40%. This was depriving Ghana of much needed government revenue and created an imbalance in parts of the economy. The challenge was to design a state-of-the-art, reliable and cost-effective consignment traceability service that prevented cargo being lost or diverted, protected revenues and replaced an expensive and ineffective model relying on hired escort officers. The solution combined asset tracking

software from Savi, active tracking devices for trucks, and real-time, online mapping to show location, travel and consignment status, thereby establishing an electronic tracking system for the Ghana Revenue Authority (GRA). The solution is centered on the Savi Mobile Tracking System. This integrated combination of specialised software and hardware uses self-contained electronic tracking devices fixed to trucks to relay position data acquired by GPS and alerts to a fully equipped Transit Control centre at Customs Head Office. Officials can track cargo in real time and communicate with mobile teams on the ground to intervene quickly and effectively if needed. Information can also be uploaded onto the customs portal or website so that hauliers and owners can keep informed of the progress of their cargo.

When was this project implemented or last updated? (Please specify month and year.) Has it incorporated new technologies and/or other innovations since its initial deployment? (In 300 words or less.)

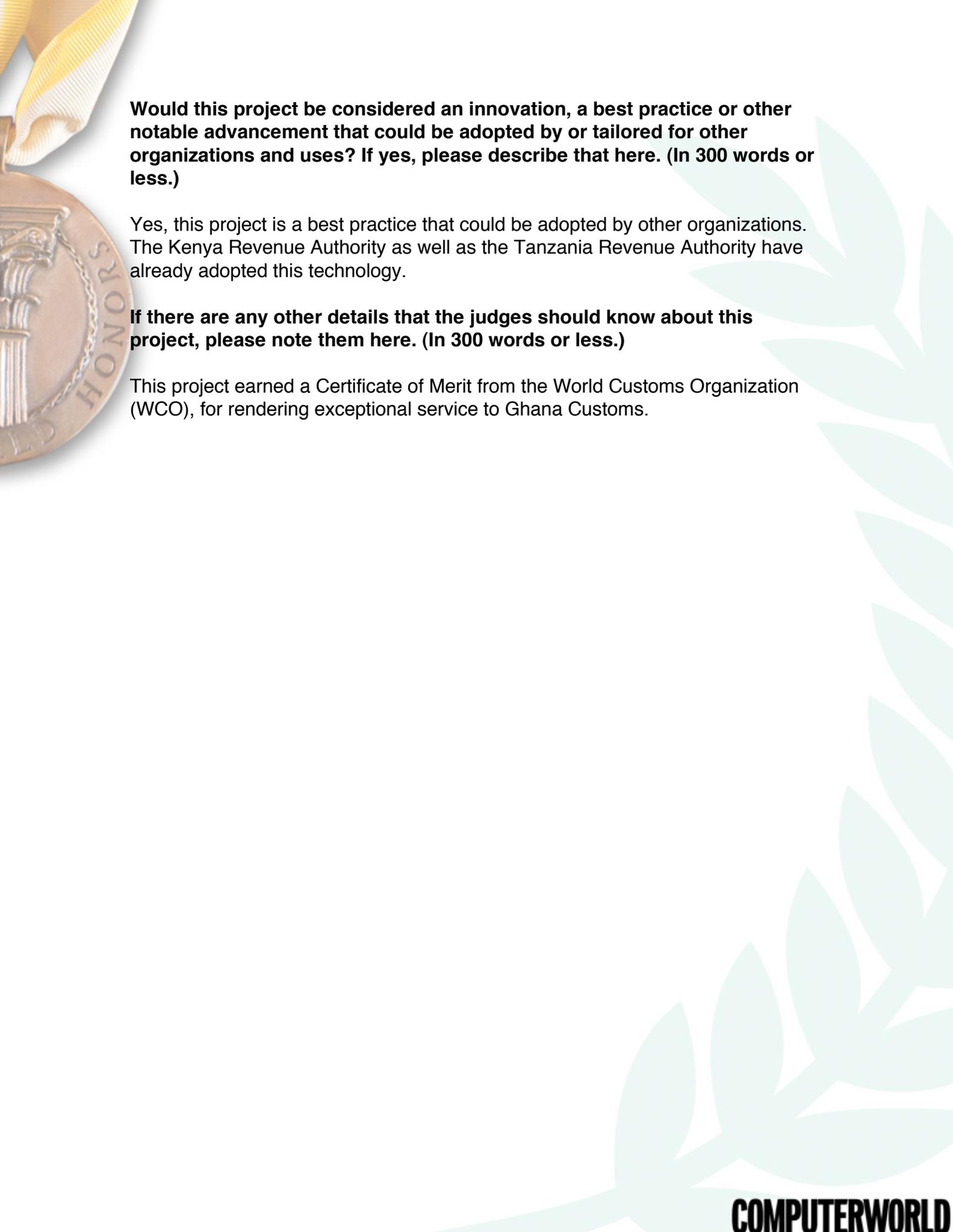
The Economic and Humanitarian Benefits of Cargo Tracking in Ghana Project was established September 22, 2011. An update was made in September 2012 to the SMTS 2.2 version.

Is implementation of the project complete? If no, please describe the project's phases and which phase the project is now in. (In 300 words or less.)

Yes, implementation is complete.

Please provide at least one example of how the technology project has benefited a specific individual or organization. Feel free to include personal quotes from individuals who have directly benefited from the work. (In 300 words or less.)

The system is fully operational through Ghana, covering both the south-north and east-west corridors. The modernization within the Ghana customs system provides real-time journey visibility of 2,500 to 3,200 trucks per month, resulting in reduced losses from left. On average, the Ghana Revenue Authority realized a 60% increase in revenue on a month-to-month base, after only the first year of implementation. Additionally, the system improved the standard import clearance time by a factor of 5 for compliant declarants.

A gold medal with a ribbon is visible in the top left corner. The medal features a classical architectural column and the word "HONORS" around its edge. A light green laurel wreath graphic is positioned on the right side of the page.

Would this project be considered an innovation, a best practice or other notable advancement that could be adopted by or tailored for other organizations and uses? If yes, please describe that here. (In 300 words or less.)

Yes, this project is a best practice that could be adopted by other organizations. The Kenya Revenue Authority as well as the Tanzania Revenue Authority have already adopted this technology.

If there are any other details that the judges should know about this project, please note them here. (In 300 words or less.)

This project earned a Certificate of Merit from the World Customs Organization (WCO), for rendering exceptional service to Ghana Customs.