



2013 Global Road Achievement Awards Book of Winning Projects

International Road FederationBetter roads. Better world.



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Celebrating the 13th Year of the GRAA Program



On behalf of the International Road Federation (IRF) and our international panel of judges, I would like to congratulate the winners of the 2013 IRF Global Road Achievement Awards (GRAAs)! This year's winners represent of some the most forward-thinking and cutting edge organizations around the world. I invite you examine the groundbreaking projects listed in this book and learn from their outstanding accomplishments.

Established in 2000, the IRF GRAA Program plays a significant role in IRF's mission to gather global best practices and promote technology transfer, by seeking out innovative and successful organizations and highlighting their accomplishments to share with the global transportation community. By showcasing new technologies and creative solutions, we are able to learn from each other, and build on our successes.

As we continue fulfilling IRF's mission of encouraging and promoting better, safer and more sustainable roads through the continuous exchange of knowledge and best practices, I would also encourage leading companies and organizations to submit their exemplary projects to the 2014 GRAA Competition.



Eng. Abdullah A. Al-Mogbel IRF Chairman

"Better Roads. Better World."



iiCollector™ Powered by Google® Maps

Resource International, Inc. (Rii)

In 2012 Resource International, Inc. (Rii) announced the release of advanced infrastructure management software, iiCollector™, formed in collaboration with Google Maps. This technology is a new component of Rii′s successful password-protected, project management website, ProjectGrid.com®.

Projectgrid.com's iiCollector was created in response to the global demand for safer roads by design. The web app was created in order to reduce the frequency and severity of roadside accidents caused by colliding with a roadside hazard, including guardrails, barriers, roadway signs and other fixed objects.

Powered by Google Maps, the iiCollector is a flexible, customizable asset management system used to rate all infrastructure assets such as pavements, non-pavements, and bridges using a hand-held device. The system has two components: a field data collection app available on smart-phones and tablets and "an intelligent integration module" which includes the ProjectGrid.com software, management systems and performance standards to create roadside safety rating reports.

Using the iiCollector, field inspectors are able to rate roadway deficiencies in the categories of drainage, guardrails, medians, pavements and traffic. Deficiencies such as potholes, debris on the road and high drop-offs are dangerous for motorists. The iiCollector rewrites the way that infrastructure elements can be captured, diagnosed and reported. iiCollector has the unique intelligent integration of office and field documentation, which is accessible via mobile devices. For the first time ever, field personnel have real-time access to relevant manuals, Department of Transportation specifications and any required design drawings, while performing field condition inspection and assessment. As inspectors are collecting field data, engineers at the office are also receiving real time reports of deficiencies, with color coded urgency ratings and details of the projects without actually being there. ProjectGrid.com provides a centralized database of the results, giving assets a color coded rating based on their condition and geo reference on the map.

Pavement inspectors from Rii are using the iiCollector technology on multiple Design Build projects to assess the roadside safety deficiencies for guardrails, guardrail assembly, signs and roadside obstructions. These projects included Warren-Green US 42, MAH-680 and MRW-71. Each of these projects consisted of approximately eight miles of multi-lane divided roadway that had 170 assets collected in less than eight hours using the iiCollector. The roadside safety index (SPI) report identified the signs and guardrails with a very poor performance index and the vegetation obstruction rated with a very high performance index.

Farah B. Majidzadeh - CEO / Chairperson of the Board

"Resource International, Inc. is delighted to accept our third company-wide GRAA, for the Technology, Equipment and Manufacturing category. As one of the longest standing members of the IRF, I am very excited to be part of this worldwide organization promoting technology and best highway practices, and be recognized among such an elite group of transportation professionals from all around the globe. The recognition of this technology and our award will hopefully promote safer roads by design."

