

## INDUSTRY CONTACT

Jay Parmar  
Director  
HRCarbon

## DURHAM COLLEGE FACULTY MEMBER

Darren Puffer  
Professor  
School of Business, IT & Management

## BACKGROUND

For regulatory and strategic reasons, more organizations are engaging in carbon impact assessments and management than ever before. Recognizing the difficulties faced by organizations in measuring carbon emissions from business travel, employee commuting, transportation of goods and other supply chain causes, HRCarbon envisioned the leveraging of Google Maps to create a web-based 'mash up' tool for calculating and managing the carbon impact of transportation.

### DURHAM COLLEGE STUDENTS AND FACULTY:

- Worked with HRCarbon to collaborate on the requirements, specifications, data analysis on emission factors, architecture and design of the solution.
- Built an end-to-end solution encompassing database including created the middleware and developing the front-end interface.

### OUTCOME

A new web-based tool successfully meets the needs identified by HRCarbon. Users can enter transportation routes and methods with the tool performing real-time carbon impact calculations after automatically retrieving the required data from various disparate online sources. It provides the added functionality of allowing users to provide hypothetical changes to their commute and/or transport activities to calculate potential changes in carbon impact.

## ABOUT THE FEDDEV ONTARIO APPLIED RESEARCH AND COMMERCIALIZATION INITIATIVE

The Federal Economic Development Agency for Southern Ontario (FedDev Ontario) was launched in August 2009 to help respond to Ontario's economic challenges. Through its funding initiatives, FedDev Ontario drives economic and community development, innovation and economic diversification while contributing to the success of communities, businesses, educational institutions and not-for-profit organizations. The Applied Research and Commercialization Initiative is a pilot initiative aimed at addressing the gap between research and commercialization in southern Ontario by encouraging collaboration between small- and medium-sized enterprises and post-secondary institutions.

## FOR MORE INFORMATION, PLEASE CONTACT

Debbie McKee Demczyk  
Director, Office of Research Services and Innovation

905.721.2000 ext. 3669  
debbie.mckeedemczyk@durhamcollege.ca