## Dynamic ride-sharing: A simulation study in metro Atlanta

Last Modified on 20/06/2019 12:43 pm CEST

Authors: Niels A.H. Agatz, Alan L. Erera, Martin W.P. Savelsbergh, and Xing Wang Date published: 22 July 2011 Research commissioned by: Rotterdam School of Management, Georgia Institute of Technology, and the Commonwealth Scientific and Industrial Research Organisation (CSIRO)

## Why did we select this research?

Smartphone technology plays a crucial role in ride-sharing. This research deals with the problem of matching drivers and riders in this dynamic setting.

## Key findings:

- Travel cost savings as the main driver for users to choose this method of transportation.
- Travel time savings to participants by providing access to high occupancy lanes.
- Dynamic ride-sharing may have potential for success in large U.S. metropolitan areas, with sustainable ride-share populations forming over time even with relatively small overall participation rates (when considering only home-based work trips).

## Reference:

Agatz, N. A., Erera, A. L., Savelsbergh, M. W., & Wang, X. (2011). Dynamic ridesharing: A simulation study in metro Atlanta. *Transportation Research Part B: Methodological*, *45*(9), 1450-1464.

https://www.sciencedirect.com/science/article/pii/S0191261511000671.