

# ITS for improved Freight Management in the Charity Sector

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# Background



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# Textile banks

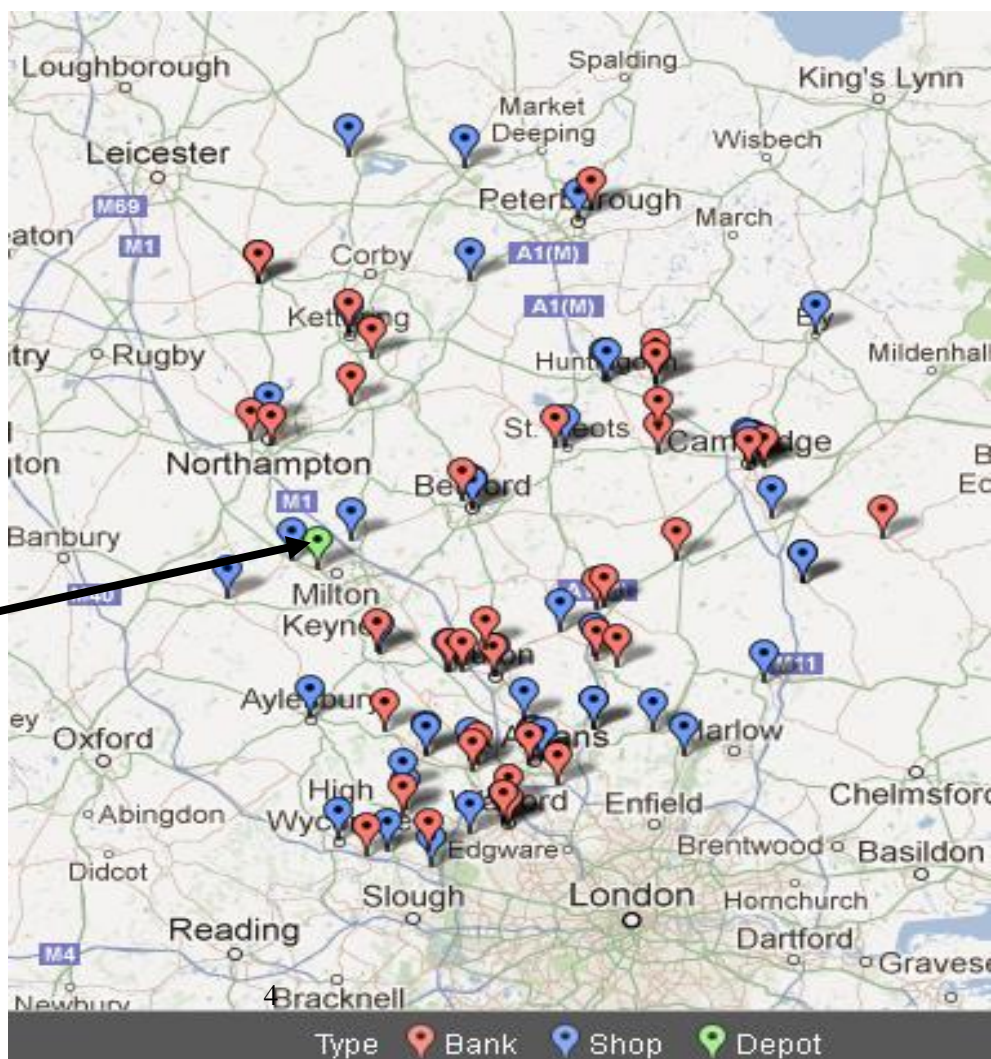
- Oxfam service @ 570 textile banks in England





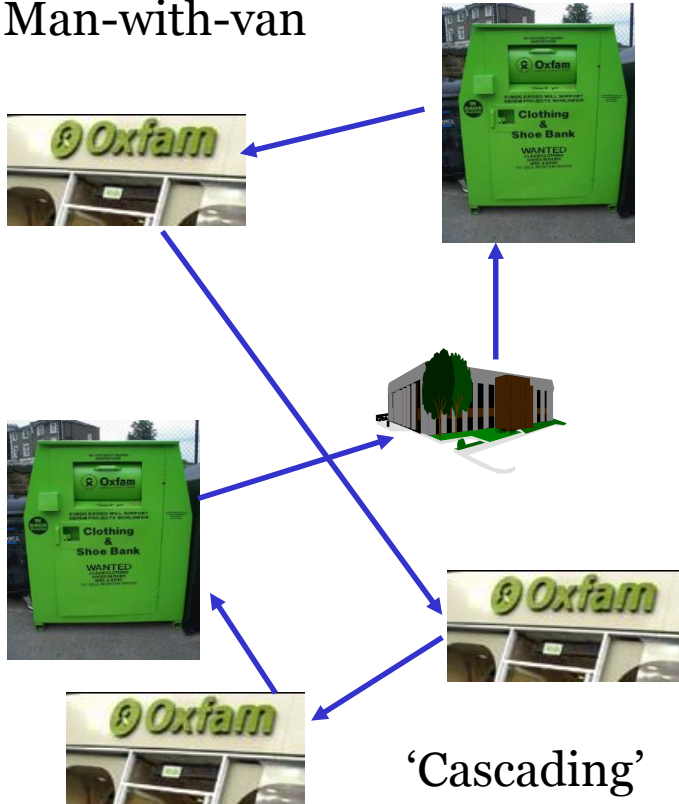
# Case study area

Depot



# Localised Logistics – man-with-van

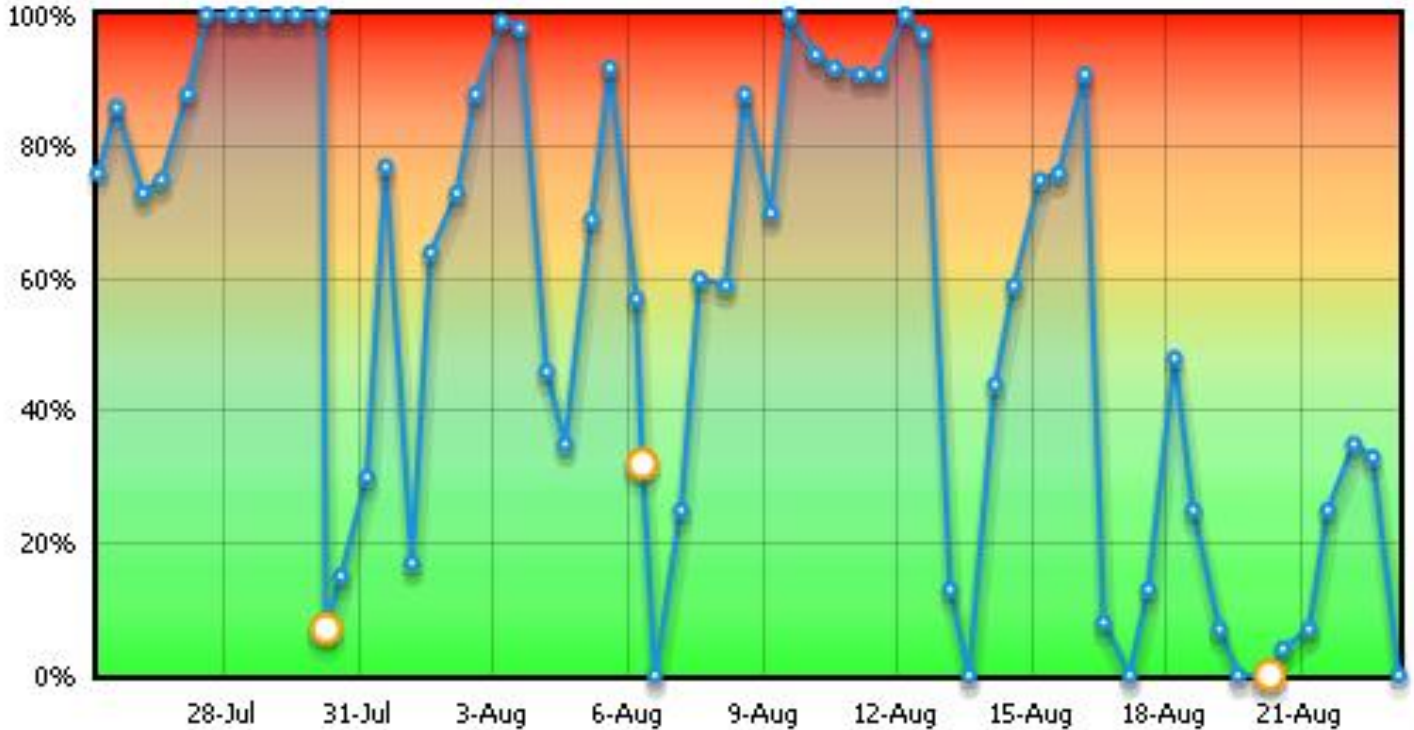
Man-with-van



# Remote monitoring sensors



# Remote monitoring data



# Remote monitoring sensors





# Findings

- Over a period of 36 working days using 5 vehicles servicing 56 bank sites and 68 shops
- 28% reduction in the total number of visits to bank sites, 1159km (464kg CO<sub>2</sub>) saved and a reduction in daily round time of 32 minutes.

# Ruggedized device V BYOD?



# App functionality

- ios for iPhone, iPad
- Server at Uni of Edinburgh
- Smartbin banks report 03:00 and 15:00
- Banks (B), Shops (S), Other sites (O), Driver (D)
- All sites are active info carriers
- Messages appear through push notifications
- Click on sites to view menu
- Weekly reports to area managers



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