

# Cole Engineering exhibit in "Future of TTS" Study



Halcrow Consulting was commissioned to do a study on the future of the Transportation Tomorrow Survey (TTS). The TTS is accepted by bodies such as the Ontario Municipal Board and the Courts as being accurate and reliable (it is the largest behavioural survey of its kind in North America with a 5% sample of the entire GTA). As planning processes become subject to increasing expectations of transparency and validity, the TTS offers public and private sector users a defensible source of travel behaviour facts.

While the data is geo-coded into specific zones, transportation engineers have traditionally relied on tabular origin/destination outputs generated by the IDRS (Internet Data Retrieval Systems) web interface. The approach is limiting in that it does not provide a visual representation of the data, thus it takes a significant amount of time to interpret the origin/destination tables.

Cole Engineering developed a unique web based interface which utilizes Google Maps and special geo-coding algorithms to provide an interactive and visual front-end to the data. The visual representation of the data allows us to quickly assess traveller behaviour within a study area, and even more importantly, allows us to quickly assign traffic to roads using Google's directions to/from routing feature (this was previously done intuitively) by point-and-click.

The author of the Halcrow report believes that this is a unique window into how the TTS data can be made accessible to a broader audience beyond the transportation field, thus providing a further impetus to continuing the TTS survey. It is also worth noting that this new and innovative approach identified in the Halcrow report makes Cole Engineering unique and the only transportation consulting firm referenced in the report appendices.

Existing IDRS interface (tabular)

ORIGIN	DEST	TRIP	TRIP	TRIP	TRIP	TRIP	TRIP
10000	10000	0	0	0	0	0	0
10000	10001	0	0	0	0	0	0
10000	10002	0	0	0	0	0	0
10000	10003	0	0	0	0	0	0
10000	10004	0	0	0	0	0	0
10000	10005	0	0	0	0	0	0
10000	10006	0	0	0	0	0	0
10000	10007	0	0	0	0	0	0
10000	10008	0	0	0	0	0	0
10000	10009	0	0	0	0	0	0
10000	10010	0	0	0	0	0	0
10000	10011	0	0	0	0	0	0
10000	10012	0	0	0	0	0	0
10000	10013	0	0	0	0	0	0
10000	10014	0	0	0	0	0	0
10000	10015	0	0	0	0	0	0
10000	10016	0	0	0	0	0	0
10000	10017	0	0	0	0	0	0
10000	10018	0	0	0	0	0	0
10000	10019	0	0	0	0	0	0
10000	10020	0	0	0	0	0	0
10000	10021	0	0	0	0	0	0
10000	10022	0	0	0	0	0	0
10000	10023	0	0	0	0	0	0
10000	10024	0	0	0	0	0	0
10000	10025	0	0	0	0	0	0
10000	10026	0	0	0	0	0	0
10000	10027	0	0	0	0	0	0
10000	10028	0	0	0	0	0	0
10000	10029	0	0	0	0	0	0
10000	10030	0	0	0	0	0	0
10000	10031	0	0	0	0	0	0
10000	10032	0	0	0	0	0	0
10000	10033	0	0	0	0	0	0
10000	10034	0	0	0	0	0	0
10000	10035	0	0	0	0	0	0
10000	10036	0	0	0	0	0	0
10000	10037	0	0	0	0	0	0
10000	10038	0	0	0	0	0	0
10000	10039	0	0	0	0	0	0
10000	10040	0	0	0	0	0	0
10000	10041	0	0	0	0	0	0
10000	10042	0	0	0	0	0	0
10000	10043	0	0	0	0	0	0
10000	10044	0	0	0	0	0	0
10000	10045	0	0	0	0	0	0
10000	10046	0	0	0	0	0	0
10000	10047	0	0	0	0	0	0
10000	10048	0	0	0	0	0	0
10000	10049	0	0	0	0	0	0
10000	10050	0	0	0	0	0	0
10000	10051	0	0	0	0	0	0
10000	10052	0	0	0	0	0	0
10000	10053	0	0	0	0	0	0
10000	10054	0	0	0	0	0	0
10000	10055	0	0	0	0	0	0
10000	10056	0	0	0	0	0	0
10000	10057	0	0	0	0	0	0
10000	10058	0	0	0	0	0	0
10000	10059	0	0	0	0	0	0
10000	10060	0	0	0	0	0	0
10000	10061	0	0	0	0	0	0
10000	10062	0	0	0	0	0	0
10000	10063	0	0	0	0	0	0
10000	10064	0	0	0	0	0	0
10000	10065	0	0	0	0	0	0
10000	10066	0	0	0	0	0	0
10000	10067	0	0	0	0	0	0
10000	10068	0	0	0	0	0	0
10000	10069	0	0	0	0	0	0
10000	10070	0	0	0	0	0	0
10000	10071	0	0	0	0	0	0
10000	10072	0	0	0	0	0	0
10000	10073	0	0	0	0	0	0
10000	10074	0	0	0	0	0	0
10000	10075	0	0	0	0	0	0
10000	10076	0	0	0	0	0	0
10000	10077	0	0	0	0	0	0
10000	10078	0	0	0	0	0	0
10000	10079	0	0	0	0	0	0
10000	10080	0	0	0	0	0	0
10000	10081	0	0	0	0	0	0
10000	10082	0	0	0	0	0	0
10000	10083	0	0	0	0	0	0
10000	10084	0	0	0	0	0	0
10000	10085	0	0	0	0	0	0
10000	10086	0	0	0	0	0	0
10000	10087	0	0	0	0	0	0
10000	10088	0	0	0	0	0	0
10000	10089	0	0	0	0	0	0
10000	10090	0	0	0	0	0	0
10000	10091	0	0	0	0	0	0
10000	10092	0	0	0	0	0	0
10000	10093	0	0	0	0	0	0
10000	10094	0	0	0	0	0	0
10000	10095	0	0	0	0	0	0
10000	10096	0	0	0	0	0	0
10000	10097	0	0	0	0	0	0
10000	10098	0	0	0	0	0	0
10000	10099	0	0	0	0	0	0
10000	10100	0	0	0	0	0	0
10000	10101	0	0	0	0	0	0
10000	10102	0	0	0	0	0	0
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10000	10104	0	0	0	0	0	0
10000	10105	0	0	0	0	0	0
10000	10106	0	0	0	0	0	0
10000	10107	0	0	0	0	0	0
10000	10108	0	0	0	0	0	0
10000	10109	0	0	0	0	0	0
10000	10110	0	0	0	0	0	0
10000	10111	0	0	0	0	0	0
10000	10112	0	0	0	0	0	0
10000	10113	0	0	0	0	0	0
10000	10114	0	0	0	0	0	0
10000	10115	0	0	0	0	0	0
10000	10116	0	0	0	0	0	0
10000	10117	0	0	0	0	0	0
10000	10118	0	0	0	0	0	0
10000	10119	0	0	0	0	0	0
10000	10120	0	0	0	0	0	0
10000	10121	0	0	0	0	0	0
10000	10122	0	0	0	0	0	0
10000	10123	0	0	0	0	0	0
10000	10124	0	0	0	0	0	0
10000	10125	0	0	0	0	0	0
10000	10126	0	0	0	0	0	0
10000	10127	0	0	0	0	0	0
10000	10128	0	0	0	0	0	0
10000	10129	0	0	0	0	0	0
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10000	10133	0	0	0	0	0	0
10000	10134	0	0	0	0	0	0
10000	10135	0	0	0	0	0	0
10000	10136	0	0	0	0	0	0
10000	10137	0	0	0	0	0	0
10000	10138	0	0	0	0	0	0
10000	10139	0	0	0	0	0	0
10000	10140	0	0	0	0	0	0
10000	10141	0	0	0	0	0	0
10000	10142	0	0	0	0	0	0
10000	10143	0	0	0	0	0	0
10000	10144	0	0	0	0	0	0
10000	10145	0	0	0	0	0	0
10000	10146	0	0	0	0	0	0
10000	10147	0	0	0	0	0	0
10000	10148	0	0	0	0	0	0
10000	10149	0	0	0	0	0	0
10000	10150	0	0	0	0	0	0
10000	10151	0	0	0	0	0	0
10000	10152	0	0	0	0	0	0
10000	10153	0	0	0	0	0	0
10000	10154	0	0	0	0	0	0
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10000	10157	0	0	0	0	0	0
10000	10158	0	0	0	0	0	0
10000	10159	0	0	0	0	0	0
10000	10160	0	0	0	0	0	0
10000	10161	0	0	0	0	0	0
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10000	10163	0	0	0	0	0	0
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10000	10166	0	0	0	0	0	0
10000	10167	0	0	0	0	0	0
10000	10168	0	0	0	0	0	0
10000	10169	0	0	0	0	0	0
10000	10170	0	0	0	0	0	0
10000	10171	0	0	0	0	0	0
10000	10172	0	0	0	0	0	0
10000	10173	0	0	0	0	0	0
10000	10174	0	0	0	0	0	0
10000	10175	0	0	0	0	0	0
10000	10176	0	0	0	0	0	0
10000	10177	0	0	0	0	0	0
10000	10178	0	0	0	0	0	0
10000	10179	0	0	0	0	0	0
10000	10180	0	0	0	0	0	0
10000	10181	0	0	0	0	0	0
10000	10182	0	0	0	0	0	0
10000	10183	0	0	0	0	0	0
10000	10184	0	0	0	0	0	0
10000	10185	0	0	0	0	0	0
10000	10186	0	0	0	0	0	0
10000	10187	0	0	0	0	0	0
10000	10188	0	0	0	0	0	0
10000	10189	0	0	0	0	0	0
10000	10190	0	0	0	0	0	0
10000	10191	0	0	0	0	0	0
10000	10192	0	0	0	0	0	0
10000	10193	0	0	0	0	0	0
10000	10194						