

Summary – 2020 RAP Survey



Based on Mneina & Smith, (2019)



6.7 Million Tonnes of RAP translates to:

6.4 Million Tonnes of conserved virgin aggregates (8% of Ontario's annual infrastructure use)
530 K Dump trucks

2M bbl of bitumen cement (335K Tonnes)
\$270 million In savings

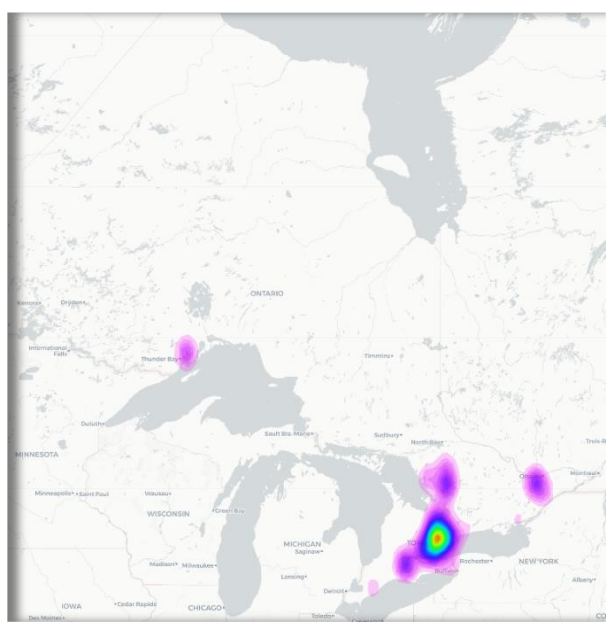
1,565 lane kilometers of extra paving
Windsor to Ottawa and back!

15 million m³ of conserved fresh water
56.5 K Household for 1 year

125 Thousand Tonnes of GHG that are not emitted

2020 QUANTITIES

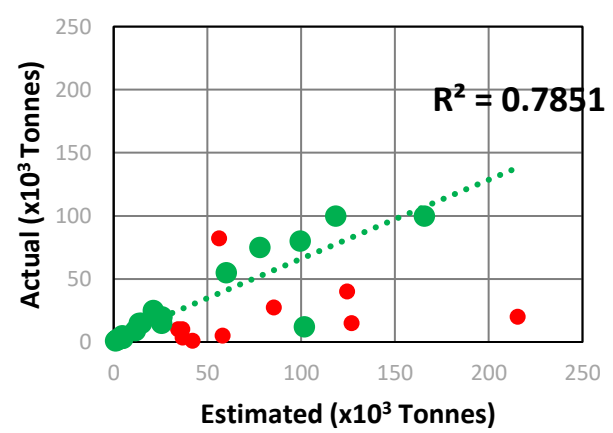
	FACILITIES	2020 RAP (metric tonnes)
Municipalities	25	5% 134,220
Contractors and HMA Producers	40	95% 2,360,806
TOTAL	65	2,495,026



Validation of Google Earth Estimation Method

- 30 Site Comparisons
- Data from Survey
- Outliers
 - outdated satellite images in certain locations
 - Inaccurate topography in mapping tool in certain locations
 - Other

RAP Quantities Actual vs. Estimates



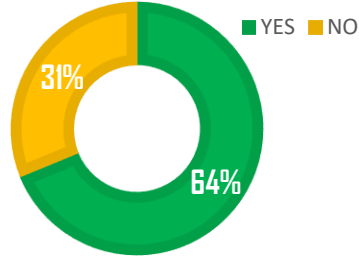
Strong Correlations ($R^2 = 0.79$)

2020 PRACTICES

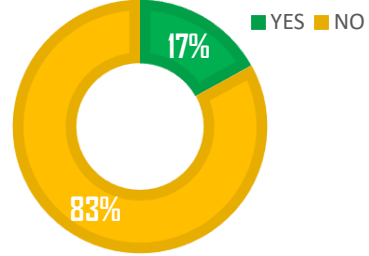
INVENTORY MANAGEMENT

- Separating RAP Stockpiles Based on Source

HMA PRODUCERS / CONTRACTORS



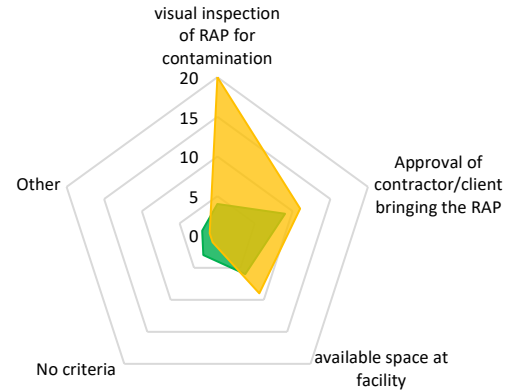
MUNICIPALITIES



INVENTORY MANAGEMENT

- Criteria for Accepting RAP

- MUNICIPALITIES
- HMA PRODUCERS / CONTRACTORS



RAP STOCKPILING AND PROCESSING

