

McMaster Virtual Roundtable



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Challenges

Challenges Add a new card for every challenge you can think of	Score
Lack of a neutral third-party data holder to enable multimodal, multi industry supply chain data integration for potential coordination and optimization	13
Finding best practices and sharing that information for a digital platform. How do we share information on a digital platform that is suitable for all parties (industry, gov't) (similar to what Port of Vancouver noted) <i>Comments:</i> This is definitely a key challenge. Port of Vancouver's dashboard looks great :)	11
Access to Hamilton Airport and 403 exits to the link to reduce congestion into TO	8
Mid-penn corridor	8
All levels of government (officials, public servants) to understand the challenges with transportation and appreciate how important it is Prioritization from political leaders	8
Limited rail access, new rail lines connecting all modes, ie: airport, port, passenger GTA	6
Improve HOPA and HIA working together	6
Getting collaboration across stakeholders	6
Road infrastructure, HWY 6 improvements (lighting and road widening)	5
Competing with other municipalities for Provincial infrastructure investments	5

Data sharing challenges: - Willingness of data owners to share (perceived business risk), lack of consistent industry-wide standards and broad integration tools; - Public multi-modal transportation options connections between Hamilton, Niagara, KW, London - Current inter-regional public transportation systems do not have freight cars (e.g. GO train)	5
Encouraging the regional stakeholders to share data to enable optimization/improvement of regional supply chains	5
Managing conflicts among land uses	4
Reduce empty return trips - greater collaboration between businesses to encourage shared truck trips	3
Underutilized rail and seaway	3
Truck congestion - lots of empty miles contributing to this Last mile congestion Last mile issues, need funding from Prov and Feds	3
Widening 403 and better connectivity	2
Data availability, currency and accessibility	2
Low level use of load boarding - trucks, etc. running partially empty	2
Lack of predictability (esp. during crisis) for freight crossing board at bridges	2
Dedicated infrastructure funds/assistance within dedicated timelines.	2

Keeping GTHA core accessible from across the region	1
Collaborations/partnerships to look at system as a whole. Reduces competitiveness and environment	1
Infrastructure requirements associated with nearshoring/onshoring	1
Investment in transportation infrastructure to accommodate residential, commercial, and industrial development	1
Multi-layer governmental integration to move technology implementation forward - municipalities can specific expertise, bandwidth, and funding.	1
Trucks on major highways -- add truck lanes	1
Various transportation costs increasing due to things such as elogs, not enough drivers, pilotage (marine) etc	
Regulatory environment and control for drone delivery	

Opportunities

Opportunities Add a new card for every opportunity you can think of	Score
Improve data collection and transparency in the region to identify opportunities to improve supply chain efficiency <i>Comments:</i> My NRC program would be interested in collaborating around the logistics data R&D aspects of this.	15
Use of big data power to support multimodality and enhance supply chain visibility, to inform local and regional strategic decisions, leverage physical internet.	14
Portal to share truck type information (empty loads) to leverage cost savings, trips reductions and environmental benefits <i>Comments:</i> NRC IRAP has a Canadian client who is a leader in this space. Let me know if you would like information.	9
Opportunity to pilot alternative delivery solutions to reduce GHG emissions and improve road congestion, like micro-consolidation hubs or cargo bikes	8
Better modal optimization opportunities	8
Properly co-operating to leverage data (e.g AIS) <i>Comments:</i> I like working with AIS data :)	5
Opportunities to prevent land use conflicts using predictive power of data analysis	5
Utilize datasets from the CITM Smart Mobility Network into broader datasets to track components of the supply chain - vehicle, traffic, environmental	4
Hamilton International Airport Cost Advantage	4
Better supporting firms in maximizing their supply chains	4

Trial autonomous vehicle technology into key components of the road-based supply chain - first mile, last mile, mid-mile	2
Niagara Consolidation of northbound shipments from US Carriers	2
Identify strategic locations in the City to locate urban consolidation centers	2
Funding to plan	2
Leveraging "omni-channel"	2
Accelerate adoption of EV based smart trailer dolly solutions	1
Focus on "private roads" opportunities for automation & EVs for first mile and last mile of goods movement	1
Integrate union based and skilled labour that may be replaced by technology innovation in the process early	