

ONTARIO LARGE TRUCK COLLISION CAUSATION STUDY

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Large Truck Collisions in Ontario

- Large truck drivers are generally safe.
 - In 2015*, approximately 70% of large truck drivers involved in collisions were coded as “driving properly”.

- Large trucks are more massive than other vehicles.
 - In 2015*, approximately 20% of fatalities on Ontario’s roads were due to collisions involving a large truck.

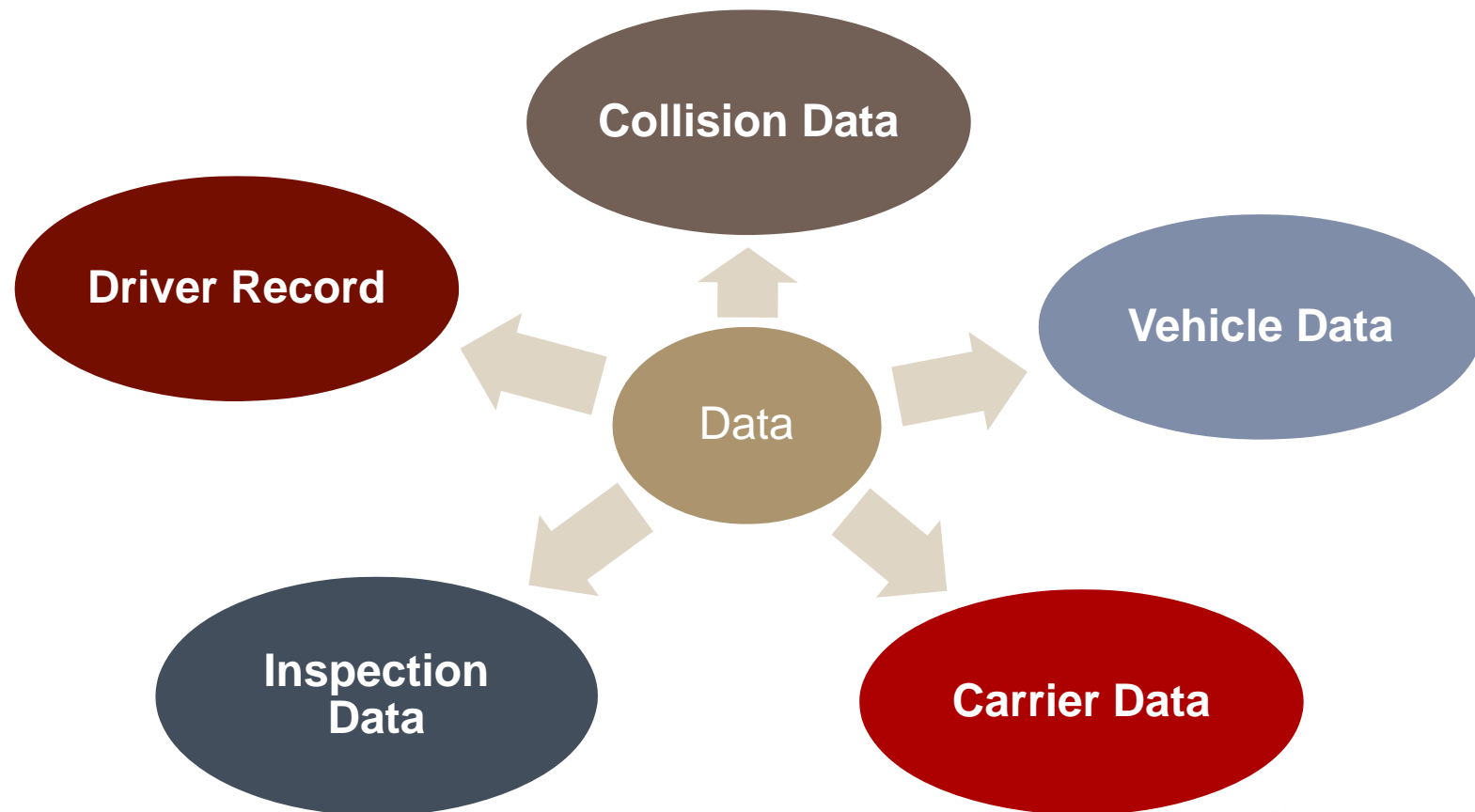
- Prevention of large truck collisions relies on understanding their causes.

**2015 data is preliminary*

Why do we need to do this in Ontario?

- Further enhancing road safety in Ontario requires understanding ***Ontario-specific causes*** of collisions.
- Ontario differs from other jurisdictions in many ways, including:
 - Legal and regulatory framework
 - Environmental conditions
 - Infrastructure
- Ontario's Large Truck Collision Causation study is intended to produce recommendations for optimizing Large Truck policies and programs in the province.

Study Data Sources



Where to Start: Focus Groups



Drivers of
Large Trucks

- Identify contributing factors for large truck collisions in Ontario



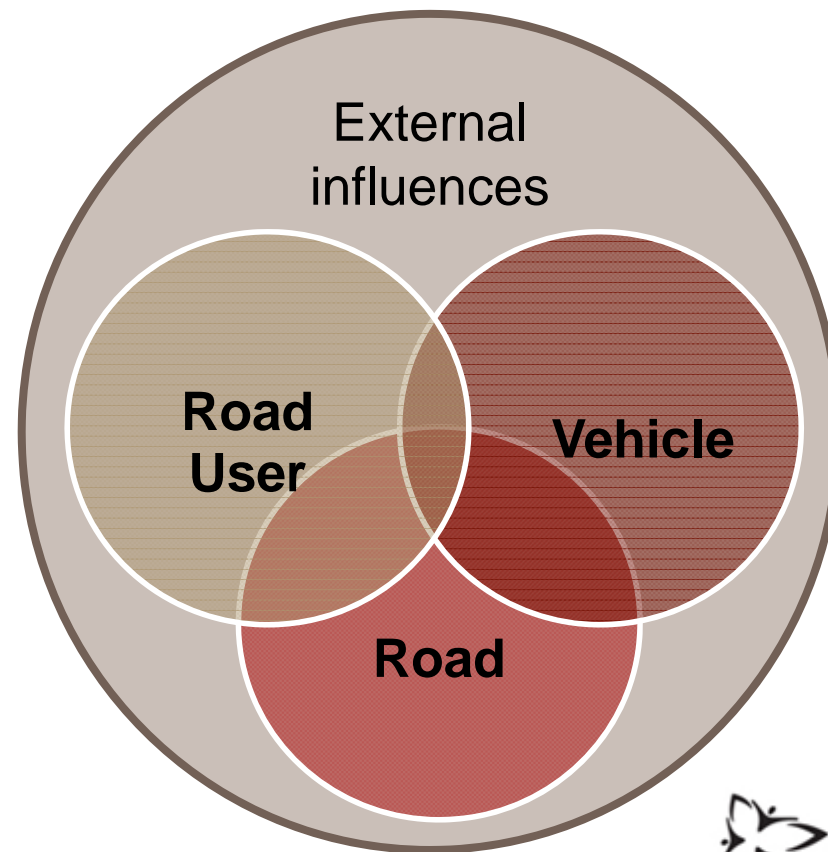
Police Collision
Reconstructionists



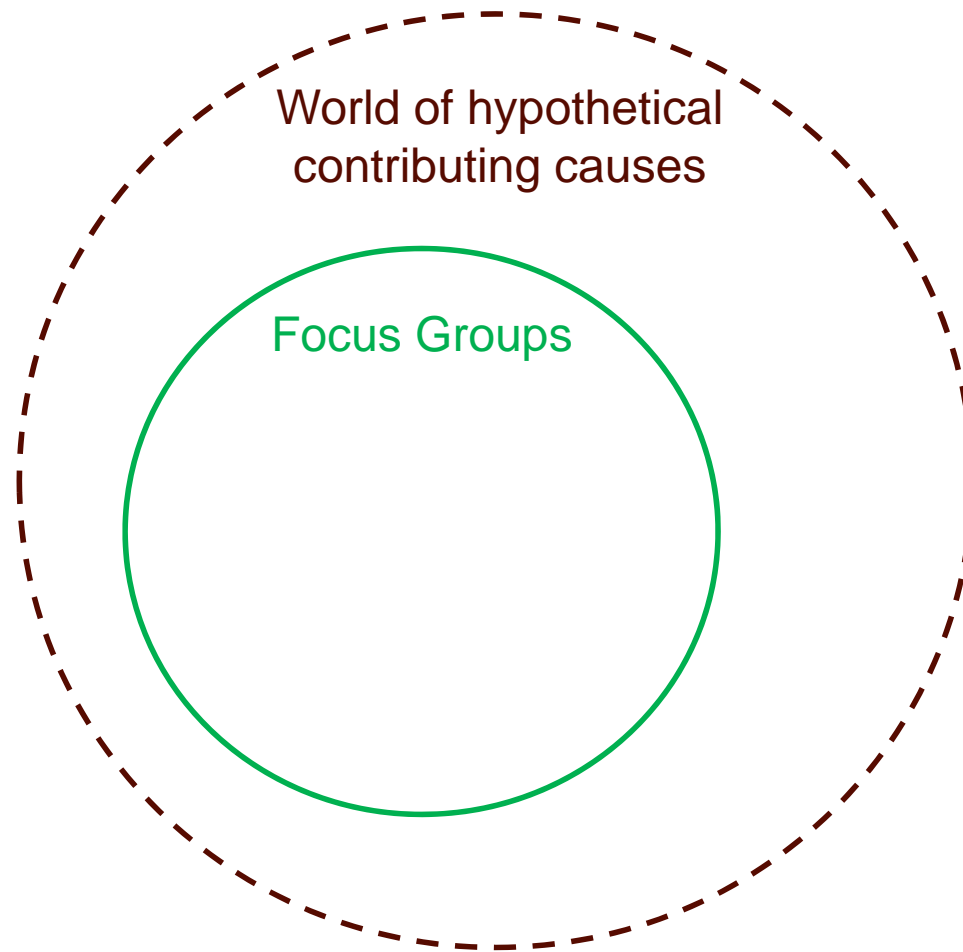
Ministry Enforcement
Officers



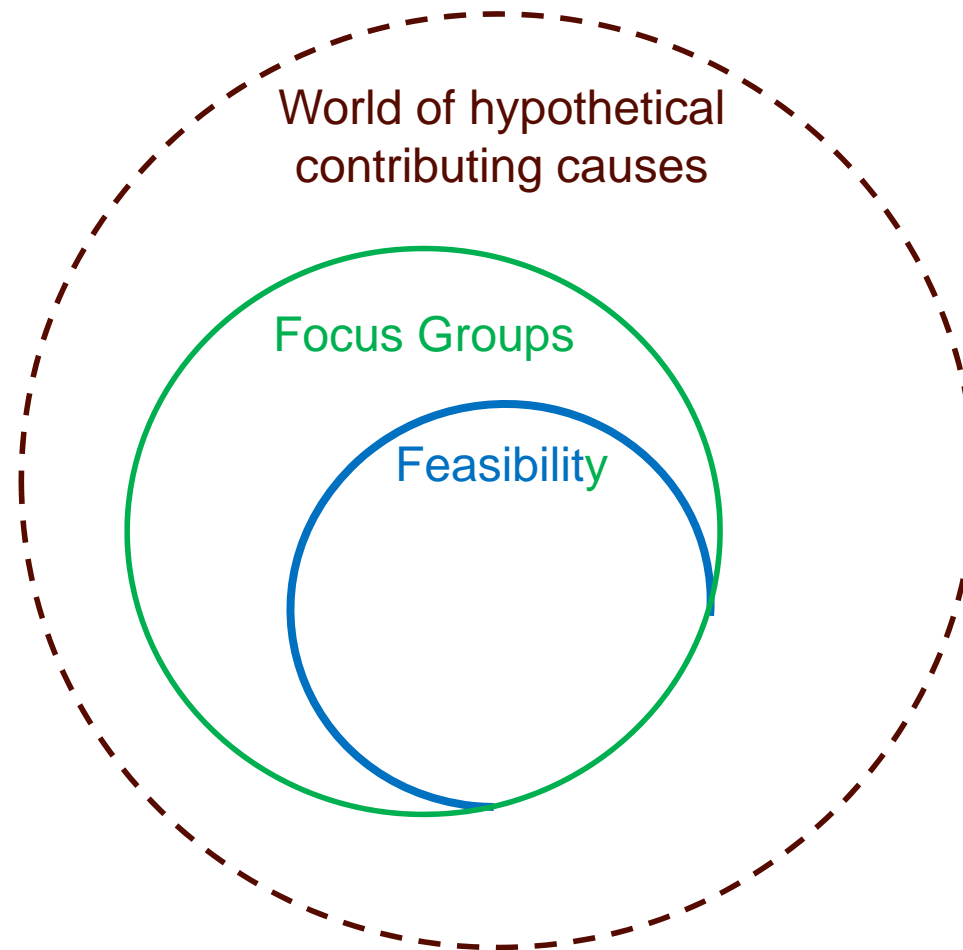
Safety Risk
Managers



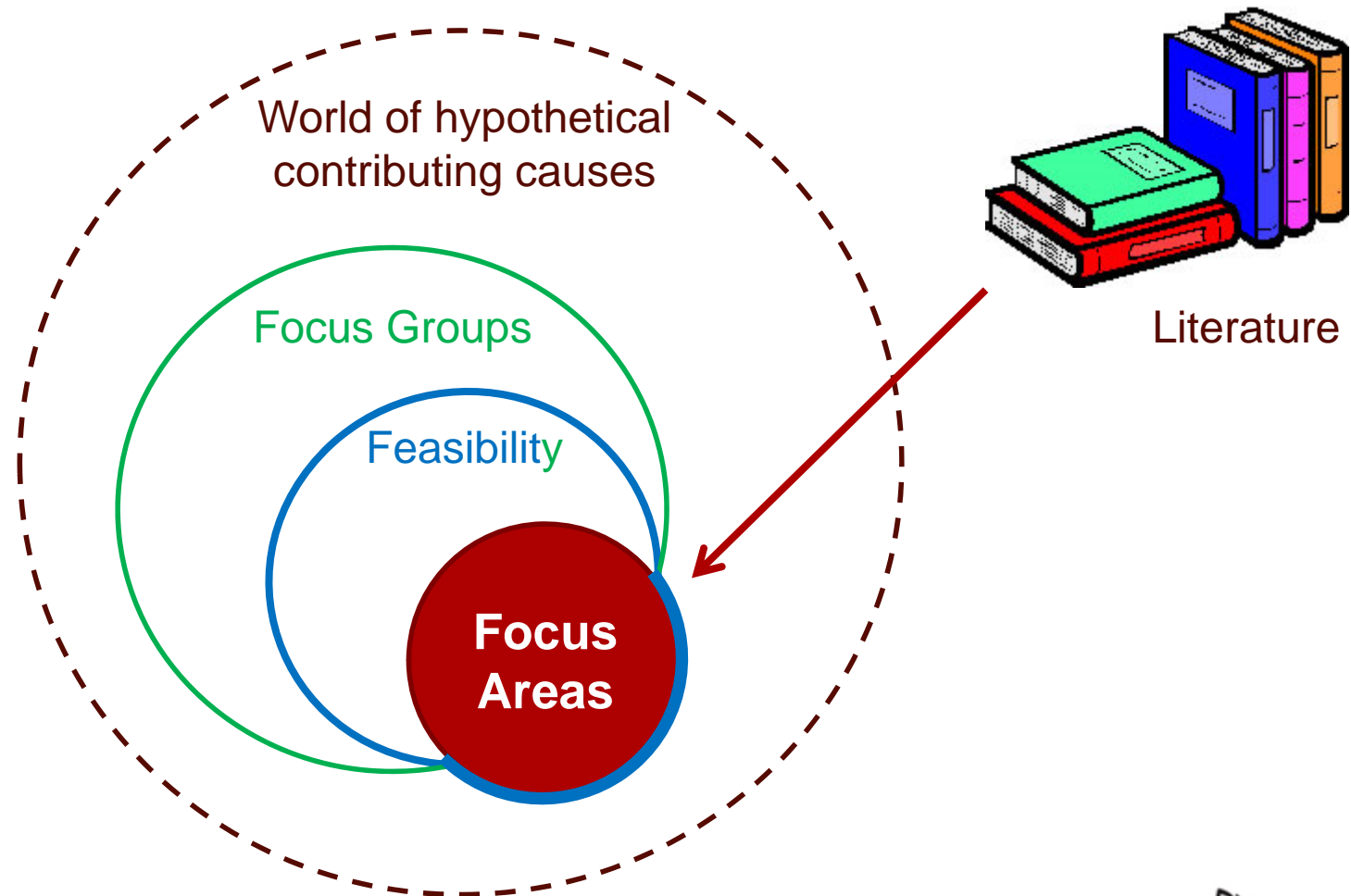
Study Approach



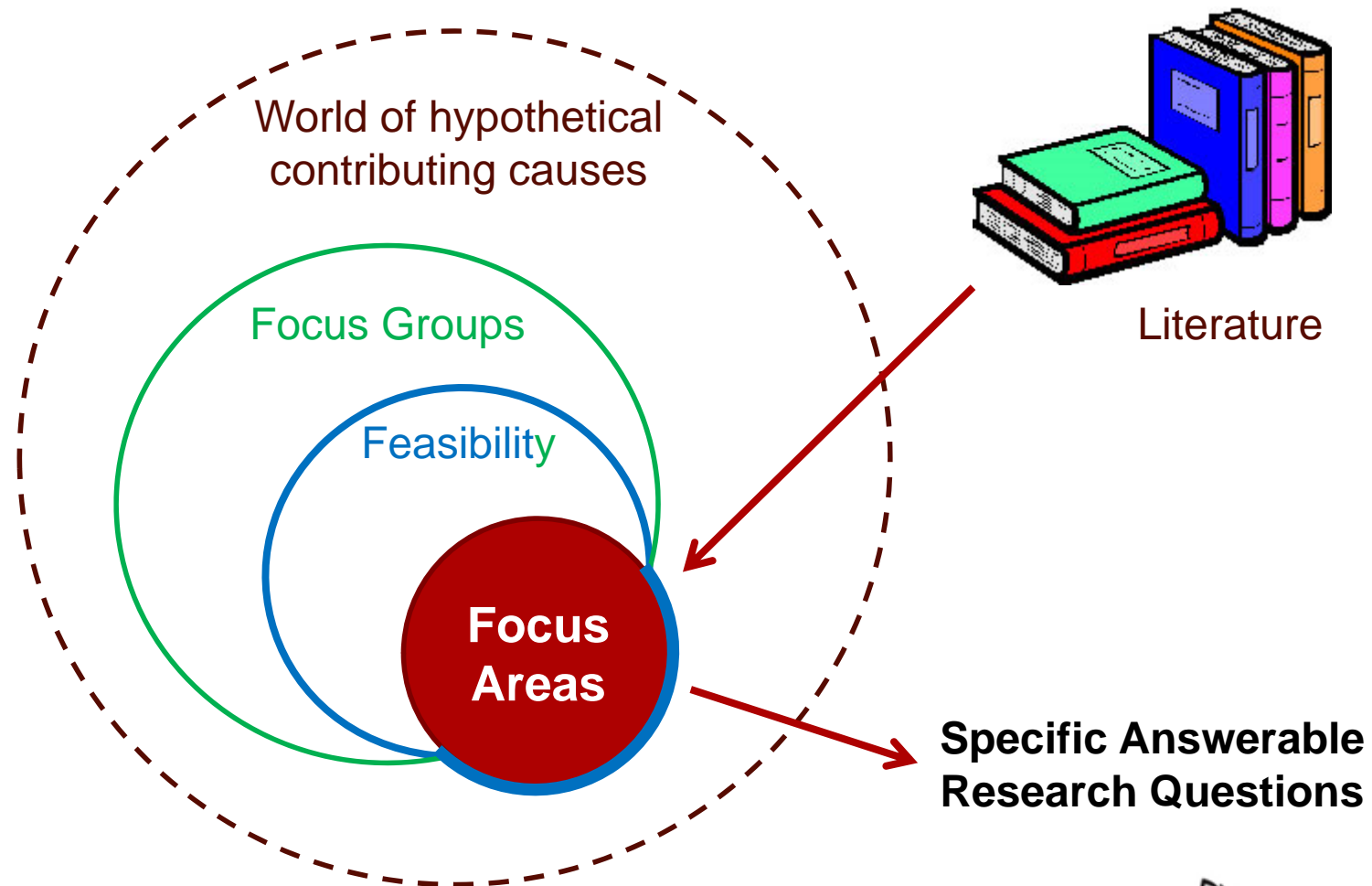
Study Approach



Study Approach



Study Approach



Focus Areas (Phase I)



Risky Driving Behaviour: Research Qs

- **How do we identify High-Risk Drivers (HRDs)?**
 - **Developing HRD Model**
- Prevalence of HRDs in Large Truck Collisions?
 - Model in combination with collision reports
- What “type” of HRD is involved in Large Truck Collisions?
 - Model in combination with collision reports
- What science-based interventions might work?
 - Literature review / stakeholder consultation

Carrier Culture/Demand Research Qs

- To what extent do similar carriers (fleet size, vehicle types) differ in road safety outcomes?
 - Carrier / Inspection databases
- **To what extent do carriers influence driver behaviour?**
 - **Carrier-Driver Risk Matrix**
- What data is predictive (or could be predictive) of carrier risk?
 - Standard predictive modelling
- What science-based interventions could work?
 - Literature review / stakeholder consultation

Thank You!