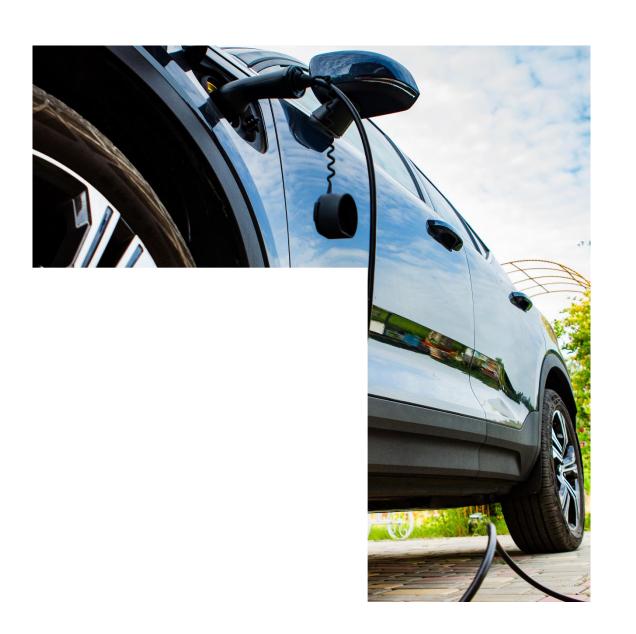
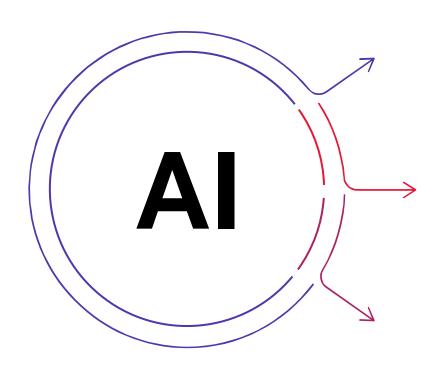
# Mitigating losses in automobile underwriting leveraging Al

November 15, 2023





# CGI's Key AI Solutions in Automobile Insurance



#### MVR Predictor - 2012

helps insurers be more cost efficient by ordering MVRs only when AI module recommends it

#### Loss Ratio Score - 2019

Al data accelerator to be embedded in in-house insurer algorithms for increased efficiencies

# Exported VIN Predictor - 2022

Al-based algorithm to predict which VINs/drivers are likely to export vehicle illegally and file a claim

# Key challenges in insurance industry

Al algorithms can analyze large volumes of data, identify patterns, and flag suspicious claims or behaviors. Identifying sophisticated fraudulent activities in real time.

#### CHALLENGES



Manual and time-consuming processes



Efficient claims processing



Underwriting accuracy



Adequate customer experience



Fraud detection and accurate risk assessment

# Exported automobile fraud?

- Identity theft on financed vehicles
- 2 Re-VINing
- 3 Container export

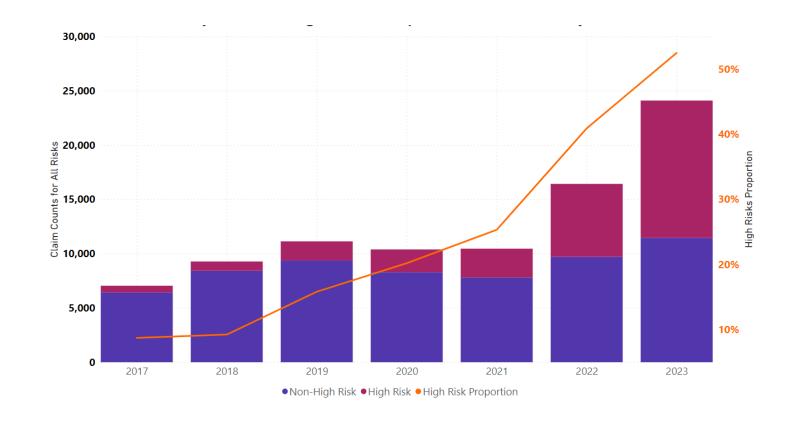
Last year, Canada's insurers paid more than \$1 billion in claims for stolen vehicles; the most the industry's ever paid in one year.

Source: Équité Association.



# Motor Vehicle (PPV) theft: Incidence of high-risk vehicle – Ontario

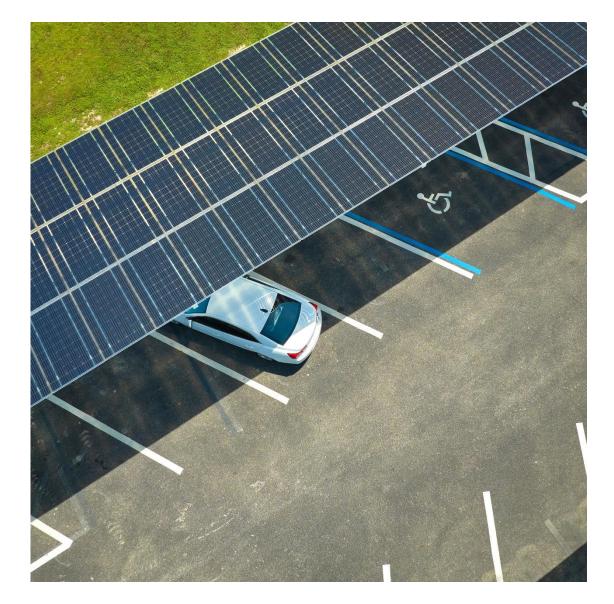
- High-Risk Theft Vehicles are those which experience 20+ claim count over a year.
- These represent 0.4% of all vehicles in Ontario as of June 2023.
- In 2023, Ontario, incidence of high-risk theft vehicles has increased 5 fold compared to 2017-2018.



Source: CGI Insurance 2023

# How illegally exported vehicles affect insurers?

Illegally exported vehicle are those purchased in one region from an authorized dealer (or stolen), and then sold in another region, for a profit.



# Typical fraudulent underwriting process

Auto insurance applicant

Vehicle purchased

Gets insurance

Waits but continues to pay premium

Exports VIN illegally

Receives cash from sale

Reports VIN stolen

FNOL

Insurer Pay-out

## VIN export fraud mitigation tools for insurers

1

and/or



Insurer

Obtain EVP Score

Real-time or monthly VIN check against CGI database

Insurer applies treatment on selected deals

Fraud mitigated, lower claim costs, higher return

## **Data Solution Results**

Data Fields	Data
Vehicle Identification Number	
Date of Exportation/Importation	
Country of Destination	
Model Year	
Make	
Model	

#### Coverage of **over 60 countries** including:

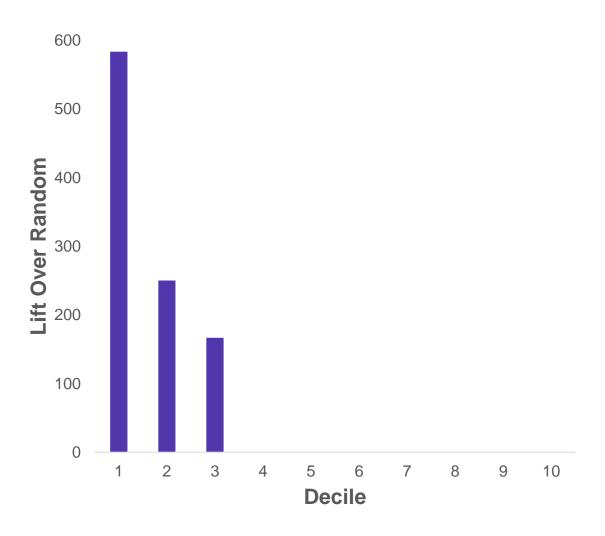


## Case Study #1

#### 2023 Results:

- An automobile insurer in Canada with 1 million
   VINs in its fleet it had approximately 1,153 auto
   theft claims with severity greater than \$50K over
   a 12-month period.
- Out of these,18 VINs were found to have been exported out of Canada.
- Total claim cost: \$1.3M

# Score Solution Results



#### Case Study #2

#### 2023 Results:

- 1.3MM VIN sample, with new high-value vehicles.
- All scores have been sorted in descending order and equally divided into deciles.
- The lower the score the higher the propensity to be exported and file a claim in the next 12 months.
- The VINs in Decile 1 have 6.0 times higher than average chance to be exported and file a claim in the next 12 months.

# Benefits of enhanced processes

#### Early Risk Mitigation

Early fraud detection allows insurers to control risks effectively, limiting financial exposure. It prevents fraud escalation, safeguarding insurers from significant financial losses.

## Al-Machine Leaning Tool

Utilizes advanced machine learning technology for combating underwriting fraud.

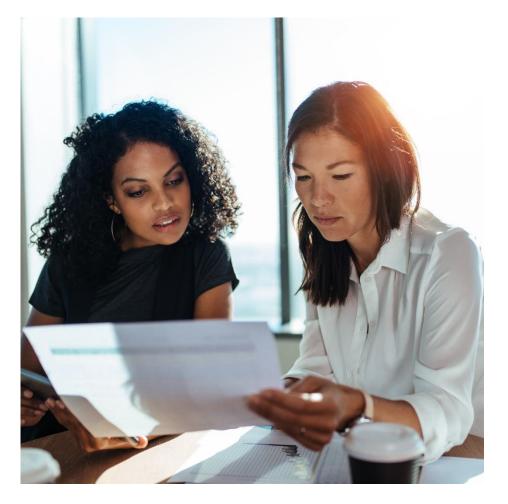
Adapts to evolving fraud tactics and offers real time detection and prevention.

# Gain Competitive Advantage

Staying up-to-date with the latest data and continually adjusting their risk management approach helps insurers stay protected and one step ahead of competition

# Lower Operational Costs

CGI solution aids and accelerates the investigation process, reduce the labor and monetary cost of anti fraud operation



# POC: Quantifying value of our data products and services

CGI VALIDATION PROCESS		CGI internal validation based on industry data.					
Whole industry database				Pass CGI Validation (Yes/No)			
CGI VALIDATION PROCESS  CGI to provide data to client for validation							
POC Stage	Documentation		Advantages	CGI's turnaround time	Cost	Testing Environment	
RETRO TEST	Client signing POC agreement document Client to provide required data (VIN, DLN)		Validate results fast	Typically, 4 weeks	Fully reimbursable upon signing	Offline	
PILOT TEST	Client signing POC agr document No client data requi		Results can take over 1 month	Typically, 6 weeks	Fully reimbursable upon signing	Production	

# Are you covered?

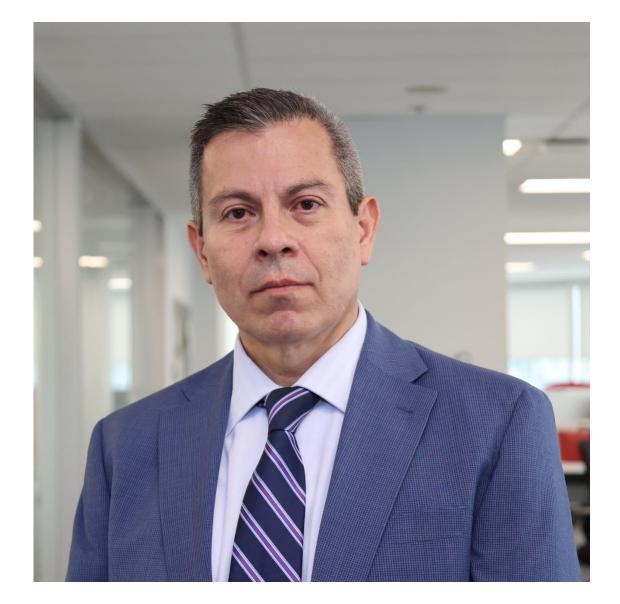
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