



Expanding Haldon Manufacturing



A New Factory

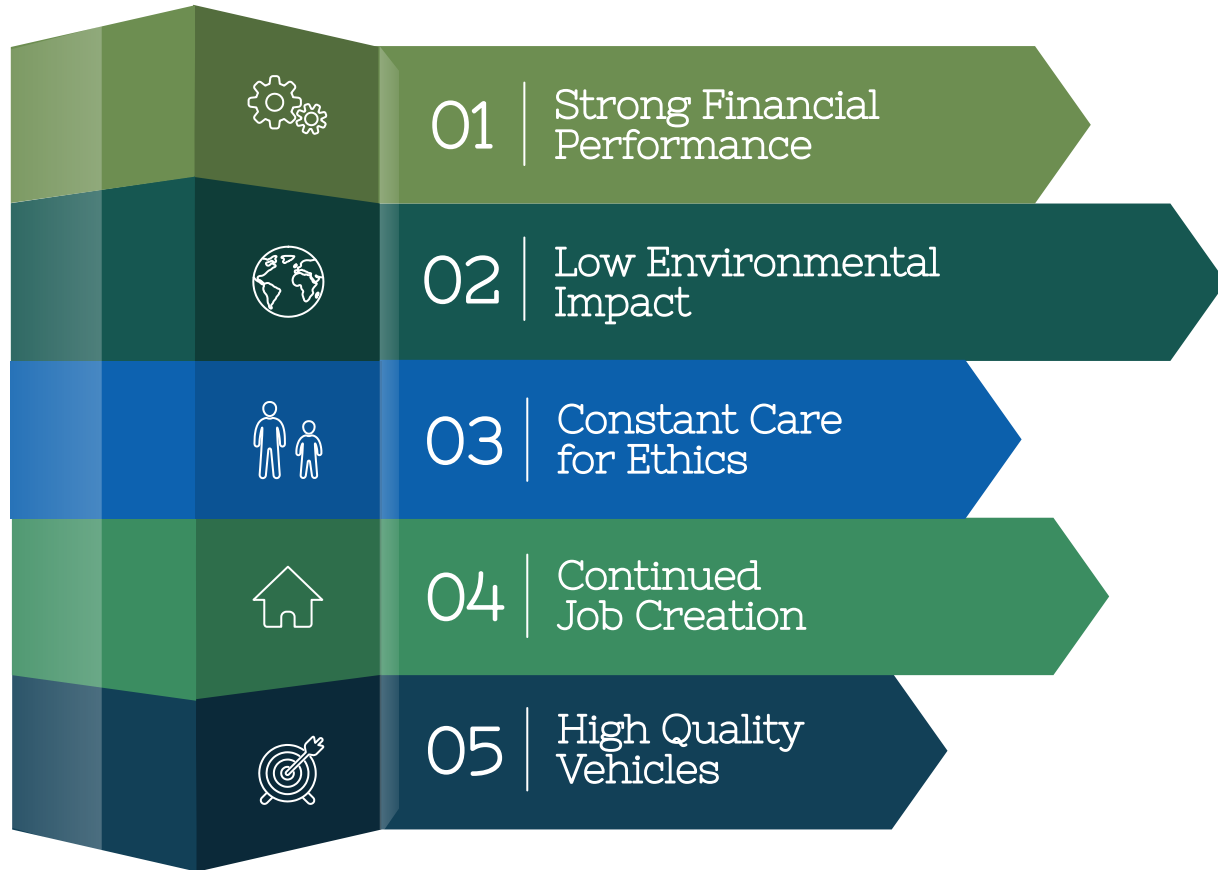
**We have the opportunity to build a
new factory**

Australia

Bangladesh

Canada

Our Main Objectives



1

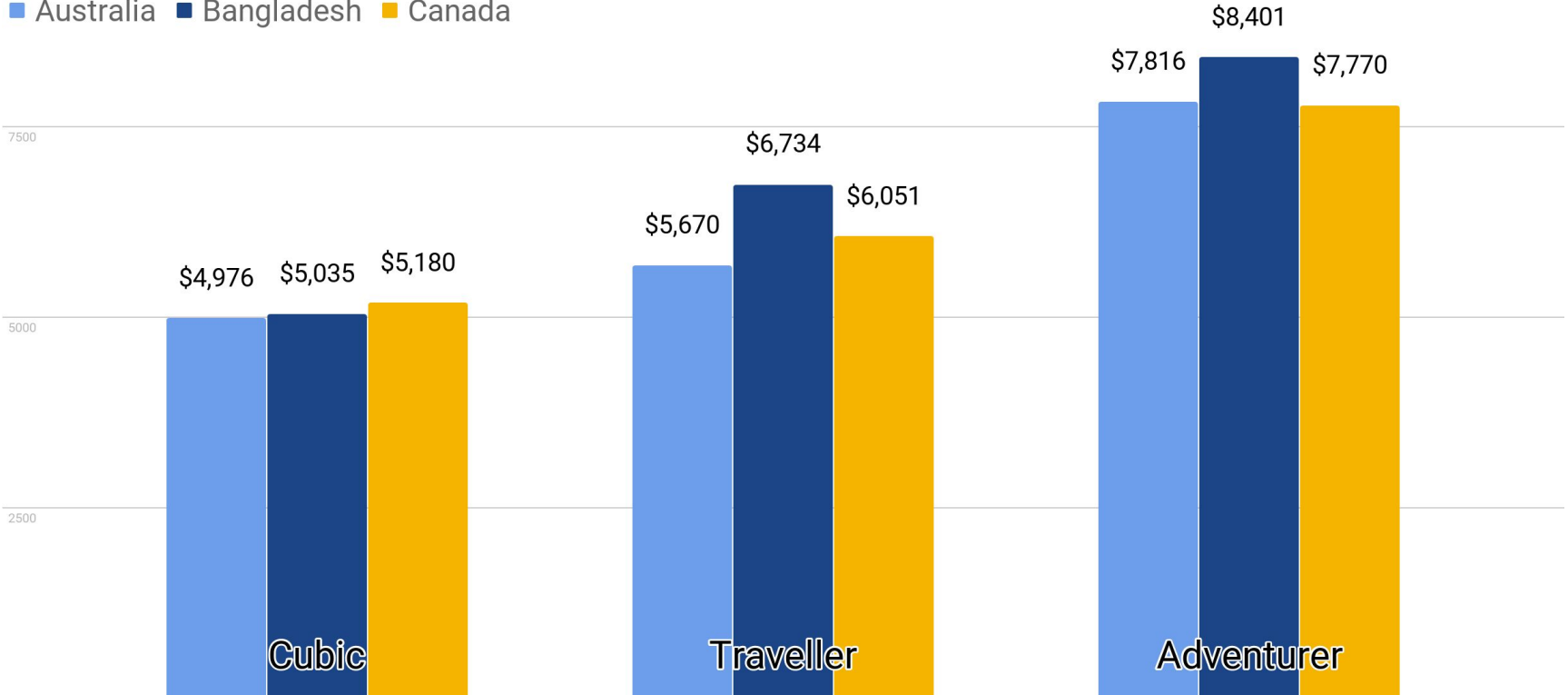
Financial Performance

Profit Per Car

Profit Per Car Type and Country of Manufacture (AUD)

Profit per Car (AUD)

■ Australia ■ Bangladesh ■ Canada





How many cars can we produce?

Maximum Capacity

Each factory can only produce a certain number of cars

Resource Cap

How many resources are available?

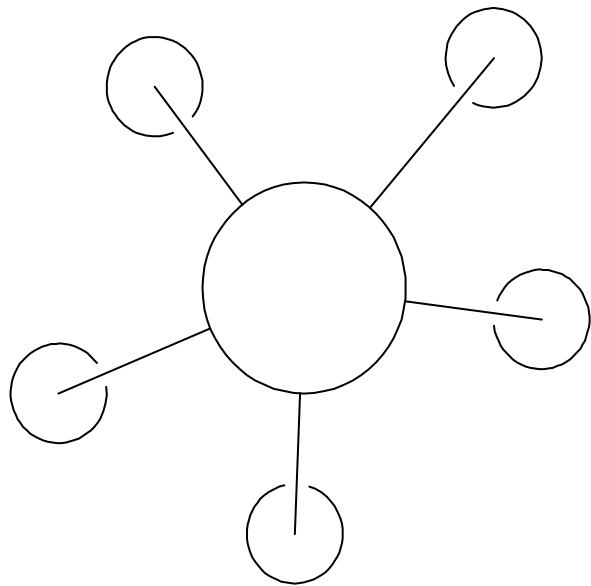


Optimal Cars Produced to Maximise Profit

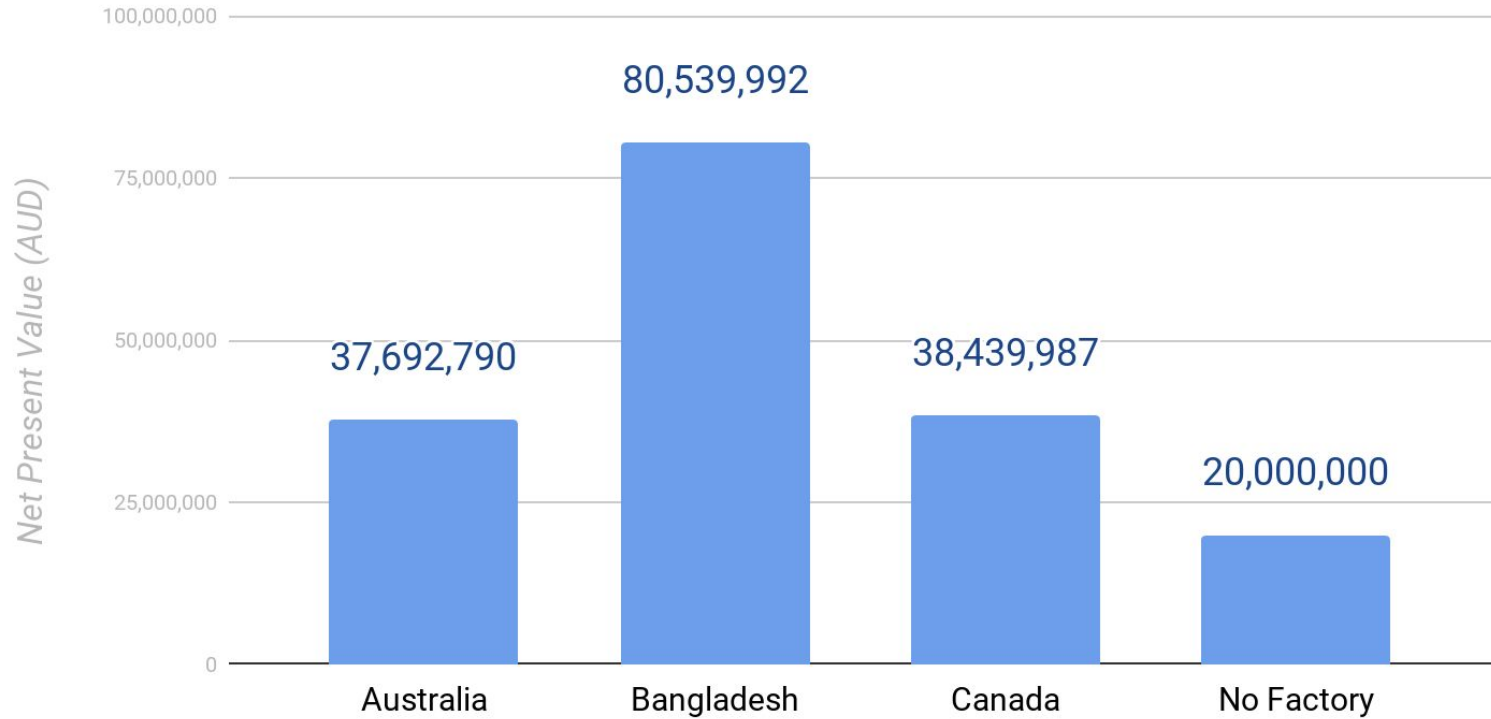
	Cubics	Travellers	Adventurers
Australia	311	429	358
Bangladesh	0	1214	285
Canada (present – 2021)	0	0	800
Canada (2022 – future)	547	17	535

Net Present Value

How much is an investment in each factory worth to us today?



Net Present Value Over 25 Years



2

Environmental Care



What we have to consider?

**We want to make the least impact
on the environment as possible**

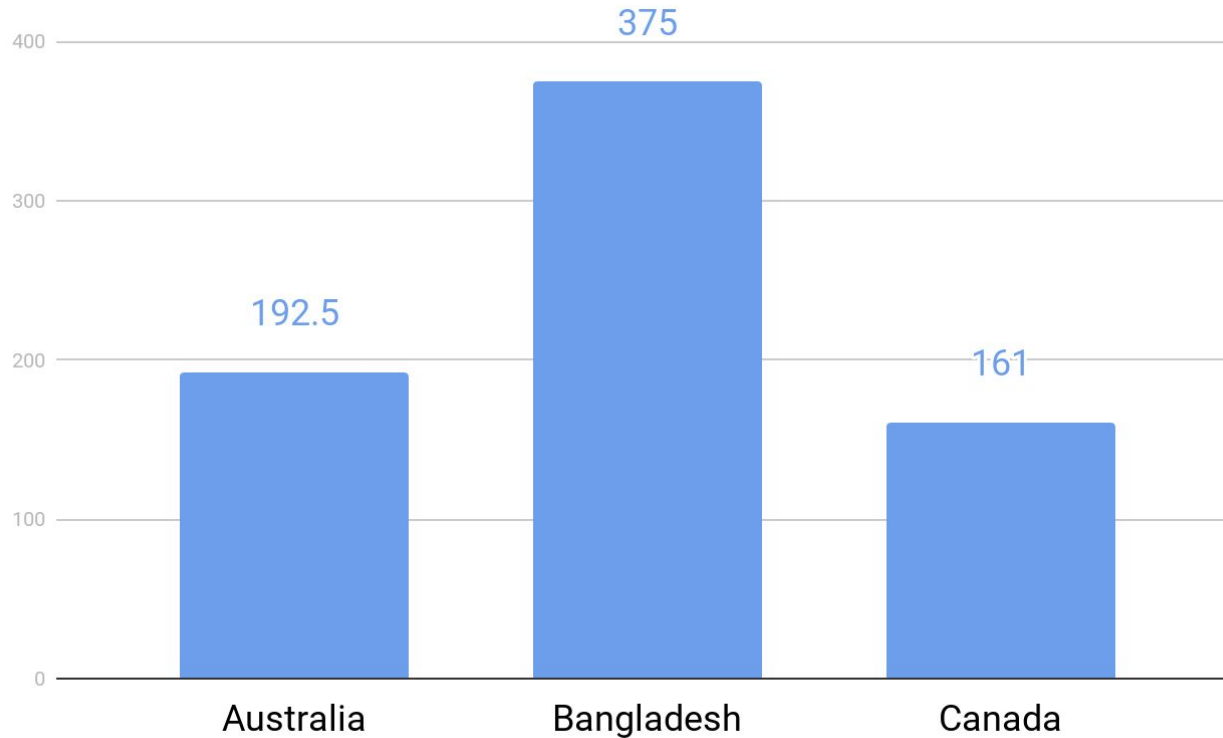
CO₂

NO_x

Water

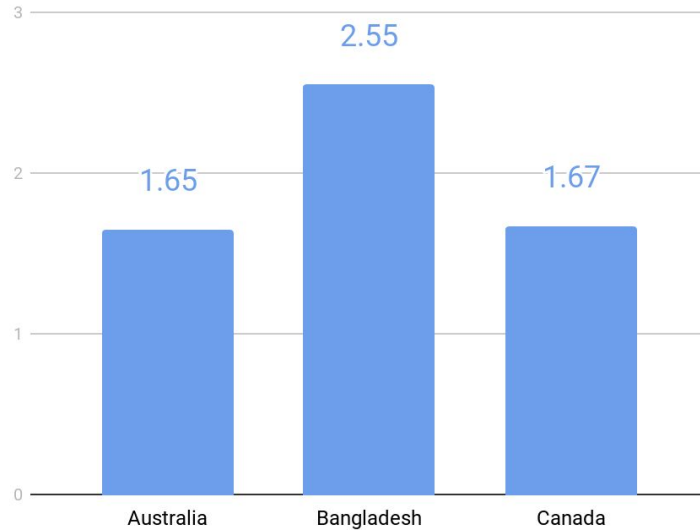
CO2 Emissions over 25 Years

(in millions of tonnes)

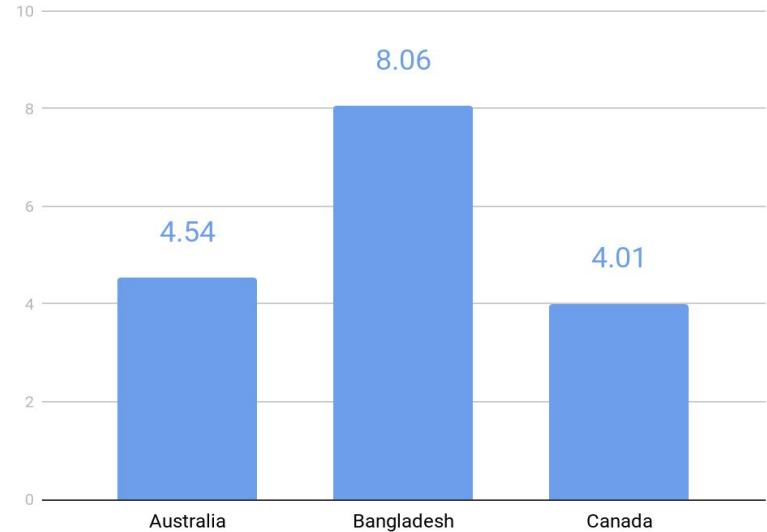


NOX Emissions and Water Use over 25 Years

NOX Emissions over 25 Years (in millions of tonnes)



Water Used over 25 Years (in millions of cubic meters)



Not building a factory would use no resources

3

Ethical Operation

This Is Very Important To Us

Operating ethically has
always been a priority for
us at Haldon





Child Labour in Bangladesh

12.6%

Of children aged 5-14 are in
the workforce

Much of the work performed
by child labour is informal
and dangerous





Corruption and Ethics



During our negotiations we were approached with a 'under the table' deal for half cost paint

Countries by Corruption Perception:

Canada - 9th
Australia - 13th
Bangladesh - 149th

4

Job Creation



Job Creation

**We want to
create jobs!**

Number of Jobs Created	
Australia	200
Bangladesh	300
Canada	250

5

Quality of Vehicles



Quality of Vehicles

Quality is
important

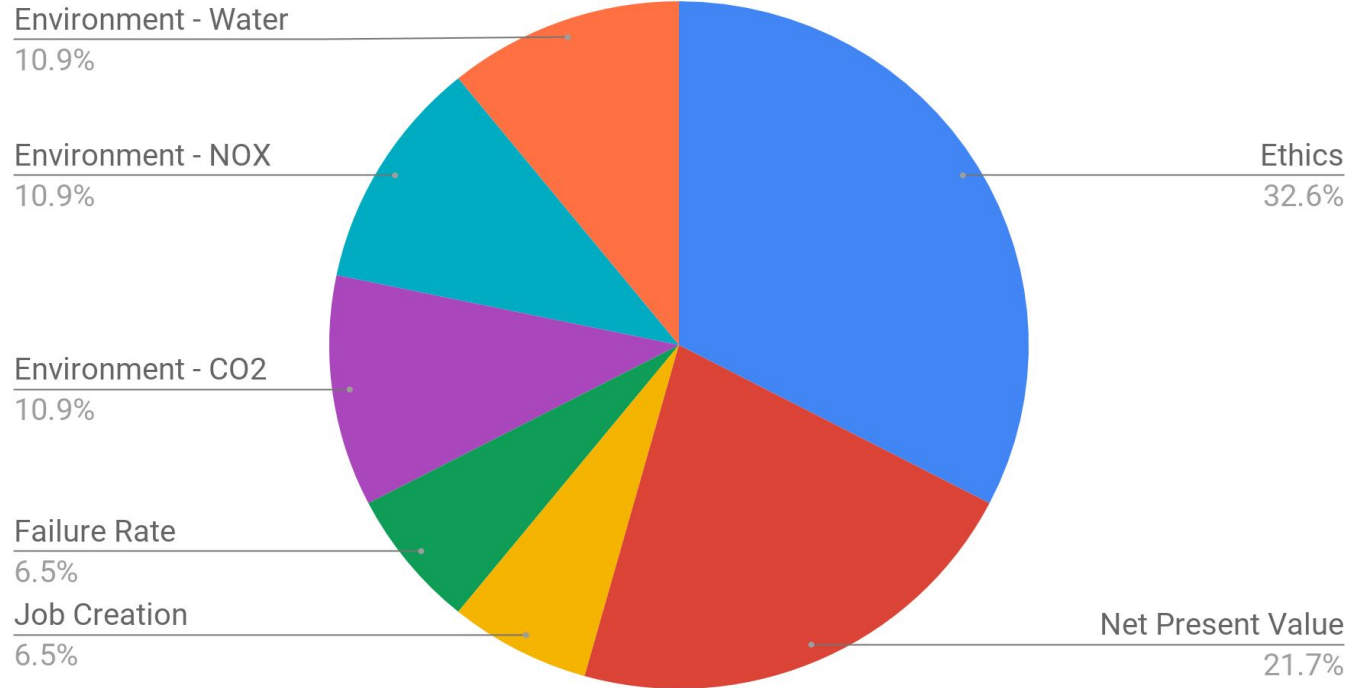
Failure Rate of Vehicles

Australia	0.9
Bangladesh	1.3
Canada	1.0

6

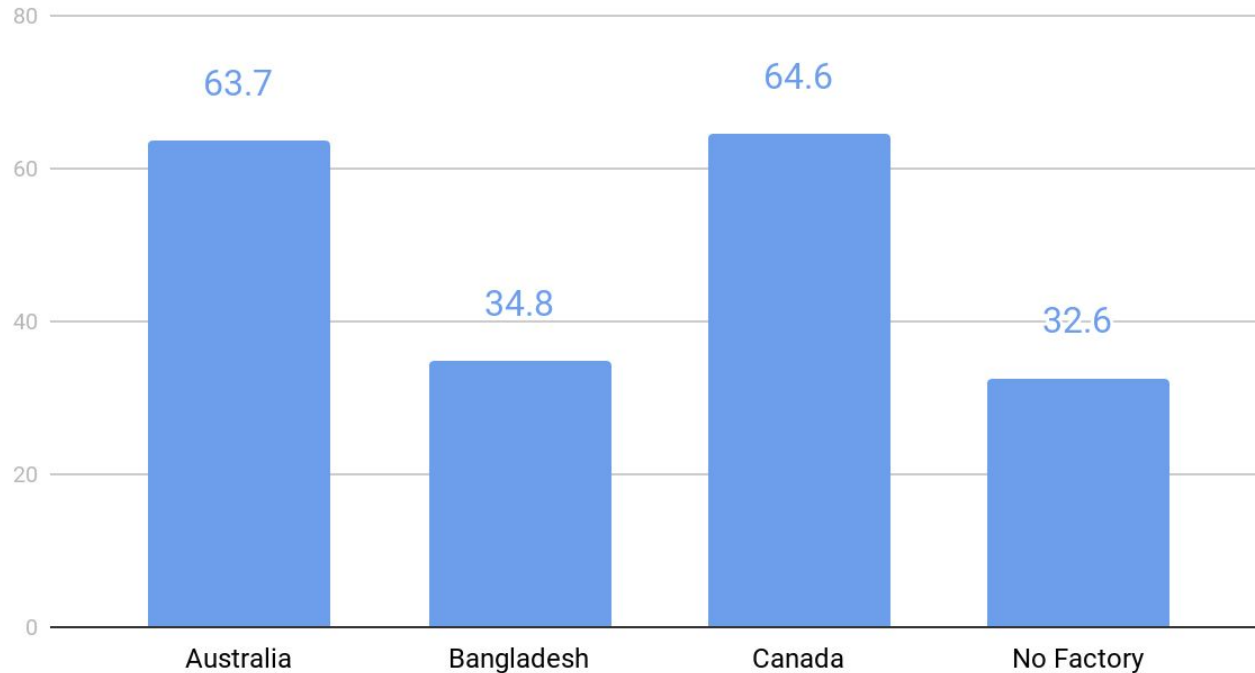
**Putting it all
Together**

What do we care about?



Final Scoring of Each Factory

Relative Scoring of Factories



Our Official Recommendation Is... The Canada Factory

Due to its:

- **Low Environmental Impact**
- **High Ethical Scores**
- **Good Quality Production**
- **Decent Job Creation**
- **Strong Financial Performance**

Any questions?



Images Used

- Slides Carnival, 2017, *Warwick Slides Template*,
<https://www.slidescarnival.com/warwick-free-presentation-template/813>
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<https://www.presentationgo.com/presentation/tag/ideas/>
- Octodec, 2016, *Ethics Images*,
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- Vipez, 2005, *Child Labour: Brick Building*,
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- Robert Wahl, 2016, *Agreement*,
<https://pixabay.com/photos/agree-agreement-asian-black-1238964/>









What affects the profit margin of a car?

Material Cost

What is the cost of the steel, glass, rubber and paint?

Labour Cost

How much are we paying the workers?

Selling Price

How much are we selling it for?

7

Our Recommendation

How well does each factory do?

	Australia	Bangladesh	Canada	No Factory
Net Present Value	29	100	31	0
Environment – CO2	49	0	57	100
Environment – NOX	35	0	37	100
Environment – Water	44	0	50	100
Ethics	100	20	98	0
Job Creation	67	100	83	0
Failure Rate	100	0	75	0

How well does each factory do?

	Australia	Bangladesh	Canada	No Factory
Net Present Value	29	100	31	0
Environment – CO2	49	0	57	100
Environment – NOX	35	0	37	100
Environment – Water	44	0	50	100
Ethics	100	20	98	0
Job Creation	67	100	83	0
Failure Rate	100	0	75	0



What affects the profit margin of a factory?

Initial Investment

Each factory will need an investment of 20 Million AUD

Operation Expenses

How much are we paying to run the factory?

Discount Rate

Using the company standard 10%



Corruption

Countries Ranked by Corruption Perception:

Canada – 9th

Australia – 13th

Bangladesh – 149th