#### Safety and Fuel Saving from HVPA program



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#### Introduction to Road Happiness



#### The BP Journey to Road Happiness

bp

- Beginning
- Road Happy
- Conclusion and Future









# Beginning









- Even though BP Oil is a major oil company in New Zealand, saving fuel is not one of the things that comes to mind initially.
- BP Oil Logistics owns its own tanker fleet consisting of 32 trucks and 42 trailers travelling over 5.5 million kms and completing over 34,000 trips p.a.
- For BP Oil Logistics to retain the right to operate we need to be a safe, reliable and cost efficient operation.

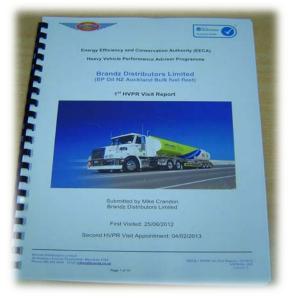








- BP Oil NZ Ltd supported the first EECA sponsored HVPA Pilot scheme in June 2012 and identified merits in safety, efficiency and compliance.
- A first visit HVPA report was completed late June 2012 by Mike Crandon (HVPA Brandz Distributors) which identified key fuel saving initiatives which began our fuel saving journey.











## **Road Happy**

#### A. 7 Point Action Plan

#### **B.** Fleet Management Action Plan

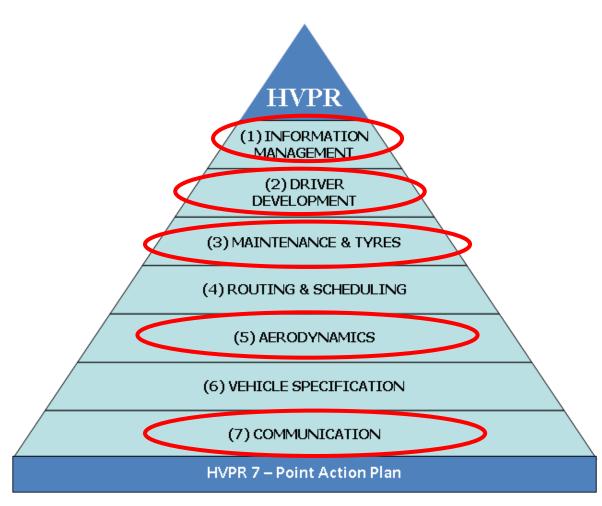




#### Road Happy - 7 Point Action Plan

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• Seven key elements identified from the HVPA assessment.

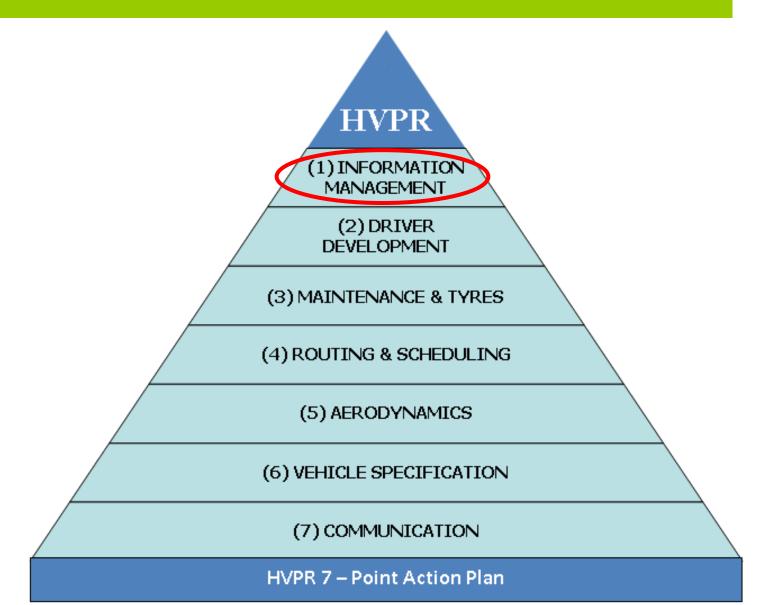






#### 1. Information Management









#### Information Management

- Manage what you can measure
- Work with partners e.g. fuel supplier/eRoad/TR OSS.
- Use clean data to produce "before" picture.
- Set benchmark figures e.g. 5% and 10%.....
- Split fleet into truck type/location.
- Record any fleet location changes or change of duty.
- Engage technology e.g. ERoad, electronic fuelcard data, GPS.
- Monthly review meetings.

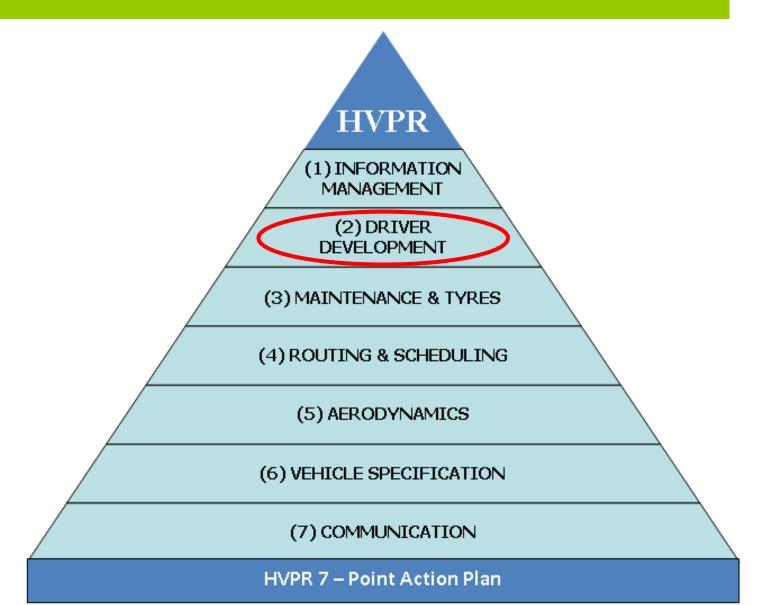






#### 2. Driver Development









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- SAFED drive 1 over a selected route of 27 km.
- Feedback to driver using actual truck CANBUS data.
- SAFED drive 2 over the same route and compare results.
- Present a report to driver showing improvements in fuel economy, braking, gear changes and idling events......

Drive Details	Drive 1	Drive 2	Difference/percentage			
Duration	41 minutes	44 minutes	3 minutes			
Number of gear changes	188	96	-48.94%			
Fuel used	17 litres	15 litres	-11.76%			
Brake Distance	4.01km	1.31km	-2.7km			
Brake application count	63	35	28			





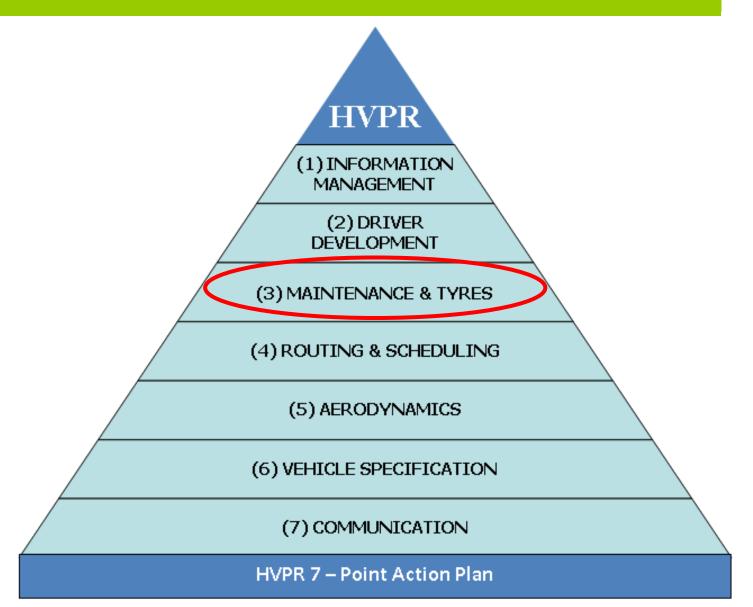


## Typical Example



#### 3. Maintenance & Tyres









#### 3. Maintenance and Tyres

bp

- Decide whether you manage your own maintenance or select contract maintenance.
- Audit service agents.
- Have agreed labour rates and parts discounts.
- Get estimates for repairs and issue order # before work commences.
- A current fleet tyre policy.
- Regular fleet inspections: tread depth/pressure/repairs
- Spot tyre checks on fleet.





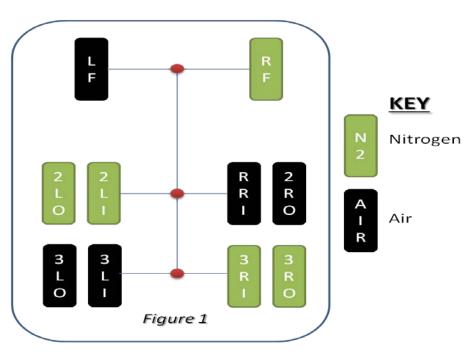
#### Nitrogen Trial, started Feb 2013



Gas	<b>Run Out MM</b>	KM/MM	Proj. KM
Air	5.45	8919	148057
Nitrogen	5.11	9508	157831



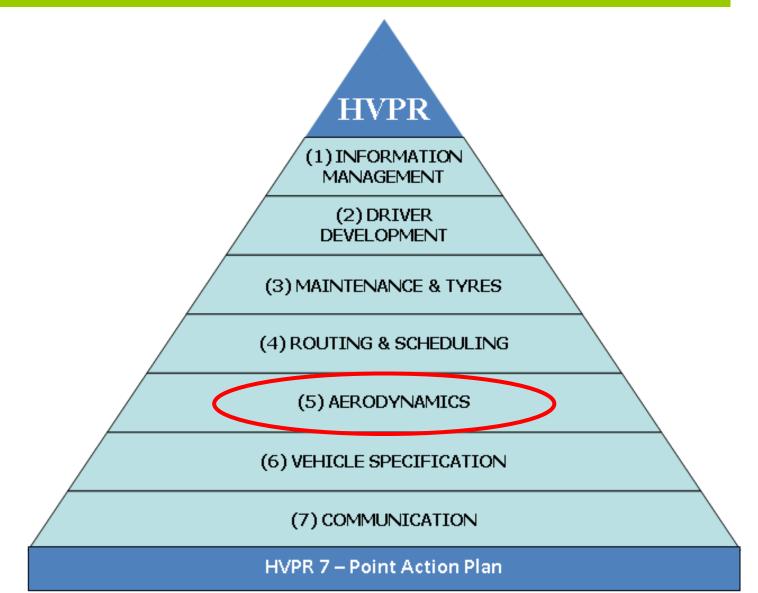






#### 5. Aerodynamics



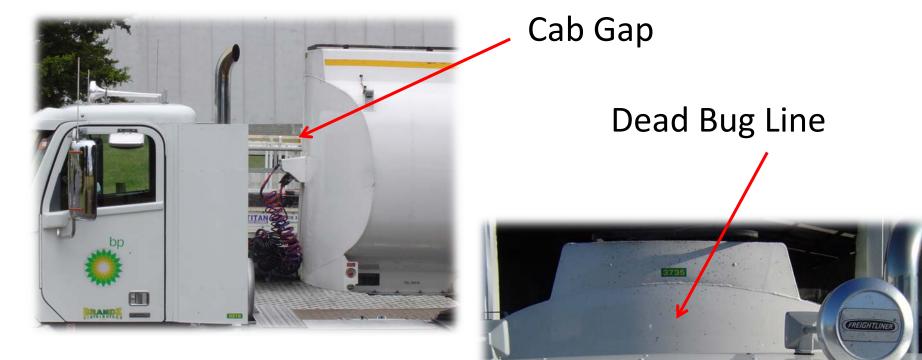






#### 5. Aerodynamics





Working with BVT Engineering Consultants CHCH

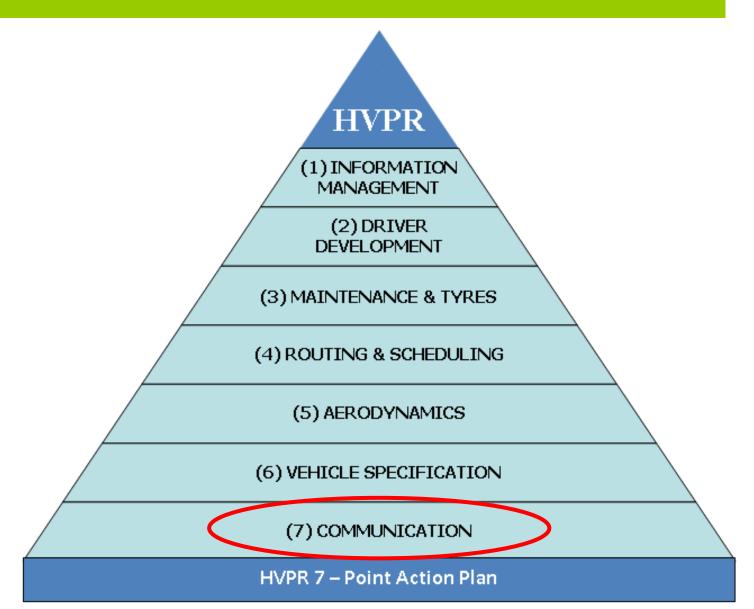






#### 7. Communication









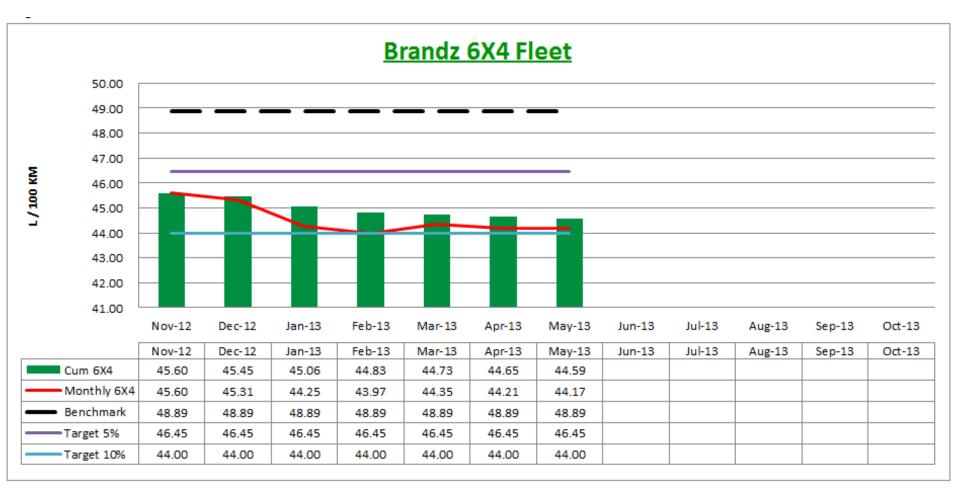
#### 7. Communication

- Display results monthly on driver league tables.
- E Road can give over speed events.
- Get driver "buy in". The "Adam" effect.
- Monthly driver incentive programme.
- Training truck fitted with Navman unit or similar for immediate driver feedback.
- Clearly show good/poor trends, as follows......





Benchmark	:	48.89l/100 km	(March/April/May 2012)	bp
Target 5%	:	46.45l/100 km	SAFED June – October	bp
Target 10%	:	44.00l/100 km	2012	











# YTD from 1st June, 2012 CO2

# Reduction 233.86 tons

# May CO2 Reduction : 23.19 tons





#### 7. Projected Savings



	FUEL SAVINGS						PROJECTED			
	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13	Apr-13	May-13	To Date	Remaining	12 Month
Brandz Distributors	6,594	7,270	8,940	8,516	9,458	8,629	7,211	56,618	36,054	92,672
Capital Fuels Fleet	1,119	3,529	849	1,717	2,007	967	936	11,124	4,680	15,805
<b>Plains Transport Fleet</b>	-676	-249	565	138	585	-413	-226	-275	-1,131	-1,406
TOTAL	7,038	10,550	10,354	10,371	12,050	9,184	7,921	67,468	39,603	107,071









#### 7. Driver Recognition









#### 7. Other Benefits from HVPR

- 75% reduction in Drive Cam events
- 70% reduction in eRoad over speed events.
- Improvement in speed compliance and safety.
- Cost saving of \$120K in 12 months on track.
- Reduction in CO2 emissions (232 tonnes 7 months).
- Good data allows sound decisions to be made.
- Nitrogen tyre inflation trial.
- Share results with customers and "add value" to relationships.
- Monitoring of company car fleet (GPS via Smartrak).



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## **Conclusion and Future**





#### Conclusion

- We began the journey 12 months ago looking at reduction in fuel usage. HVPA has identified other benefits worth chasing.
- HVPA is simply a tool box of initiatives. You select how many you want to use.
- Try one initiative at a time.
- Team approach works best.
- Closely monitor results.
- Develop a fleet management action plan





Future

- SAFED Refresher driver training after 6 months.
- Fuel data from CANBUS for each driver.
- Changes to incentive program.
- Engine Mapping.
- Monthly report meetings become quarterly.
- Smartrak installed in company cars
- TR Group ASK driver training program.





# Be Road Happy



