

## COST ANALYSIS

### COMPARISON: PolyCom treatment of 10km road, 6m width, 100mm depth vs Gravel Re-Sheeting of 10km road, 6m width, 75mm depth

#### INTRODUCTION

This scenario is the result of data collected on unsealed road treatment over a 10 year period.

Results represent achievable savings by using PolyCom Stabilising Aid at 100mm depth instead of gravel re-sheeting at 75mm depth on a 10km road of 6m width over a 5 year period.

#### ASSUMPTIONS:

- All dollar values in Australian dollars exclusive of GST
- Machinery labour and traffic control included in cost per day figure of \$5,000 per day
- Maintenance grade for 10km is \$30,000 per event per year, by 4 times per year
- Gravel cost is based upon \$18 per ton landed on site
- 900 ton of gravel is required per kilometre
- One truck load is 28 ton with round trip haul distance of 40 kilometres
- PolyCom method requires no gravel to be added
- Production of 1km per day for crew for both methods initially unless specified

#### RESULTS

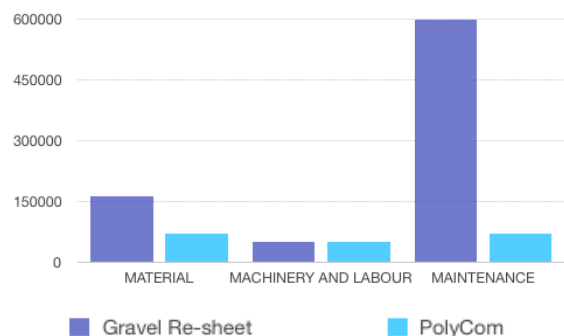
##### RE-SHEET METHOD

Gravel cost 9000 ton by \$18	\$162,000
Labour and machinery cost	\$50,000
Maintenance grading 5yrs X 4 per year	\$600,000
<b>TOTAL</b>	<b>\$812,000</b>

##### POLYCOM METHOD

Initial installation of PolyCom - 10km by 100mm depth product cost	\$72,000
Labour and machinery cost	\$50,000
Maintenance grading 5yrs by 1 per year	\$150,000
PolyCom product cost for 20mm touch up grade 5yrs by 1 per year	\$72,000
<b>TOTAL</b>	<b>\$344,000</b>
<b>POLYCOM METHOD SAVINGS</b>	<b>\$468,000</b>

COMPARATIVE COST ANALYSIS: POLYCOM VS RE-SHEET OVER PERIOD OF 5 YEARS



#### BENEFITS OF POLYCOM TREATMENT:

- 50% less dust on average
- Raw material savings of 9,000 ton
- 640 less heavy truck movements per 10km section
- 25,600 heavy truck km less
- Less damage to existing roads from gravel carting
- Reduced use of water by reducing maintenance to 1 grade per year

- Less plant and machinery required, so can be utilised elsewhere
- Less maintenance grades lead to significant fuel reduction
- Higher resistance to wet weather and storm events
- Safer and tighter running surface
- Significant reduction in carbon footprint
- Ticks innovation and social responsibility boxes and encourages easier funding acceptances