UNYDE® One

CASE STUDY

Command

# 3,680 trips, ranked by where time was lost

One month of trip records from a cement producer's limestone mines, broken down by shift, truck, cycle stage and operator.

| MINERAL | REGION | OPERATION | STARTING STAGE |
|---|---|---|---|
| Limestone | India | Open pit, two shifts | Stage 4: Integrated |

## THE OPERATION

- Limestone mines supplying a cement producer.
- A heavy earth-moving fleet on fixed routes between faces and crushers, run on two shifts.
- One month of records: 3,680 trips and 3,38,400 tonnes moved.

## DISCIPLINES

Command · Fleet · Fuel

## THE PROBLEM

Cycle times and output were reviewed as monthly averages, which hid where time was lost, on which shift and by which trucks.

## HOW THE WORK IS PHASED

1. **Analyse.** Every trip split into queue, load, haul, dump and return.
2. **Rank.** Losses ranked by the time and tonnes they cost.
3. **Extend.** Fleet and fuel measurement for 200 machines across the company's mines.

IN DETAIL

| | |
|---|---|
| **Second shift** | Output shortfall traced to smaller trucks parked for the shift |
| **Idle time** | Idle recorded as empty haul, separated out |
| **Large trucks** | Running below their benchmark cycle |
| **Cycle outliers** | A long tail of slow cycles, isolated by route |
| **Untagged material** | Trips without a material tag, a royalty exposure |
| **Operators** | Cycle-time spread across operators on the same route |

WHAT CHANGES ON SITE

| | |
|---|---|
| Cycle time as a monthly average | → **Cycle split into queue, load, haul and dump** |
| Idle recorded as haul | → **Idle separated from empty haul** |
| Shift output compared in totals | → **Shortfall traced to fleet parked on one shift** |
| Untagged material | → **Material tagged per trip** |

NEXT STEP

## Discuss an operation like this one.

Tell us where your sites are today and what is installed. info@unyde.in · +91 99719 17137

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Clients are not named in Unyde case studies. unyde.in/mining/unydeone/case-studies/limestone-trip-data/