## Case Study - Tire Manufacturing Industry



## Client's Challenge

- Inconsistent output on TBM machines
- Resource optimization
- Low Productivity due to fatigue
- Identification and reduction of losses

PMI's Approach


## Results

- Introduce periodic rotation within shift timing with other department - Variation in cycle time and or impact of fatigue can be taken care by off


 by introduction of fatigue
- Fatigue reduction and productivity improvement from ROR module

| Tyre Type | Estimated time | Avg. time with <br> variation - inclusion of <br> all losses | \% Variation | Avg. time with <br> variation - excluding <br> non cyclic activity | \% Variation |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Product 1 | $\mathbf{6 4 . 3 0}$ | 72.5 | $12.75 \%$ | 69.8 | $8.55 \%$ |
| Product 2 | 72.30 | 81.3 | $12.45 \%$ | 78.4 | $8.44 \%$ |
| Product 3 | 75.20 | 85 | $13.03 \%$ | 81.2 | $7.98 \%$ |


*Data shown here has been modified to protect client confidentiality


