

# WHEELS INDIA LIMITED (TSF Group Company)

Air Suspension -The Ride thus far....

Srivats Ram, MD, Wheels India

# Why do we need Suspension?

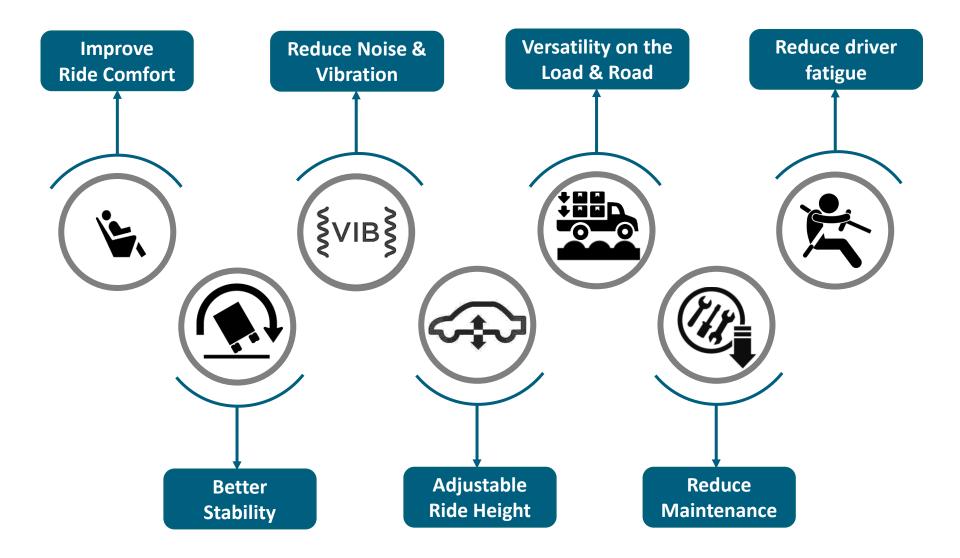
Ride

Isolate road shocks from the vehicle chassis

Enhance road grip, acceleration, braking, and cornering safety

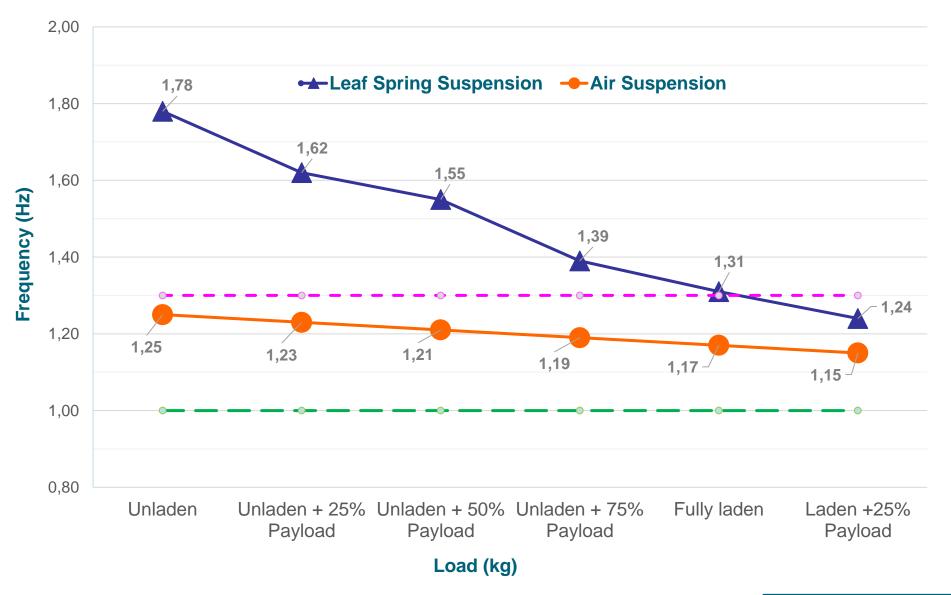


## **Advantages of an Air Suspension System**



(My) Wheels India Limited

#### **Ride Map Comparison**



(Wheels India Limited

## **Our Journey with Air Suspension**

- Our first steps Dunlop technology PTC buses 1988
- In the 1990s, re-designing the suspension to suit the Indian road and usage patterns
- In the decade, we supplied close to 1,000 private bus operators with retro-fitted air suspension
- Established and trained a service network across the country
- From 2000, started supplying OEMs, as air suspension was introduced as an option.
- Started fitment to state transport undertakings and helped them define specs and service standards
- Have supplied air suspension systems to over 100,000 buses on Indian roads
- There are a few hundred vehicles on roads in Sri Lanka, Thailand, Mauritius and East Africa.
- Development of ECAS as an alternative.



## **BUS** Application

#### **For Normal Axle**



**FRONT AIR SUSPENSION** (Axle Rating : 5 Ton to 8 Ton)

For Deep Drop Axle





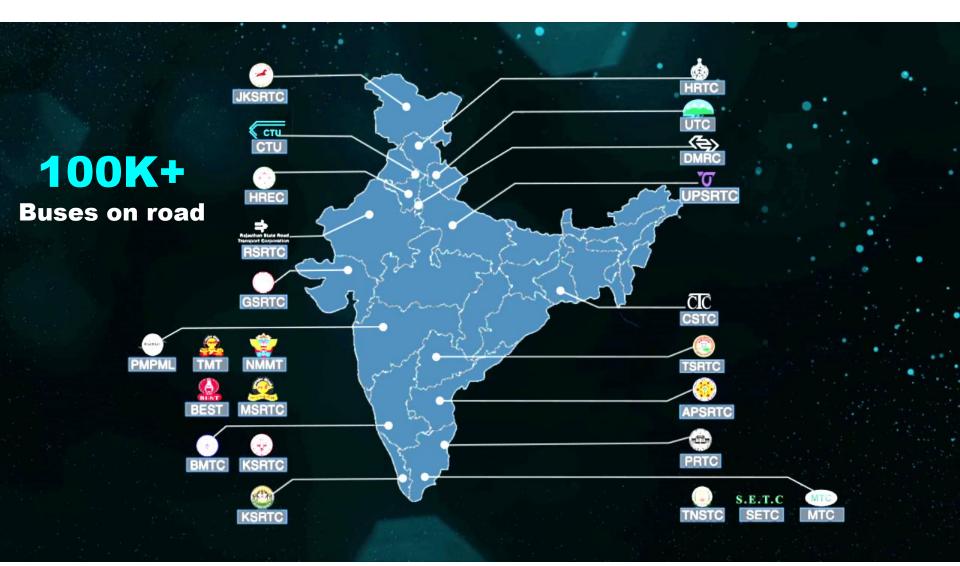
#### REAR AIR SUSPENSION (Axle Rating : 10 Ton to 14.7 Ton)

#### **Underslung Design**



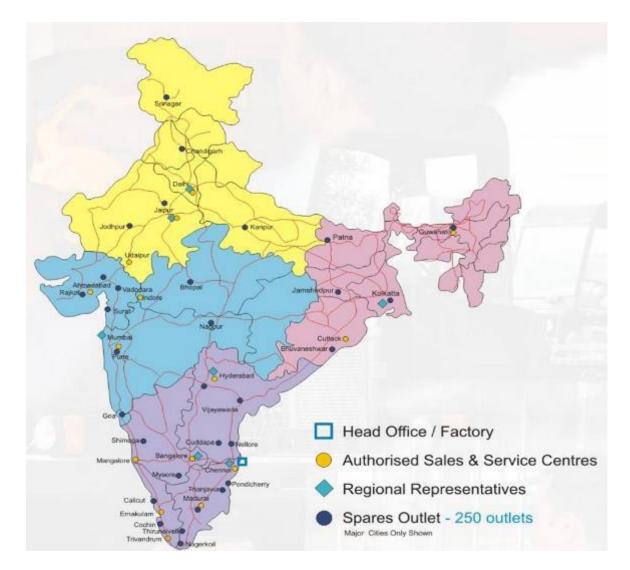


## WIL Air suspension population in Major STU's





## **Customer Support**









#### Behind the product lies a continuously expanding support and parts network across the country



## **Prime Customers**





### **Our Aspirations in Indonesia**

- Need a local partner for retro-fitment and service
- Work with local bus body builders in Indonesia
- Need to establish a service network for fitted buses
- Can look at localizing of some non-critical parts, if volumes come







