

# Revolutionizing Road Infra with Modern Equipment, Technologies, Sustainable Materials and Policy Guidelines

*February 29<sup>th</sup> - March 1<sup>st</sup>, 2024, Manekshaw Centre, New Delhi*

## Data Systems for Road Asset Management *Tony Mathew, Transport Research Laboratory (TRL)*



**International Road Federation  
India Chapter**

[www.indiairf.com](http://www.indiairf.com) |  [india@irf.org.in](mailto:india@irf.org.in)

# Assets of MoRTH/ NHAH

- \* Approx. 1,46,000 km of road network
- \* 1,50,000 bridges
- \* Other structures – drains, culverts, retaining structures, etc.
- \* Other assets – Crash barriers, Street lighting, traffic signs, etc.

25 Lakh Crore  
INR)-- Approx  
Asset Value of  
National  
Highways

If NHAH is a private company, it's asset value will come within the first 10 of the Fortune 500 companies in the World

**Data-led Asset  
Management  
is key**

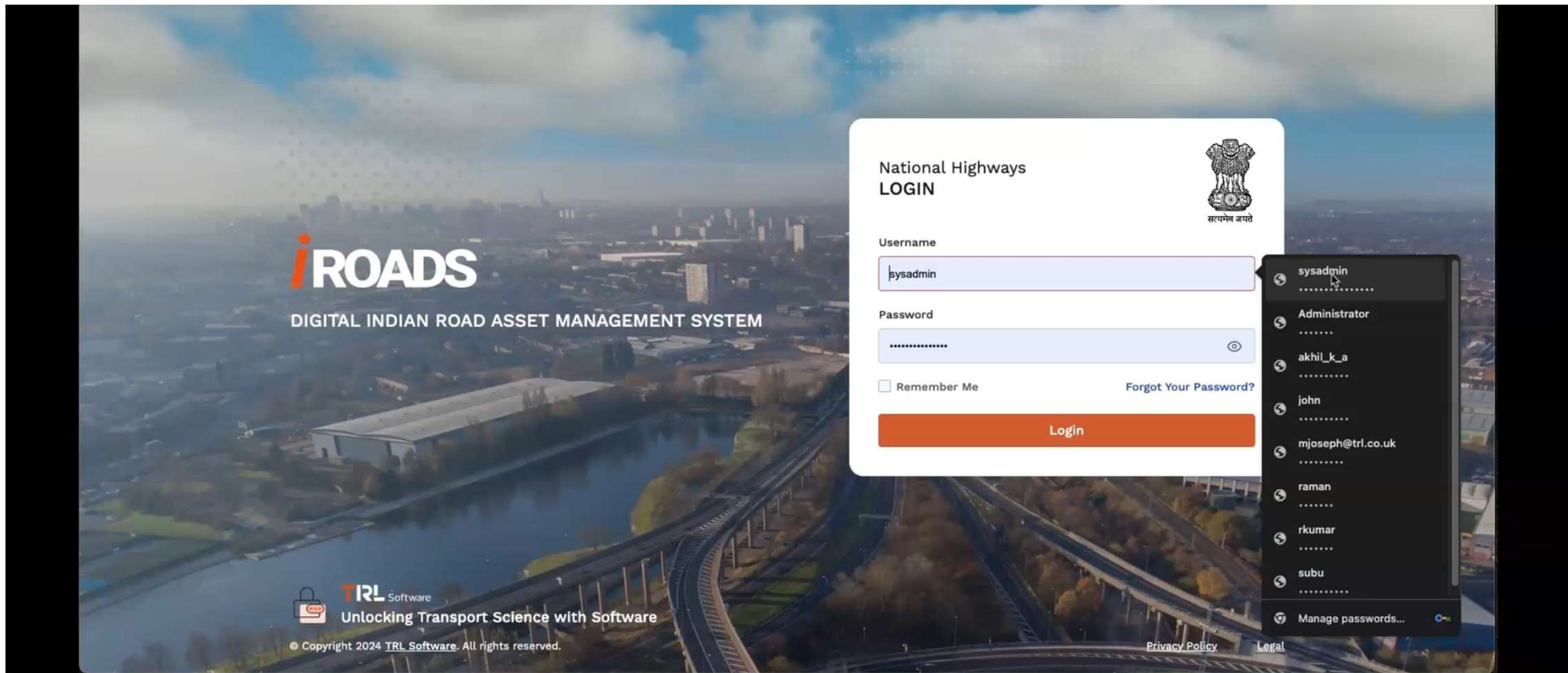
Approx. 60% of  
value



# iROADS - Digital Road Asset Management Platform



Cloud-native, globally available, Software-as-Service solution (SaaS)



# iROADS - The functional view



**Total Asset Management: One digital platform for strategy & planning, tactical execution and operations management**

Functional Areas

Enterprise Asset Management & RMMS

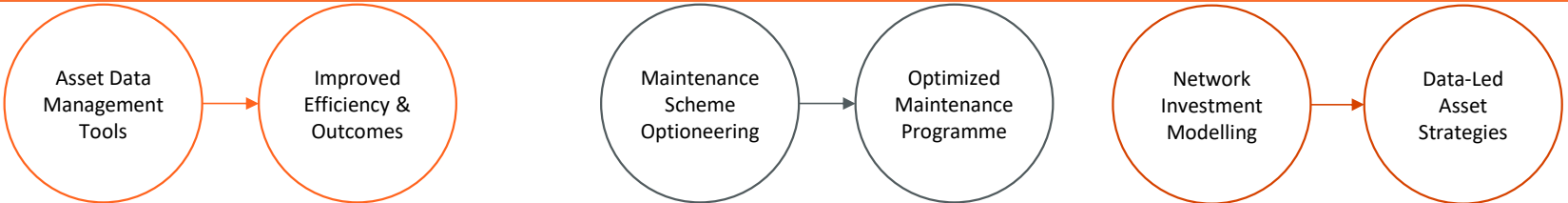
Asset Performance Management

Asset Investment Planning

The Benefits



Value Proposition



Decision Types

Operational Decisions

Tactical Decisions

Strategic Decisions

Activities

Maintenance activities management: inspections, surveys, planning & scheduling, managing works

Pavement scheme optioneering, maintenance programme planning

Investment scenario planning, multi-year analyses, network KPIs



Thank You

[tmathew@trl.co.uk](mailto:tmathew@trl.co.uk)

+91 9971491479

**Tony Mathew** ✓

Head - Delivery & Operations

TRL · The University of Birmingham  
South Delhi, Delhi, India



International Road Federation - India Chapter  
[www.indiairf.com](http://www.indiairf.com) | [india@irf.org.in](mailto:india@irf.org.in)

*Revolutionizing Road Infra with Modern Equipment, Technologies, Sustainable Materials and Policy Guidelines, February 29th - March 1st, 2024, Manekshaw Centre, New Delhi*