



# Light Rail Safety and Standards Board

LRSSB

Chief Executive - Peter Cushing

# What we will do!

**The LRSSB will improve safety performance and standards development through shared learning and the spread of best practice with the use of integrated governance and risk management systems.**

**By developing systems to aid in the management of risk, and standards which offer guidance to its members, the LRSSB will encourage the delivery of improved and safer light rail networks for the benefit of stakeholders.**

**This will be delivered in a professional environment which promotes an open, collaborative, learning culture.**

# What LRSSB have done so far??

# Standards Ready for Publication

- ▶ LRG 1.0 Tramway Principles and Guidance (TPG)
- ▶ LRG 2.0 Non-Motorised Crossings
- ▶ LRG 3.0 Management of Electro Magnetic Compatibility (EMC) Guidance
- ▶ LRG 5.0 - Tramway Audible Warning Acoustic Test Guidance
- Under Review
- ▶ LRG 4.0 Signing and Marking of Tramways and Highway Interface Guidance

# Standards Process and Proposals Update

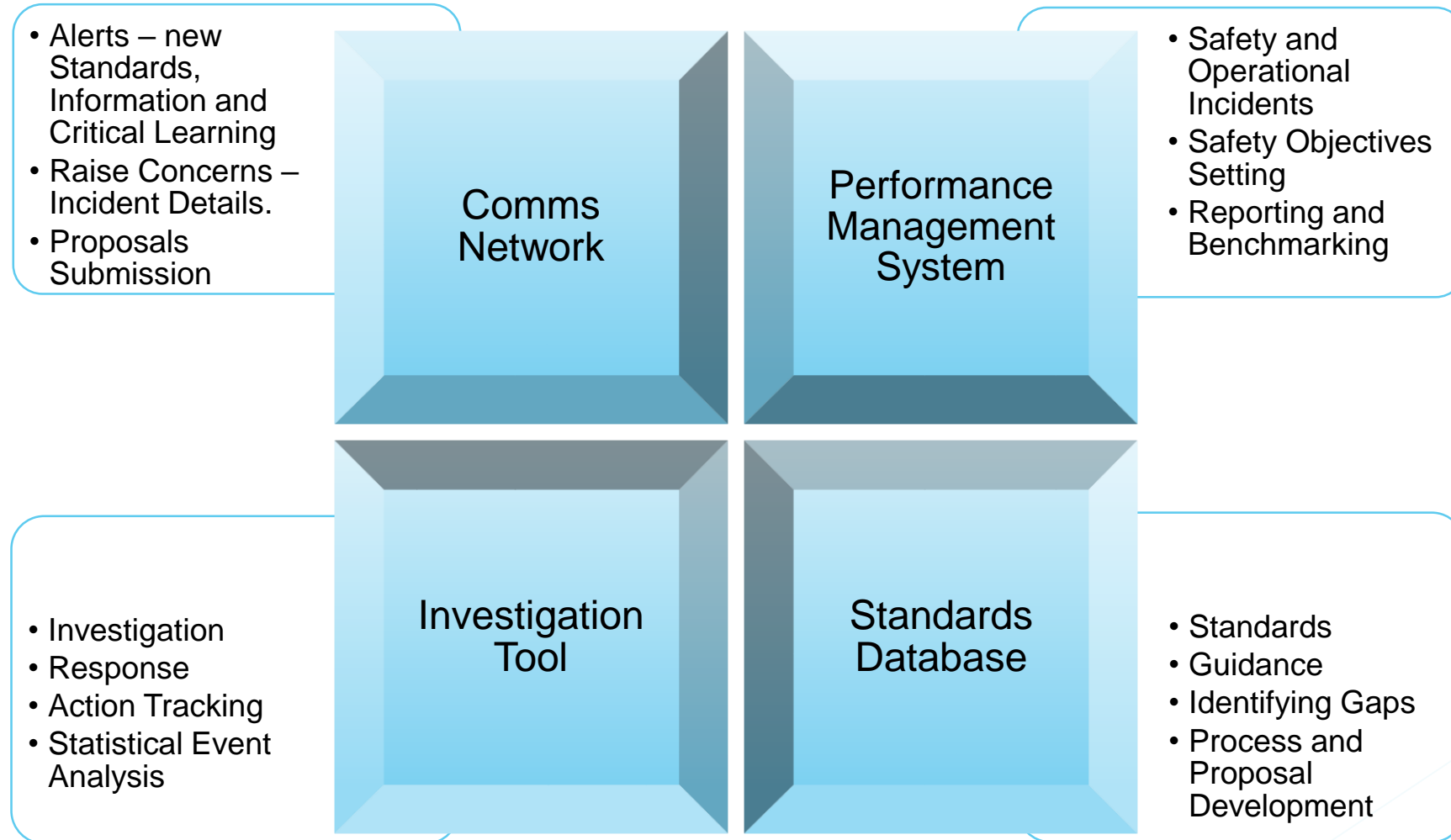


- ▶ Management of Documents and Proposals System
- ▶ Development Approval and Issue
- ▶ Defines Procedure for Creation, Revision and Withdrawal of Standards
- ▶ Manage Deviations
- ▶ Monitoring Effectiveness
- ▶ Use of TAIR Platform
- ▶ Auditability and Overview of Decision Making Process
- ▶ ACOPS/ Guidance/ Standards/ Policies/ Procedures/ Rail Specific H&S Legislation.

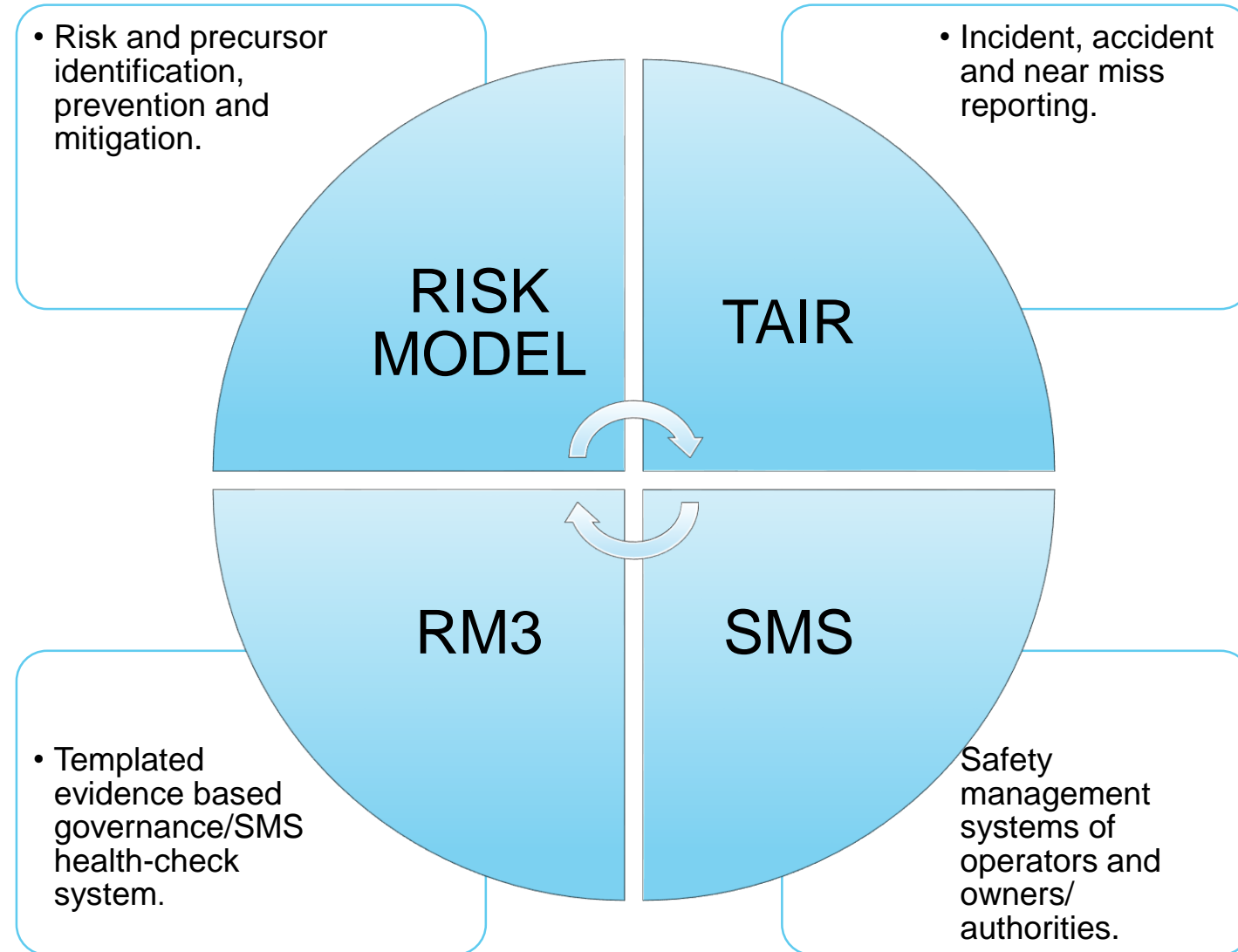
# TAIR, Risk Model and RM3

- ▶ TAIR, Risk Model and RM3 Update
- ▶ TAIR Training Provision
- ▶ Live Introduction 8<sup>th</sup> July 2019
- ▶ Phased Approach
- ▶ Risk Model – Seven Systems Commenced
- ▶ Risk Model – Five Systems over 60% Complete
- ▶ RM3 – Training to be arranged
- ▶ Audit Criteria, Consistent and Standardised Structure

# TAIR Benefits



# Risk Model Deployment





# RM3 Model:

## Monitoring, Audit and Review

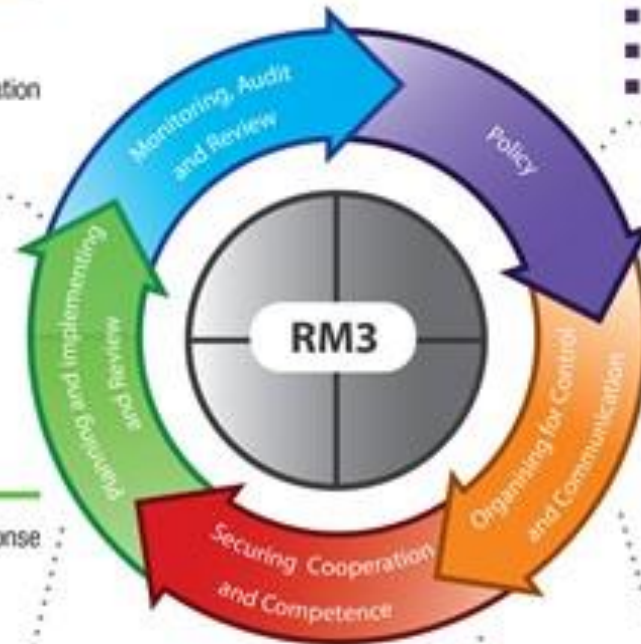
- Corrective action
- Management review
- Incident reporting & investigation
- Audit
- Proactive monitoring

## Policy

- Policy
- Leadership
- Governance
- Written SMS

## Planning and implementing

- Emergency planning & response
- Control of contractors
- Management of change
- Asset management
- Safe systems
- Workload planning
- Target setting
- Risk management



## Organising for Control and Communication

- Organisational structure
- Allocation of responsibilities
- Management and supervisory accountability
- Internal communication
- System safety and operational interfaces
- Safety Culture
- Documentation, records & knowledge management

## Securing Cooperation and Competence

- Worker involvement
- Competence Management

# Lab Testing Update



- ▶ Lab Testing of Vigilance Systems
- ▶ Ian Rowe Associates Limited Simulator
- ▶ Three Suppliers to be Tested
- ▶ Guardian System to be Assessed via Croydon
- ▶ Outcomes Expected in September/October 2019
- ▶ Speed control systems

# Website and Graduates Update



- ▶ ARHA have developed the LRSSB website, which has now gone live.
- ▶ Portal for Member Access to TAIR
- ▶ Positions Advertised for Two Graduate Placements (Birmingham University)
- ▶ Placements within the Industry to be arranged
- ▶ Reciprocal Placements from Duty Holders to be arranged

# Year 2 and 3

- ▶ Tram-train solution
- ▶ Risk model refinement and enhancement
- ▶ TAIR development
- ▶ RM3
- ▶ Close out Sandilands Recommendations
- ▶ Commercialisation
- ▶ Approved suppliers
- ▶ LRAIB
- ▶ ICP accreditation

# Summary

- ▶ A professional safety and standards body.
- ▶ Improved compliance, general and operational safety by ensuring a common, professional approach.
- ▶ Greater availability and accuracy of industry risk levels, safety data and analytics.
- ▶ Stronger representation for UK systems at home and abroad.
- ▶ More resilient approach for operators/owners/authorities.
- ▶ Improved industry confidence within central and local government.
- ▶ Reduced cost of operation and development.
- ▶ The development of UK, light rail specific, industry standards.
- ▶ Standardised and measurable common safety management framework.
- ▶ Excellence in Health and Safety Management and Risk Control (RM3)
- ▶ Enhanced communication and application of innovation and best practice.

**Thank You**

