

# Critical Risk Network: Level Crossings

Level Crossing Forum  
30 November 2016



# What is a Critical Risk Network?

- Critical Risk Network - a dedicated cross-business focus
- Leads KiwiRail's safety improvement programme
- Subject matter experts from across the business
- Action plan for systematically reducing risk
- Executive sponsor



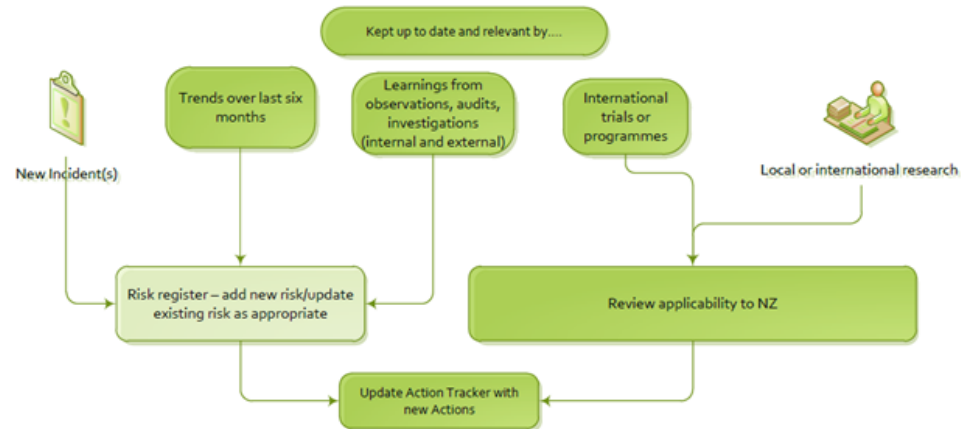
# Why a CRN for level crossings?

- Level crossings - a key risk
  - Potential for a high consequence event
  - High profile physical intersection point between rail and the public
  - Safety trends generally improving, but ... areas of concern and changing environment contributing to increased risk
- Level crossings – lots of them
  - Public road: 1,292
  - Private road: 1,181
  - Pedestrian: 693



# Underpinning the CRN

- KiwiRail's commitment to Zero Harm
- Executive level sponsorship
  - Strategy
  - Action Plan – Do – Review
  - Budget
  - Monitoring and reporting for progress and accountability
  - Measures of success

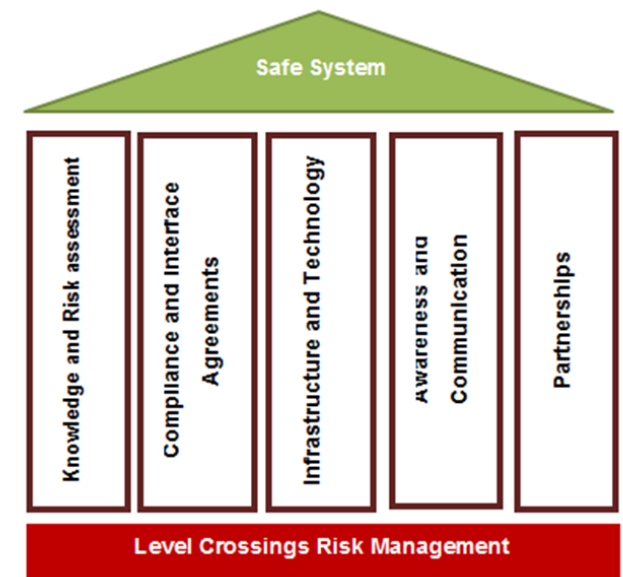


# Action plan – 5 pillars

## Pillar 1: Knowledge and Risk Assessment

... the systematic use of information to improve **knowledge** and appropriately **assess risk** at level crossings ... leading to an informed prioritisation and resource allocation for level crossing safety investment.

- **ALCAM improvements**
- **Incident data gathering and analysis**
- **Policy and procedure**

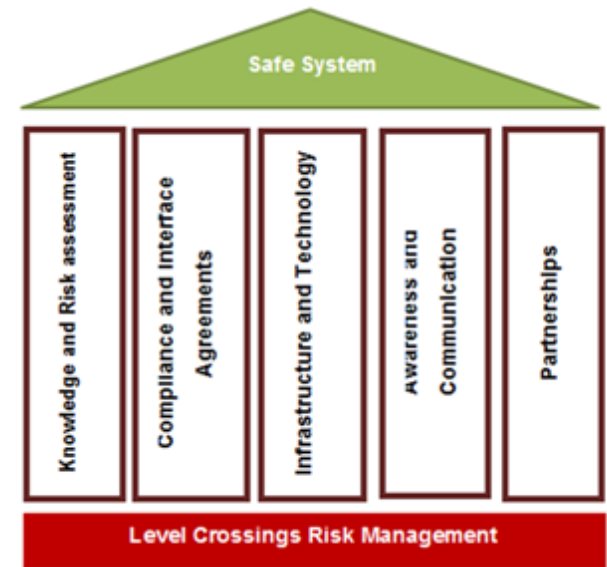


# Action plan – 5 pillars

## Pillar 2: Compliance and Interface Agreements

... all crossings to achieve compliance with safety requirements ... an interface agreement in place ... all parties are clear on accountabilities ...

- **Compliance project**
- **Interface agreements**

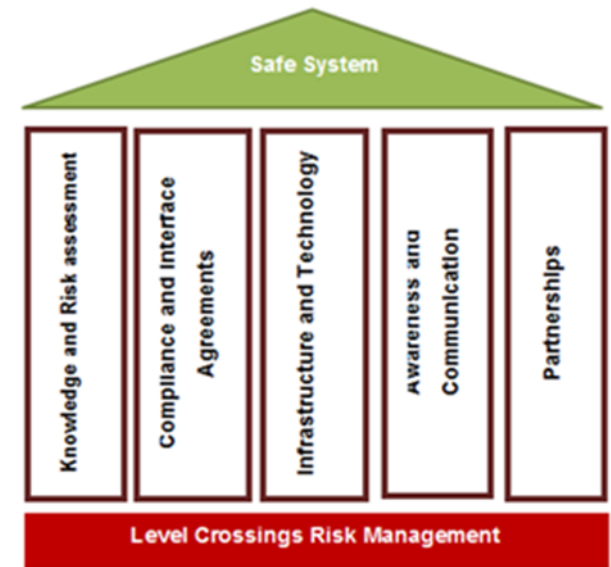


# Action plan – 5 pillars

## Pillar 3: Infrastructure and Technology

... the availability of appropriate **infrastructure** solutions ... evaluation and introduction of new **technology**.

- Upgrade and renew KiwiRail's infrastructure
- New technology trials with RCAs

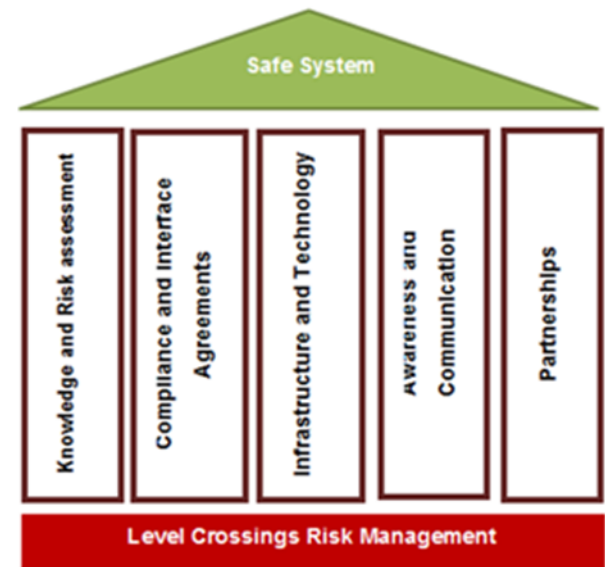


# Action plan – 5 pillars

## Pillar 4: Awareness and Communication

... effective **communication** with users ... users **aware** of expected behaviours and understand that these will be enforced...

- Improving the reporting of near miss incidents
- KiwiRail input to district and regional planning documents re level crossing safety
- Communication initiatives



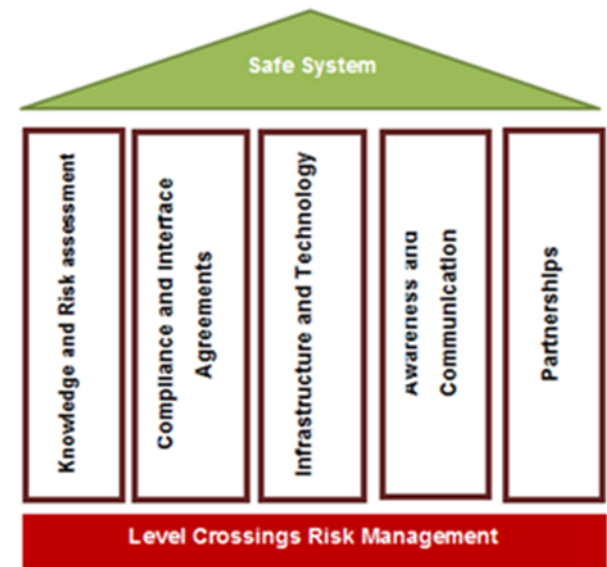


# Action plan – 5 pillars

## Pillar 5: Partnerships

*... KiwiRail working in, and advocating for, partnerships with other level crossing stakeholders to together deliver better safety outcomes...*

- **Joint work plans**
- **National level crossing strategy**
- **Partnership/leadership**



# Measuring success

- A long-term reduction in fatalities and serious injuries, a significant reduction in near misses and a lowering of the risk profile within ALCAM.
- Report card
  - Lead indicators
  - Lag indicators
- Partners working towards common objective



# Level crossing safety - bigger picture

- KiwiRail's several roles
  - rail operator, access provider, infrastructure maintainer, property manager
- KiwiRail just one of many stakeholders re level crossing safety
  - shared responsibility
- How to work together?

*“A combined voice advocating for level crossing safety, backed up by a commitment to communicate effectively and to make demonstrable physical improvements is needed to make best progress.”?*

*A “level crossing safety partnership leadership group”?*

**To work *together* to produce *safer systems* for *our* level crossings.**



# Questions?

- The right national framework?
- Some big (enough) goals?
  - Grade Separation
  - Crossing closure
  - Technology

