

Safer Roads and Roadsides!

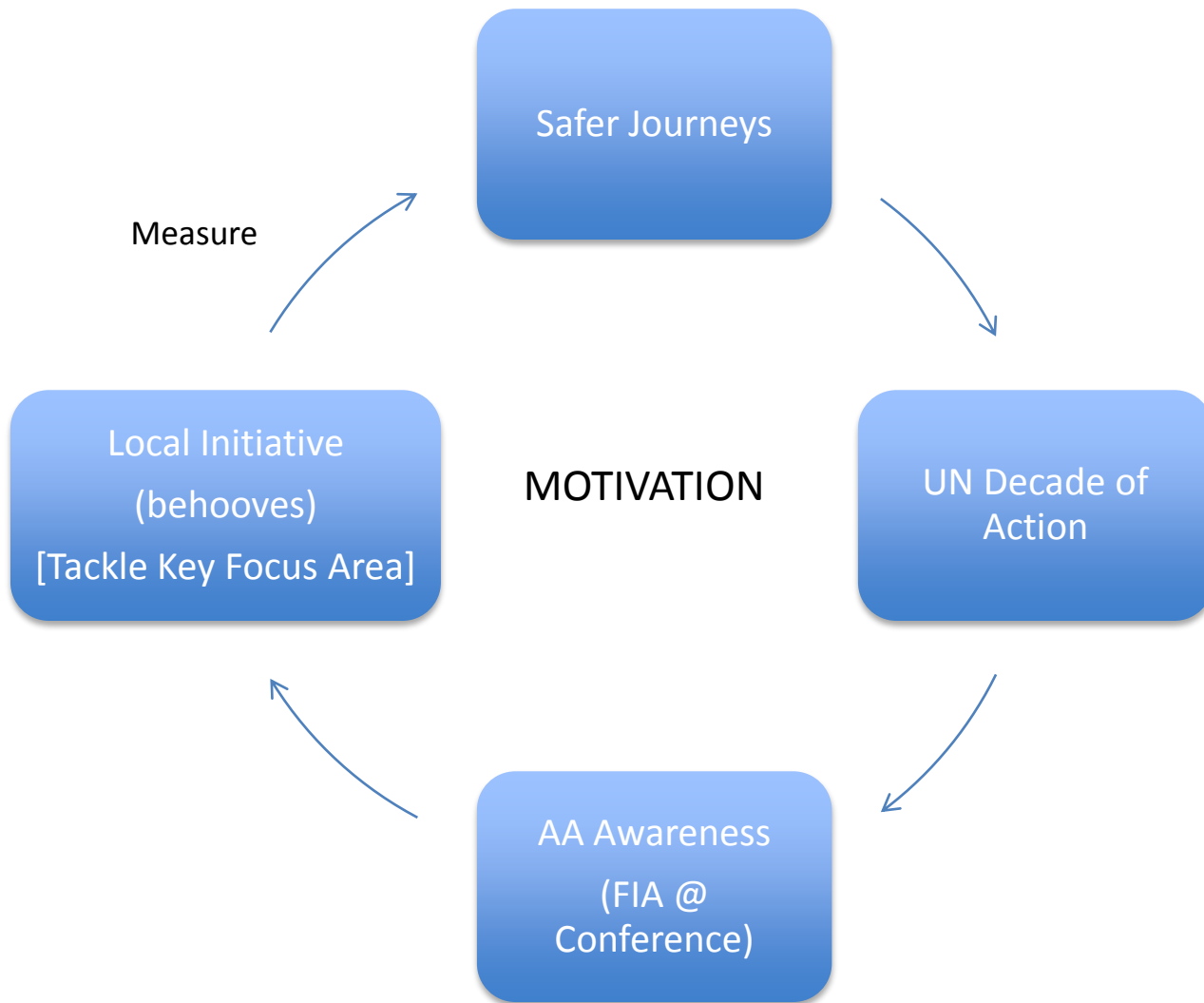
*Even the Small Things Can Make a
Difference – Let's Tackle One!*

RCA FORUM 30 November 2012



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Safe System

System: a set of **connected** things or parts forming a **complex whole**, in particular a set of things **working together** as parts of.....

Four Key Focus Areas

- *Safe Roads and Roadsides*
- *Safe Speeds*
- *Safe Vehicles*
- *Safe Road Use*



System: An organised set of **interrelated** ideas or principles

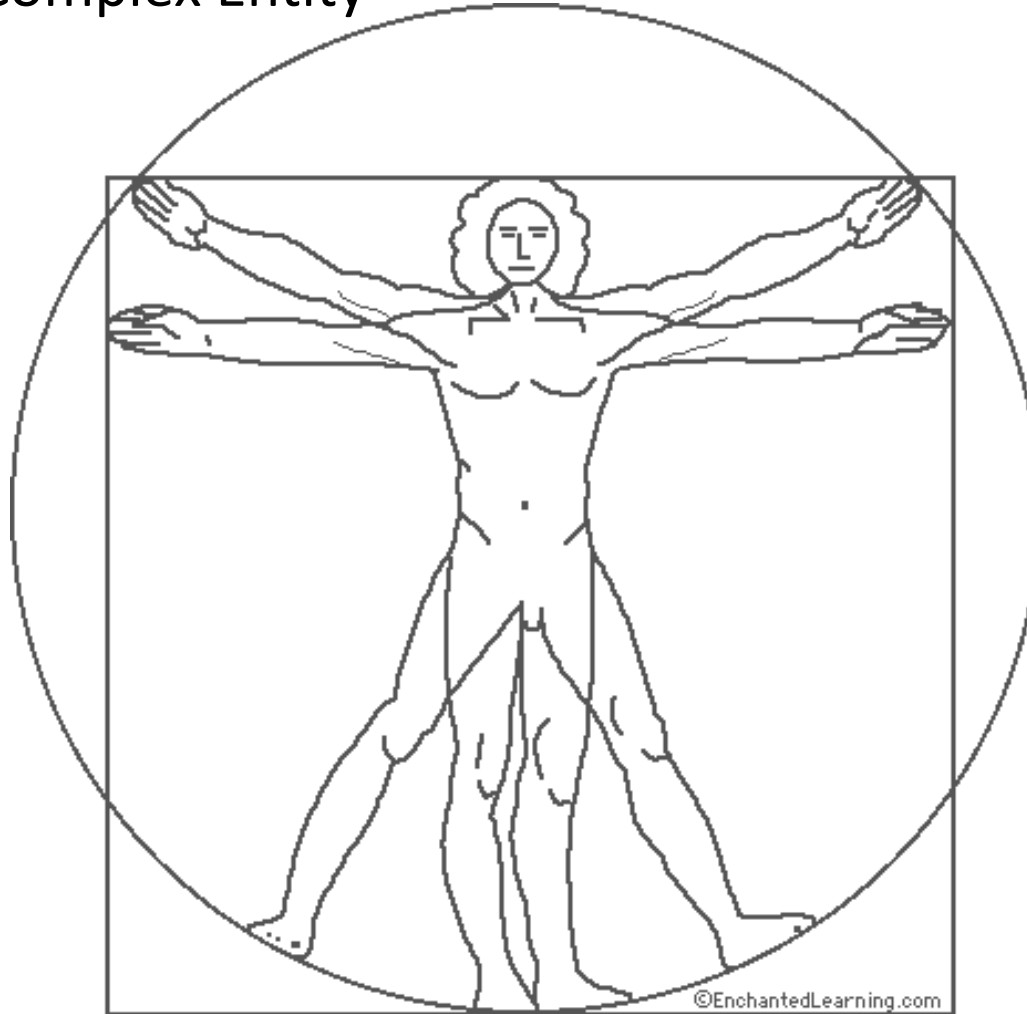
System: a group or combination of interrelated, interdependent, or **interacting** elements **forming a collective** entity



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System - Complex Entity



Interacting Elements

- Nervous
- Reproductive
- Vascular
- Digestive
- Lymphatic
- Skeletal
- Muscular
- Respiratory

.....
.....



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Safe System Approach the Four Key Focus Areas

- **Safe Roads and Roadsides**
- Safe Speeds
- Safe Vehicles
- Safe Road Use



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Our Example

Vulnerable Road Users

- Young Inexperienced Drivers
- Push Cyclists
- Motor Cyclists
- **Pedestrians**
 - Elderly
 - Young



Most at Risk



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Proven Traffic Engineering Measures to Assist Pedestrians

- Crossing the road in Two Installments
 - Refuges (convert two-way into 2 x one-way)
 - Either painted or physical
- Certainty of Decision Making,
 - Assessment of Danger – Face traffic – Be Seen
- Not a Personal Protection Barrier
 - Safe System Approach



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Looking Good So Far!

But is it all (LGSF)?



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Local Incident #1

- **Motorcyclist** seriously injured in Palmerston North crash
- *9:31 AM Sunday Mar 11, 2012*
- A motorcyclist has been **seriously injured** in Palmerston North.
- He was involved in an accident at the intersection of State Highway 56 and Carey Street in Longburn last night.
- The 25 year-old hit metal bars on a traffic island and was thrown from his motorbike.
- He was taken to **hospital in a serious** condition.



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Pedestrian Refuge Longburn



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Local Incident #2

Rider badly hurt in crash

Kathryn King | Monday, February 7, 2011 8:06

The aftermath: A young man is believed to be in a critical condition following a **motorcycle** crash yesterday. A young Wanganui man **is lucky to be alive** following a motorcycle crash in Springvale yesterday. Whanganui police Acting Sergeant



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Local Incident #2

Rider badly hurt in crash

Kathryn King | Monday, February 7, 2011 8:06

The aftermath: A young man is believed to be in a critical condition following a motorcycle crash yesterday. A young Whanganui man is lucky to be alive following a motorcycle crash in Springvale yesterday. Whanganui police Acting Sergeant



MCpedestrian island
...run into its safety rail....



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Pedestrian Refuge London Street



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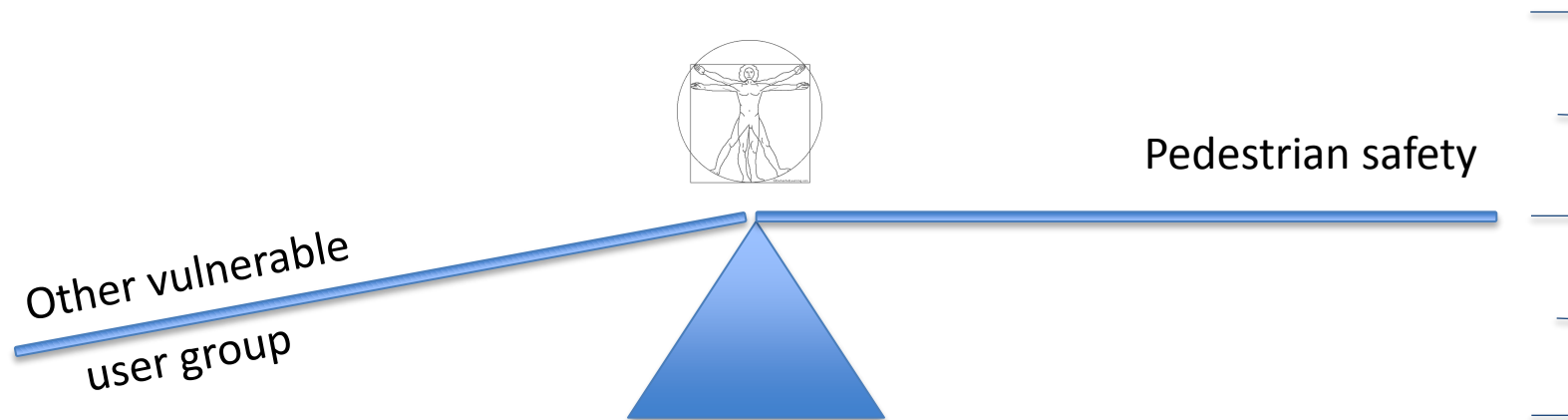


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Common Theme

- The set of things, or elements of the Total System not quite working together ...



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Bad? - How it Fix It

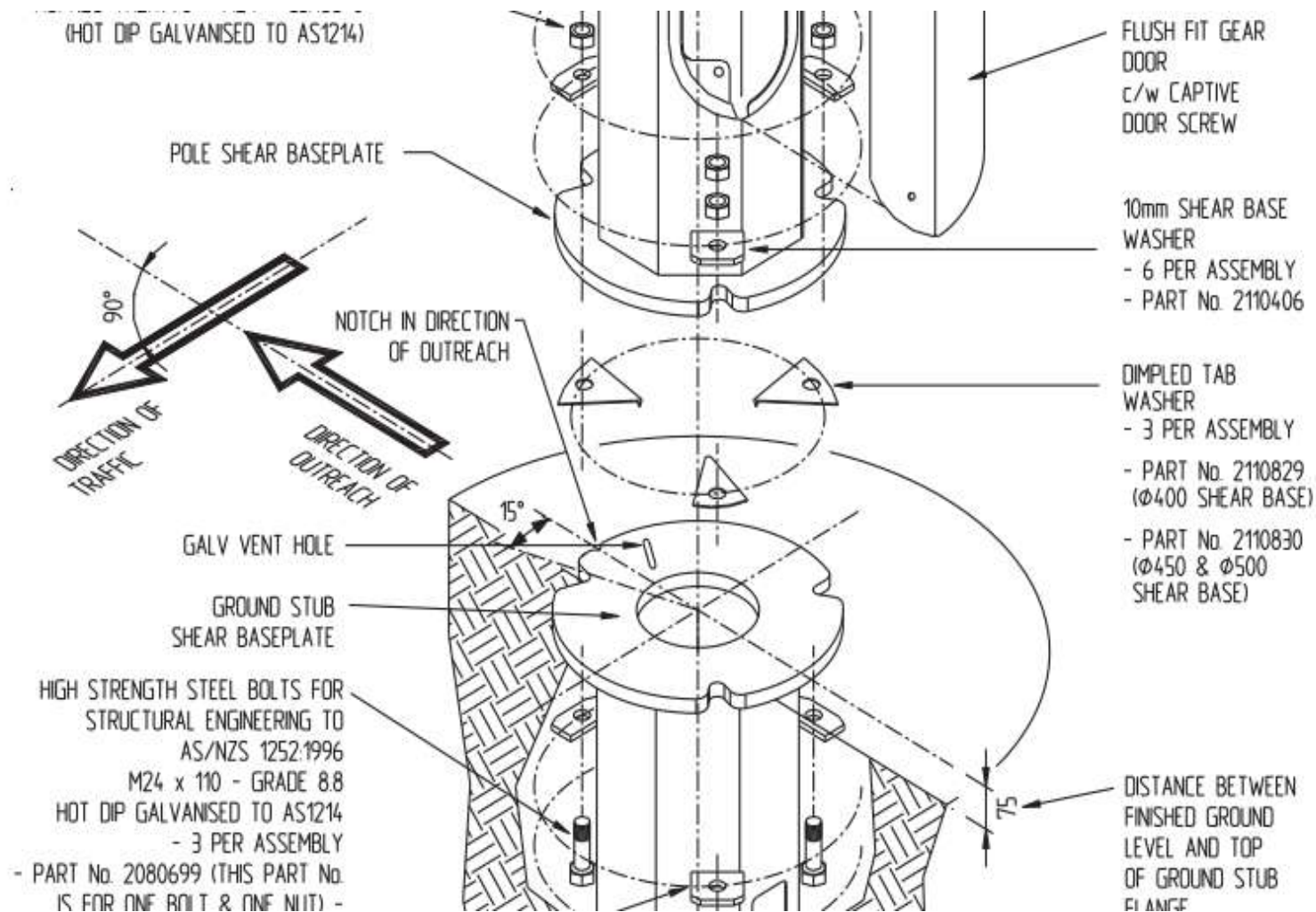
- Widespread according to literature (18%-42%)
- Clear zone of at least two, and preferably 3.0m from the kerb edge
 - Not always possible
 - Define roadside (L&R)
- Remove unnecessary road side hazards within the design stages of a scheme. (WWY?)
- New potential hazards are frangible



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(HOT DIP GALVANISED TO AS1214)



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Completely Frangible



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Influencers



- Planners
- Engineers
- Policy Makers
- Enforcement Officers
- Vehicle Manufacturers
- Importers
- Educators
- Drivers



System
Designers



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Forward Gear

- Simple initiatives are part of whole system
- Standards, literature and guidelines galore
- Careful thought in context
- Experienced practitioners, skilled teams
- Checklists, reviewing
- Best Practice, training, integrate
- Measure yourself against Safer Journeys Vision



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The End



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