

Safe System Approach

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Eastern Alliance for Safe and Sustainable Transport



Ministry of Economy and Sustainable Development





About EASST

EASST is a **partnership** of local road safety organisations:

- Albania
- Armenia
 Latvia
- Azerbaijan
 Moldova
- Georgia
 Russia
- Kazakhstan
 Ukraine

- Kyrgyzstan

- Belarus
 Mongolia
- Greece
 Tajikistan



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The Global Road Safety Plan



Road Safety Management



Safer Road Users



Safer Roads and Mobility



Safer Vehicles

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Post Crash Response



Thinking about road safety has changed over time









Crash caused by: Bad luck

<u>Research into:</u> What happened

<u>Measures:</u> Ad hoc

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Crash caused by: Really bad drivers

<u>Research into:</u> Who

<u>Measures:</u> Educate, punish

"The nut behind the wheel."

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<u>Crash caused by:</u> Road user or vehicle or road

<u>Research into:</u> The cause

<u>Measures:</u> Education, enforcement, engineering – 3 E's

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<u>Crash caused by:</u> Multi-causal approach

<u>Research into:</u> Which causes, technical improvements

<u>Measures:</u> Technical solutions for vehicles and roads

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1985/90 till now



<u>Crash caused by:</u> Result of an integral road system

<u>Research into:</u> Multi-dimensional including economic analysis

Measures: Adapt road system to road user

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Traditional v Safe System

| | Traditional Approach | Safe System | |
|----------------------|--|--|--|
| Problem? | Try to prevent crashes | Prevent crashes resulting in death and injury | |
| Goal? | Reduce the number of fatalities and injuries | Zero fatalities and serious injuries | |
| Cause of problem? | Bad road users and rule breakers | People make mistakes and are vulnerable. Quality and design of infrastructure. Speeds. Management and guidance. | |
| Who is responsible? | Individual road users | Shared responsibility – individuals and system designers | |
| | | | |

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Vision Zero



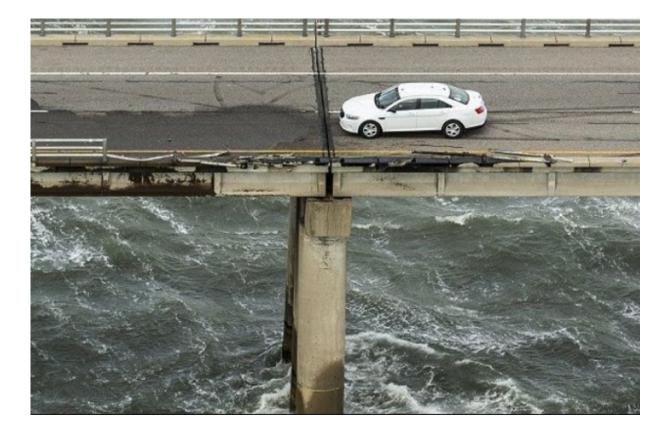
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1997 Swedish Parliament – 'Putting people first'



Key principles

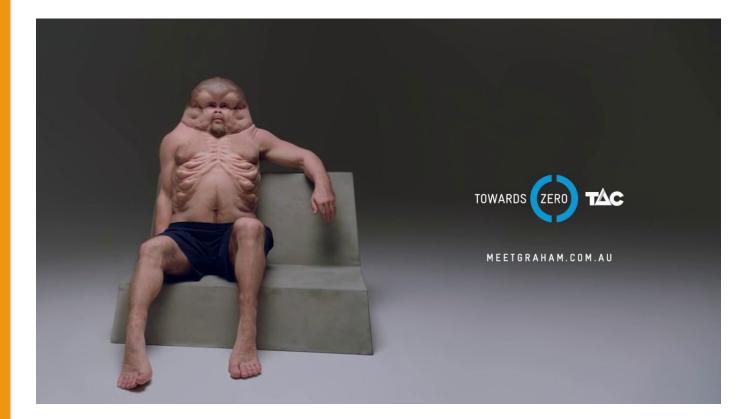
Recognise that **People Make Mistakes**





Key principles

Human Bodies have little tolerance for crash forces





Key principles

Road Safety is a shared responsibility





Haddon's Matrix

| PHASE | | FACTORS | | |
|-----------------|---|---|------------------------------------|---|
| | | HUMAN | VEHICLES & EQUIPMENT | ENVIRON- MENT |
| BEFORE CRASH | CRASH PREVENTION | Information Attitudes Behaviour Enforcement | Maintenance Speed management | Road design Speed limits Pedestrian facilities |
| CRASH | INJURY PREVENTION DURING CRASH | Using eat belts & car seats Drink Driving Distraction | Seat belts Car seats | Crash barriers Safe & forgiving roads |
| AFTER CRASH | LIFE SAVING | First aid skills Access to rescue aid | Cutting equipment Fire risk | Rescue facilities Congestion |



Forgiving Roads

Good design can encourage good behaviour





Bad design can kill and injure







Pedestrian fatalities increase with speed

5% cut in average speed

Can result in a **30%** reduction in fatal road crashes



Education & Enforcement



Enforcement is not about Catching and punishing

It is about prevention

Should be done together





We all have a role to play in reducing road death and injury



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Thank you

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