

# NZTA Rural Median Trial

Bridget Burdett



## Presentation Outline

The head-on crash problem

The safe system approach

NZTA Rural Median trial

How to change the system





# Fatal road accident in Waikato

By Anna Leask

5:26 PM Sunday Aug 21, 2011

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10

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Two people are dead and two critically injured after a crash involving two vehicles in the Waikato this afternoon.

The Police Serious Crash Investigation Team are currently at the scene of the two-car crash at Gordonton Road near Taupiri.

A St John spokesman said two people had critical injuries, and two of those were still trapped in a vehicle. The cause of the crash was unknown.

Road closures are in place at Ballard and Whitiakahu Roads.

**ARE YOU IN THE AREA? DID YOU WITNESS THE CRASH?**

[Email the Herald Newsdesk](#)

By Anna Leask | [Email Anna](#)



Photo / NZ Herald

+ EXPAND

Drive out of

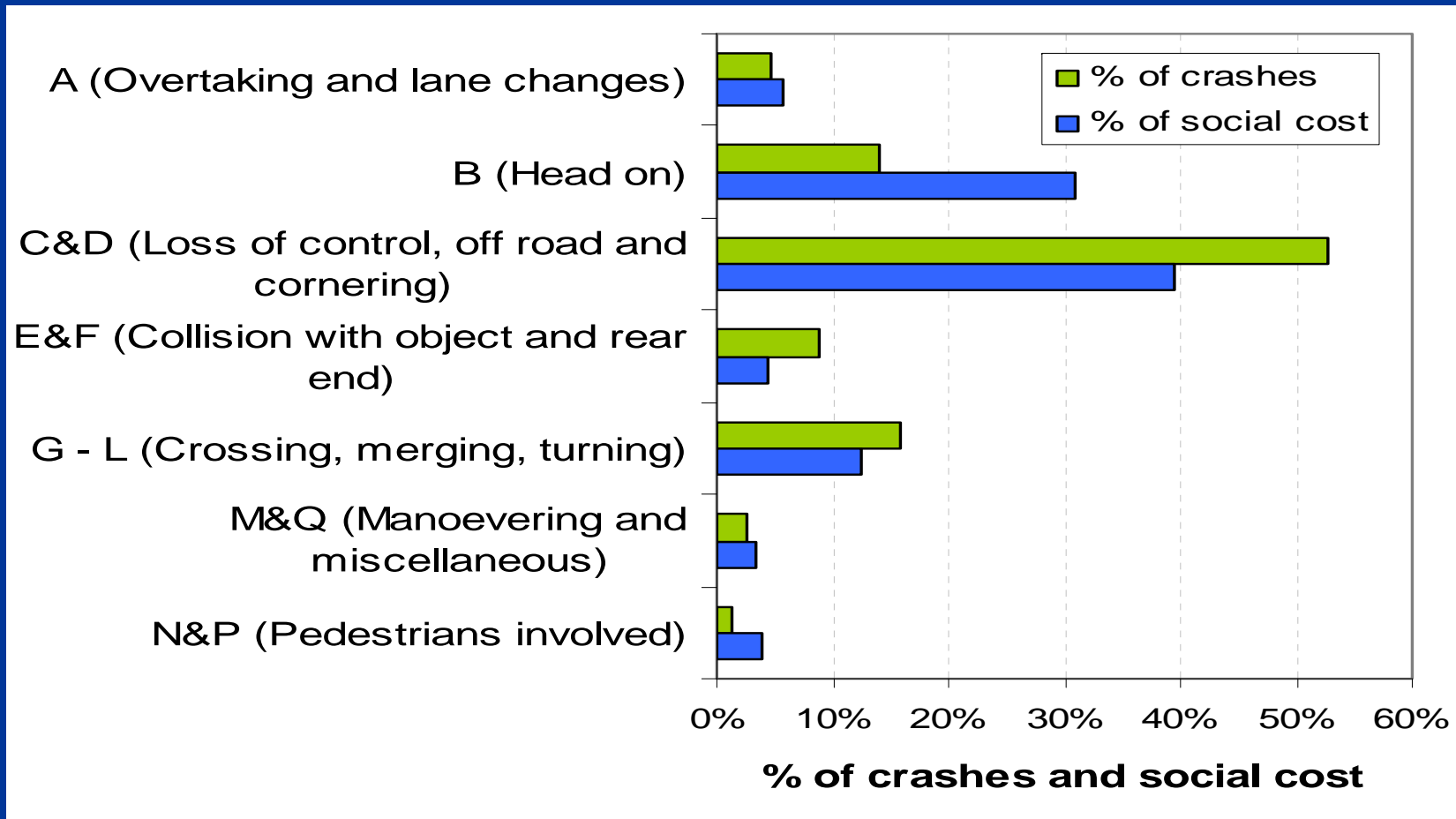
- Skid road
- Diab cau cras
- Mar car

Rela

- Roa
- Roa



# Rural State Highway Crash Types



# The Safe System approach

**E**ase of learning

**E**ase of remembering

**E**ase of use



# Rural State Highway Crash Types

## HIGH CONCERN

Reducing alcohol/drug impaired driving

Increasing the safety of young drivers

Safer roads and roadsides

Safer speeds

Increasing the safety of motor-cycling

## MEDIUM CONCERN

Improving the safety of the light vehicle fleet

Safer walking and cycling

Improving the safety of heavy vehicles

Reducing the impact of fatigue

Addressing distraction

## AREAS FOR CONTINUED FOCUS AND EMERGING ISSUES

Increasing the level of restraint use

Reducing the impact of high-risk drivers

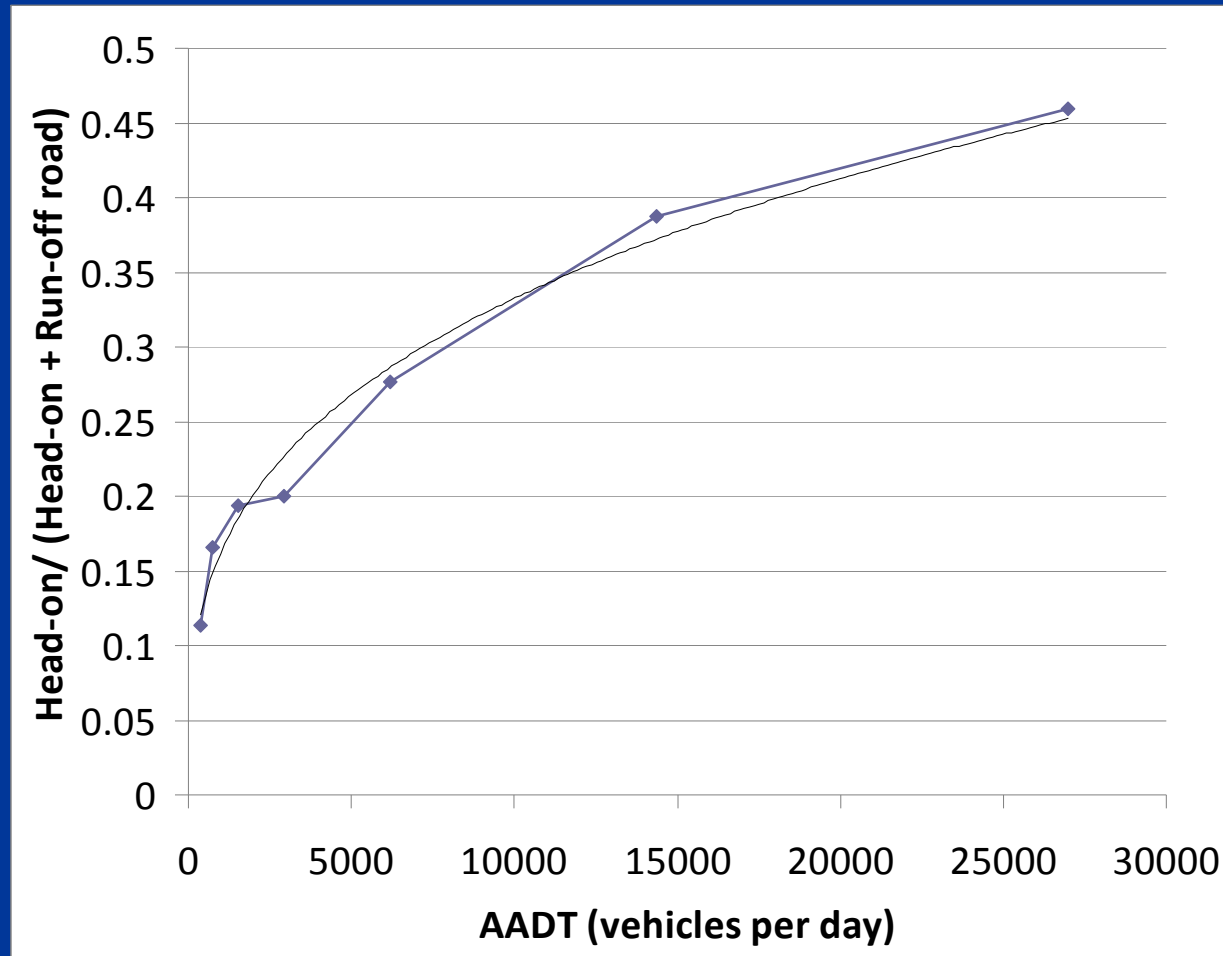
Increasing the safety of older New Zealanders

## Safer Roads and Roadsides: First Actions



- Develop a classification system
- Focus safety improvements on high risk rural roads
- Focus safety improvements on high risk urban intersections
- Change Give Way rules for turning traffic
- Implement targeted treatments on popular motorcycle routes
- Strengthen techniques to integrate safety into land use planning

## Head-on vs Run-off-road Crashes



## Wide Centreline treatments: United Kingdom

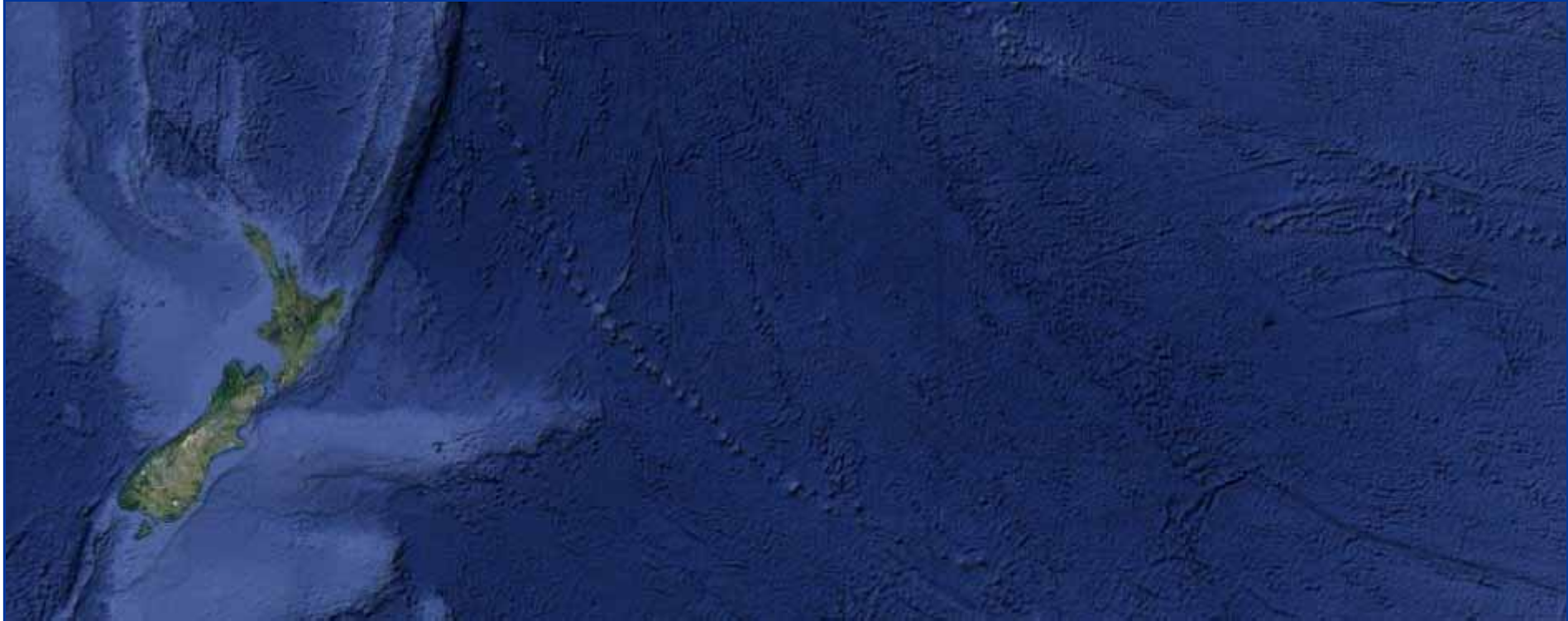


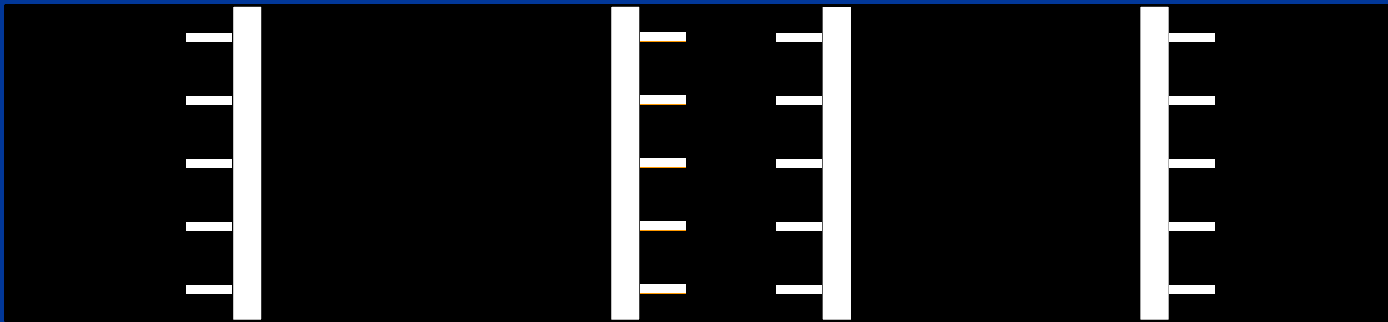
## Wide Centreline treatments: Netherlands



## Wide Centreline treatments: Australia

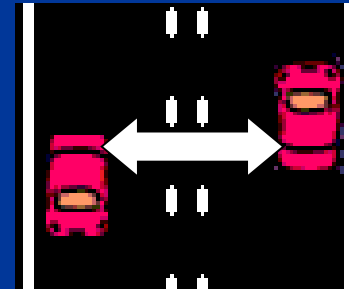








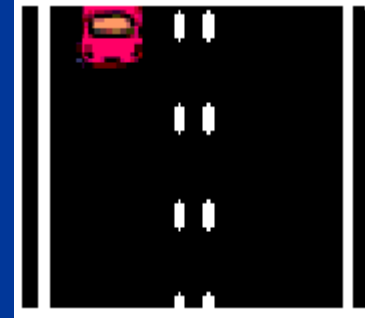
Increase in lateral separation



Decrease in centreline crossings



No increase in speed



No increase in edgeline crossings



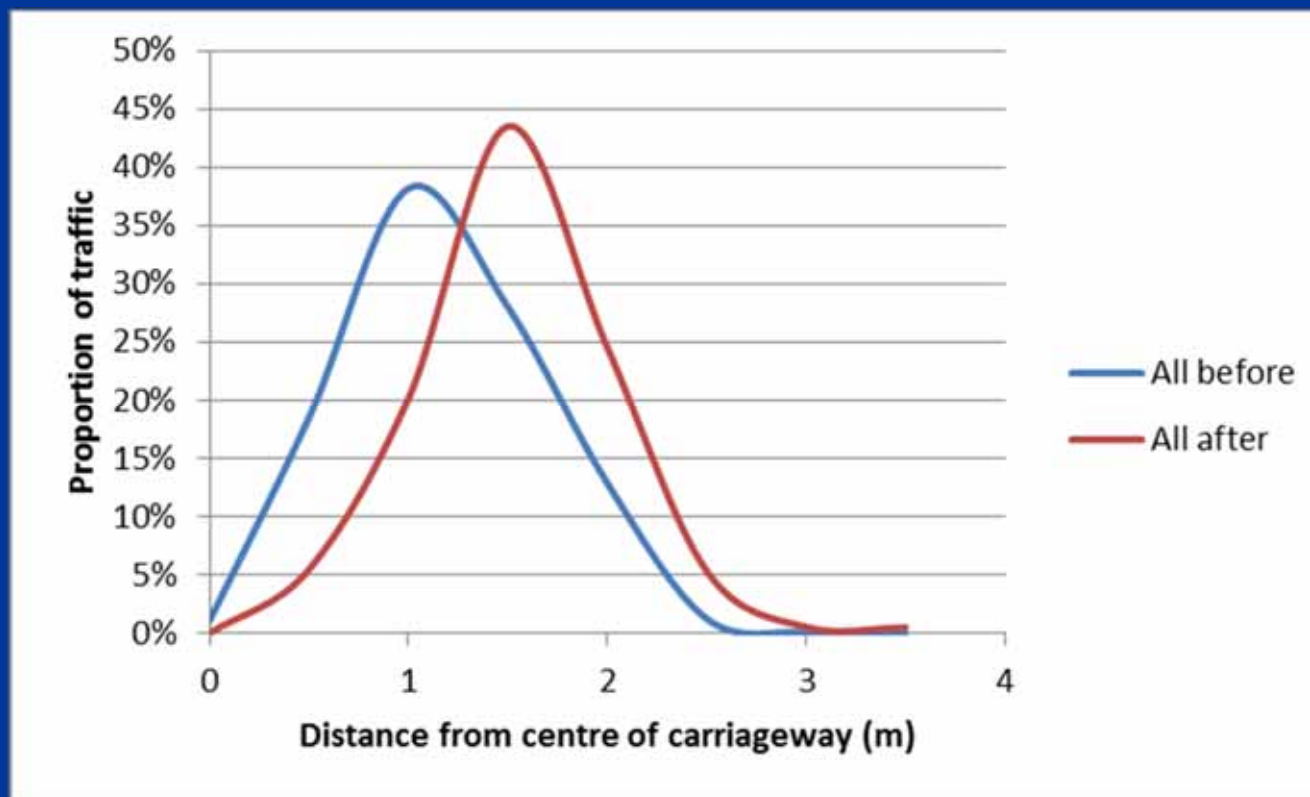








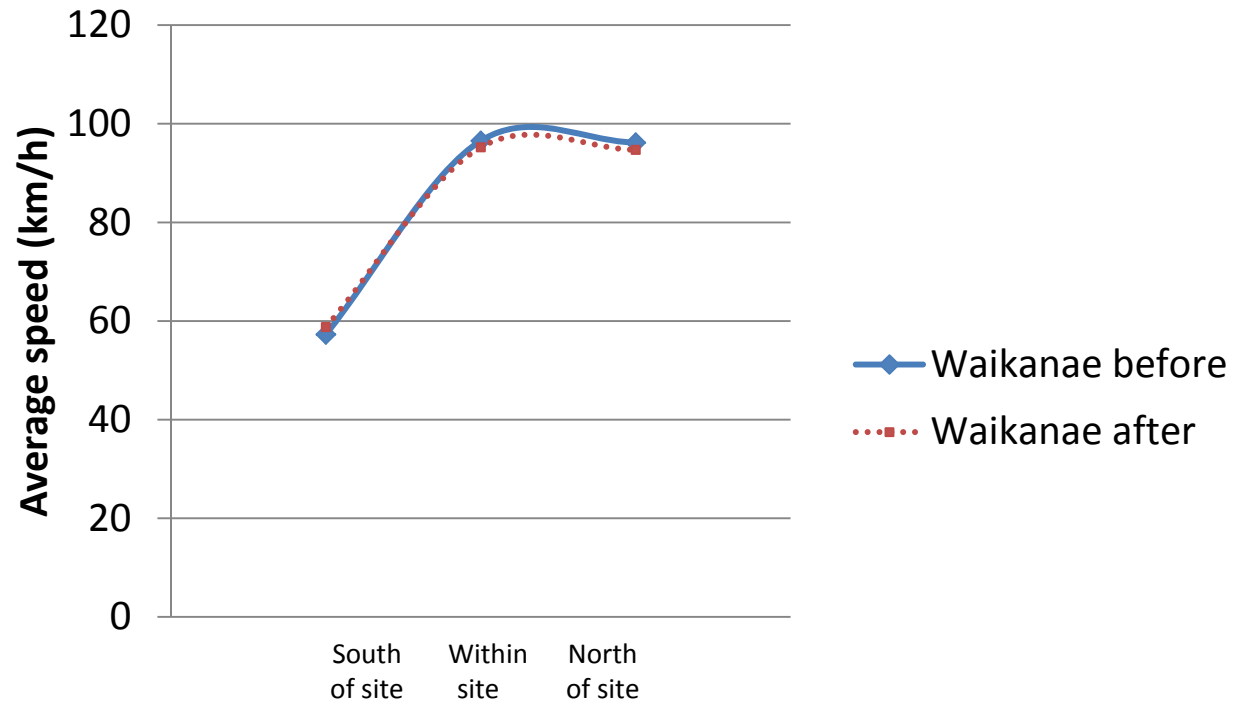
## Results: Lateral Position Change



Mean (before) = 1.2m (n = 1600)

Mean (after) = 1.5m (n = 1600)

## Results: Speed



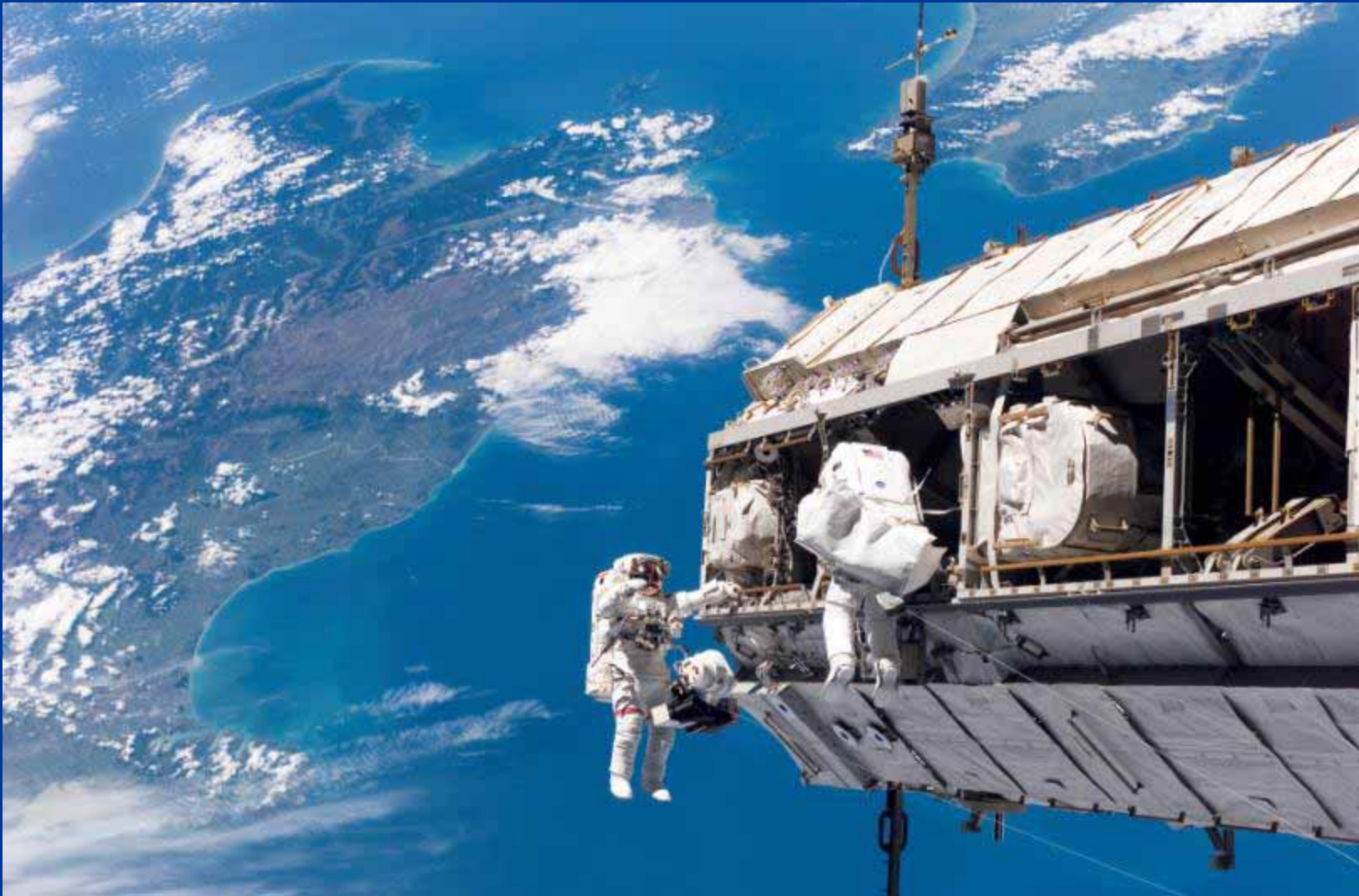


# How to change the system



# How to change the system





# Acknowledgements

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