

# Managing increased demand: The digitalisation of road transport networks



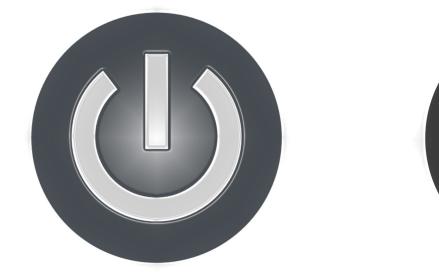
"Demand for goods, building materials and the transport of resources is higher than ever, thanks to population growth, massive infrastructure projects and growing access to consumer goods from new markets"

**Digitalisation** refers to the automation made possible by digital processes.

Efficiencies can result when digital technologies enable previously separate processes to be linked and integrated.

Digital Transformation Agency Australian Government



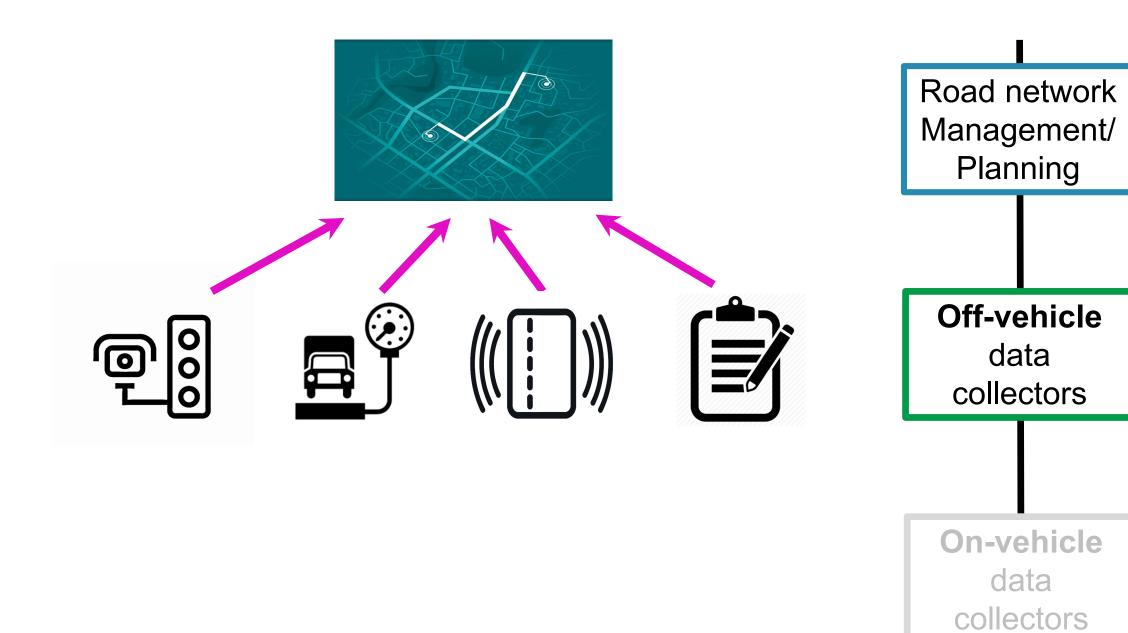


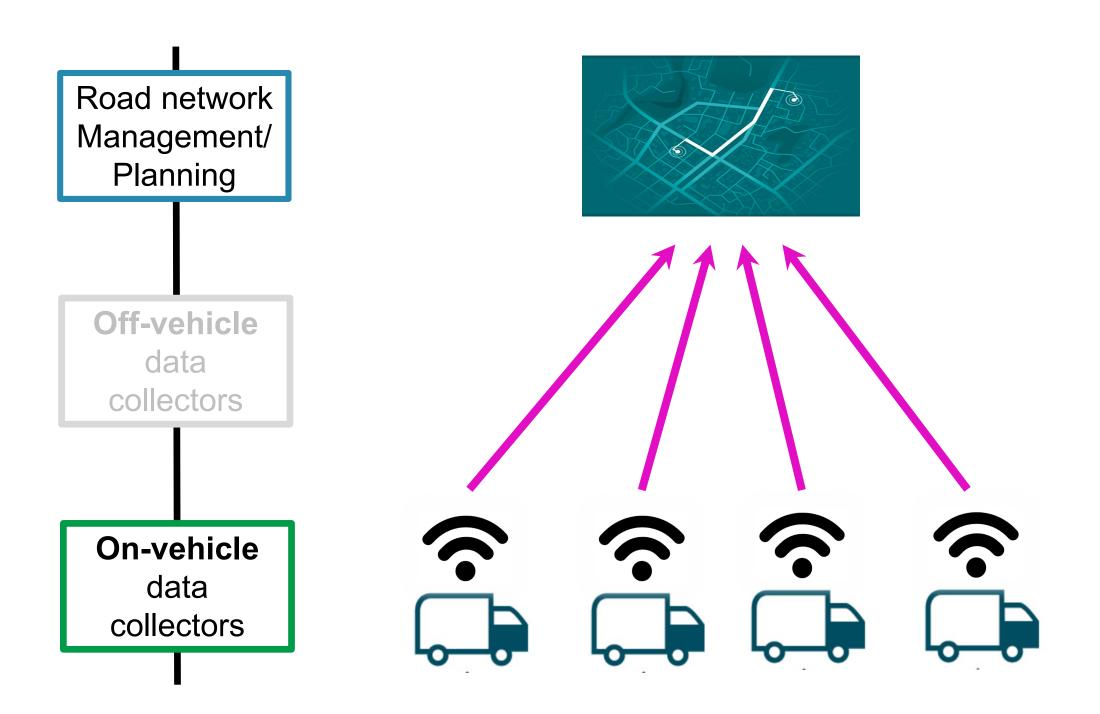


Just as power, water and roads infrastructure enable us to go about our everyday lives...

...digital equipment and systems are core to our everyday lives – they help make sense of the vast amount of data we are faced with.

Department of Industry, Science, Energy and Resources
Australian Government



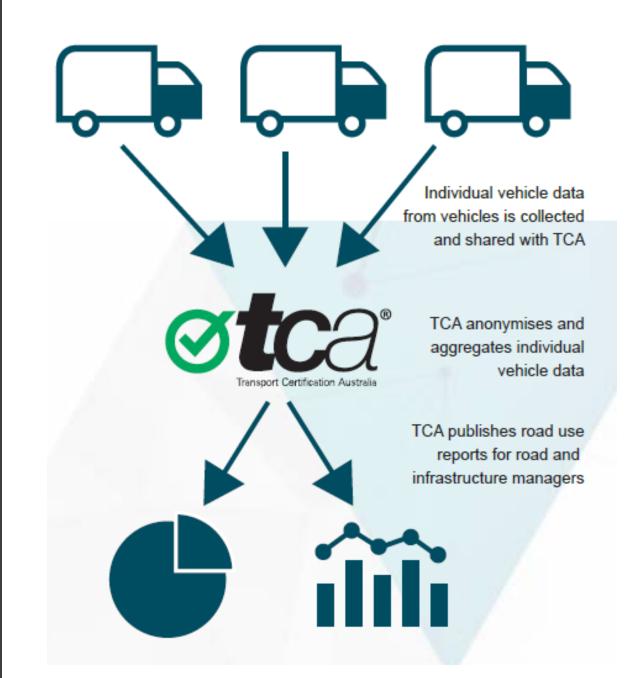


# It's already happening



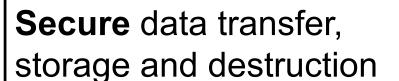
### Introducing:

Road Infrastructure Management (RIM)



## **But how?**

**Consent** Agreements (to share selected data)



**Anonymization** and **aggregation** of data









## Managing demand through data



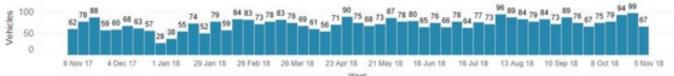
#### Journeys by vehicle type

	November 2017	December 2017	January 2018	February 2018	March 2018	April 2018	May 2018	June 2018	July 2018	August 2018	September 2018	October 2018
B Double	698	534	565	535	620	567	687	516	557	632	562	628
Cranes	6	7	2	9	6	11	7	8	13	21	16	13
lorian enrolled HPFV	49	43	47	62	77	46	43	45	28	50	32	63
Rigid and Trailer	8	2		5	4		. 5	3		1	4	7
Semi Trailer	33	33	22	26	41	44	49	57	56	85	60	40
_lorian-enrolled HPFV	25	42	75	126	181	200	169	136	175	141	179	204
Unknown	5	1	8	18	29	13	4	15	11	17	8	9

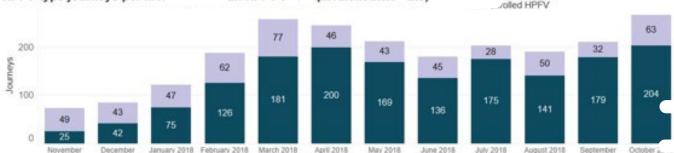
#### Journeys/week



#### Unique vehicles/week



#### HPFV-type journeys per mo.



#### Position record locations



#### Average speed by hour of day (km/h)



#### Journeys by weekday



#### Vehicle type breakdown

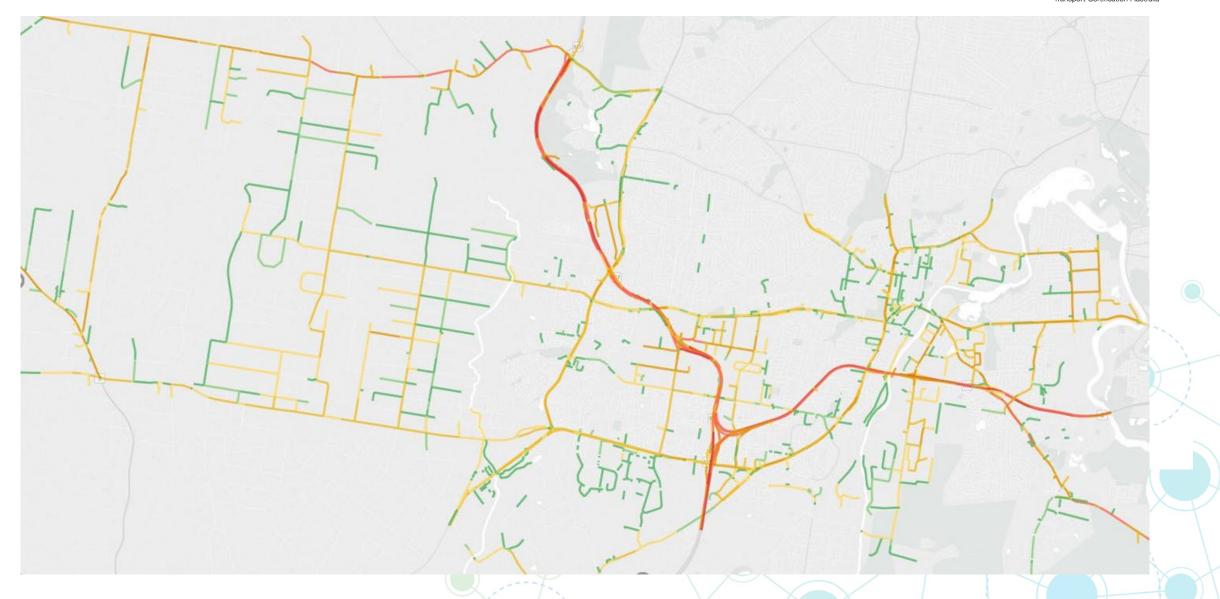
	% of journeys	% of unique vehicle
B Double	69.7%	57.99
Cranes	1.2%	6.09
orian enrolled HPFV	5.7%	14.19
Rigid and Trailer	0.4%	1.19
Semi Trailer	5.4%	10.09
orian-enrolled HPFV	16.2%	7.49
Unknown	1.4%	5.99





# Managing demand on local roads





# Managing origin-destination demands





# Managing demand by travel speed







Safety, Productivity & Environment Construction Transport Scheme (SPECTS)

Port Botany Container Movement Efficiency Scheme

**Dangerous Goods Vehicles Movement Analysis** 

**NSW Freight Data Hub** 



3 October 2019



# How can the digitalisation of transport help manage increased demand in Victoria?



let's go.

WE CAN'T.

Why not?

WE'RE WAITING FOR GODOT.