

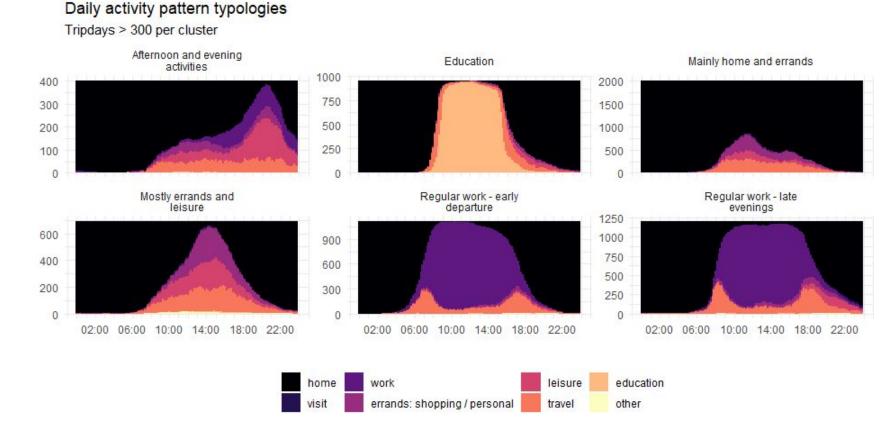
New Zealand Household Travel Survey

Different views

1 December 2021

Travel activity typologies and visualisation

- Expand travel + activity diary into 10 minute bucketed time use diary for 24 hours.
- Each 10 minute bucket is associated to an activity.
- Chronological activities can be written as a sequence e.g. home-home-home-work-w ork-work..
- Using sequence analysis methods to cluster similar sequences.
- Clusters = typologies.

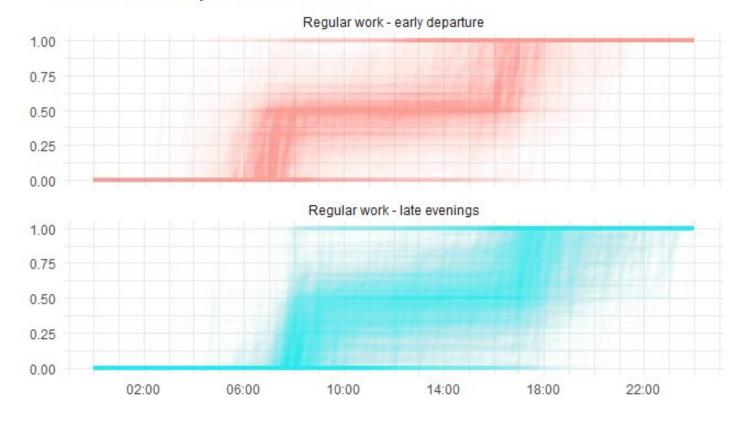




Connecting typologies to daily travel

- Pro-rate distance during the travel "activity".
- Linear increase when survey respondents are travelling. No change at non-travel activity e.g. work.
- Regular work has strong patterns of going to work and staying at work.
- However, travel can happen throughout the day – spreading out the core trend.

Normalised daily travel in 24 hours





Connecting typologies to socio-demographics

In households with kids

 Women more likely to do daily activities involving home and errands.

In households without kids

- Women are again more likely to have activities involving home and errands but gender gap evens out.
- Average ages very different across the two groups reflecting stage of life.

	F-	M -	M - F - household household		
	household	household			
Typology	with kids	with kids	without kids	without kids	
Afternoon and evening activities	7%	5%	9%	6%	
Education	2%	2%	1%	1%	
Mainly home and errands	38%	18%	41%	34%	
Mostly errands and leisure	11%	7 %	12%	11%	
Regular work - early departure	16%	35%	16%	26%	
Regular work - late evenings	26%	33%	22%	22%	

	F -	M -			M -	
	household	F - household household				
Typology	with kids	with kids	wit	hout kids	without ki	ds
Afternoon and evening activities	39	9	40	59		57
Education	45		28	25		25
Mainly home and errands	41	L .	45	65		68
Mostly errands and leisure	40)	40	64		65
Regular work - early departure	44	1	42	50		49
Regular work - late evenings	43	3	42	48		51

