

car sharing

Germany

1.1 Adoption over time

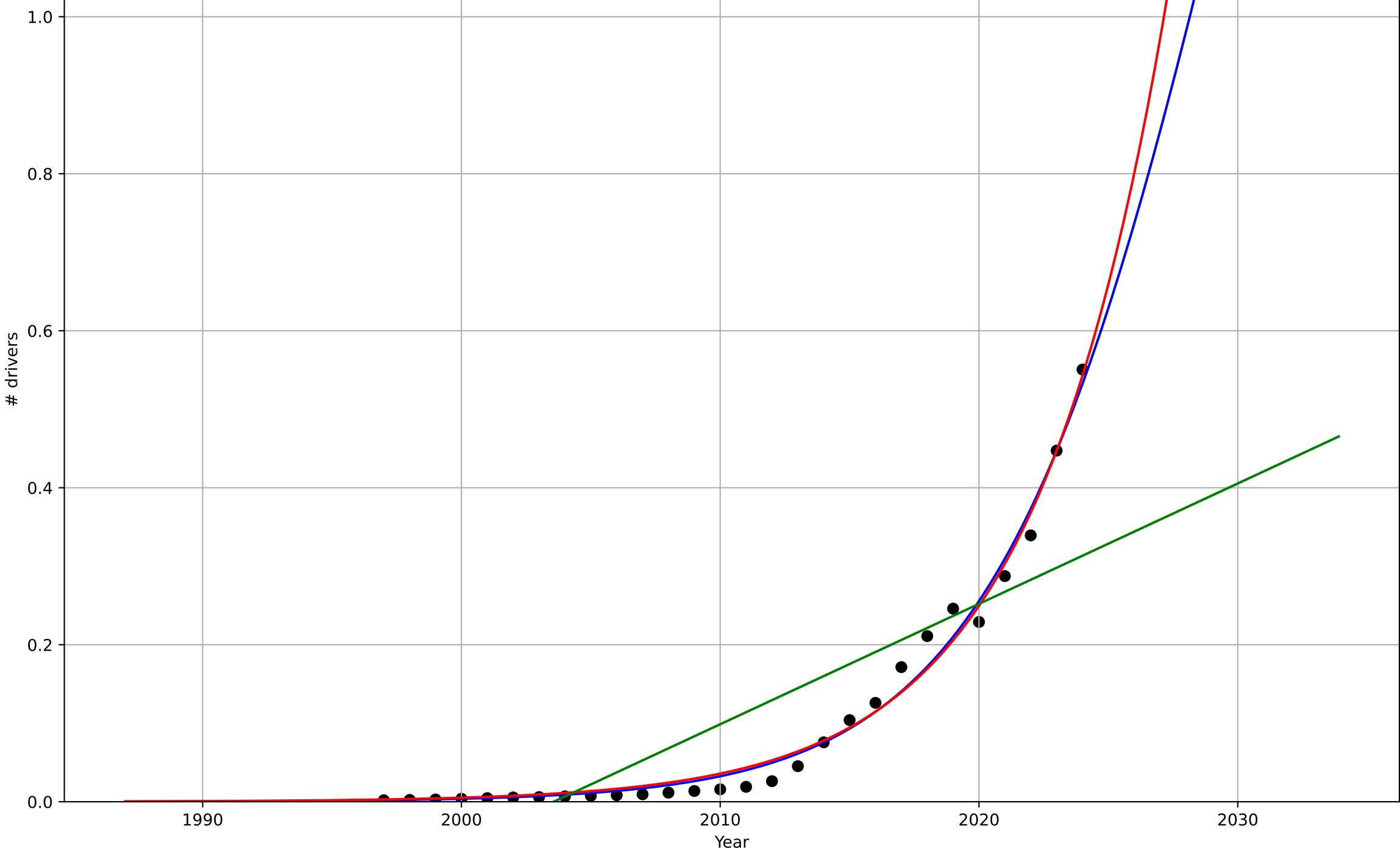
registered drivers

# drivers

1e7

Curve type	Curve parameters	Slope	R2	R2adj	RMSE	MAE
Logistic	$t_0=2030, D_t=20.4, K=2.55e+07$	0.216	0.986	0.984	1.75e+05	1.25e+05
Exponential	$8.87e-11 \cdot \exp(0.194 \cdot (x-1825))$	0.194	0.985	0.984	1.78e+05	1.32e+05
Linear	intercept=-3.07e+08, slope=1.53e+05	1.53e+05	0.707	0.684	7.97e+05	6.3e+05

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2.5 Choice availability

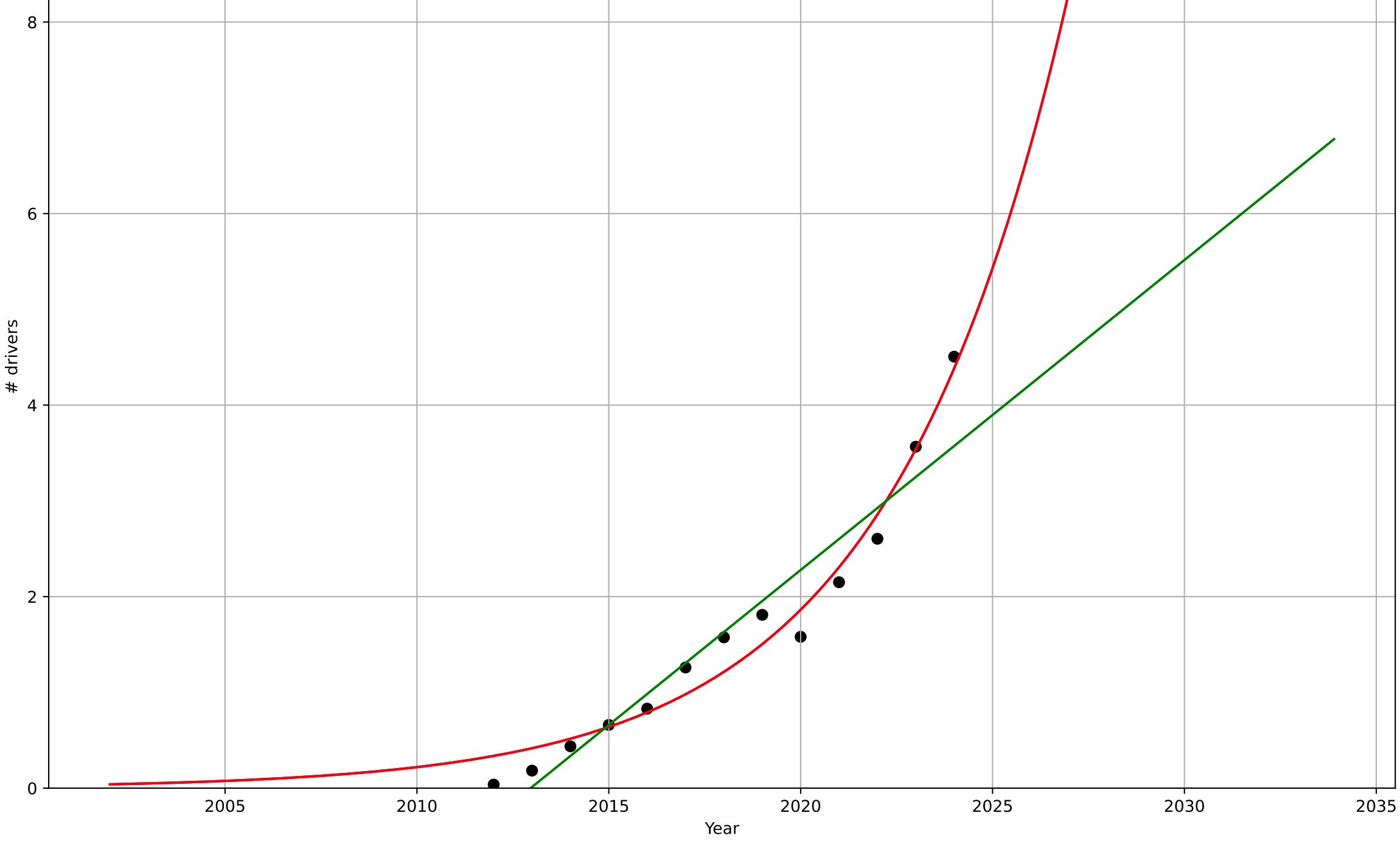
free-floating cars - registered drivers

# drivers

1e6

crs\_ger\_2.5Var\_d216\_m012

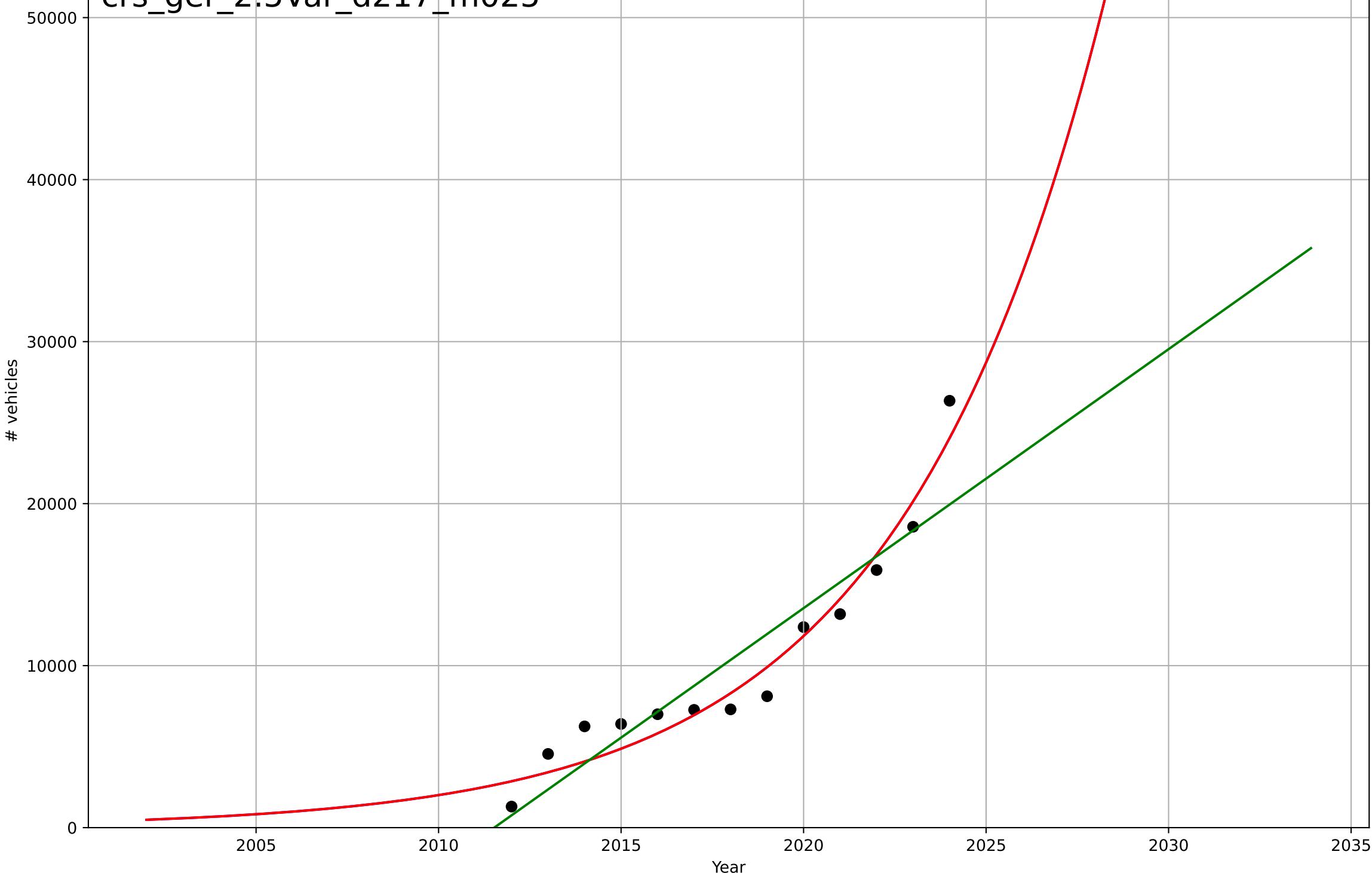
Curve type	Curve parameters	Slope	R2	R2adj	RMSE	MAE
Logistic	$t_0=2073, D_t=20.5, K=1.72e+11$	0.214	0.97	0.96	2.22e+05	1.89e+05
Exponential	$5.68e-12 \cdot \exp(0.214 \cdot (x-1832))$	0.214	0.97	0.964	2.22e+05	1.89e+05
Linear	intercept=-6.52e+08, slope=3.24e+05	3.24e+05	0.906	0.887	3.9e+05	2.88e+05



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 2.5 Choice availability  
 free-floating cars - registered vehicles  
 # vehicles

Curve type	Curve parameters	Slope	R2	R2adj	RMSE	MAE
Logistic	$t_0=2091, D_t=24.8, K=3.8e+09$	0.177	0.952	0.936	1.42e+03	1.31e+03
Exponential	$1.55e-07 \cdot \exp(0.177 \cdot (x-1879))$	0.177	0.952	0.942	1.42e+03	1.31e+03
Linear	intercept=-3.22e+06, slope=1.6e+03	1.6e+03	0.846	0.816	2.55e+03	1.92e+03

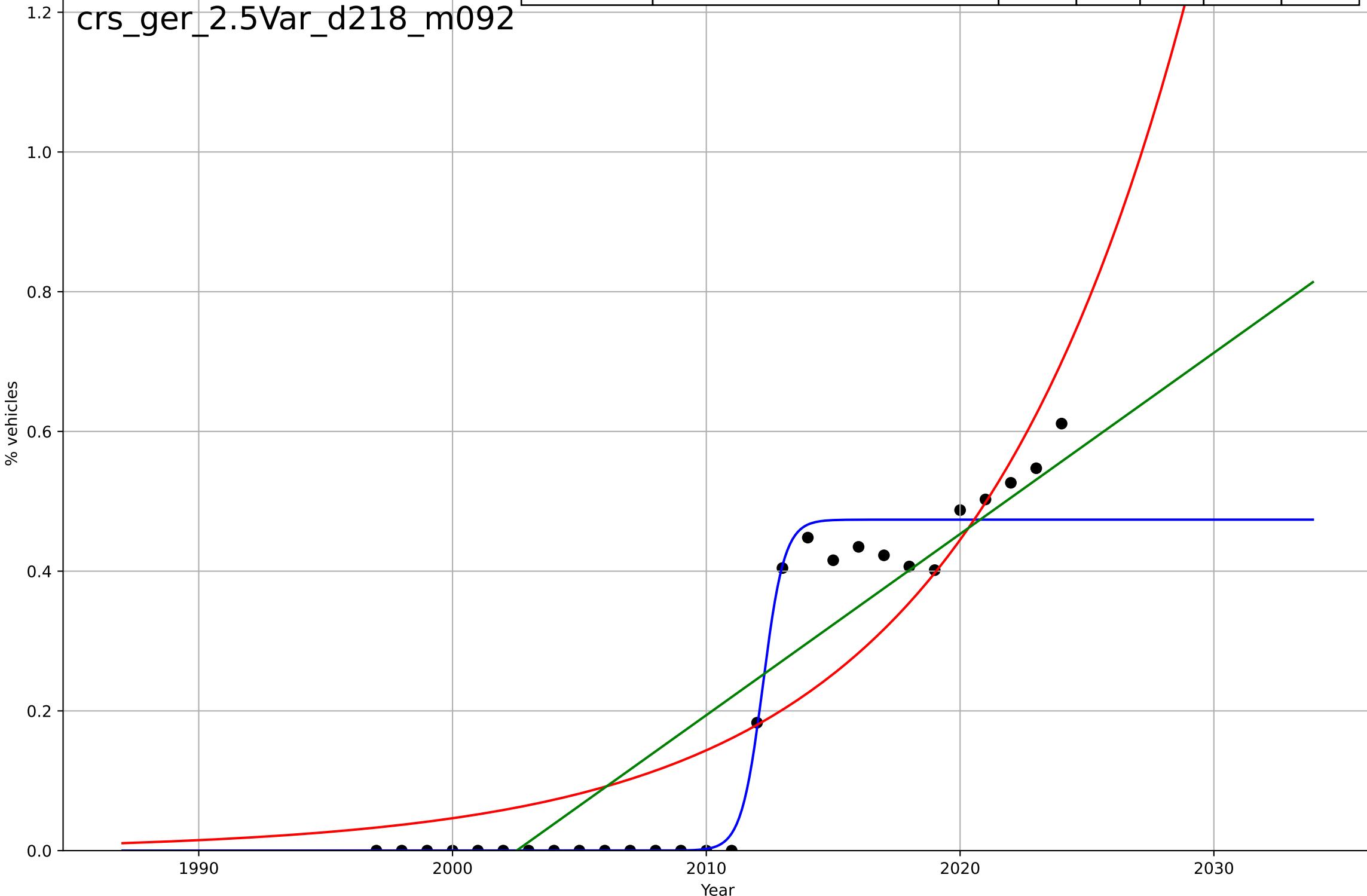
crs\_ger\_2.5Var\_d217\_m025



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 2.5 Choice availability  
 free-floating cars as % of all shared cars  
 % vehicles

Curve type	Curve parameters	Slope	R2	R2adj	RMSE	MAE
Logistic	$t_0=2012, D_t=1.86, K=0.474$	2.36	0.969	0.965	0.0407	0.0233
Exponential	$2.37 \cdot \exp(0.113 \cdot (x-2035))$	0.113	0.805	0.789	0.102	0.0849
Linear	intercept=-51.9, slope=0.0259	0.0259	0.815	0.8	0.0997	0.0809

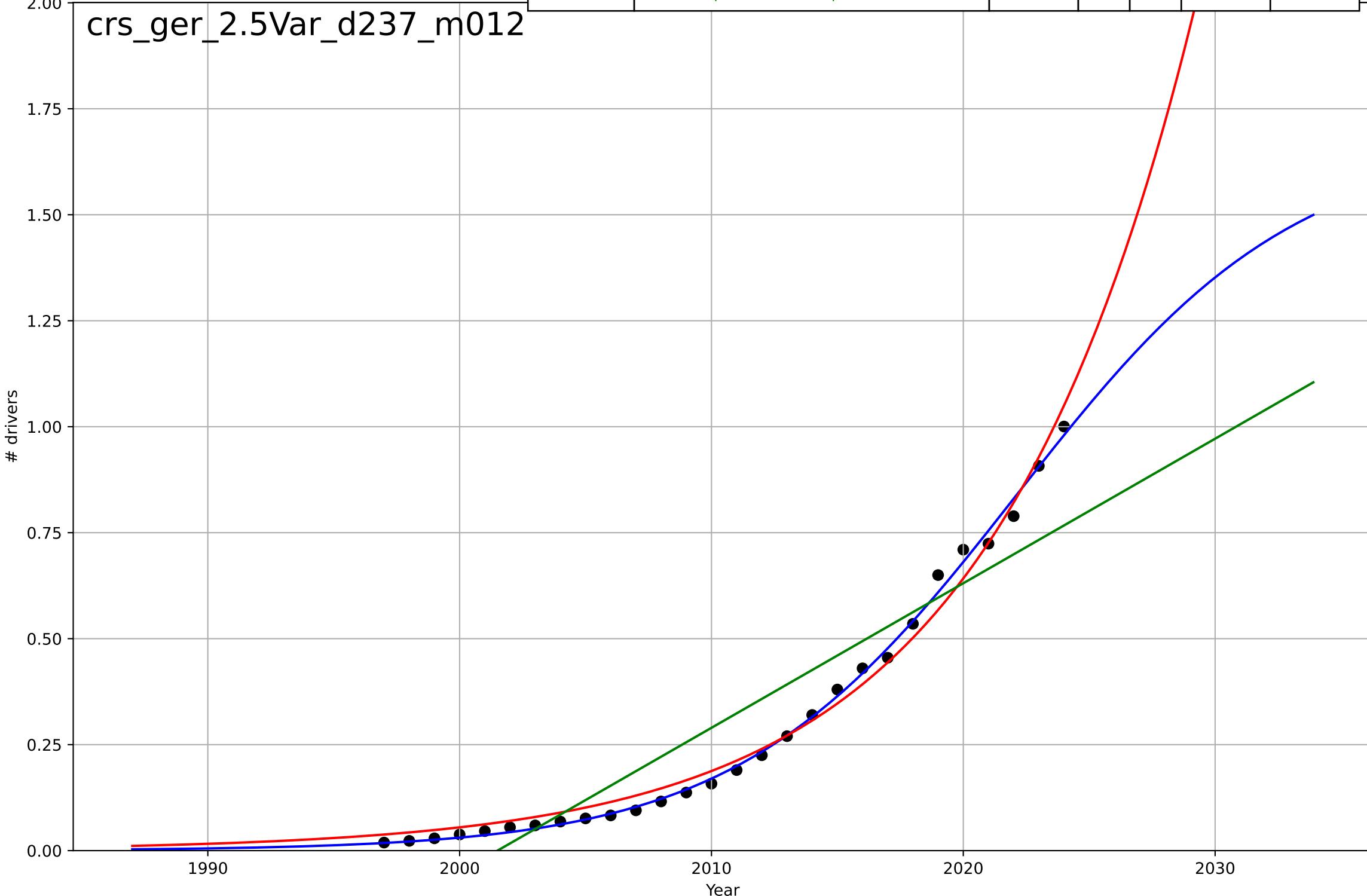
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 2.5 Choice availability  
 station-based or combined - registered drivers  
 # drivers  
 $1e6$

Curve type	Curve parameters	Slope	R2	R2adj	RMSE	MAE
Logistic	$t_0=2022, D_t=24.4, K=1.68e+06$	0.18	0.997	0.997	$1.62e+04$	$1.19e+04$
Exponential	$1.27e-06 \cdot \exp(0.123 \cdot (x-1801))$	0.123	0.988	0.988	$3.17e+04$	$2.68e+04$
Linear	intercept= $-6.82e+07$ , slope= $3.41e+04$	$3.41e+04$	0.869	0.859	$1.07e+05$	$9.42e+04$

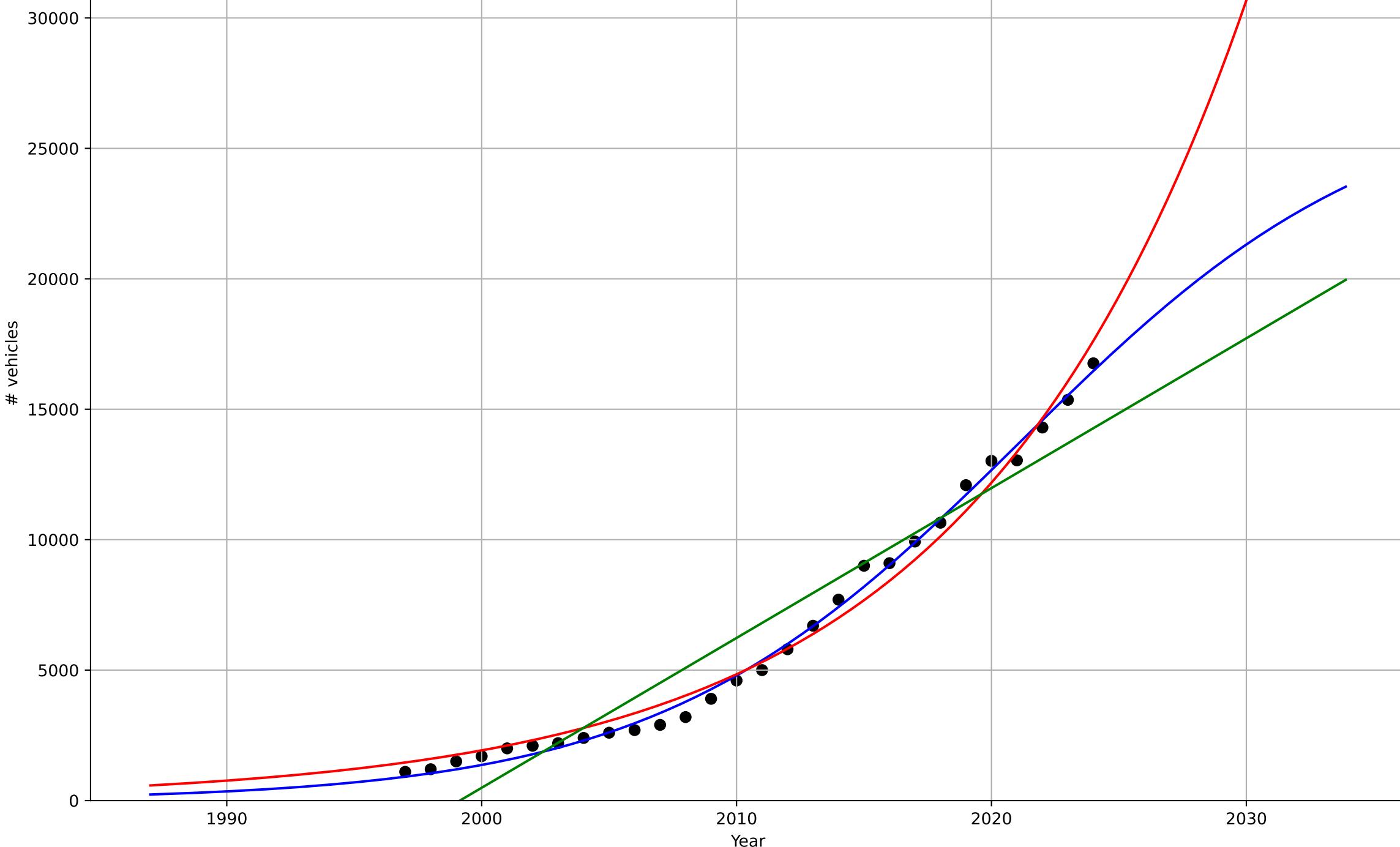
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 2.5 Choice availability  
 station-based or combined - registered vehicle  
 # vehicles

Curve type	Curve parameters	Slope	R2	R2adj	RMSE	MAE
Logistic	t0=2021, Dt=31.4, K=2.75e+04	0.14	0.995	0.995	334	282
Exponential	0.000373*exp(0.0923*(x-1833))	0.0923	0.985	0.984	589	512
Linear	intercept=-1.15e+06, slope=574	574	0.925	0.919	1.32e+03	1.14e+03

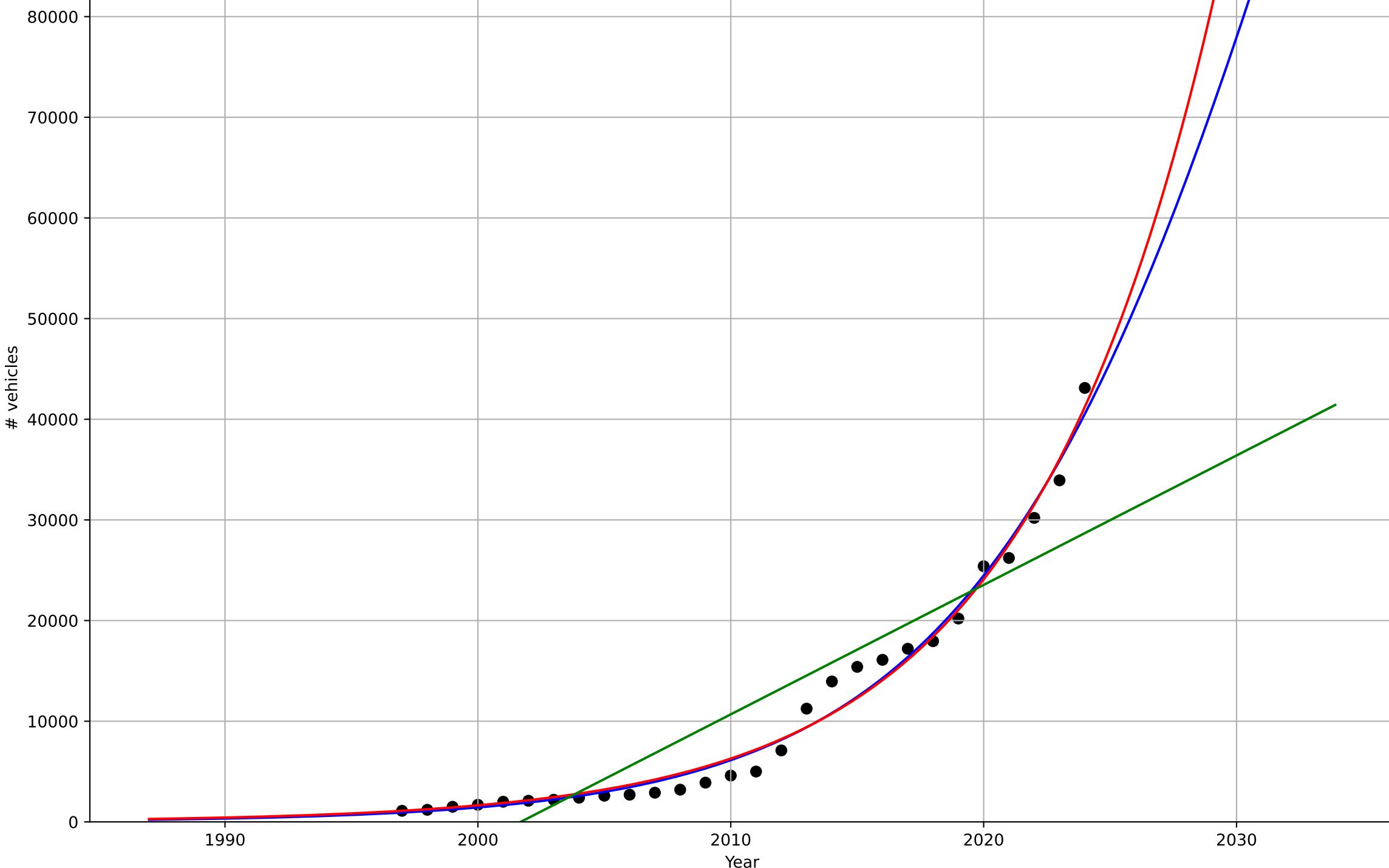
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 2.9 Interdependence with Hardware  
 shared vehicles  
 # vehicles

Curve type	Curve parameters	Slope	R2	R2adj	RMSE	MAE
Logistic	$t_0=2034, D_t=29.9, K=2.23e+05$	0.147	0.984	0.982	1.44e+03	1.16e+03
Exponential	$8.11e-06 \cdot \exp(0.134 \cdot (x-1858))$	0.134	0.984	0.982	1.46e+03	1.17e+03
Linear	intercept=-2.57e+06, slope=1.29e+03	1.29e+03	0.821	0.807	4.84e+03	3.95e+03

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 4.2 Knowledge Flows (mass media)  
 "car sharing" mention in books  
 index (2022=100)

Curve type	Curve parameters	Slope	R2	R2adj	RMSE	MAE
Logistic	t0=2018, Dt=21, K=155	0.209	0.971	0.967	5.61	5.18
Exponential	0.182*exp(0.124*(x-1970))	0.124	0.955	0.951	7.03	6
Linear	intercept=-8.21e+03, slope=4.11	4.11	0.863	0.851	12.3	10.5

