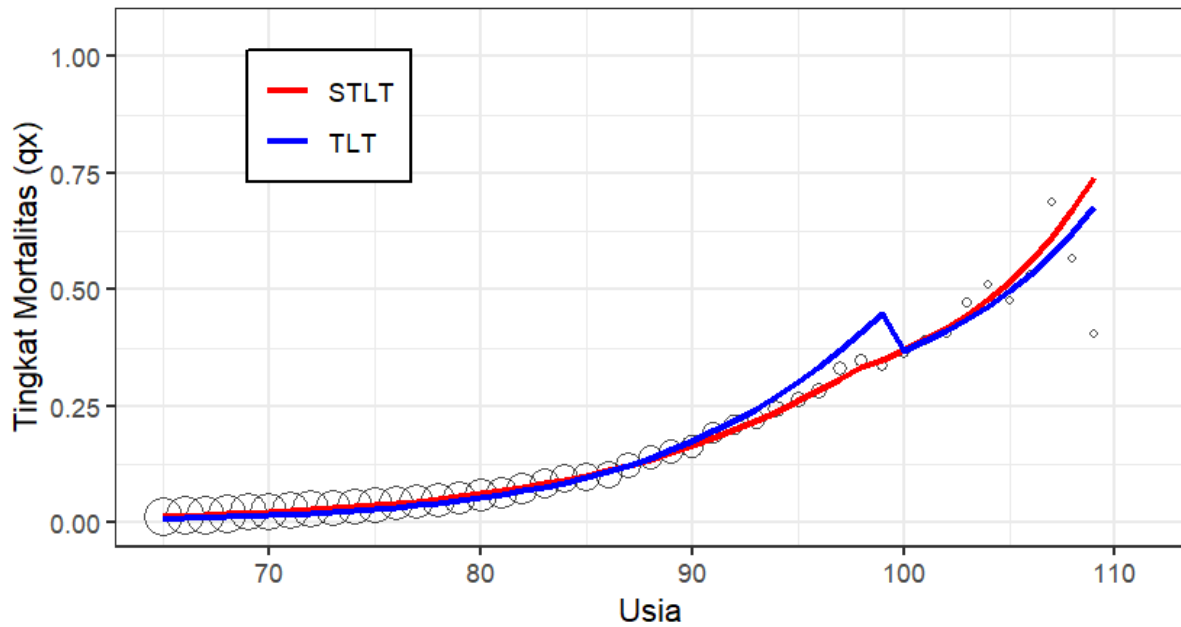


Belanda

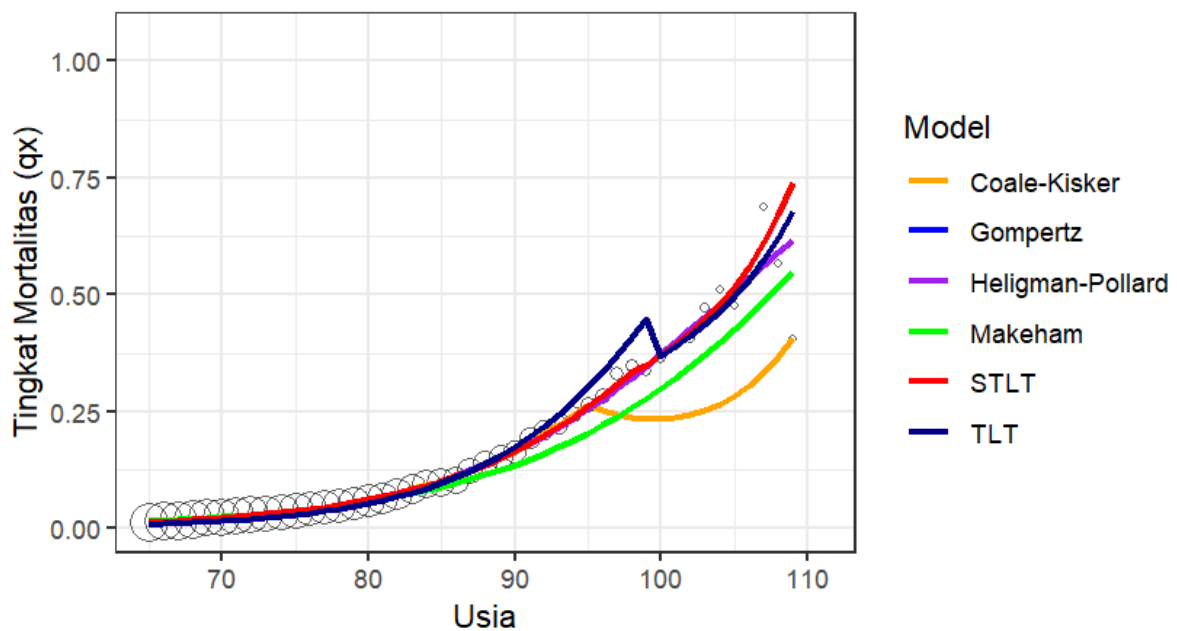
Perbandingan TLT dan STLT

Kohor Wanita Belanda 1901



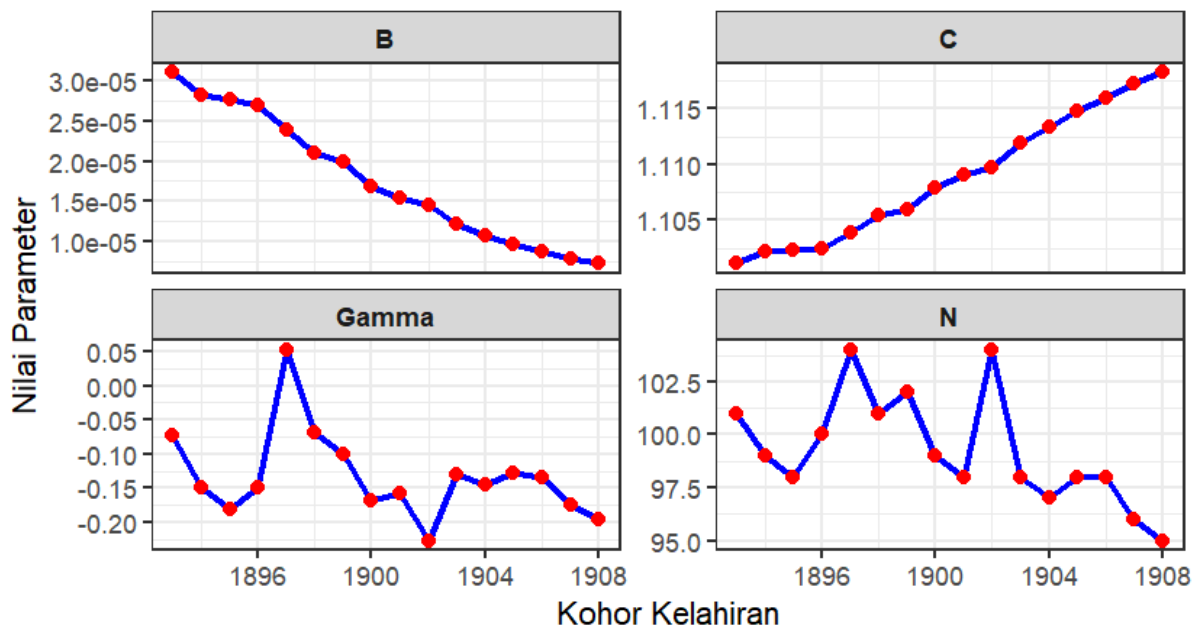
Perbandingan Berbagai Model

Kohor Wanita Belanda 1901



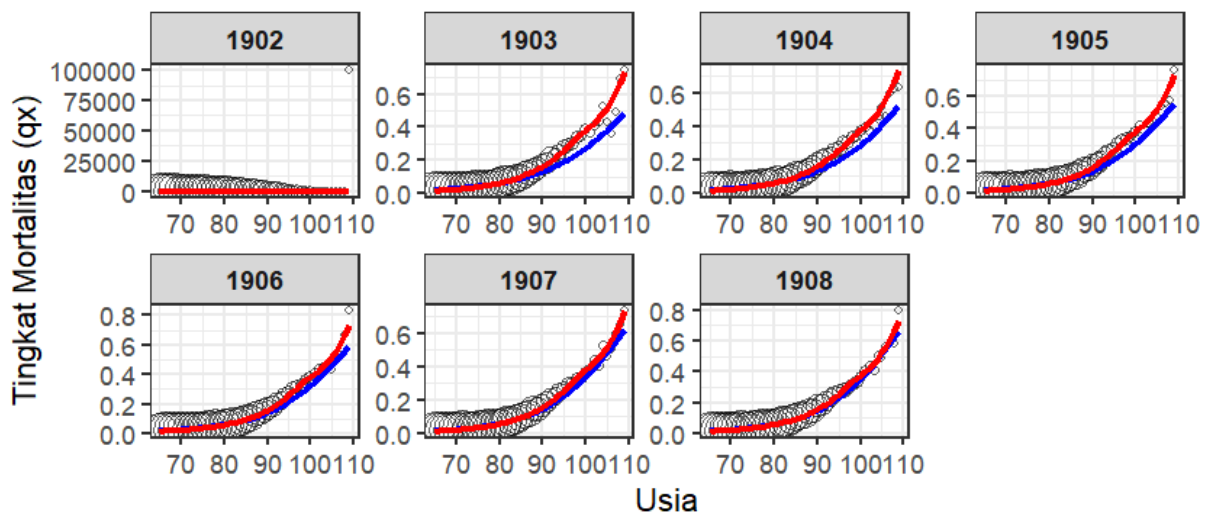
Tren Parameter STLT Antar Kohor

Kohor Female Belanda



Perbandingan Prediksi DSTLT vs CBD

Kohor Test Wanita Belanda 1902 - 1908



Model — CBD — DSTLT

```
> # CETAK SEMUA TABEL
> cat("\n=== TABEL UNTUK SKRIPSI ===\n")

=== TABEL UNTUK SKRIPSI ===
>
> cat("\nTabel 1 - Estimasi Parameter:\n")
```

Tabel 1 - Estimasi Parameter:

```
> param_table <- create_parameter_table(models_1901, "1901")
> print(param_table)
Parameter      STLT      TLT
1      B 1.541952e-05 2.200362e-06
2      C 1.109008e+00 1.133930e+00
3  Gamma -1.579456e-01 -1.438091e-01
4      N 9.800000e+01 1.000000e+02
5  Omega 1.142118e+02 1.156288e+02
>
> cat("\nTabel 2 - Perbandingan Model Statis:\n")
```

Tabel 2 - Perbandingan Model Statis:

```
> comparison_raw <- generate_comparison_table_fixed(kohor_target, models_1901,
output_format = "raw")
> if(!is.null(comparison_raw)) print(comparison_raw)
Method      MAE      RMSE Weighted_MAE Weighted_RMSE
1      STLT 1.776151e-02 5.466354e-02 1.951231e-03 3.307049e-03
2      TLT 2.414706e-02 5.134925e-02 7.487688e-03 9.464262e-03
3  GOMPERTZ 3.641415e-02 5.724220e-02 5.347678e-03 1.342431e-02
4  MAKEHAM 3.648057e-02 5.732373e-02 5.357388e-03 1.344621e-02
5      HP2 1.459962e-02 3.826503e-02 1.997568e-03 3.760812e-03
6 COALE-KISKER 5.782412e-18 1.541639e-17 2.584591e-18 5.377594e-18
>
> if(exists("param_trends_data")) {
+   cat("\nTabel 3 - Tren Parameter:\n")
+   print(param_trends_data)
+ }
```

Tabel 3 - Tren Parameter:

```
Cohort      B      C      Gamma N      Omega
1  1893 3.093312e-05 1.101140 -0.07379796 101 127.02872
2  1894 2.821092e-05 1.102159 -0.14955596 99 114.58067
3  1895 2.763733e-05 1.102304 -0.18124857 98 112.27876
4  1896 2.693020e-05 1.102470 -0.14989260 100 114.36522
5  1897 2.378245e-05 1.103948 0.05236362 104 76.58037
6  1898 2.098507e-05 1.105398 -0.06959585 101 128.54906
7  1899 1.994779e-05 1.105955 -0.10049939 102 119.24687
8  1900 1.694729e-05 1.107961 -0.16811761 99 112.72022
9  1901 1.541952e-05 1.109008 -0.15794559 98 114.21177
10 1902 1.435048e-05 1.109895 -0.44818272 108 110.00096
11 1903 1.222377e-05 1.111935 -0.13010861 98 117.17300
12 1904 1.085531e-05 1.113392 -0.14613482 97 115.82499
13 1905 9.676052e-06 1.114776 -0.12735070 98 117.27082
14 1906 8.815331e-06 1.115904 -0.13406036 98 116.19769
15 1907 7.945168e-06 1.117175 -0.17547175 96 113.22104
16 1908 7.338869e-06 1.118202 -0.19581175 95 112.10403
>
```

```

> if(!is.null(dstlt_fit_female)) {
+   cat("\nTabel 5 - Parameter DSTLT:\n")
+   dstlt_param_table <- data.frame(
+     Parameter = c("a", "b", "theta", "gamma", "N", "Omega"),
+     Estimate = c(dstlt_fit_female$coefficients$a, dstlt_fit_female$coefficients$b,
+       dstlt_fit_female$coefficients$theta, dstlt_fit_female$coefficients$gamma,
+       dstlt_fit_female$coefficients$N, dstlt_fit_female$Omega)
+   )
+   print(dstlt_param_table)
+ }

```

Tabel 5 - Parameter DSTLT:

	Parameter	Estimate
1	a	-10.28038404
2	b	-0.08163626
3	theta	2.33679721
4	gamma	-0.15028489
5	N	99.00000000
6	Omega	114.54911609

```

>
> if(exists("error_summary")) {
+   cat("\nTabel 8 - Error Prediksi:\n")
+   print(error_summary)
+ }

```

Tabel 8 - Error Prediksi:

A tibble: 7 × 5

	Cohort	DSTLT_MAE	DSTLT_RMSE	CBD_MAE	CBD_RMSE
	<int>	<dbl>	<dbl>	<dbl>	<dbl>
1	1902	2.22	14.8	2.26	14.8
2	1903	0.0161	0.0392	0.0477	0.0763
3	1904	0.0128	0.0259	0.0372	0.0545
4	1905	0.0125	0.0236	0.0326	0.0513
5	1906	0.0126	0.0262	0.0293	0.0508
6	1907	0.0111	0.0186	0.0207	0.0310
7	1908	0.0114	0.0203	0.0149	0.0262