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Analisi e Proposte per l'Economia e le Istituzioni

# Population, Health and Welfare

## Tunisia in a European Comparison

Tunis, October 2018



Point of discussion:

In the mid between Health Care Systems of western Countries  
and Health Care Systems of developing Countries?

Difficulties ...

... but also Potentialities



I would like to propose this key reding to analyse current and future structural characteristics of Health Care System in Tunisia

Demography

Cities vs.  
Countryside

Financial Resources



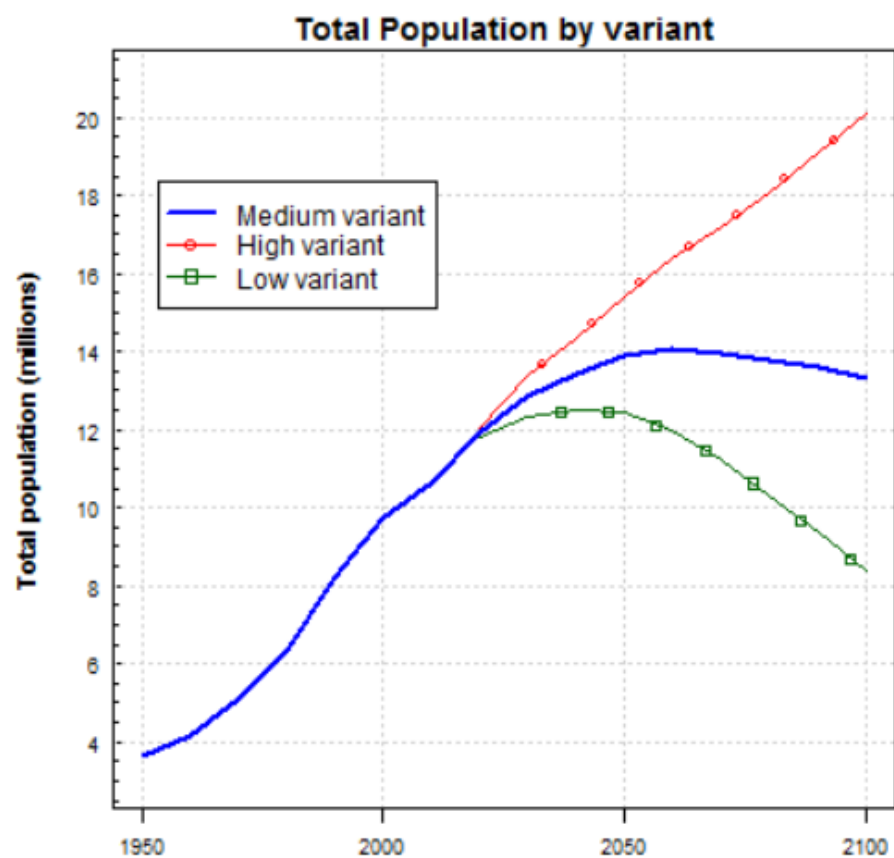
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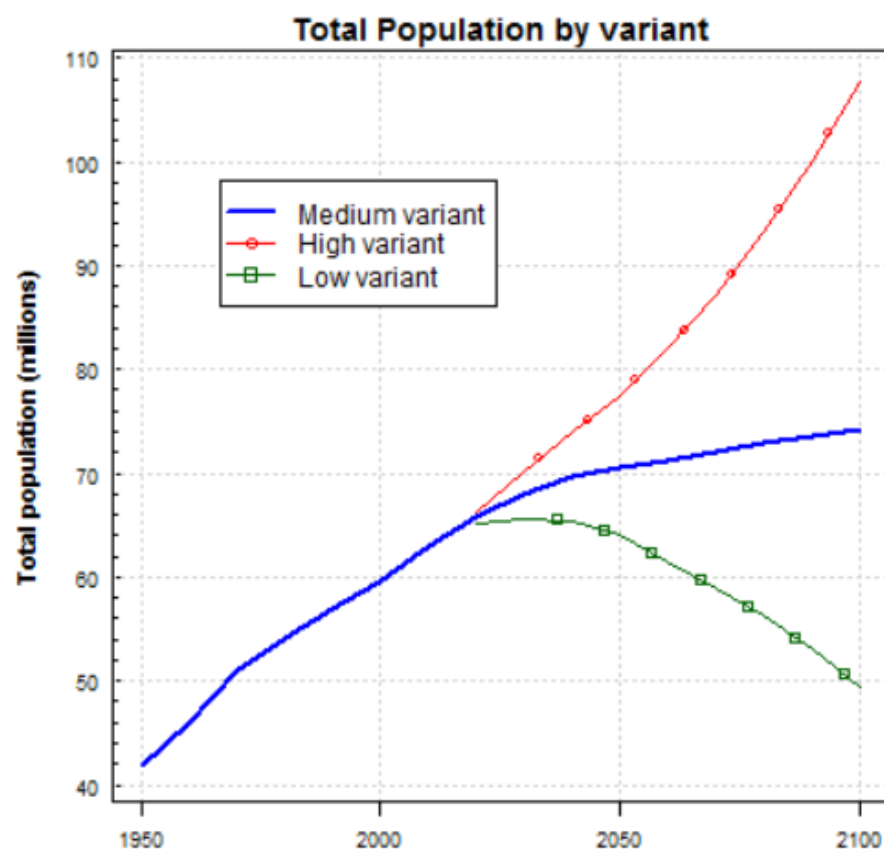
# Demography



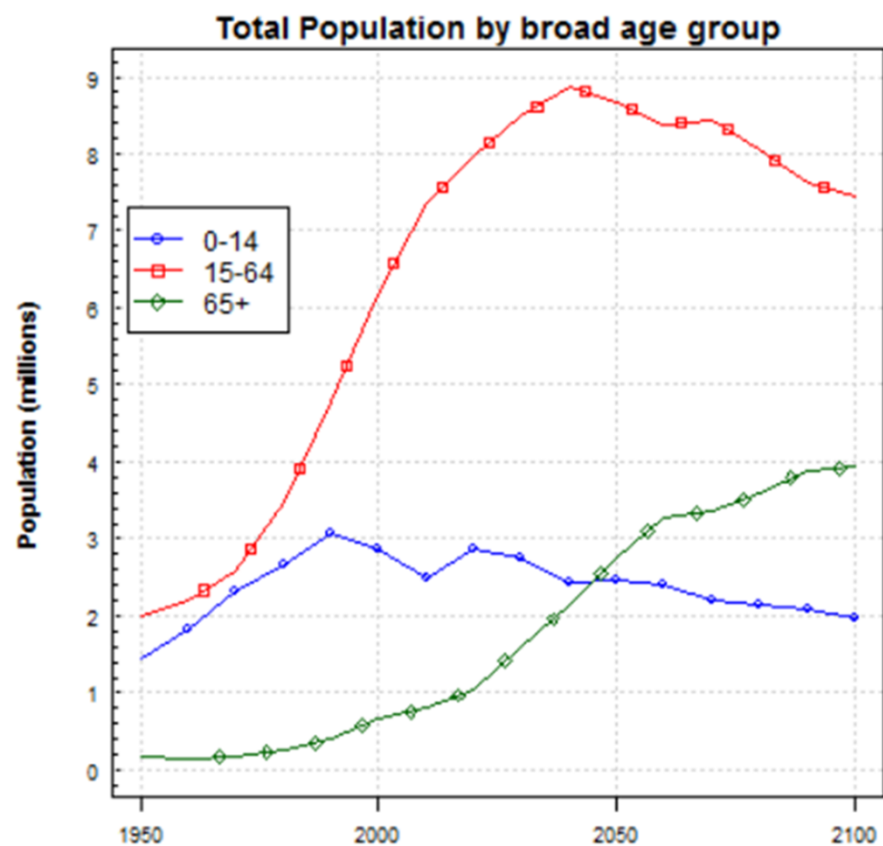
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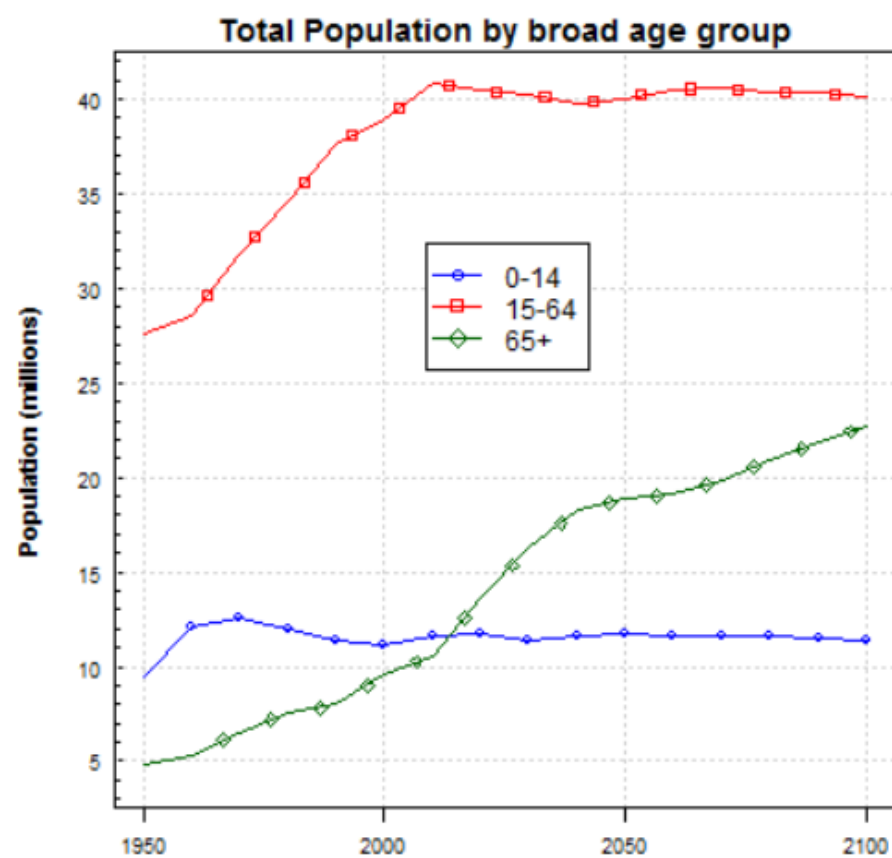
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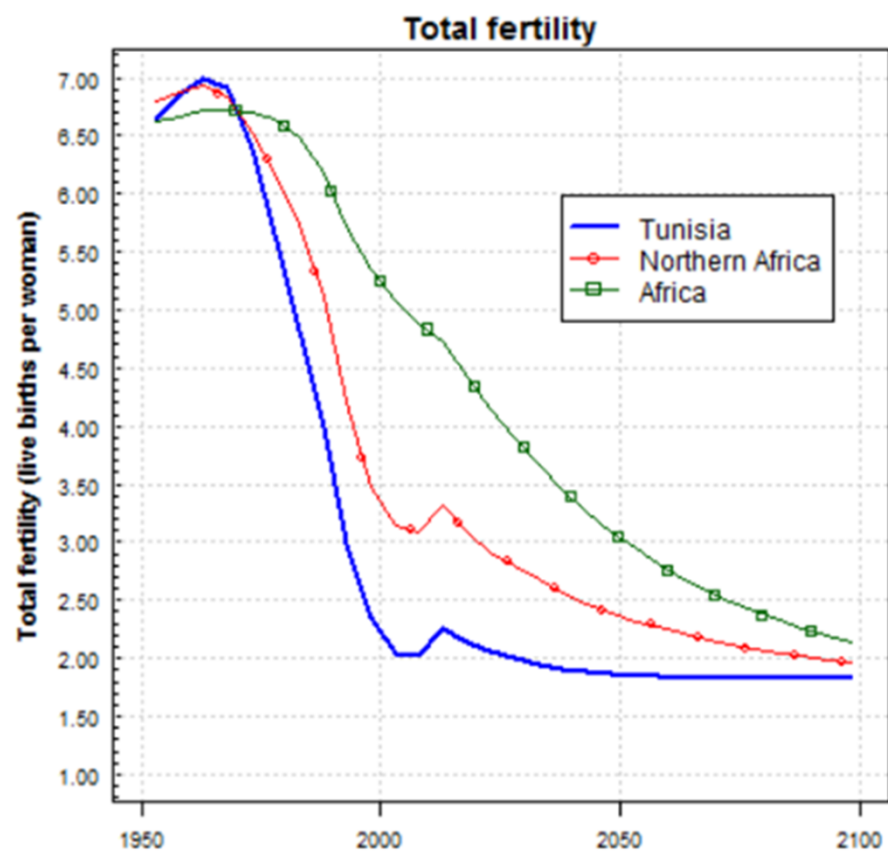
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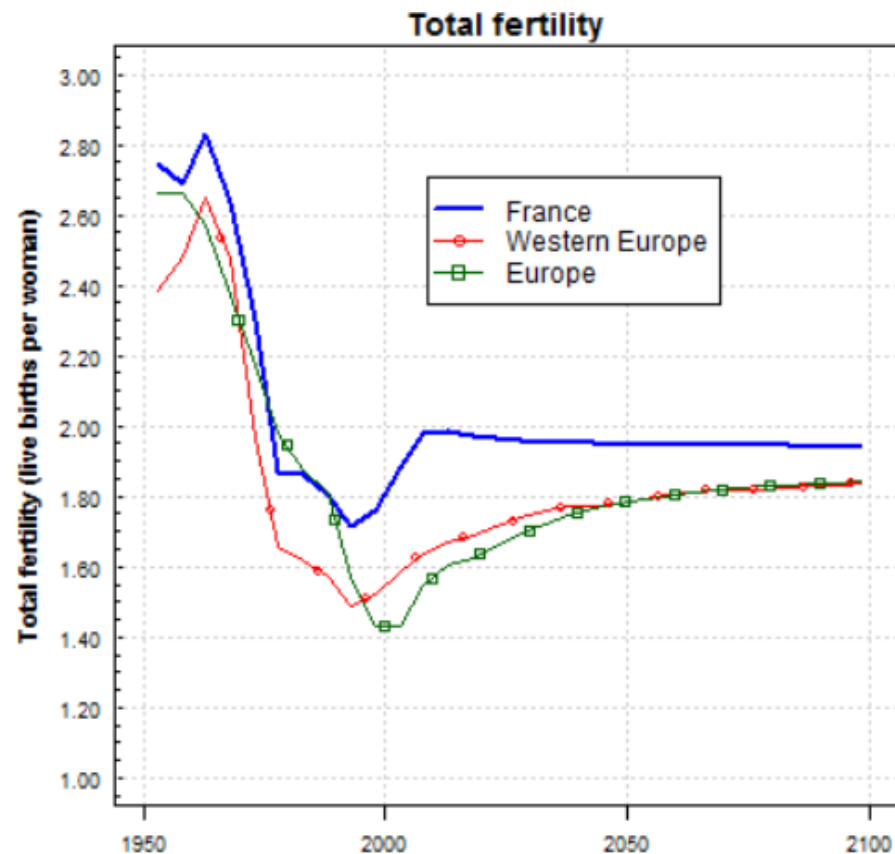
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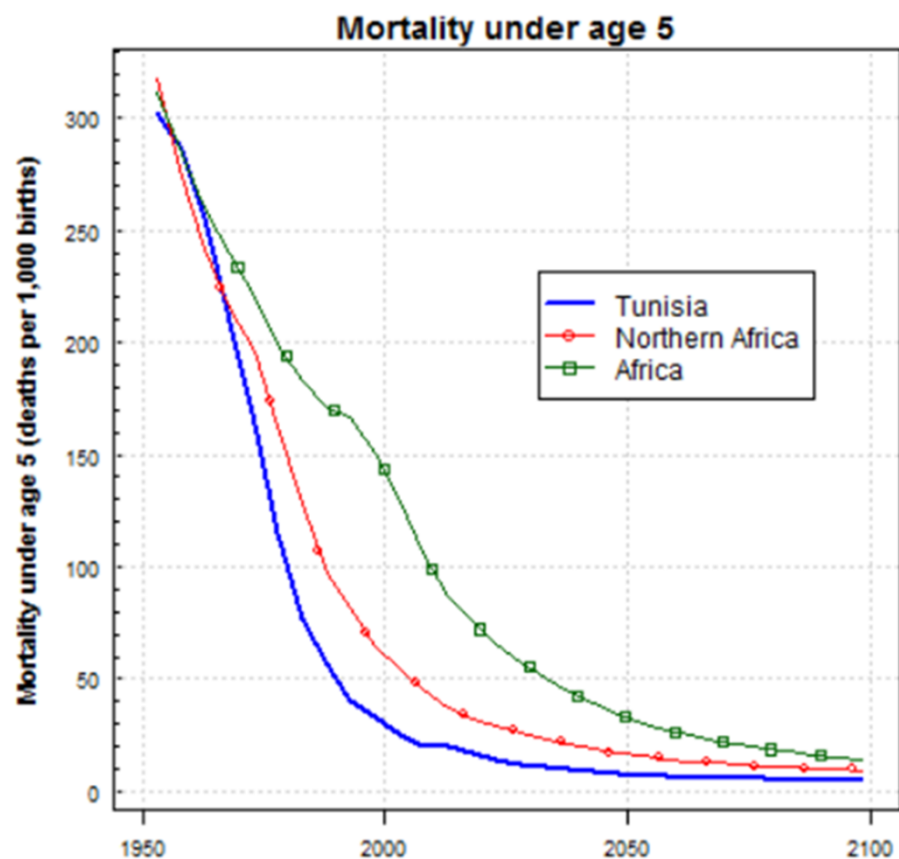
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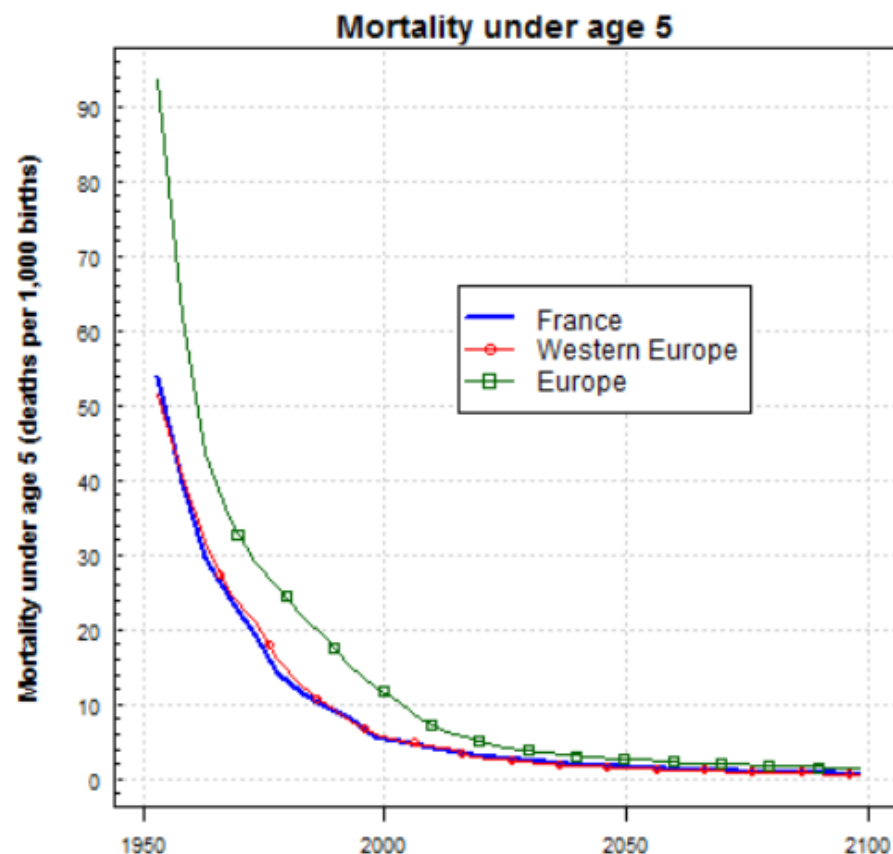
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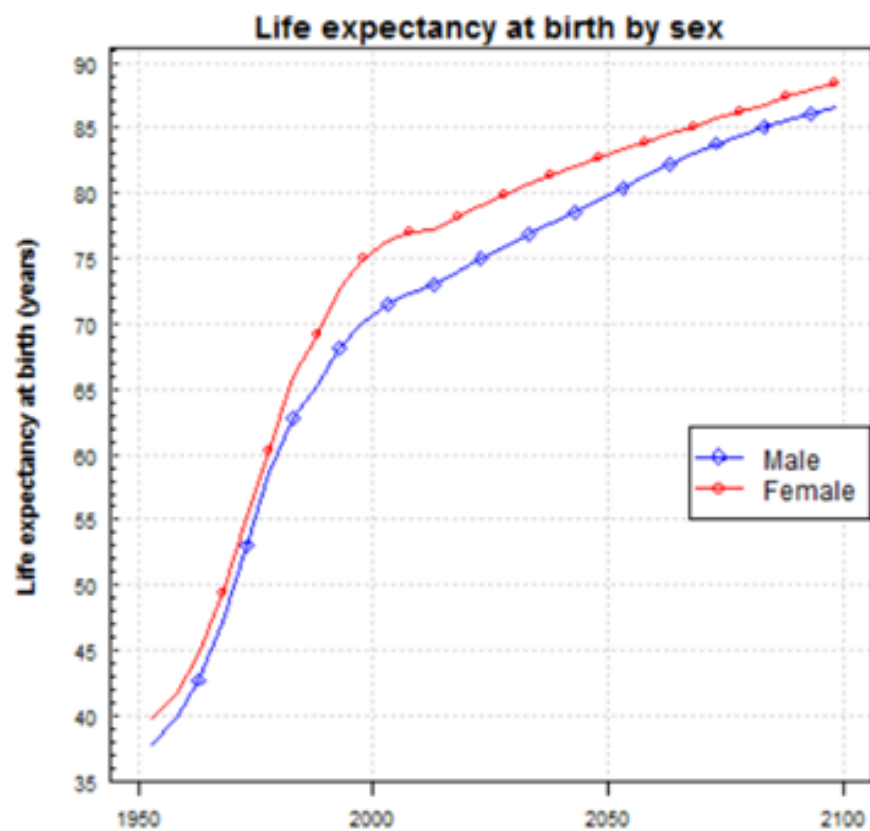
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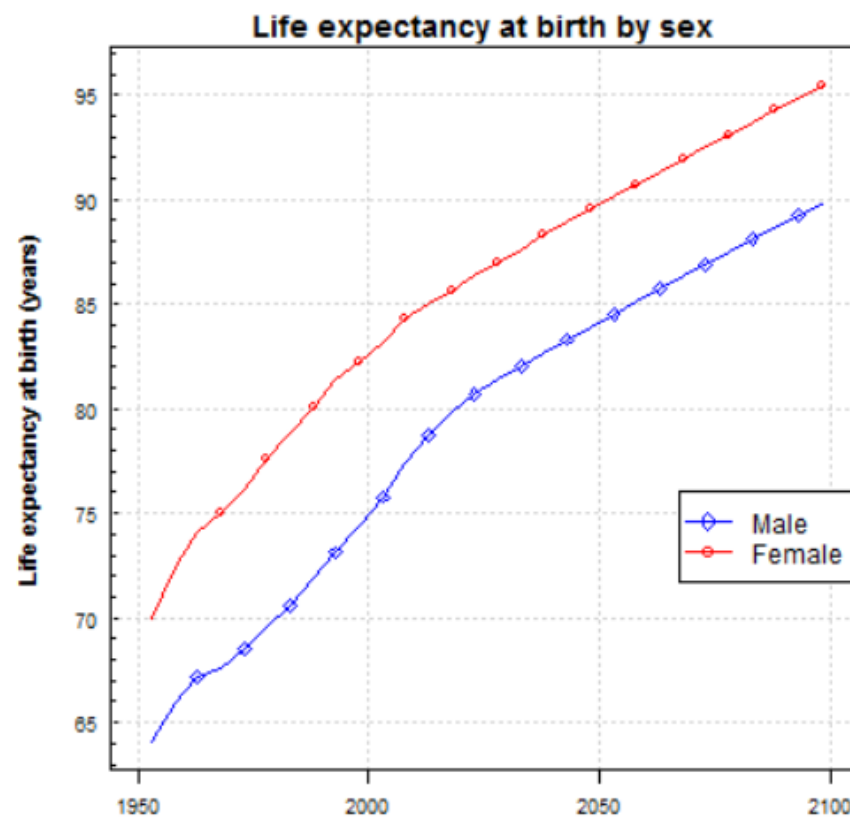
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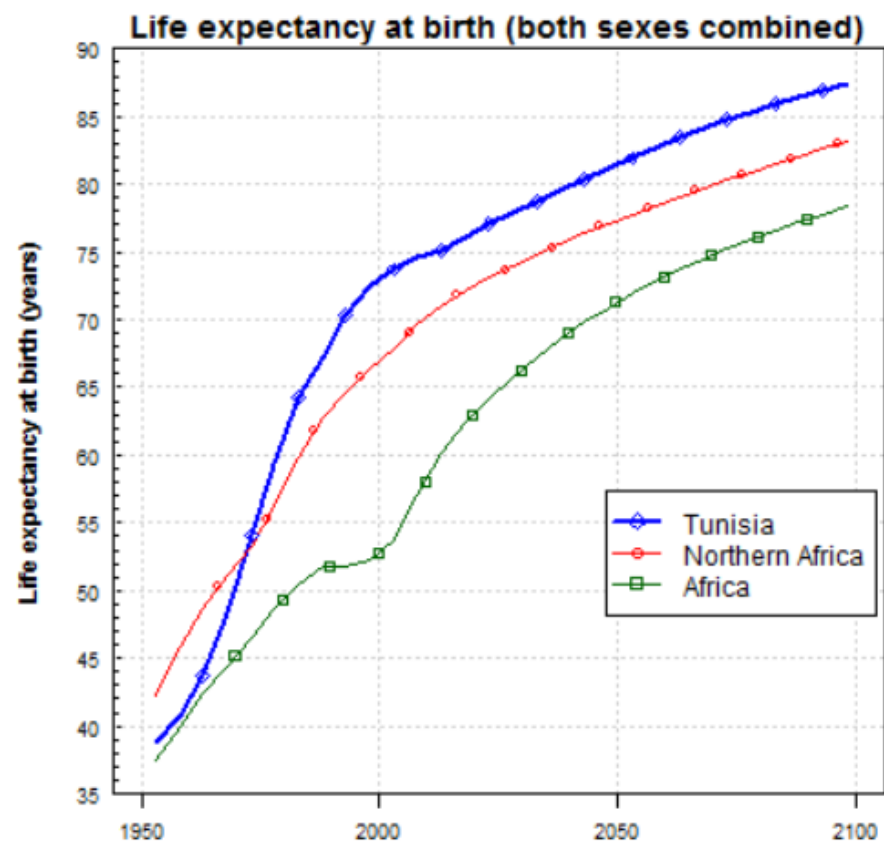
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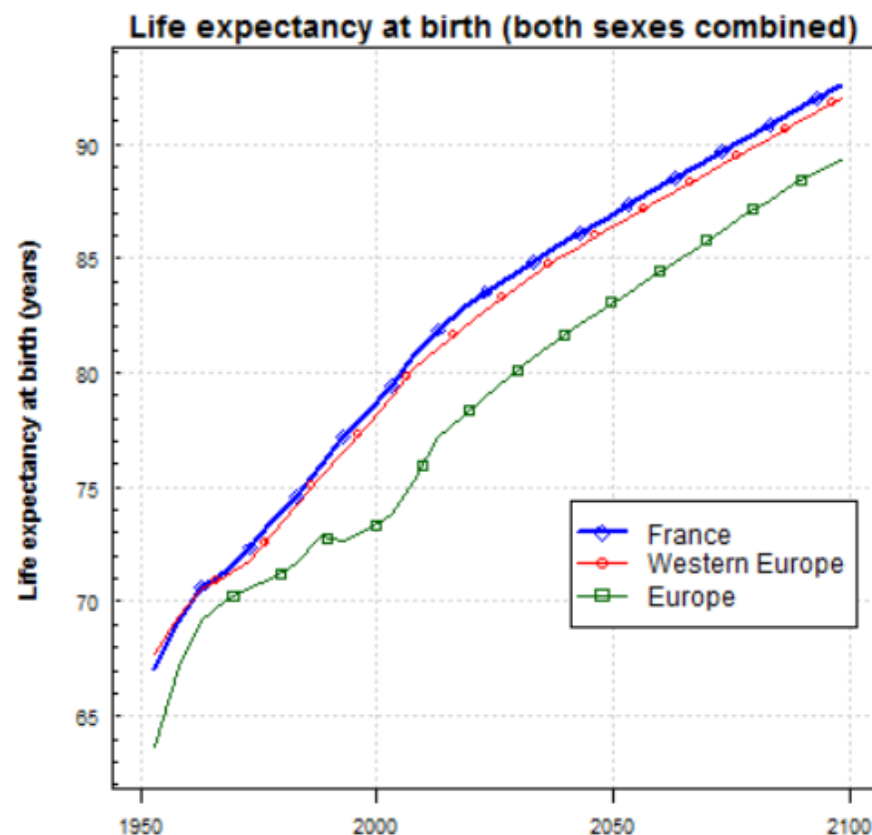
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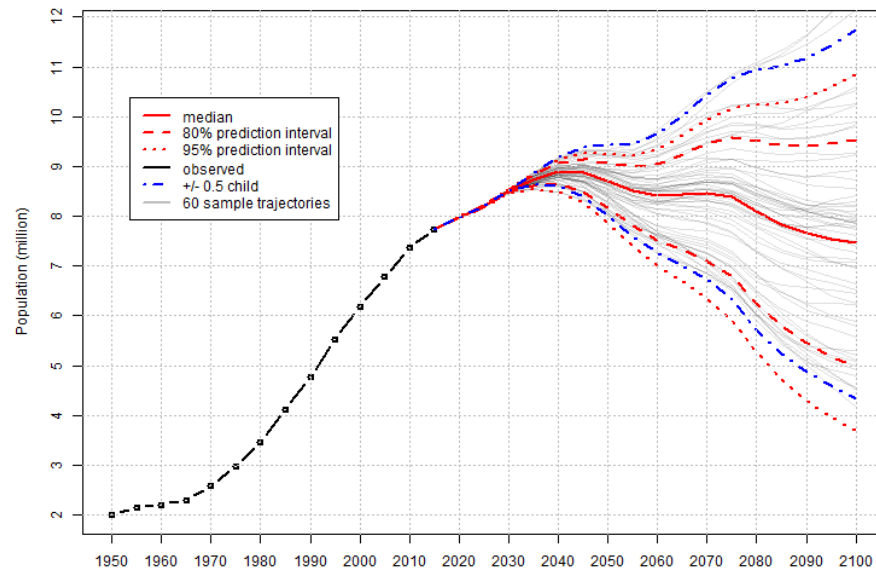
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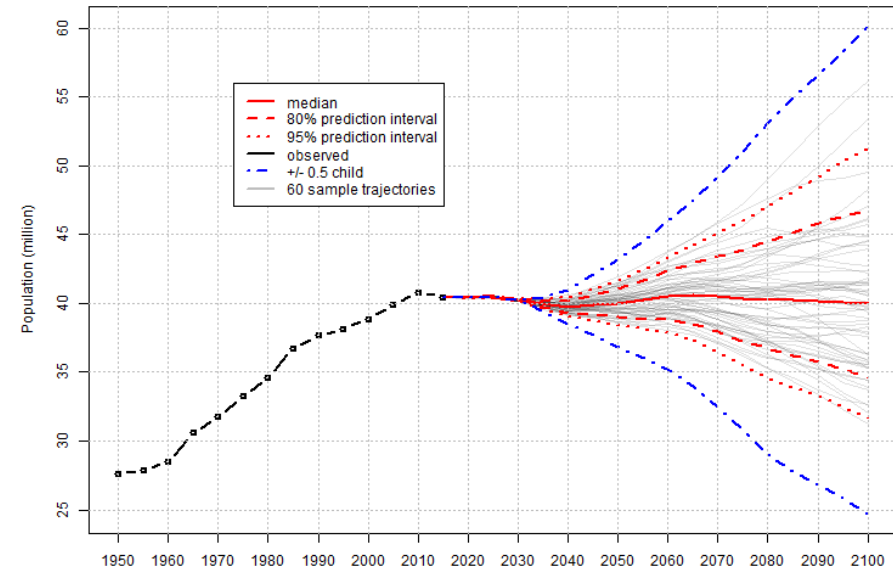
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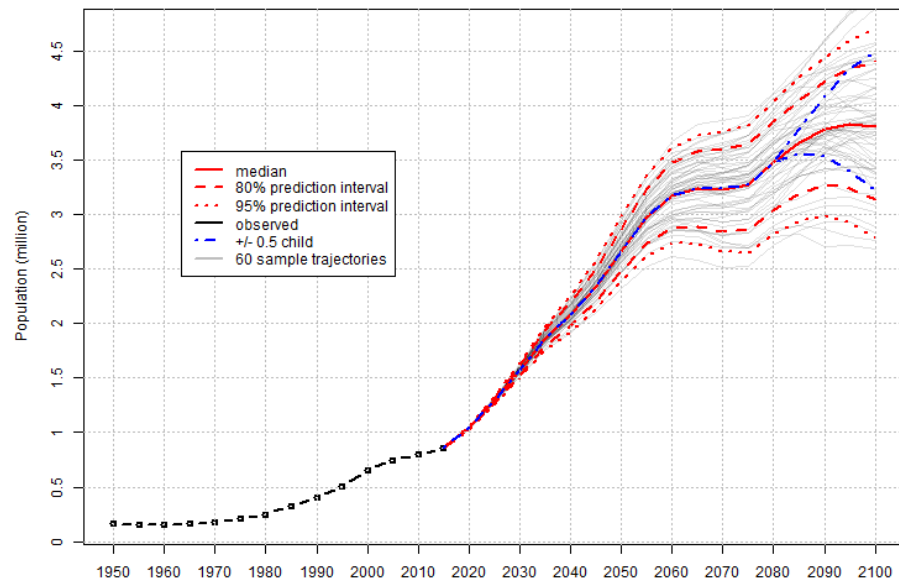
Tunisia: Population (Age 15-64)



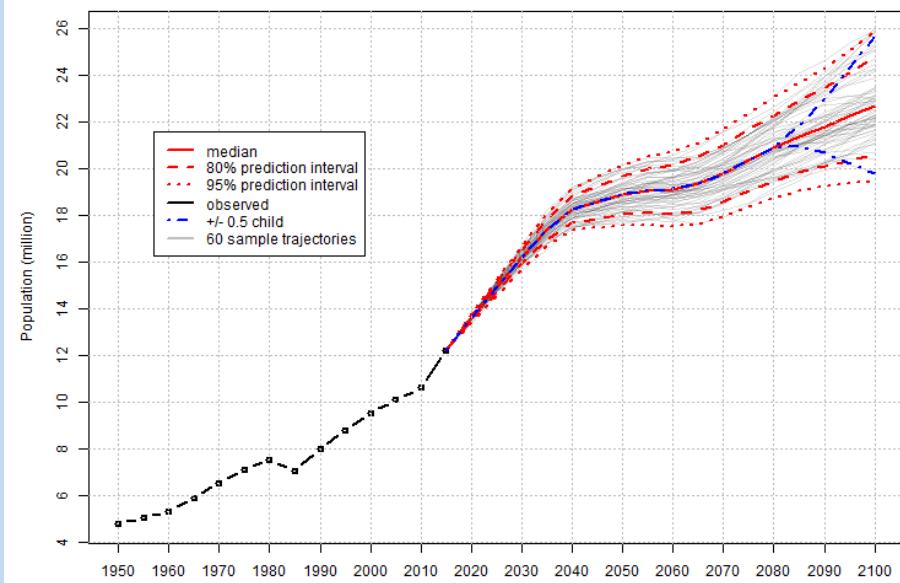
France: Population (Age 15-64)



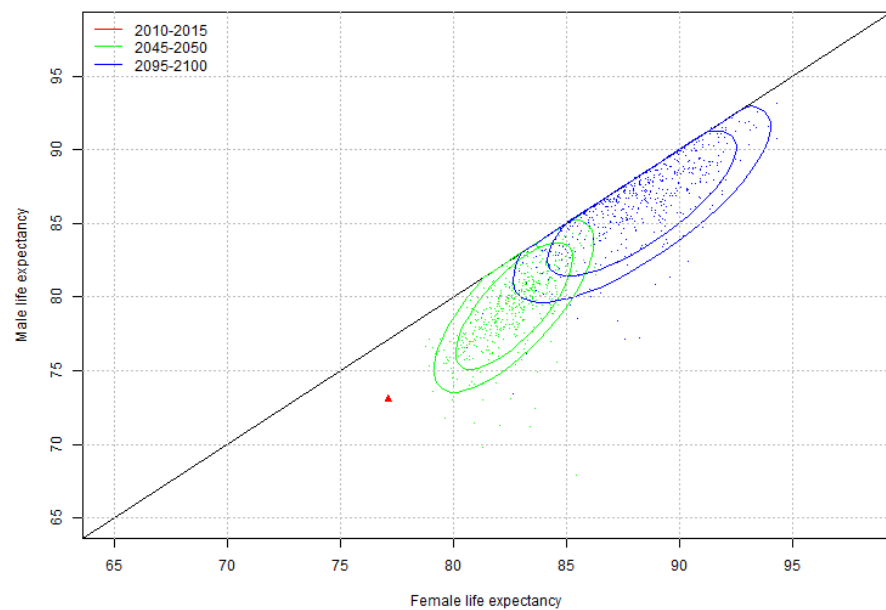
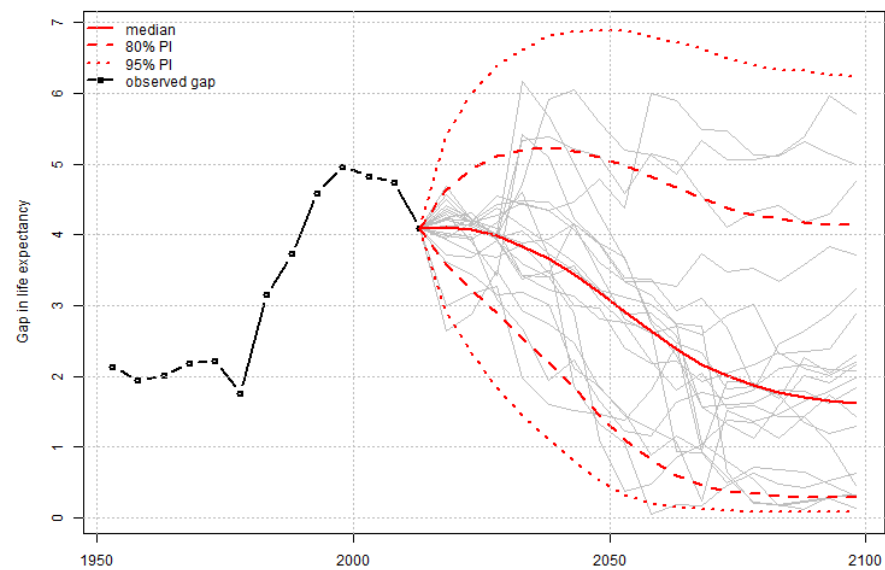
Tunisia: Population (Age 65+)



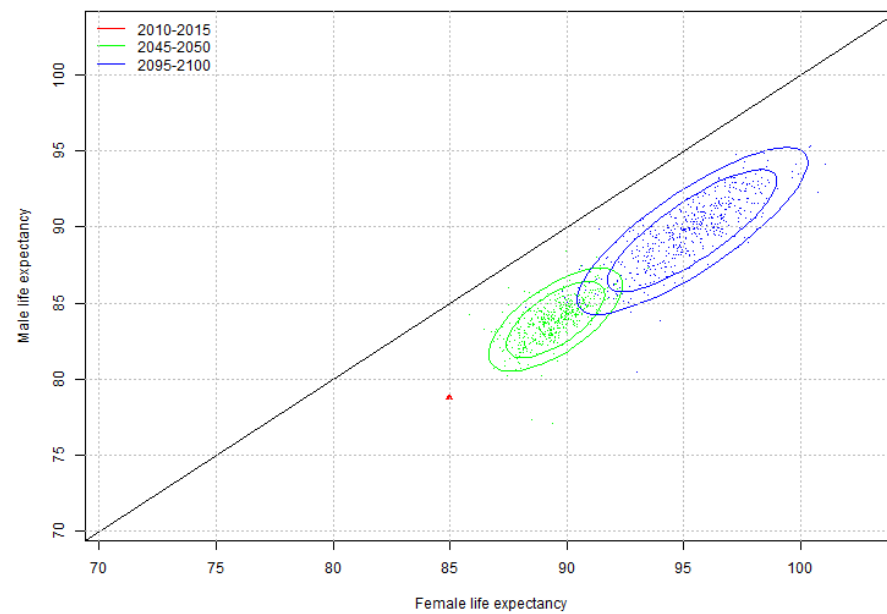
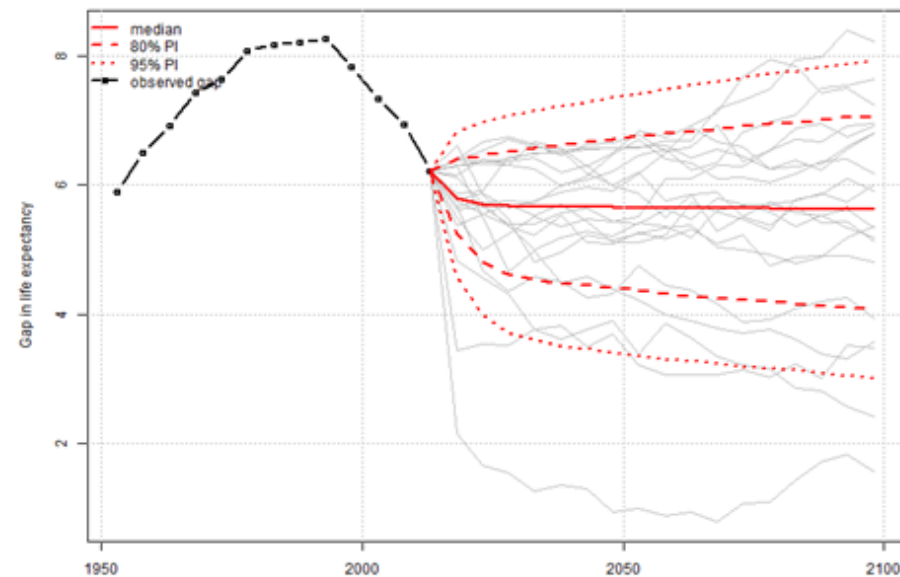
France: Population (Age 65+)



# Tunisia

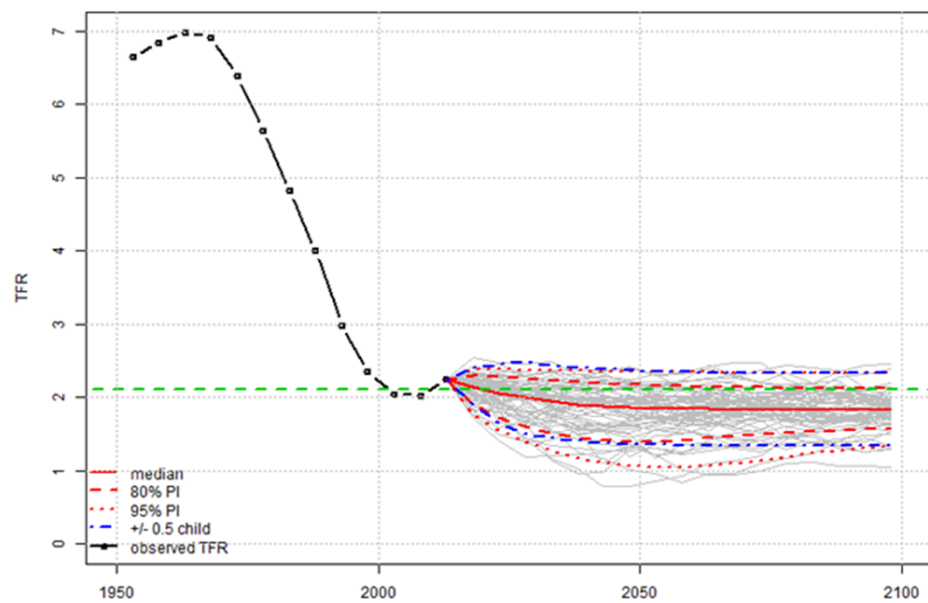


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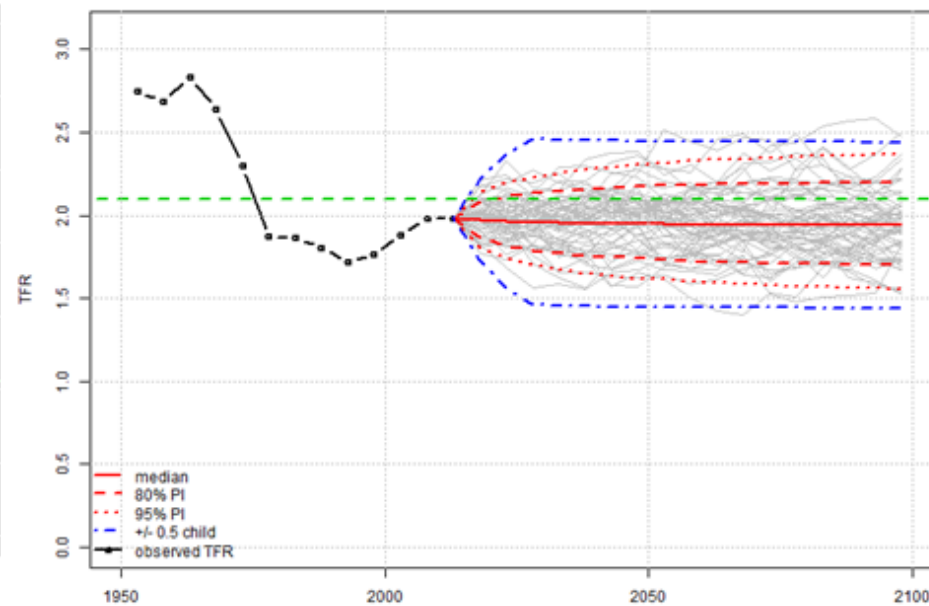


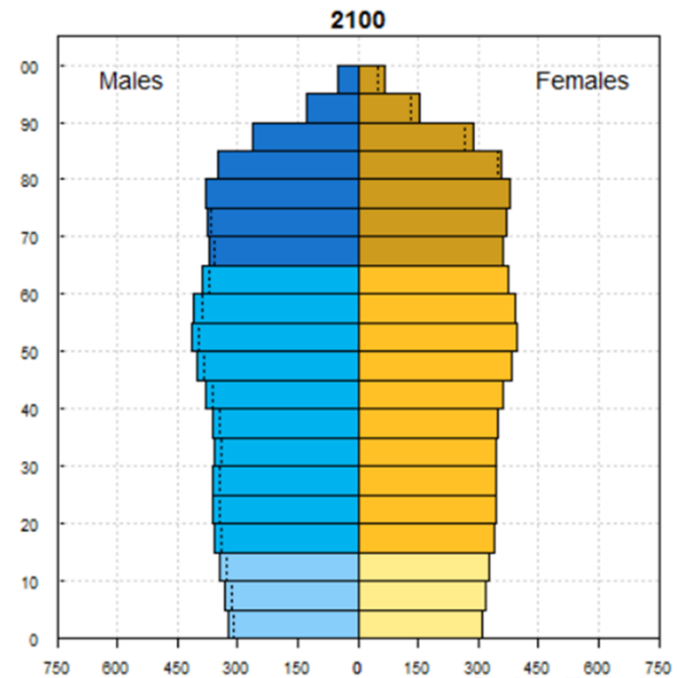
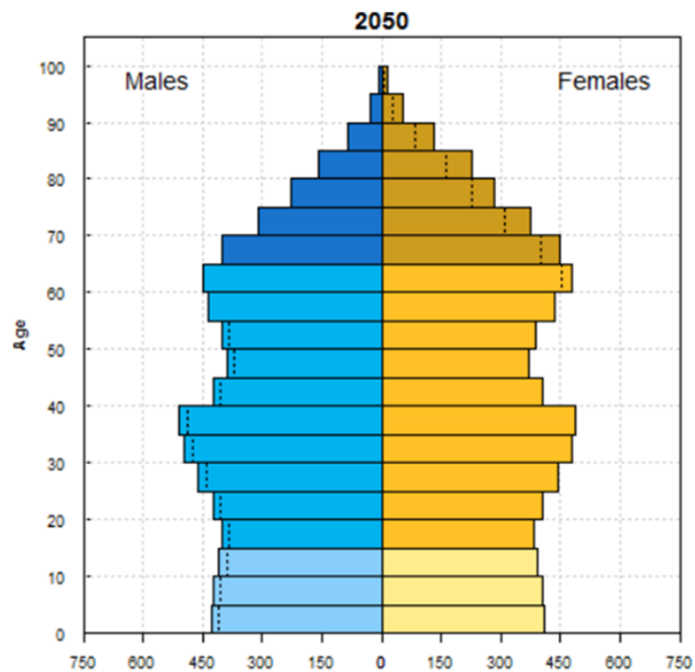
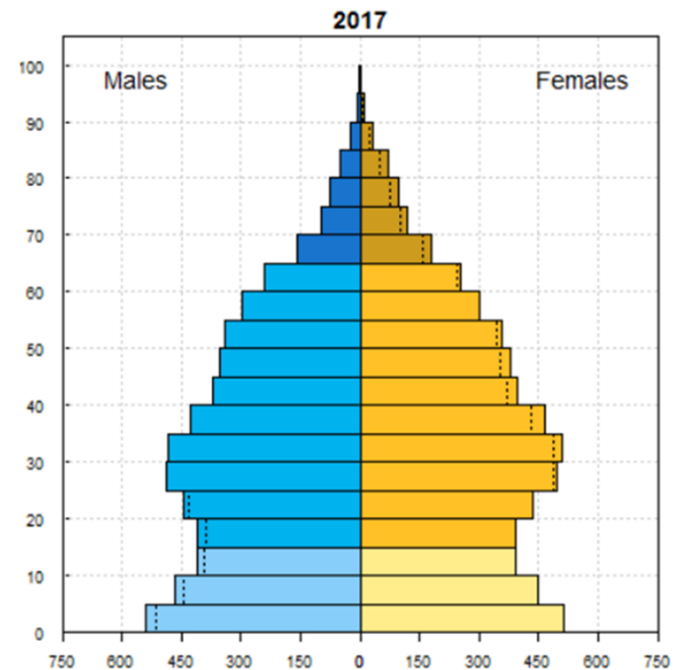
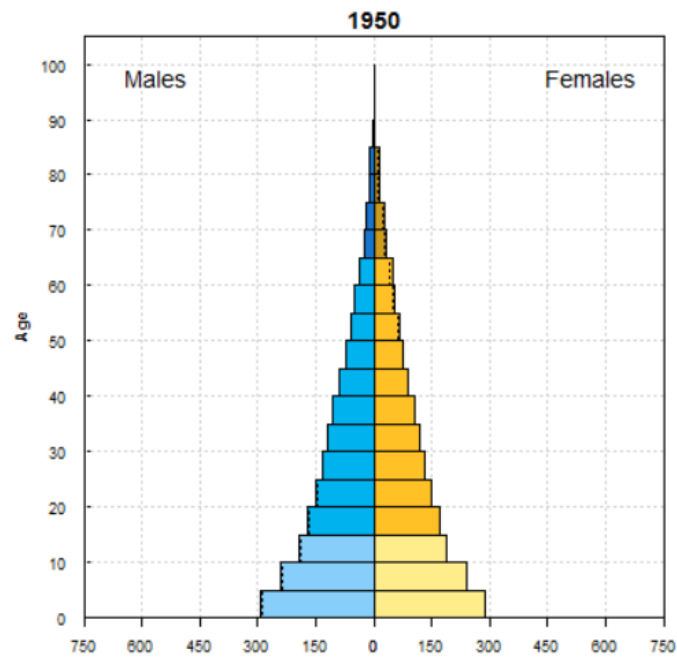


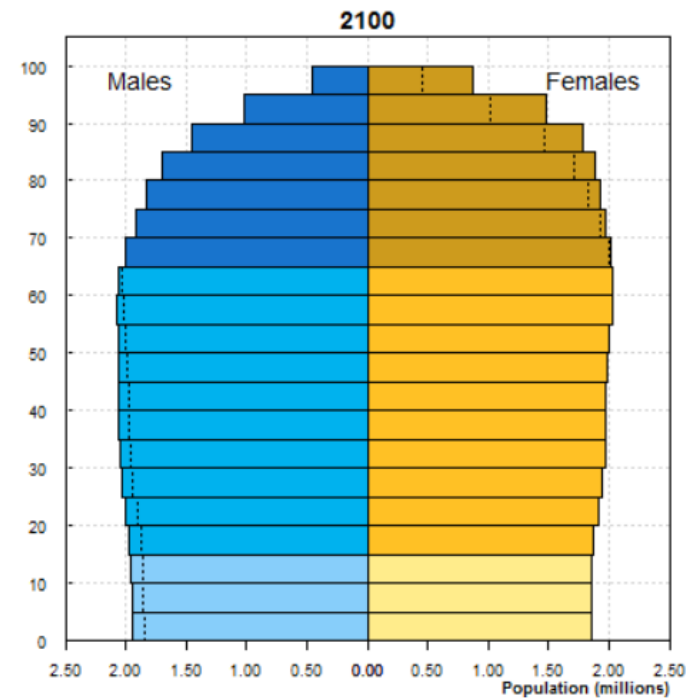
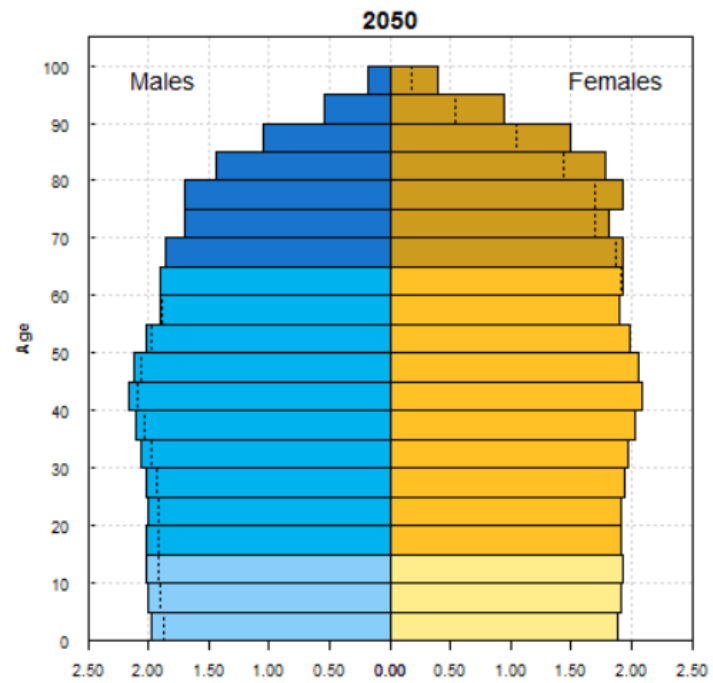
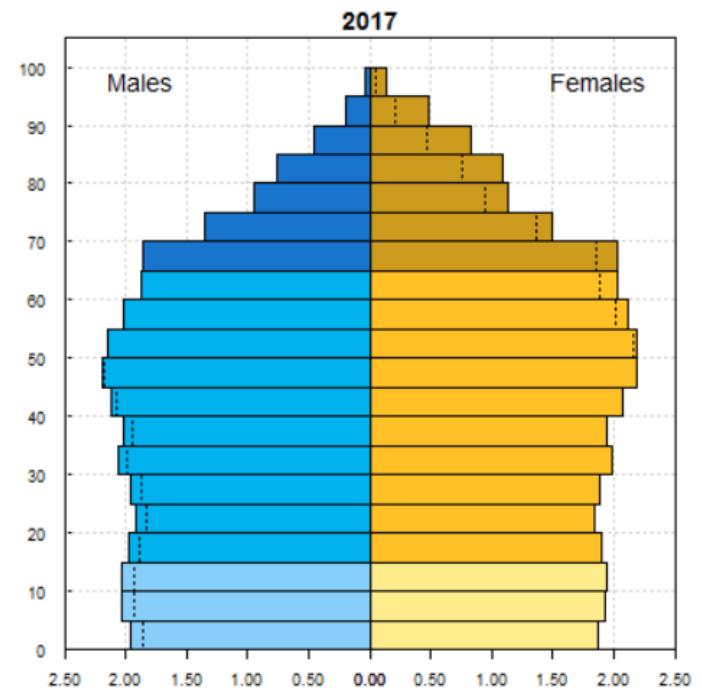
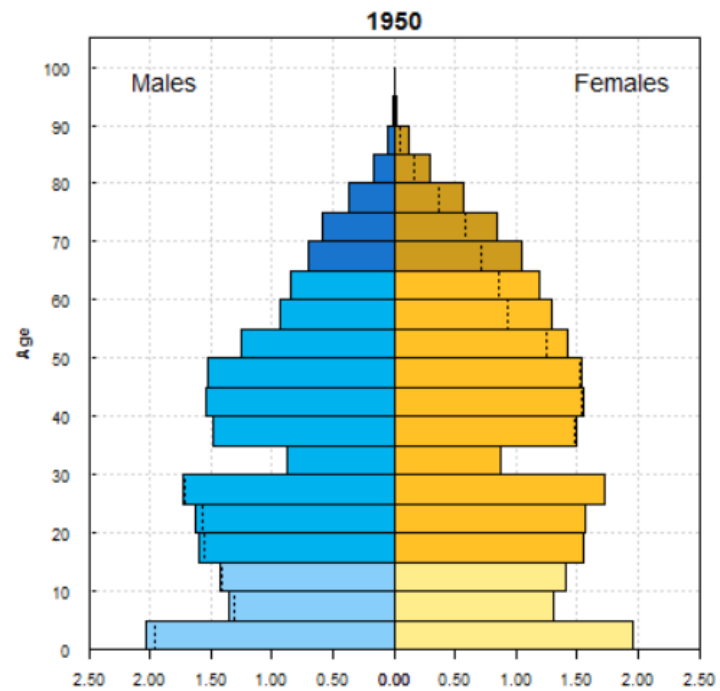
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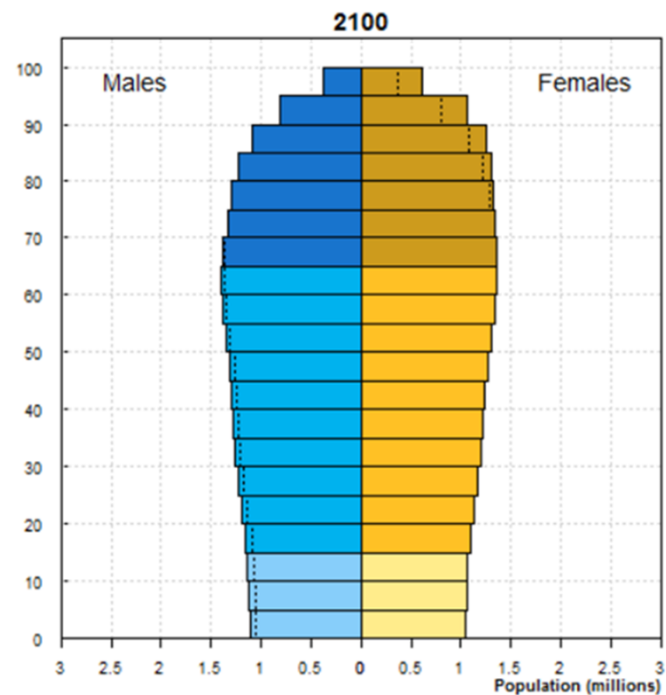
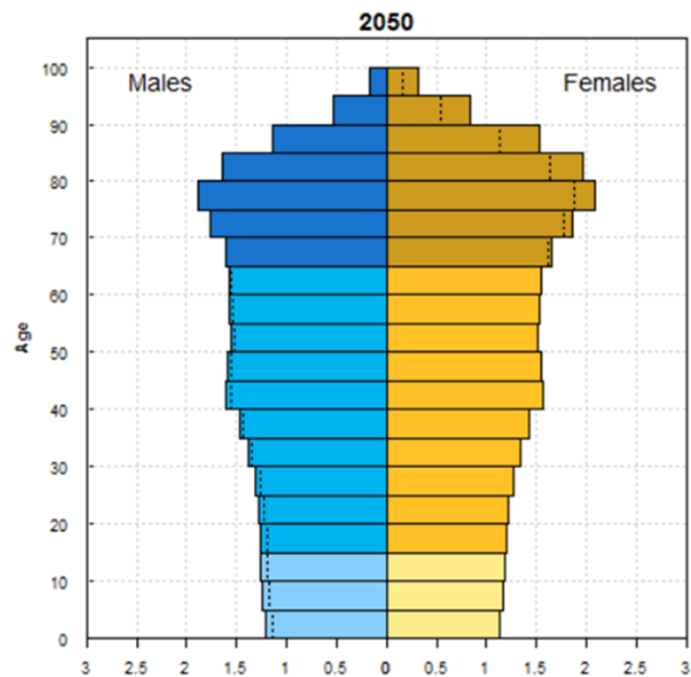
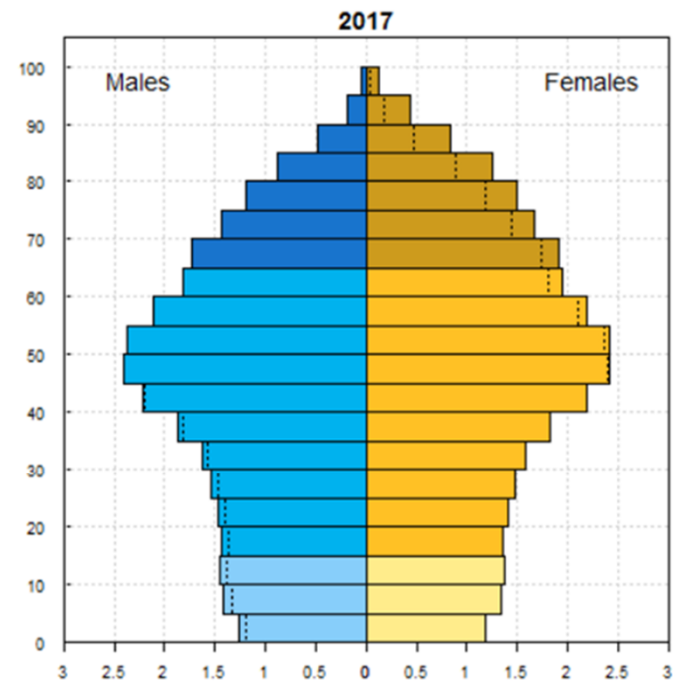
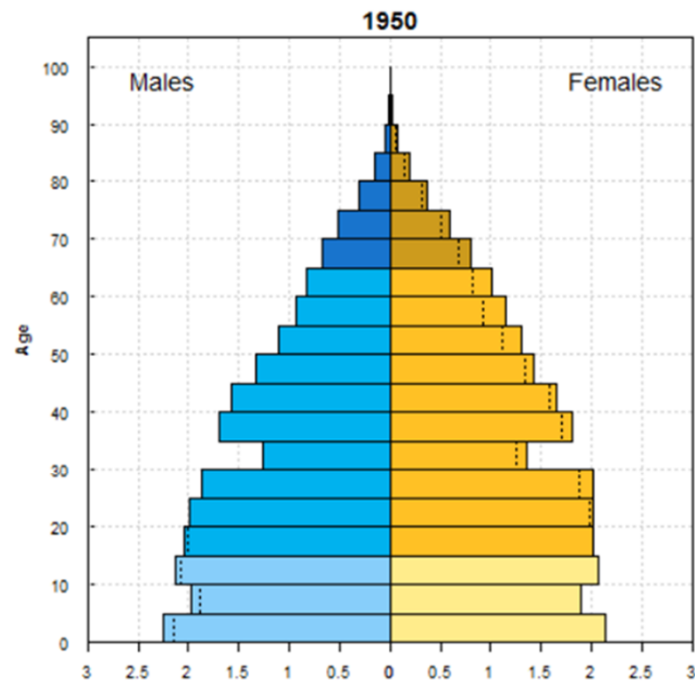


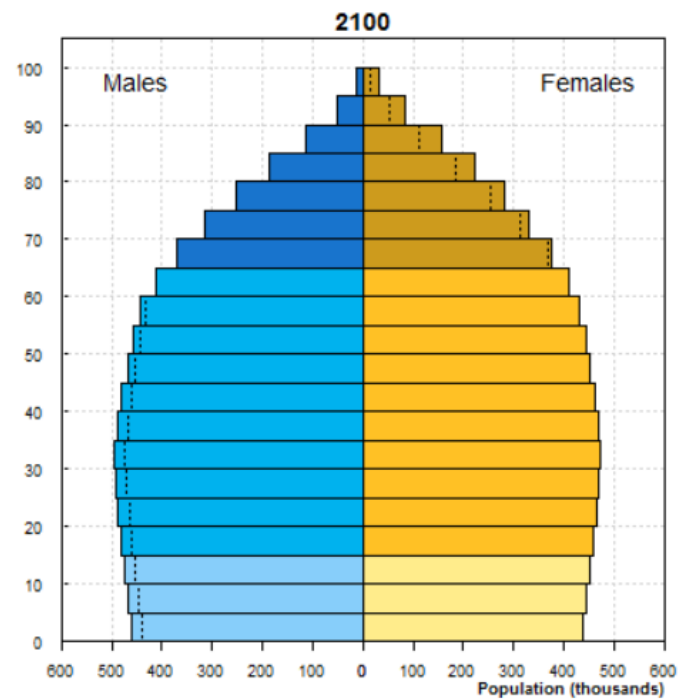
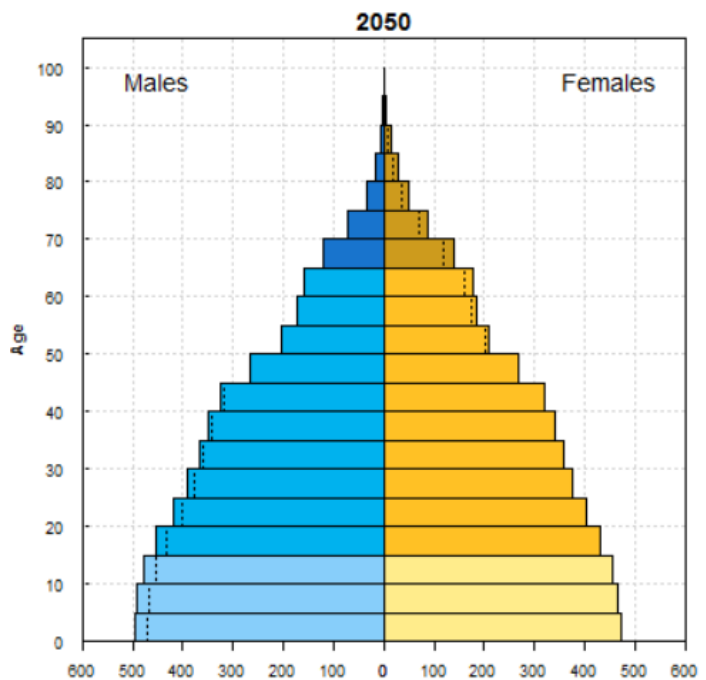
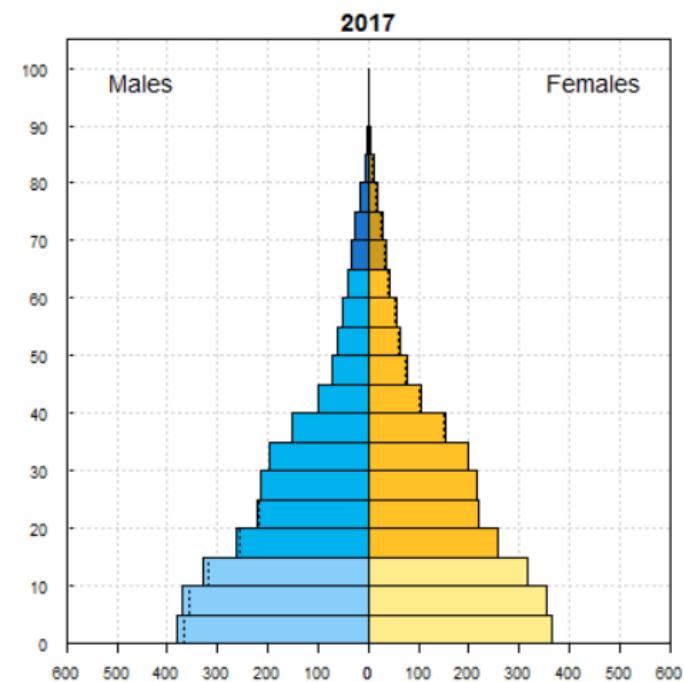
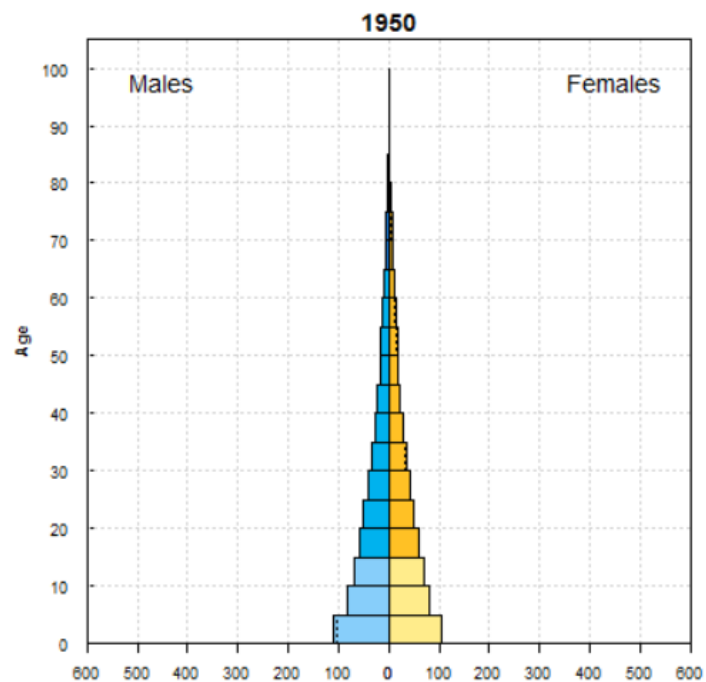
# France











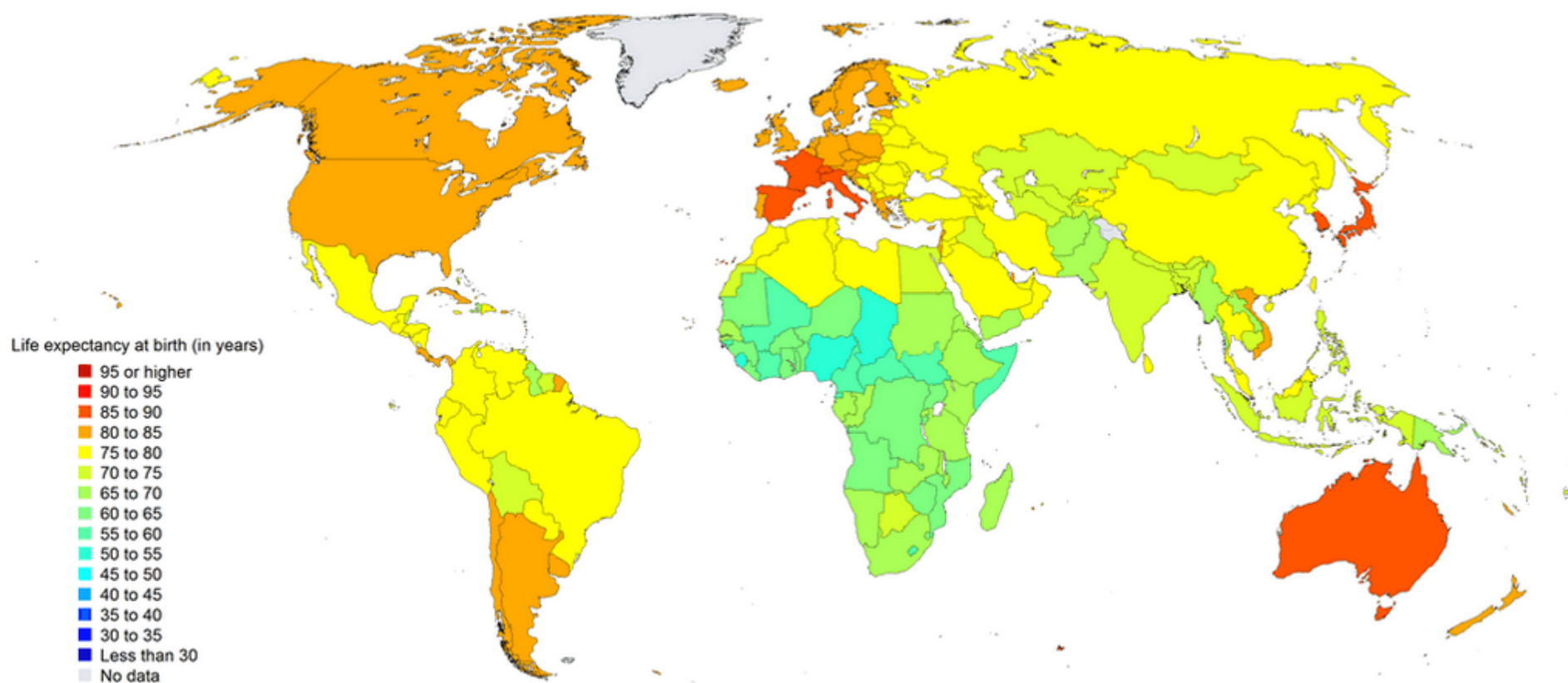


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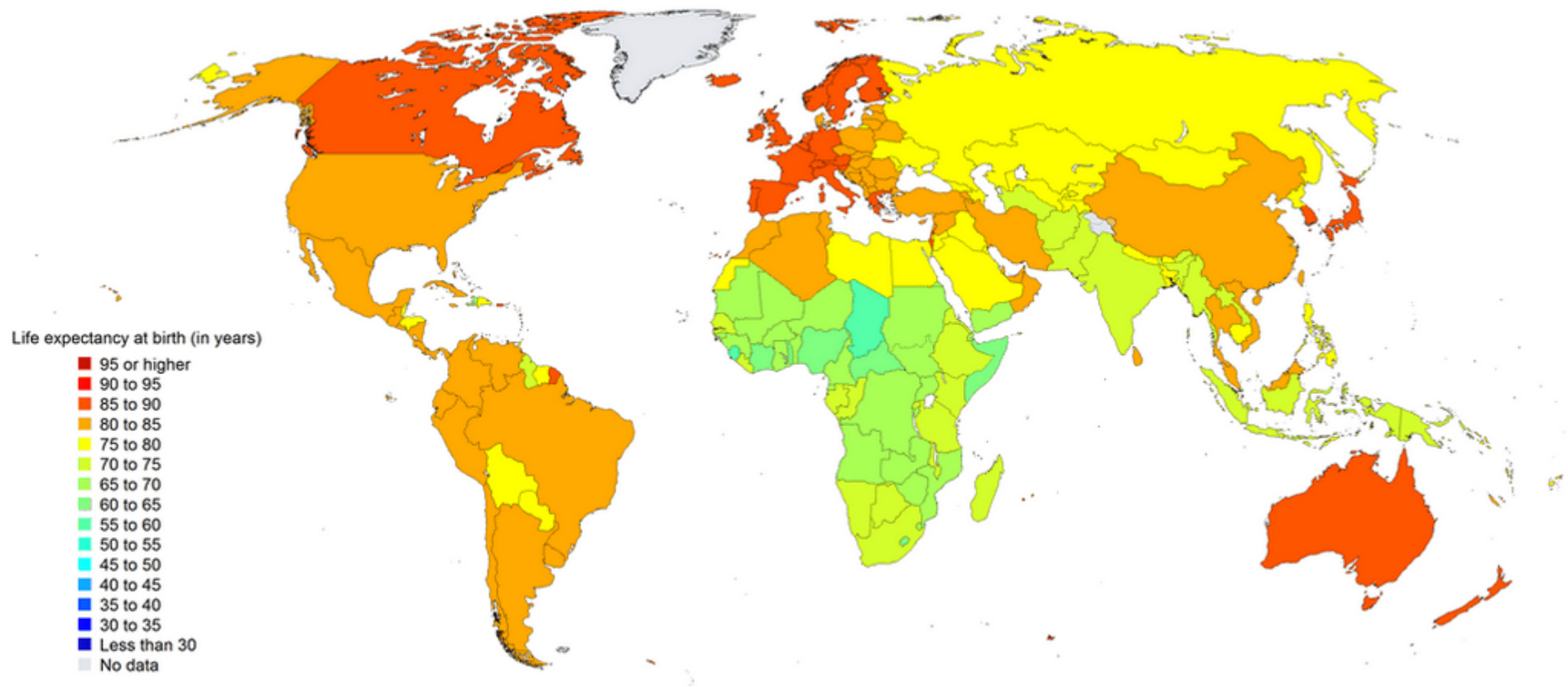
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# Demography «in Maps»

## Life expectancy at birth, females, medium projection, 2015-2020

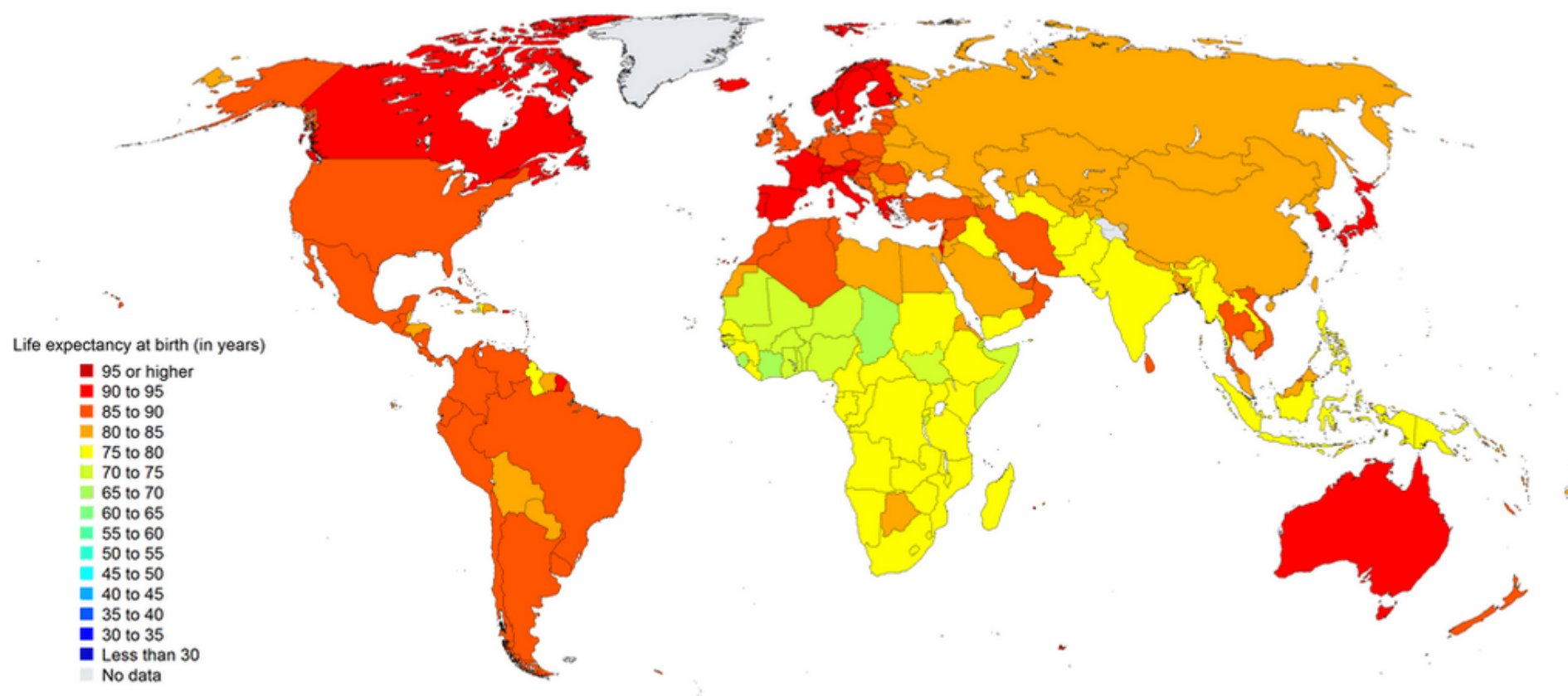


### Life expectancy at birth, females, medium projection, 2030-2035

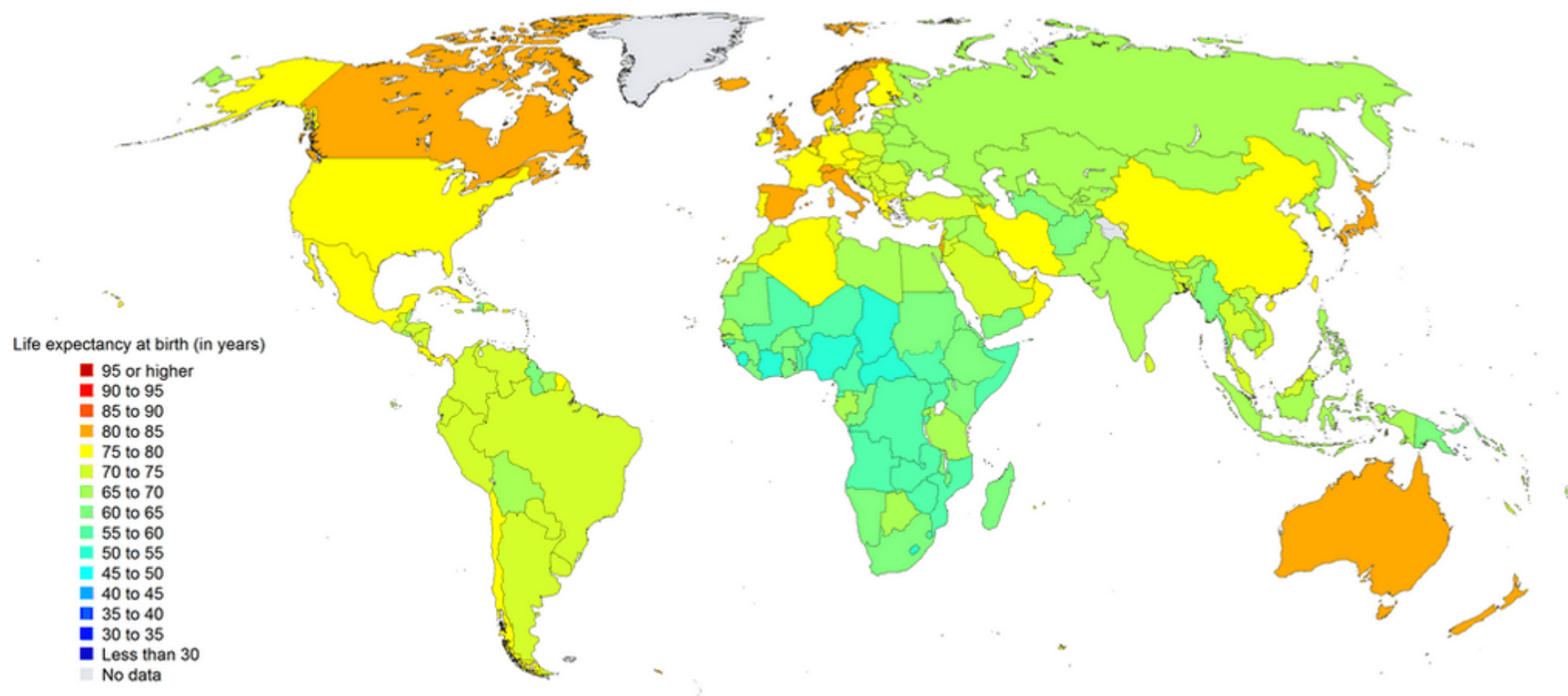




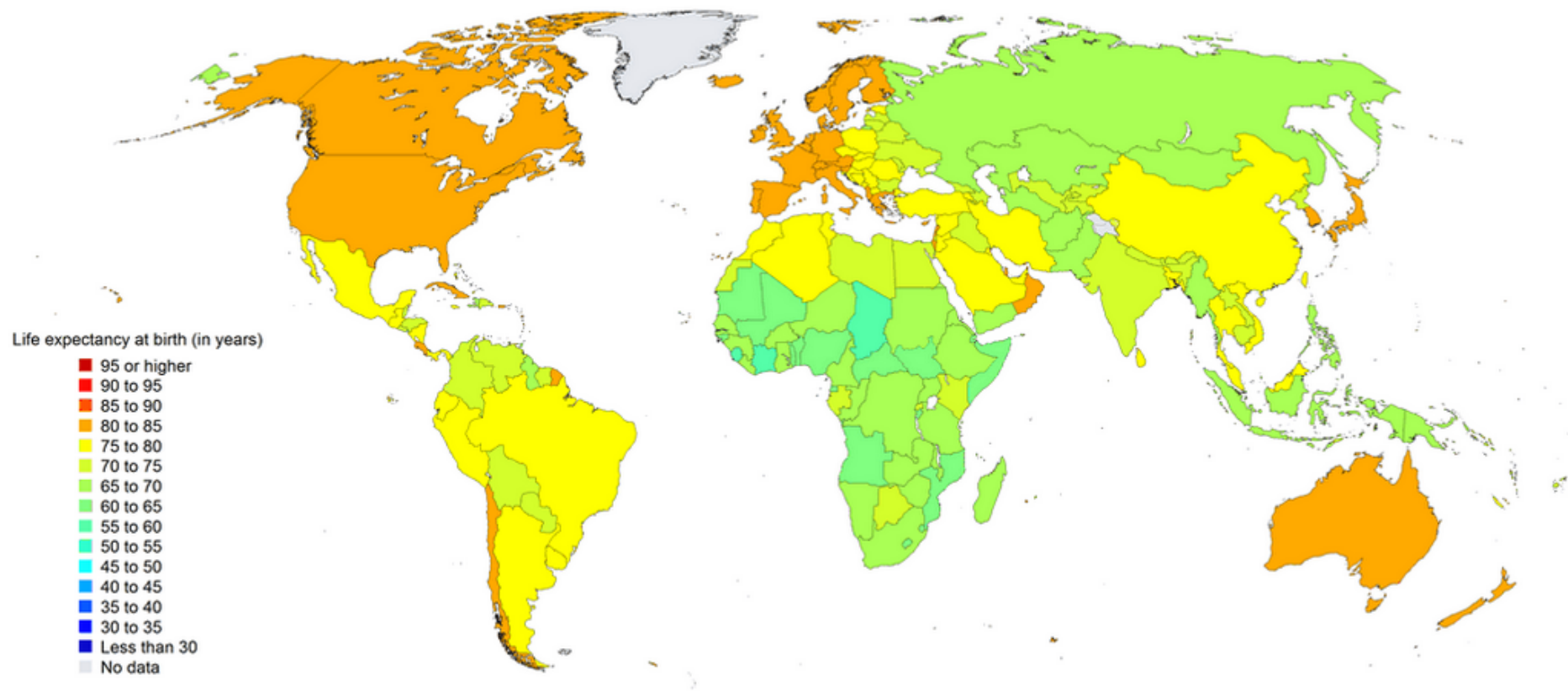
## Life expectancy at birth, females, medium projection, 2065-2070



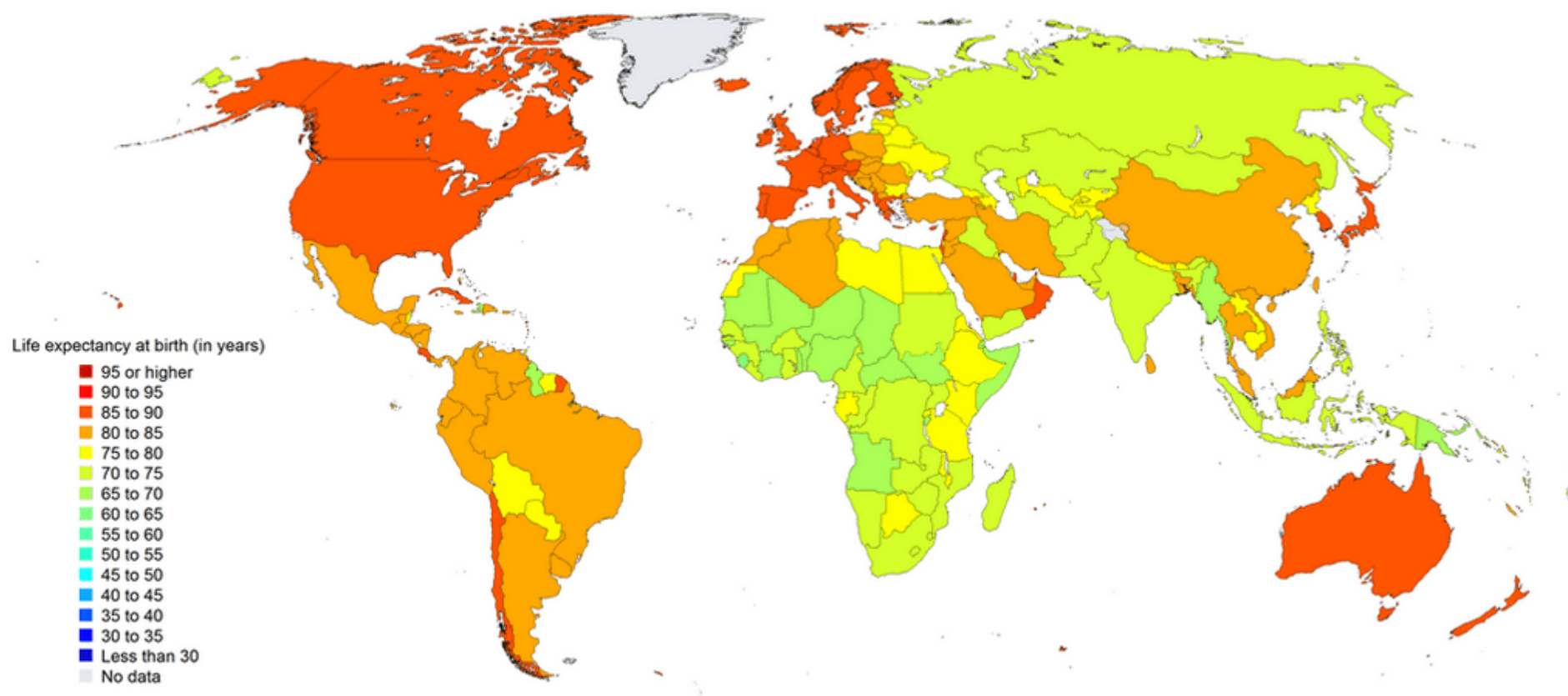
## Life expectancy at birth, males, medium projection, 2015-2020



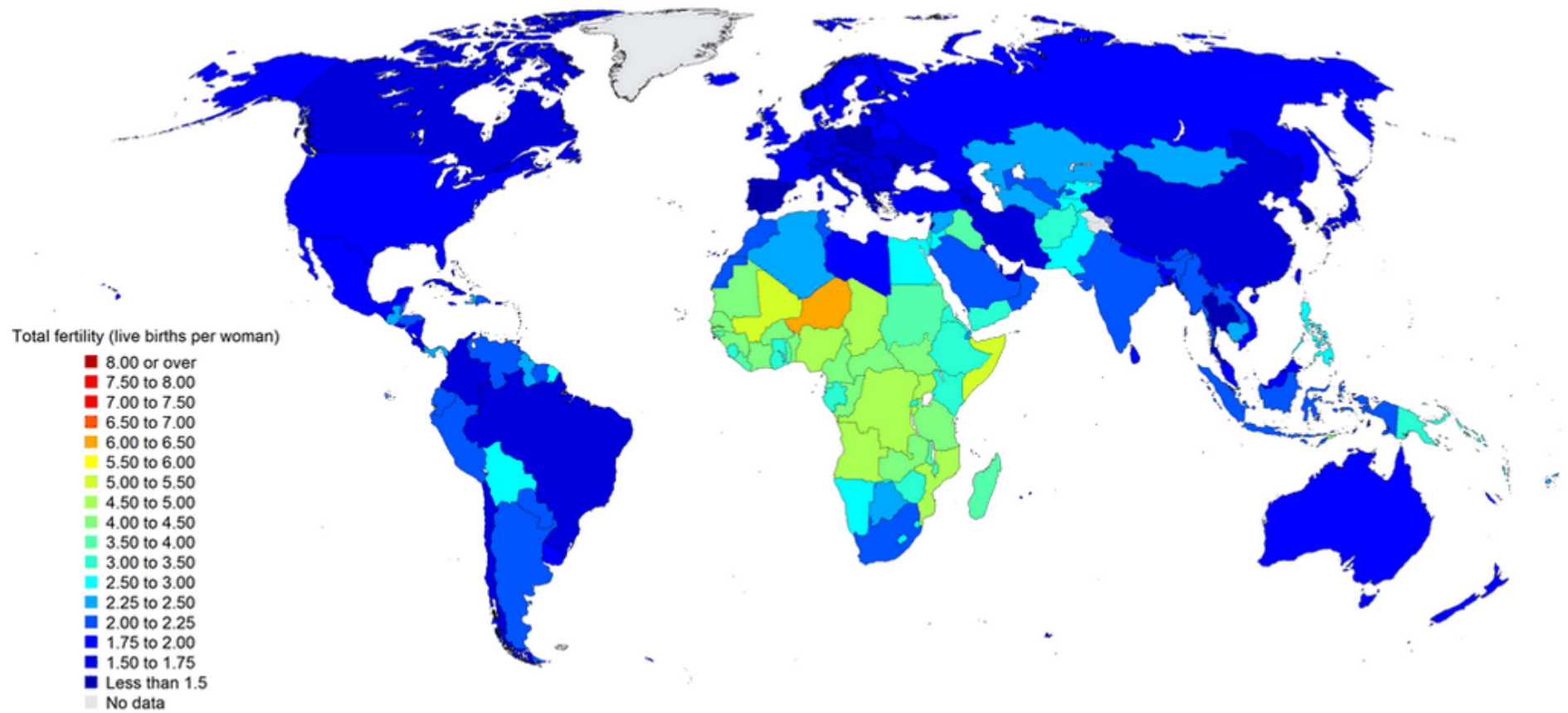
## Life expectancy at birth, males, medium projection, 2035-2040



## Life expectancy at birth, males, medium projection, 2065-2070

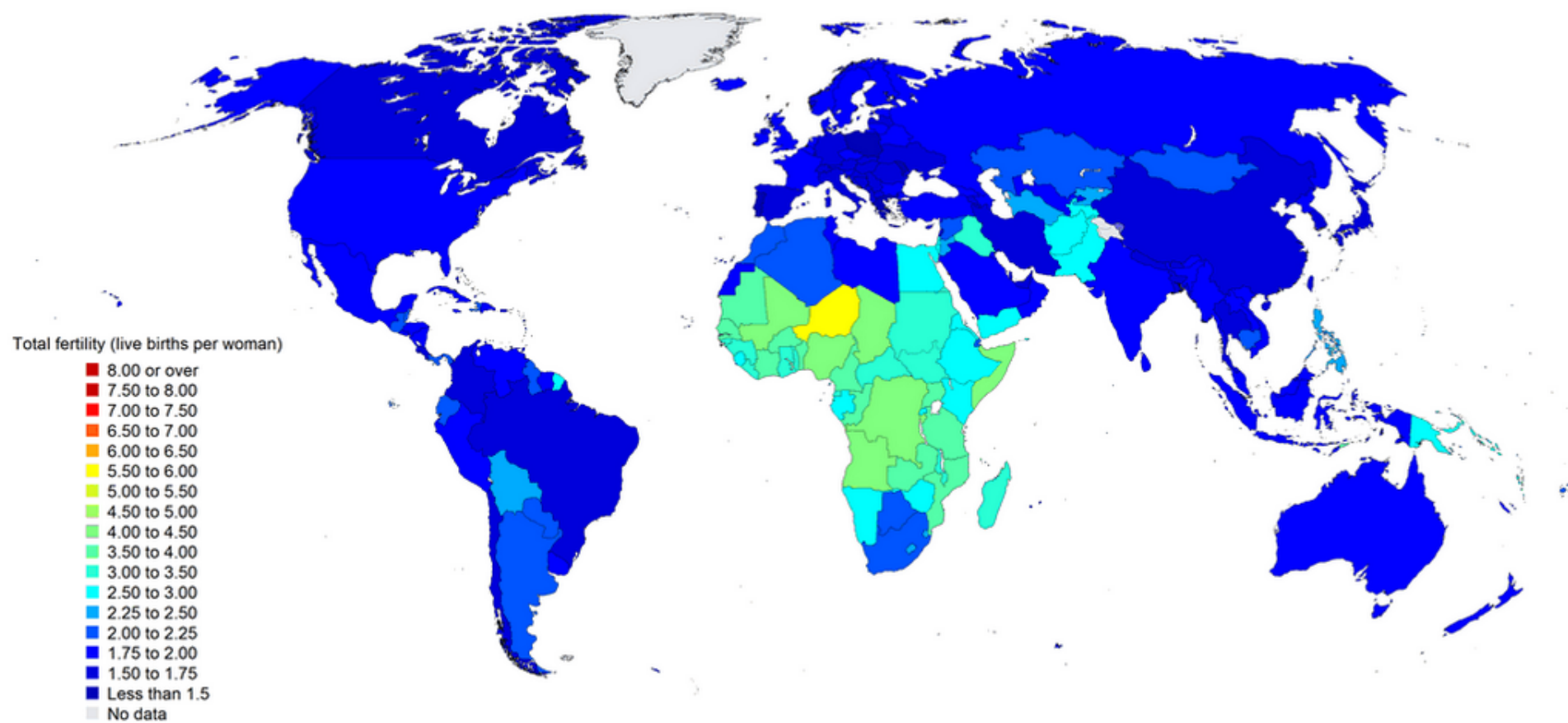


## Total fertility, medium projection, 2025-2030

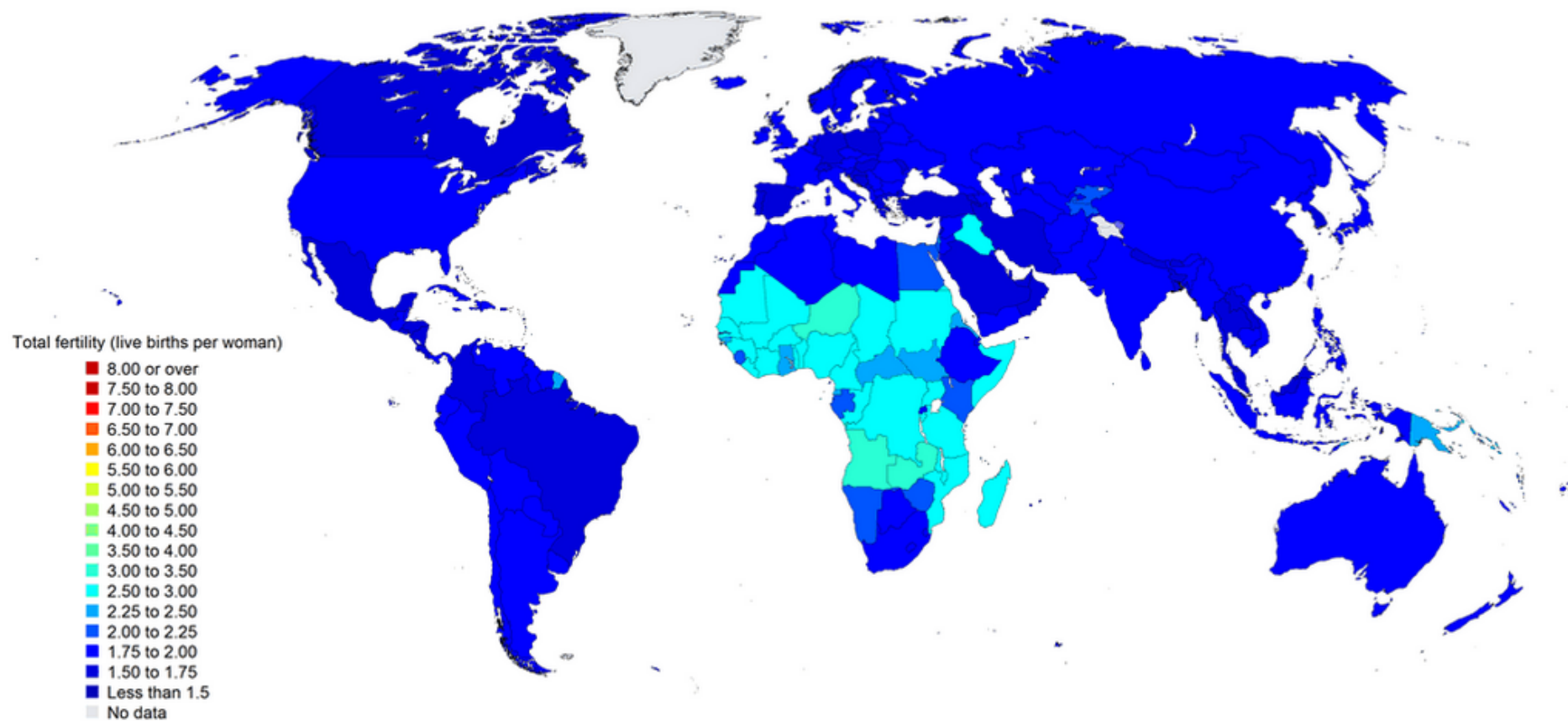




## Total fertility, medium projection, 2035-2040



## Total fertility, medium projection, 2065-2070

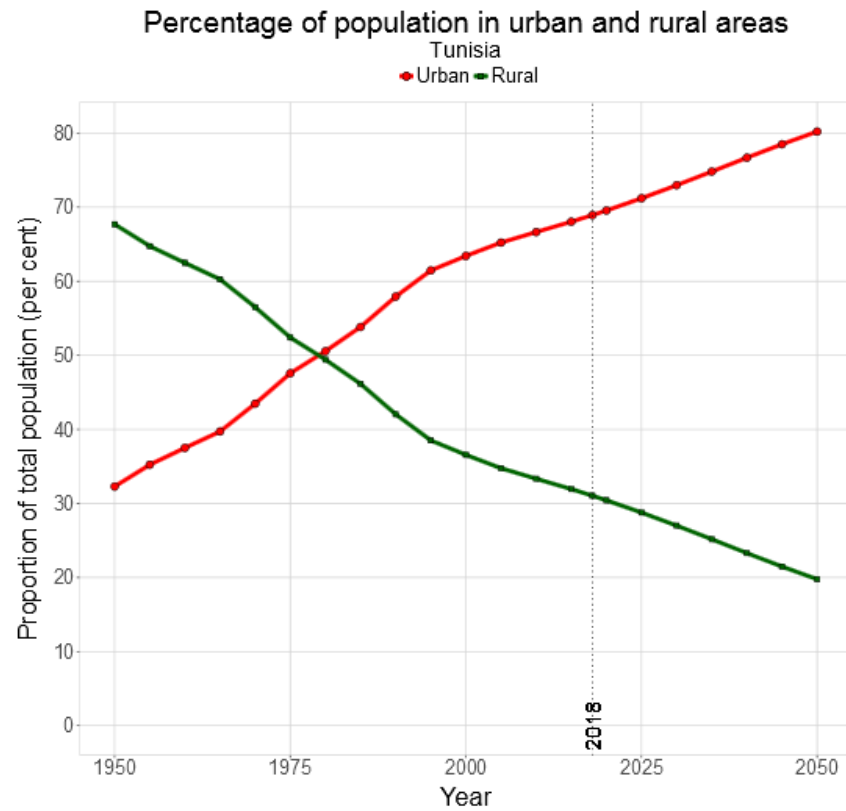




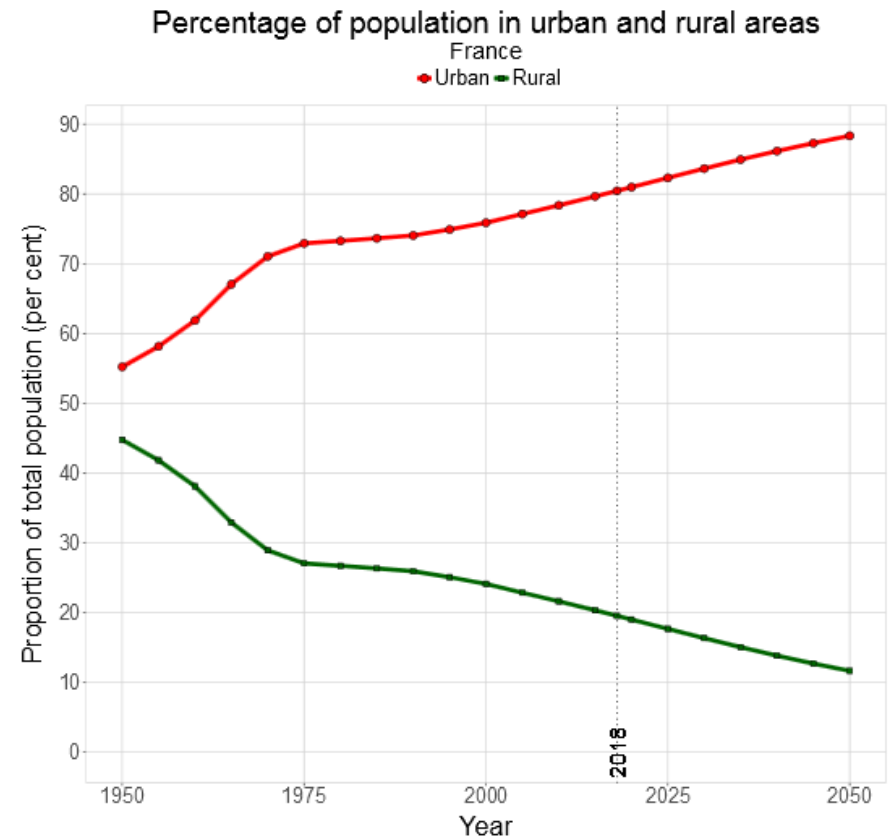
# Urban and Rurale Areas



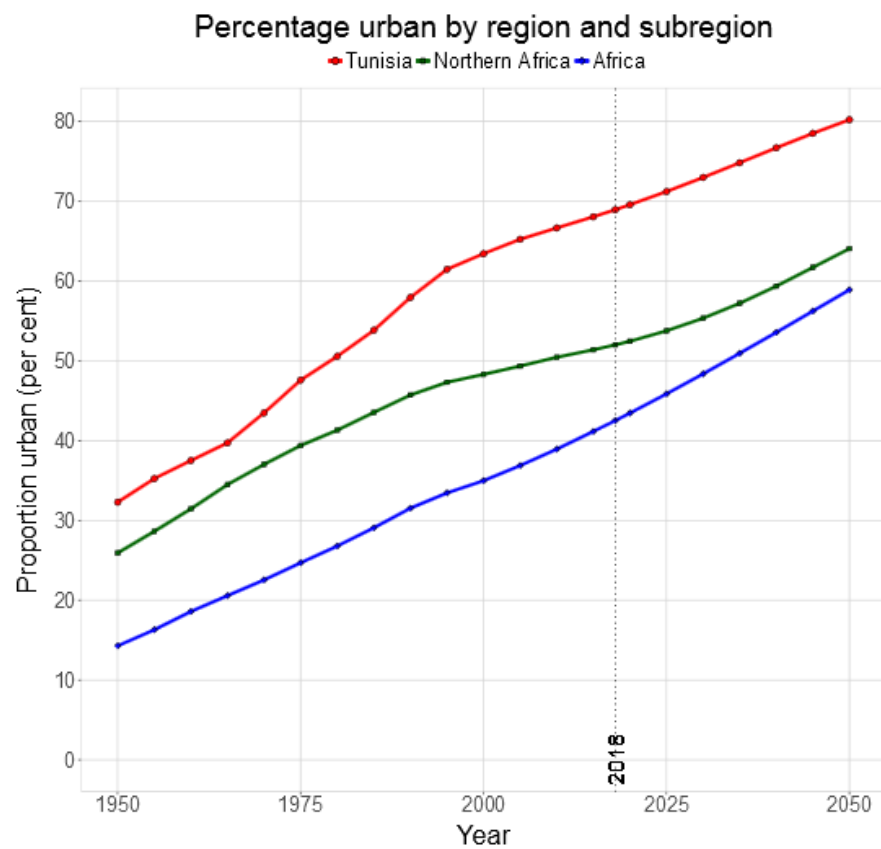
# Tunisia



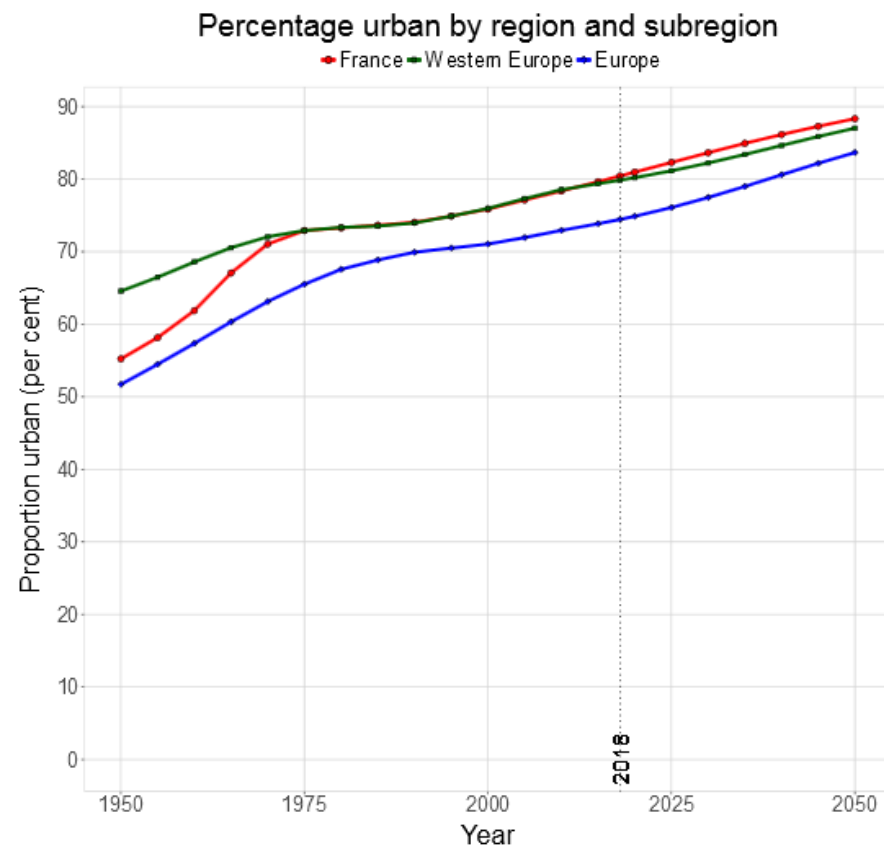
# France



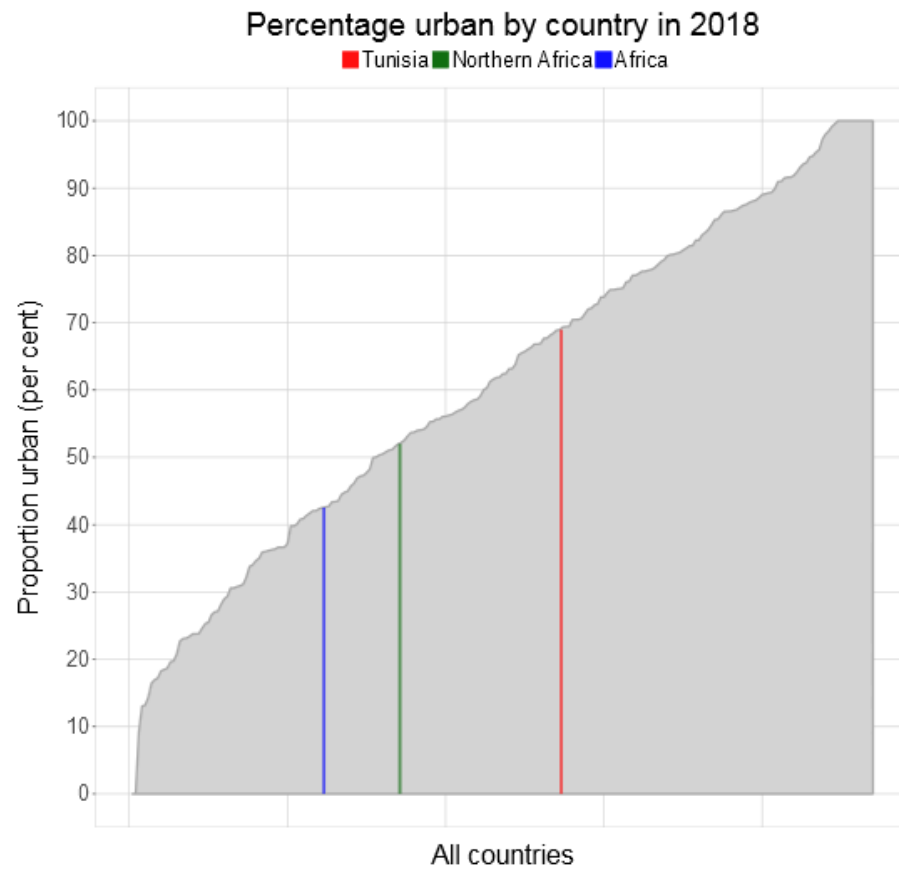
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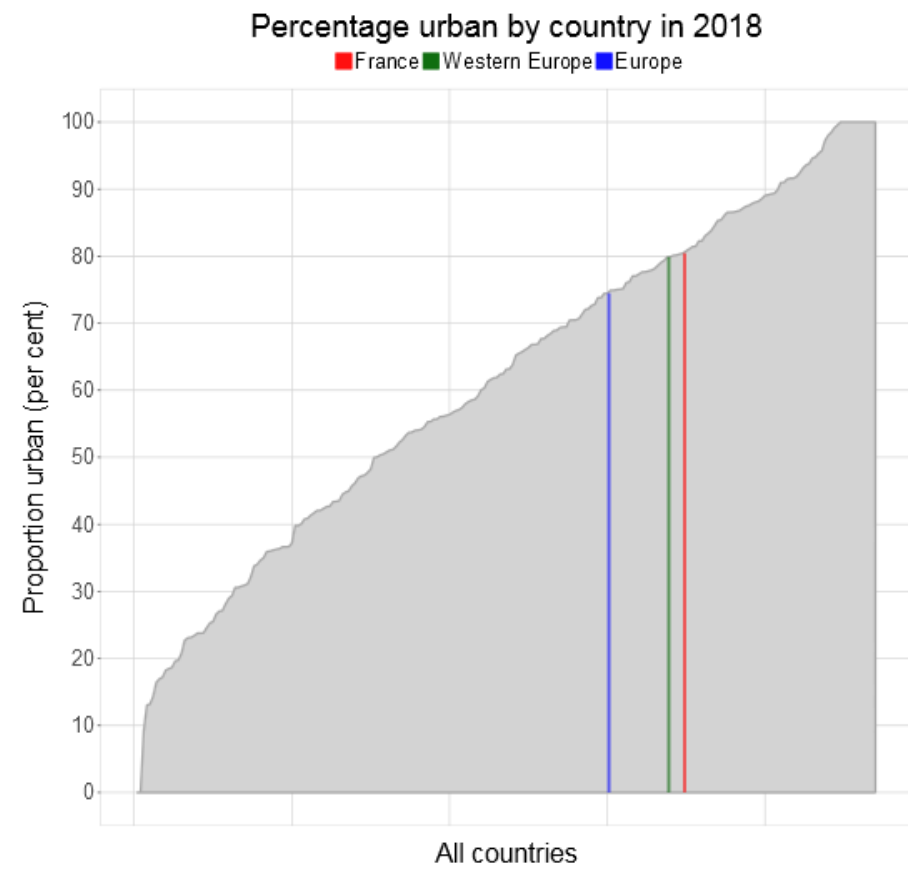
# France



# Tunisia



# France

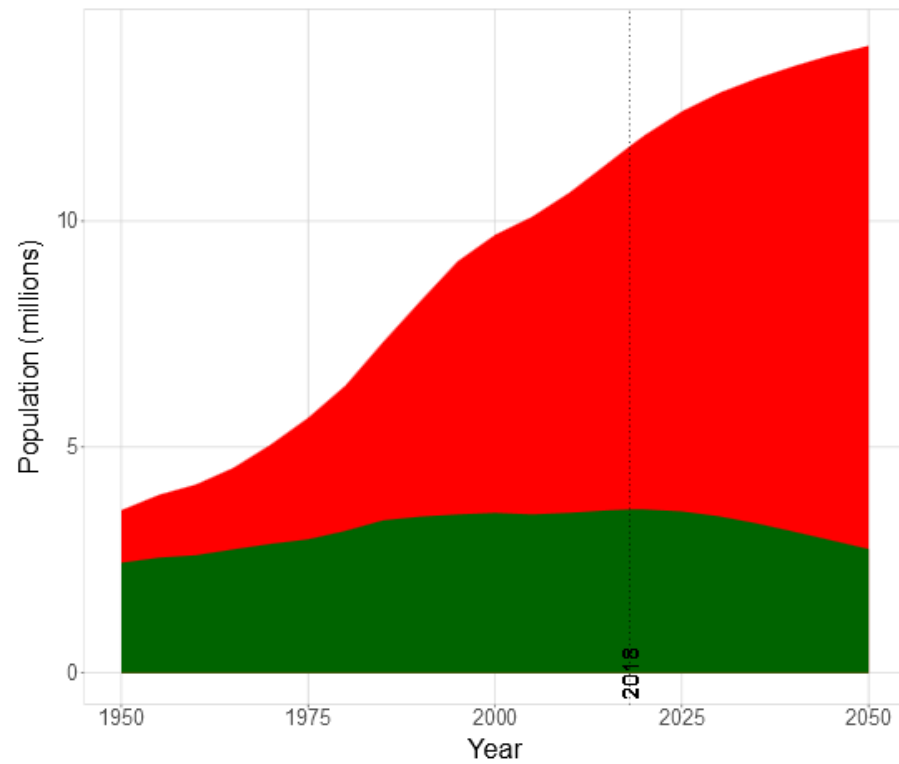


# Tunisia

Urban and rural population

Tunisia

Urban Rural

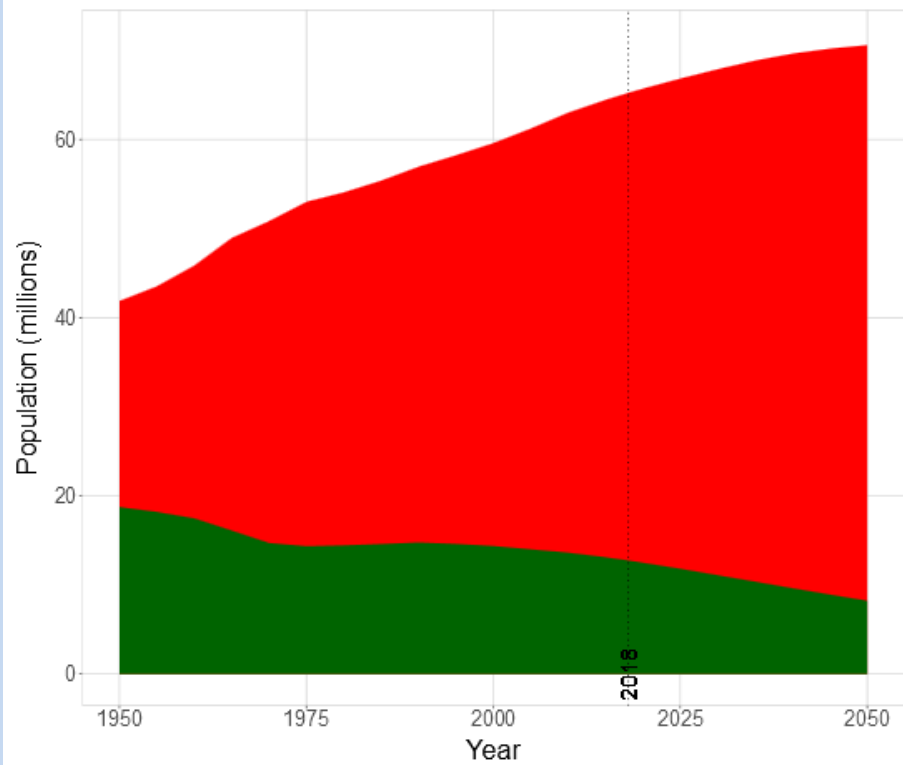


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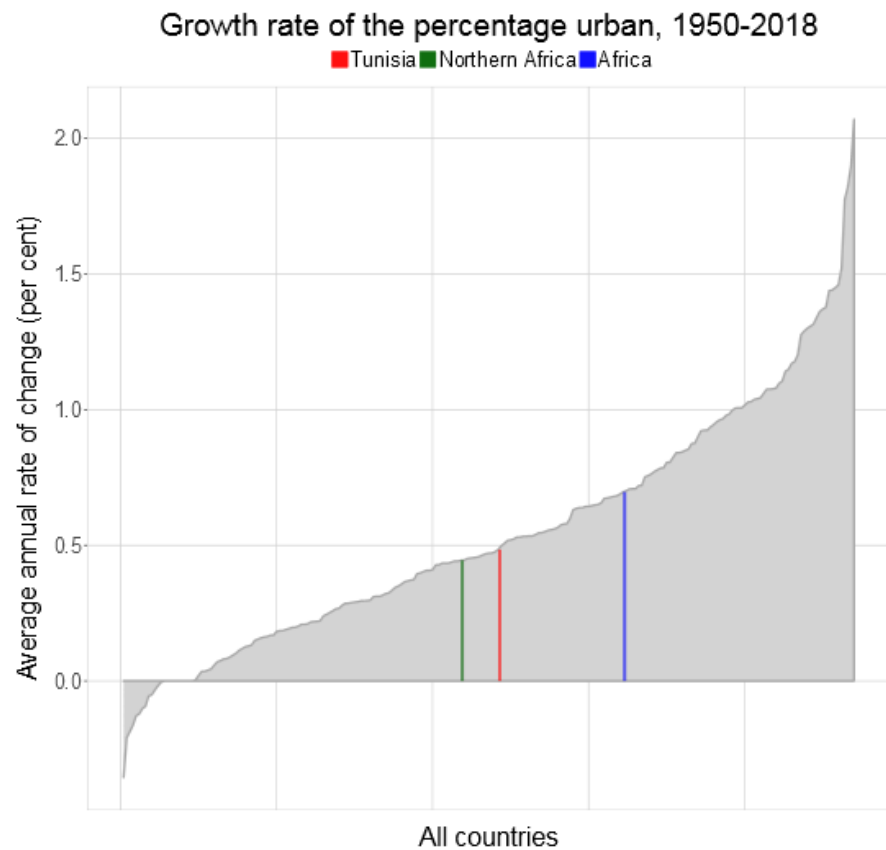
Urban and rural population

France

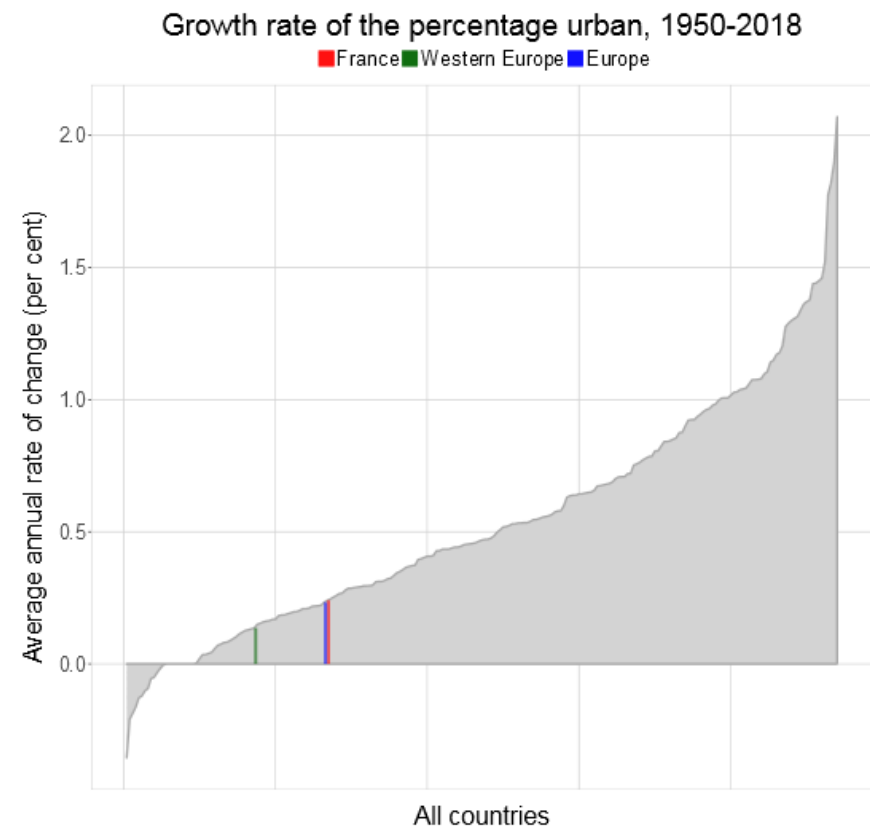
Urban Rural



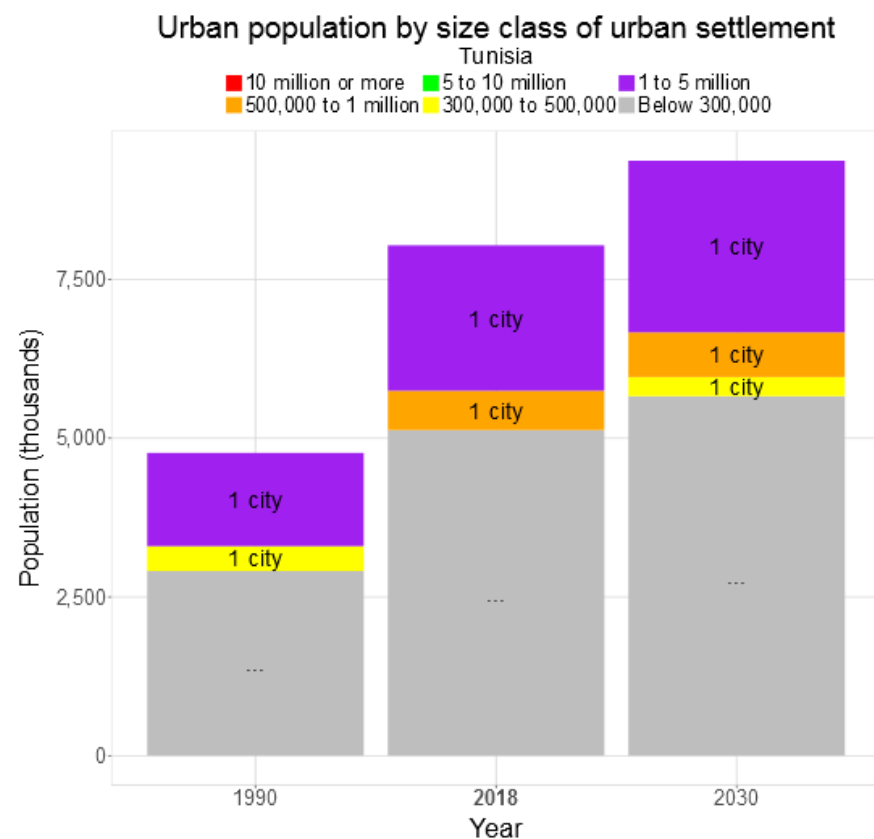
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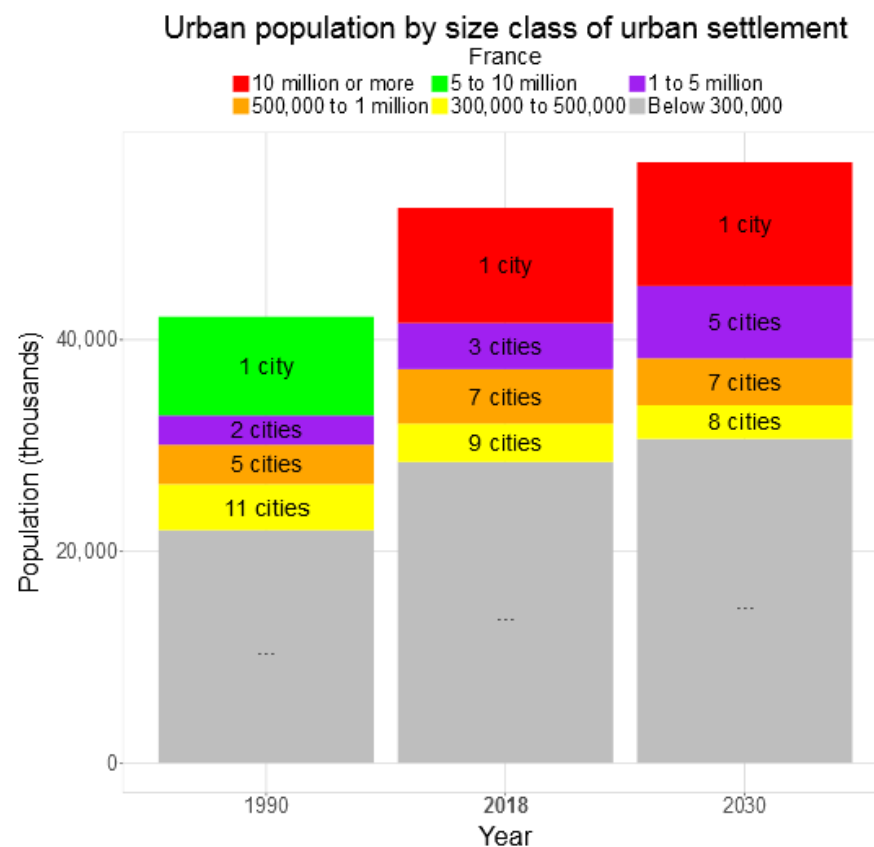
# France



# Tunisia



# France





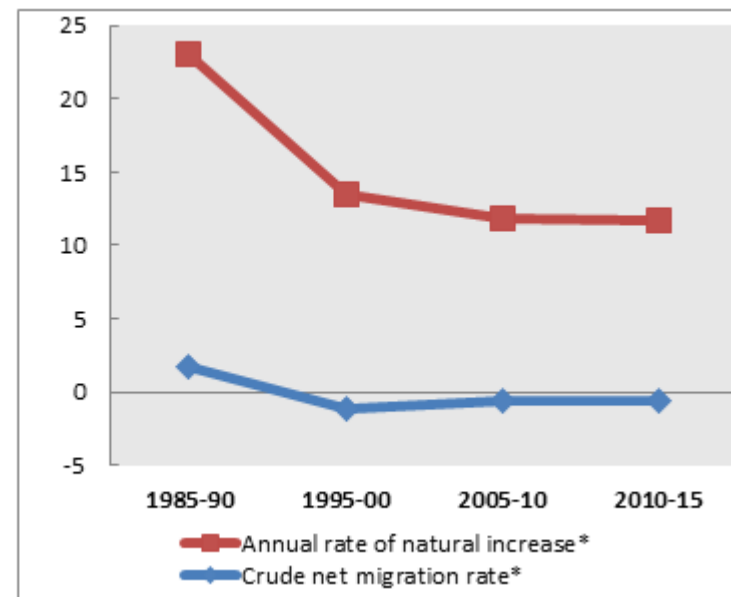
# Migrations

## Tunisia

	1990	2000	2010	2013
Males ('000)	4 097	4 793	5 282	5 451
Females ('000)	4 038	4 759	5 350	5 545
Total ('000)	8 135	9 553	10 632	10 997
Percentage urban population	58	63	66	67
Percentage rural population	42	37	34	33

	1985-90	1995-00	2005-10	2010-15
Average annual rate of change	2,47	1,23	1,12	1,10
Annual rate of natural increase*	22,98	13,45	11,86	11,64
Crude net migration rate*	1,73	-1,15	-0,64	-0,60
Total net migration ('000)	66	-53	-33	-33

\* Per 1,000 population

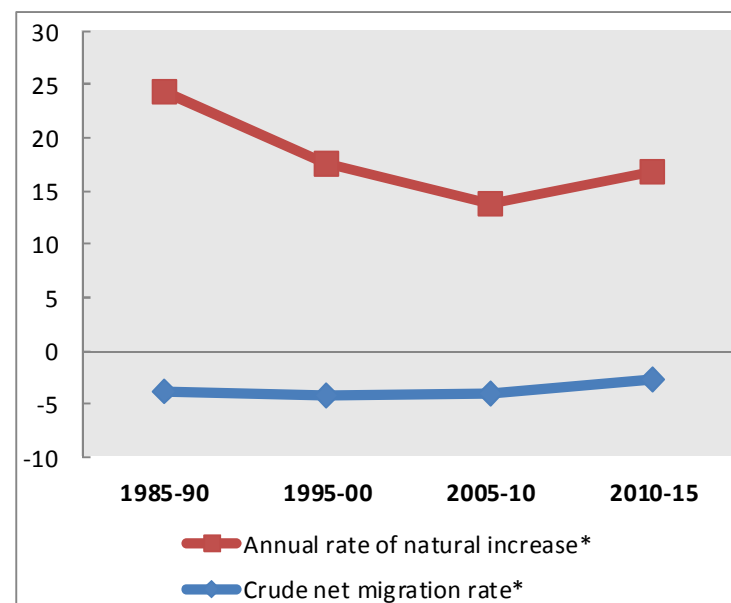


## Morocco

	1990	2000	2010	2013
Males ('000)	12 312	14 255	15 555	16 292
Females ('000)	12 363	14 455	16 088	16 716
Total ('000)	24 675	28 710	31 642	33 008
Percentage urban population	48	53	57	58
Percentage rural population	52	47	43	42

	1985-90	1995-00	2005-10	2010-15
Average annual rate of change	2,04	1,35	0,98	1,41
Annual rate of natural increase*	24,29	17,63	13,87	16,85
Crude net migration rate*	-3,87	-4,11	-4,05	-2,74
Total net migration ('000)	-454	-571	-625	-450

\* Per 1,000 population



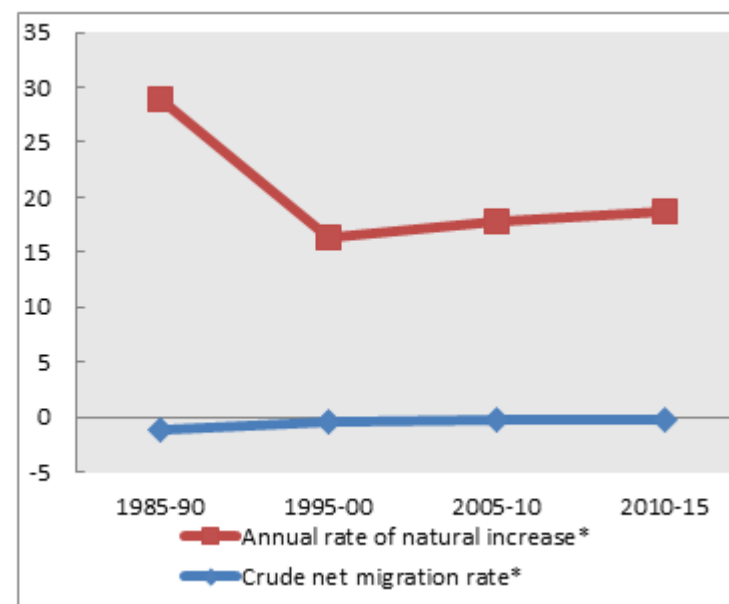


## Algeria

	1990	2000	2010	2013
Males ('000)	13 255	16 029	18 742	19 822
Females ('000)	12 985	15 691	18 320	19 386
Total ('000)	26 240	31 719	37 063	39 208
Percentage urban population	52	61	72	75
Percentage rural population	48	39	28	25

	1985-90	1995-00	2005-10	2010-15
Average annual rate of change	2,77	1,58	1,75	1,84
Annual rate of natural increase*	28,86	16,25	17,75	18,64
Crude net migration rate*	-1,21	-0,50	-0,28	-0,26
Total net migration ('000)	-149	-76	-49	-50

\* Per 1,000 population

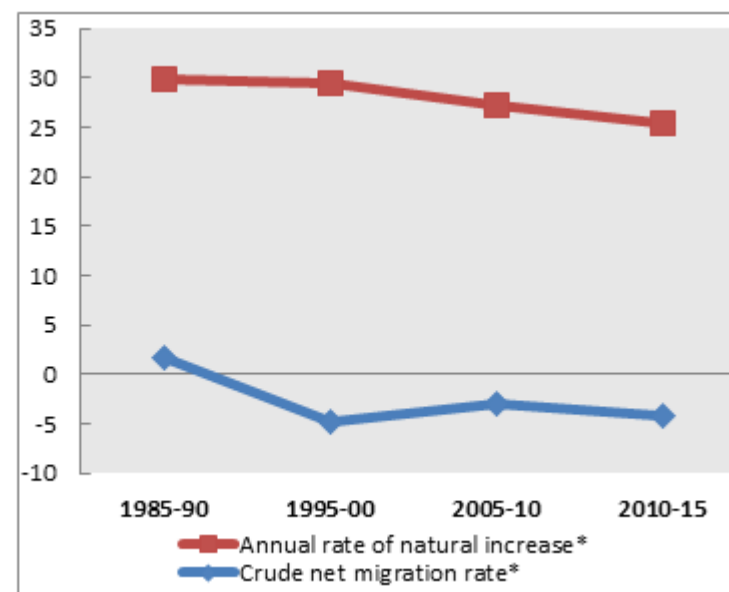


## Sudan

	1990	2000	2010	2013
Males ('000)	10 047	13 918	17 888	19 046
Females ('000)	9 962	13 812	17 764	18 918
Total ('000)	20 009	27 730	35 652	37 964
Percentage urban population	29	32	33	33
Percentage rural population	71	68	67	67

	1985-90	1995-00	2005-10	2010-15
Average annual rate of change	3,15	2,45	2,42	2,11
Annual rate of natural increase*	29,77	29,39	27,16	25,30
Crude net migration rate*	1,62	-4,90	-2,98	-4,25
Total net migration ('000)	150	-640	-500	-800

\* Per 1,000 population





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# Financing Resources

	Current health expenditure (CHE) as percentage of gross domestic product (GDP) (%) <sup>i</sup>														
Country	2015	2014	2013	2012	2011	2010	2009	2008	2007	2006	2005	2004	2003	2002	2001
Albania	6.8	7.0	6.3	5.9	5.6	5.0	5.1	5.6	6.1	5.9	6.3	6.6	6.4	6.4	6.5
Algeria	7.1	6.5	6.0	6.0	5.3	5.1	5.4	4.2	3.8	3.4	3.2	3.5	3.6	3.7	3.8
Chad	4.6	4.6	4.8	3.6	3.9	4.1	4.5	4.1	4.4	4.9	4.9	6.2	6.2	8.2	6.0
Egypt	4.2	4.1	4.6	4.9	4.6	4.4	4.6	4.7	4.7	5.1	5.2	5.1	5.5	5.8	5.7
Eritrea	3.3	3.4	3.2	3.2	3.4	3.7	4.0	4.7	4.1	5.3	5.3	5.4	5.7	5.5	5.3
Ethiopia	4.0	4.0	4.1	4.6	4.5	5.5	4.4	4.3	4.8	4.3	4.1	4.3	4.9	4.7	4.8
France	11.1	11.1	10.9	10.8	10.7	10.7	10.8	10.1	10.0	10.0	10.2	10.1	10.0	10.0	9.7
Italy	9.0	9.0	9.0	9.0	8.8	9.0	9.0	8.6	8.2	8.5	8.4	8.2	7.9	7.9	7.8
Lebanon	7.4	7.4	7.5	8.0	8.1	7.5	7.1	7.9	8.6	8.8	7.6	8.1	8.6	9.1	10.4
Libya	No data	No data	No data	No data	5.0	3.4	3.9	2.3	2.4	2.5	2.6	3.5	4.1	4.9	4.1
Morocco	5.5	5.7	5.6	5.7	5.7	5.9	5.8	5.3	5.4	4.9	4.8	4.7	4.6	4.4	4.1
Niger	7.2	5.9	6.1	6.0	6.5	6.2	6.8	6.7	7.0	7.5	7.2	6.4	5.7	6.0	5.9
Spain	9.2	9.1	9.0	9.1	9.1	9.0	9.0	8.3	7.8	7.8	7.7	7.6	7.5	6.8	6.8
Tunisia	6.7	6.8	6.9	6.6	6.4	5.9	5.6	5.4	5.4	5.4	5.4	5.5	5.5	5.4	5.1

	Domestic general government health expenditure (GGHE-D) as percentage of current health expenditure (CHE) (														
Country	2015	2014	2013	2012	2011	2010	2009	2008	2007	2006	2005	2004	2003	2002	2001
Albania	42.3	43.6	43.6	45.1	50.2	49.9	54.1	47.7	41.5	44.1	44.1	42.2	35.4	35.9	36.7
Algeria	70.6	72.0	71.0	72.9	70.6	69.5	70.9	72.0	69.8	68.5	69.3	71.4	76.7	75.3	76.2
Chad	23.5	27.4	39.1	19.4	21.4	20.9	20.8	19.9	23.5	20.8	29.6	34.4	31.9	31.4	38.4
Egypt	30.1	31.6	30.9	29.7	33.8	32.9	35.0	34.4	35.3	36.0	32.3	32.5	31.9	34.5	34.2
Eritrea	23.0	21.1	14.9	25.9	22.0	20.6	9.6	22.4	23.0	11.3	12.4	22.2	22.7	29.9	26.2
Ethiopia	26.9	17.7	27.0	23.8	9.4	17.3	22.7	13.2	27.8	26.1	40.1	30.6	46.4	44.0	42.5
France	78.9	78.8	78.5	78.2	78.1	78.4	78.5	78.2	78.7	78.7	78.7	78.8	78.8	0.0	0.0
Italy	74.9	75.6	76.1	76.1	77.0	78.5	78.3	77.7	77.5	77.8	77.5	76.2	75.3	75.0	74.6
Lebanon	50.5	51.7	49.4	50.2	43.8	40.3	39.2	39.4	41.1	41.0	38.4	37.1	33.9	33.0	32.8
Libya	No data	No data	No data	No data	63.3	70.0	68.8	67.7	66.5	65.4	64.7	65.8	66.2	66.9	54.5
Morocco	43.3	44.5	44.6	42.5	41.0	39.9	43.1	40.1	40.6	36.9	25.9	27.2	27.4	27.6	26.3
Niger	21.0	27.4	29.6	25.3	28.0	26.2	30.9	31.7	29.0	35.9	34.6	24.3	23.8	30.8	30.6
Spain	71.0	70.0	71.1	72.2	73.8	74.8	75.4	73.6	72.7	72.5	71.9	71.6	71.3	No data	No data
Tunisia	56.3	58.1	59.1	57.0	56.4	55.8	55.0	54.3	53.4	52.3	50.8	51.1	51.4	51.8	52.2

	Domestic private health expenditure (PVT-D) as percentage of current health expenditure (CHE) (%) <sup>i</sup>														
Country	2015	2014	2013	2012	2011	2010	2009	2008	2007	2006	2005	2004	2003	2002	2001
Albania	56.9	55.9	55.2	52.9	48.3	47.8	42.5	50.3	54.4	52.0	52.5	54.4	60.0	64.1	63.3
Algeria	29.4	28.0	28.9	27.0	29.4	30.5	29.1	28.0	30.1	31.5	30.6	28.6	23.3	24.7	23.7
Chad	61.6	57.2	54.4	69.7	66.1	73.1	71.0	74.6	70.2	68.4	60.4	54.7	51.6	68.6	61.6
Egypt	69.7	66.9	68.9	69.9	65.6	66.4	63.3	64.2	62.6	62.4	66.5	66.4	67.2	65.5	65.8
Eritrea	52.4	51.2	53.8	52.4	48.7	49.4	47.6	37.7	44.1	34.5	35.2	35.1	38.9	43.4	48.4
Ethiopia	57.7	58.7	49.7	48.2	53.5	48.0	44.0	41.2	37.5	39.4	35.6	39.5	39.2	42.9	40.1
France	21.1	21.2	21.5	21.8	21.9	21.6	21.5	21.8	21.3	21.3	21.3	21.2	21.2	No data	No data
Italy	25.1	24.4	23.9	23.9	23.0	21.5	21.7	22.3	22.5	22.2	22.5	23.8	24.7	25.0	25.4
Lebanon	48.1	47.5	49.8	49.2	55.6	58.9	60.0	59.6	57.8	58.1	61.1	62.0	65.6	67.0	67.2
Libya	No data	No data	No data	No data	36.7	30.0	31.1	32.3	33.4	34.6	35.3	34.2	33.8	33.1	45.5
Morocco	55.7	55.0	55.1	56.9	58.3	59.7	56.8	59.5	58.8	62.8	73.8	72.5	72.3	72.2	73.3
Niger	53.2	58.4	56.1	60.4	60.5	61.7	57.7	56.6	58.6	54.3	55.4	66.5	67.1	61.1	61.5
Spain	29.0	30.0	28.9	27.8	26.2	25.2	24.6	26.4	27.3	27.5	28.1	28.4	28.7	No data	No data
Tunisia	43.3	41.8	40.8	42.9	42.2	43.0	43.9	44.9	46.1	47.4	49.1	48.8	48.5	48.2	47.7

	External health expenditure (EXT) as percentage of current health expenditure (CHE)											
Country	2015	2014	2013	2012	2011	2010	2009	2008	2007	2006	2005	2004
Albania	0.8	0.5	1.2	2.0	1.5	2.3	3.4	2.0	4.1	3.9	3.4	3.4
Algeria	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0
Chad	14.9	15.4	6.5	10.9	12.5	6.0	8.2	5.5	6.3	10.7	10.0	10.9
Egypt	0.3	1.5	0.2	0.4	0.6	0.6	1.6	1.4	2.1	1.6	1.2	1.1
Eritrea	24.7	27.7	31.3	21.7	29.3	30.0	42.8	40.0	32.9	54.1	52.3	42.6
Ethiopia	15.3	23.4	23.3	28.0	37.2	34.7	33.3	45.6	34.7	34.5	24.3	29.9
France	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Italy	No data	No data	No data	No data	No data	No data	No data	No data	No data	No data	No data	No data
Lebanon	1.4	0.8	0.8	0.6	0.6	0.7	0.8	1.0	1.0	0.9	0.5	0.9
Libya	No data	No data	No data	No data	0.0	0.0	0.0	0.1	0.0	No data	0.0	0.0
Morocco	1.0	0.5	0.3	0.6	0.7	0.4	0.1	0.3	0.6	0.3	0.3	0.3
Niger	25.8	14.2	14.2	14.3	11.4	12.1	11.4	11.7	12.4	9.8	9.9	9.2
Spain	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tunisia	0.4	0.1	0.1	0.1	1.4	1.2	1.0	0.8	0.6	0.3	0.1	0.1

	Current health expenditure (CHE) per capita in PPP int\$ <sup>i</sup>												
Country	2015	2014	2013	2012	2011	2010	2009	2008	2007	2006	2005	2004	2003
Albania	773.7	779.3	665.7	612.8	570.9	481.1	444.9	452.6	437.8	381.5	363.8	347.8	310.0
Algeria	1031.2	929.1	828.0	804.4	684.3	645.3	656.1	511.0	452.6	380.2	354.9	360.7	346.4
Chad	99.8	100.0	99.9	71.7	73.0	76.8	75.6	68.0	71.6	78.1	77.6	85.1	64.4
Egypt	495.2	491.0	476.5	460.3	450.1	421.6	426.0	419.6	389.1	392.3	368.6	343.6	352.1
Eritrea	56.2	56.6	53.2	53.5	51.2	51.0	54.7	62.0	60.2	76.5	77.0	76.4	79.2
Ethiopia	65.6	60.5	55.9	57.3	52.4	57.9	41.8	38.0	38.8	30.6	26.8	25.0	25.0
France	4542.3	4478.7	4345.9	4100.0	4039.9	3881.4	3778.0	3571.9	3421.7	3289.4	3135.4	2972.8	2854.7
Italy	3350.6	3274.1	3267.4	3253.5	3211.9	3145.2	3106.2	3040.1	2784.2	2740.6	2516.9	2420.9	2291.7
Lebanon	1117.3	1140.4	1172.1	1237.9	1278.6	1200.2	1068.4	1094.1	1083.3	983.6	833.0	859.0	858.2
Libya	No data	No data	No data	No data	627.3	957.3	969.2	561.9	610.7	605.2	603.8	693.6	846.4
Morocco	435.3	428.3	415.0	403.6	389.1	375.7	360.8	315.7	302.5	262.3	230.7	217.2	196.4
Niger	68.5	55.5	55.1	52.7	51.7	49.8	51.5	52.6	50.9	53.2	48.3	39.4	36.7
Spain	3182.5	3057.9	2936.3	2899.2	2920.2	2891.2	2922.3	2791.0	2578.8	2412.3	2144.1	2013.5	1902.8
Tunisia	774.1	772.7	751.4	700.0	651.0	601.6	559.6	520.6	496.1	453.4	423.0	403.6	373.3



	Out-of-pocket expenditure as percentage of current health expenditure (CHE) (%) <sup>i</sup>														
Country	2015	2014	2013	2012	2011	2010	2009	2008	2007	2006	2005	2004	2003	2002	2001
Albania	56.9	55.9	55.2	52.9	48.3	47.8	42.5	50.3	54.4	52.0	52.5	54.4	60.0	64.1	63.3
Algeria	28.1	26.7	27.6	25.7	27.9	28.9	27.4	26.1	28.1	29.1	28.1	26.1	21.1	22.5	21.7
Chad	56.4	52.3	49.7	64.1	60.8	67.6	65.0	68.8	64.9	63.7	56.2	51.0	47.4	64.7	58.3
Egypt	62.0	59.0	61.2	63.0	60.5	62.6	60.4	61.8	60.3	60.4	64.6	64.6	65.4	63.8	63.8
Eritrea	52.4	51.2	53.8	52.4	48.7	49.4	47.6	37.7	44.1	34.5	35.2	35.1	38.9	43.4	48.4
Ethiopia	37.8	38.5	42.4	41.9	46.1	42.0	38.4	38.5	34.4	35.4	31.3	34.7	34.3	37.2	34.4
France	6.8	6.9	7.1	7.3	7.5	7.5	7.6	7.8	7.4	7.4	7.4	7.2	7.4	7.1	7.3
Italy	22.8	22.1	21.8	21.7	22.0	20.5	20.7	21.3	21.5	21.3	21.6	22.8	23.7	24.1	24.5
Lebanon	32.1	31.7	33.2	32.8	40.2	43.6	44.6	44.9	44.1	44.7	47.3	48.9	52.5	54.3	55.0
Libya	No data	No data	No data	No data	36.7	30.0	31.1	32.3	33.4	34.6	35.3	34.2	33.8	33.1	45.5
Morocco	53.1	52.1	52.0	53.6	55.0	55.6	53.2	55.7	54.9	58.7	59.3	55.6	54.5	53.4	53.3
Niger	52.3	54.9	55.2	59.1	59.5	60.1	56.2	55.0	57.0	52.8	53.9	64.9	65.4	59.4	59.8
Spain	24.2	24.6	23.9	22.8	21.1	20.7	19.5	21.0	21.0	21.3	22.0	22.3	22.6	24.6	24.9
Tunisia	39.8	38.0	39.1	41.0	41.6	42.1	42.5	42.8	42.9	42.7	42.1	41.5	40.9	40.2	39.4





# Cohesion between territories





**Reforming.it**

Analisi e Proposte per l'Economia e le Istituzioni

Conclusions by few main points





Tunsi, October 2018