Supplementary File

Annex 1. Adjustment of Input Variables

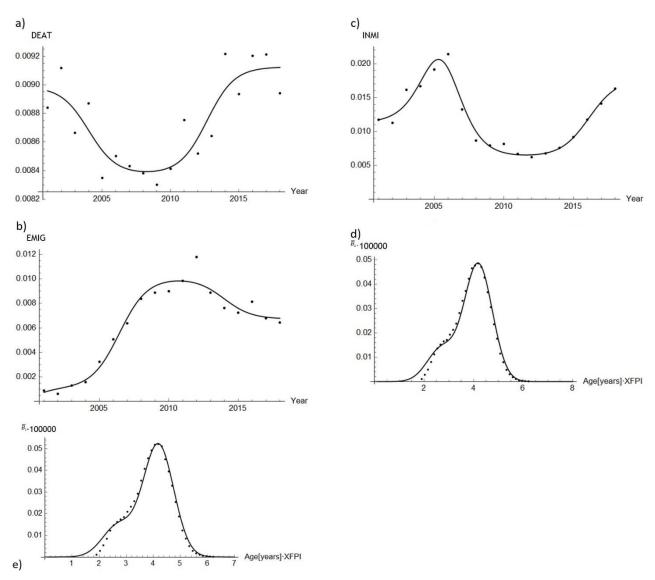


Figure A1.1. Adjustment of Demographic Input Variables (2008-2019). a) DEAT=Crude mortality rate, R2= 0.76436; b) EMIG=Crude mortality rate, R2= 0.95710; c) INMI=Crude inmigration rate, R2=0.95388; d) \overline{B}_{l} = Ratio between specific fertility rates by age of the mother and defined by sex of the child born and births (i = female), R2=0.988413; e) \overline{B}_{l} =

Ratio between specific fertility rates by age of the mother and defined by sex of the child born and births (i = male), R^2 =0.98804. Points: historical values. Lines: simulated values. Source: own elaboration

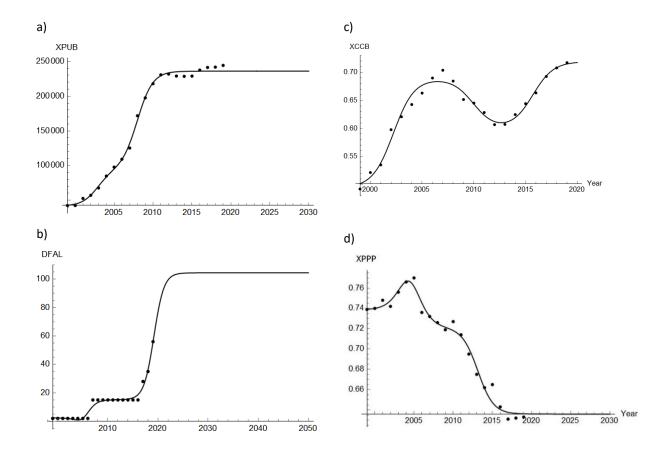


Figure A.1.2. Adjustment of Family Policy Input Variables (2008-2019). a) XPUB=Public places in public schools, R^2 = 0.97655; b) DFAL= Days of parental leave corresponding to the father, R^2 = 0.93723; c) XCCB=Coverage of *Child Benefit*, R^2 =0.98163; d) XPPP=Purchasing Power Parity=, R^2 =0.87082. Points: historical values. Lines: simulated values. Source: own elaboration.

Annex 2. Validation of the model. Demographic variables

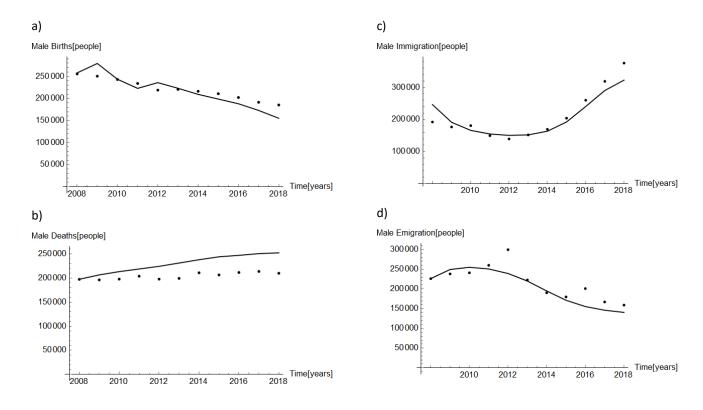


Figure A2.1. Validation of the model with male demographic variables (2008-2019). a) Births, R^2 = 0.90541; b) Deaths, R^2 = 0.75705; c) Immigration, R^2 =0.95883; d) Emigration, R^2 =0.73911. Points: historical values. Lines: simulated values. Source: own elaboration.

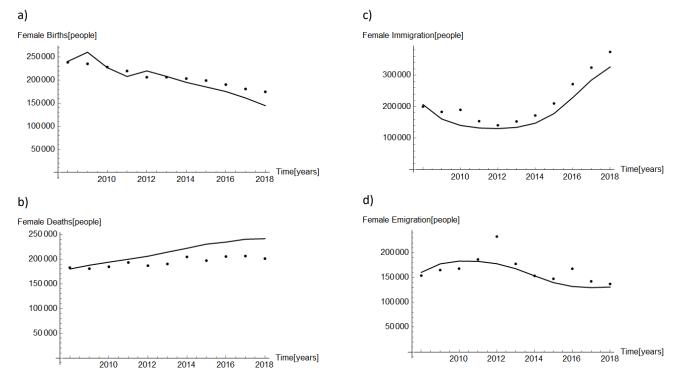


Figure A2.2. Validation of the model with female demographic variables (2008-2019). a) Births, R^2 = 0.91067; b) Deaths, R^2 = 0.82069; c) Immigration, R^2 =0.89470; d) Emigration, R^2 =0.42598. Points: historical values. Lines: simulated values. Source: own elaboration.

Annex 3. Input variables used for the genetic algorithms

Acronyms	Definition
DFAL	Days of parental leave corresponding to the father ¹
DMAL	Days of parental leave corresponding to the mother ¹
DPLS	Divisible part in the parental leaves ¹
ECBG	Monetary value of Birth Grant in PPP
ECCB	Monetary value of <i>Child Benefit</i> in PPP ¹
ECCC	Monetary value of Cash for Care in PPP
OVLP	Simultaneity or not of the parental leaves ¹
TICB	Length of <i>Child Benefit</i> ¹
TICC	Length of Cash for Care ¹
XCBG	Coverage of Birth Grant
XCCB	Coverage of Child Benefita
XPPP	Purchasing Power Parity
XPUB	Public places in public schools ¹

Note: Own elaboration.