## Supplementary File

The table number of births $\left(b_{x}^{i, C}\right)$ in cohort (C) by age of the mother ( x ) and birth order (i) are derived using unconditional age-specific fertility rates $\left(f_{x}^{i, C}\right)$.

If $i=1$, then the formula is expressed as follows:
$f_{x}^{1, C}=\frac{B_{x, t}^{1, C}+B_{x, t+1}^{1, C}}{P_{x}^{C}}$
$b_{x}^{1, C}=f_{x}^{1, C} \cdot l_{x}^{i=0, C}$

If $\mathrm{i}=2$, it is expressed as follows:
$f_{x}^{2, C}=\frac{B_{x, t}^{2, C}+B_{x, t+1}^{2, C}}{P_{x}^{C}}$
$b_{x}^{2, C}=f_{x}^{2, C} \cdot l_{x}^{i=1, C}$
$P_{x}^{C}$ female population, age (x), and cohort (C),
$B_{x, t}^{1, C}$ number of live births by age ( x ), birth order (1), cohort ( C ), and calendar year ( t ),
$B_{x, t+1}^{1, C}$ number of live births by age $(\mathrm{x})$, birth order (1), cohort ( C ), and calendar year ( $\mathrm{t}+1$ ),
$B_{x, t}^{2, C}$ number of live births by age ( x ), birth order (2), cohort (C), and calendar year ( t ),
$B_{x, t+1}^{2, C}$ number of live births by age $(\mathrm{x})$, birth order (2), cohort ( C ), and calendar year ( $\mathrm{t}+1$ ).

The cumulative number of table births by birth order ( $\mathrm{i}=1,2$ ) and age of mother $(\mathrm{x})$ was derived for each analysed cohort:
$S b_{x}^{i, C}=\sum_{x=12}^{x-1} b_{x}^{i, C}$

The construction of period fertility tables is based on conditional age and parity-specific fertility rates $\left(f_{x}^{i}\right)$, which are further converted into age- and parity-specific probabilities $\left(q_{x}^{i}\right)$.

For parity $\mathrm{i}=1$, the following formula can be used:
$f_{x}^{1}=\frac{B_{x, t}^{1}}{P_{x, t}^{0}}$
$q_{x}^{1}=\frac{f_{x}^{1}}{1+0.5 \cdot f_{x}^{1}}$

The table number of births of order ( $\mathrm{i}=1$ ) in age ( x ) are derived using the following formula:
$b_{x}^{1}=q_{x}^{1} \cdot l_{x}^{i=0}$, for $\mathrm{i}=1$
$B_{x, t}^{1}$ number of live births by age ( x ), birth order ( $\mathrm{i}=1$ ), and calendar year ( t ),
$P_{x, t}^{0}$ female population by age ( x ) and parity ( $\mathrm{i}=0$, childless),
$l_{x}^{i=0}$ table population of parity ( $\mathrm{i}=0$ ) and age $(\mathrm{x})$.

The calculation of second-birth rates by duration from the first birth is based on ratio between the second births at duration (d) and the initial number of first live births:
$f_{d}^{2, Y}=\frac{B_{d}^{2, Y}}{\mathrm{~B}^{1, Y}}$
$B_{d}^{2, \mathrm{Y}}$ indicates second live births; first children were born In a year ( Y ),
$B^{1, Y}$ denotes the total number of first live births in a year $(Y)$,
(d) represents the time period since the first birth

Duration-specific second-birth progression ratios is constructed by following formula:
$\operatorname{PPRd}^{2, \mathrm{C}}=\sum_{d=0}^{d_{\text {max }}} f_{d}^{2, C}$

