

Integrating fertility frameworks

Annette Baudisch, Antonino Polizzi

The Born once, die once (B1D1) framework offers a new approach to formalizing fertility by conceptualizing the event of birth from the perspective of the child rather than the mother. So far, it remains open whether and under what conditions the functions and indicators introduced in the B1D1 framework link to those known from traditional fertility research. Focusing on the “quantum” and “tempo” of fertility, here we attempt to bridge the B1D1 framework and the traditional fertility framework. Specifically, we demonstrate mathematical relationships that “translate” the language of the B1D1 framework into the language of traditional fertility research. Our project holds the potential to unify the different formal strands of fertility research that have increasingly drifted apart in recent decades—including traditional fertility research, research on “population renewal”, as well as the recently introduced B1D1 framework.