Algorithm:

1. calculate total smoothed population by age (population by age group);

2. male/female population by age group in each mesh block available?

YES: assign gender according to male/female by age group;

NO: estimate male/female by age group according to mesh block population and sex

ratio by age group;

3. matching couples by minimizing age difference to build family units according to marital status by age;

4. allocate children into family units according to number of children ever born by age of mother & live birth by age of mother and live-birth order;