S-E-I-R models consist of a set of continuous differential equations that link the flows of persons among the different compartments. Other than being categorized by age, all persons in the model are considered homogeneous. The model extends over a 60-day time period in units of one day with a dt of 0.25. This allows the underlying differential equations to be integrated toward a "solution" resulting in smooth curves.

Susceptible Sub-population

- **Total susceptible**
- Under 15
- Between 15 and 44
- Between 45 and 64
- Over 65

Exposed Sub-population

Persons per day

- **Total exposed**
- Under 15
- Between 15 and 44
- Between 45 and 64
- Over 65

Infected Sub-population

Days

- **Total infected**
- Under 15
- Between 15 and 44
- Between 45 and 64
- Over 65

Recovered Sub-population

Days

- **Recovered**