1 Plan of Attack

In order to model the development of the **Ebola** outbreak and it's eradication, we combine multiple celebrated mathematical models. We recognise activity on multiple levels: city, region, and global. On the city level, we use a extension of classical SIR model !lähde!for the in-city dynamics. Region consist of city, which interact (according to model !lähde!) moving the disease. Regions also interact with each other on a higher level through the most critical cities in a region. The vaccination system is then added to this dynamics.

The 'World Map' is created with data about the current (around 3000) most populated cities !lähde!. Traffic information is used to estimate movement between cities !lähde!. This data in mind, a network between cities and regions is created: the Ebola only disperse through these routes.