• Step by step model set up with screen shots
• This is an example of base model disease with air and ground transportation
  – Using a basic Ebola and Flu examples
  – 1 initial case
  – 10 initial cases
  – 6 month time frame
  – Starting from Queens, New York
  – Finite Solver
This is the Home screen, and you can get to this perspective by “Reset Perspective”. Notice you do everything in the “Designer” mode --top right.
Start the Project with new STEM Project...everything falls in this Folder
Name it whatever you want
The left side will automatically populate with the necessary folders.
You will start each new Model here...first thing I recommend is creating a baseline Model first that you can add to each of the diseases without having to re-create. So, one time build the airtravel, ground, populations, etc... So, lets start with baseline model
I just call it BaseModel...
Now to the BaseModel Add, US Human Population, 0,1,2 (in Models Tab)
This is US Pop in States and Counties
Add Air Transport 2 and 1,- Within states
Air transport 1 and 0 – Between States
Add Ground Transport 2004 – Level 2
And ZZZ -1 and 0 (This is international aircraft)

These are all in Graphs Tab
Once you close the tab it will save
Let's create a new disease
Name the disease, here Ebola, and then all the parameters are on the Excel Spreadsheet for each disease. Keep all other variables to the default. This is Ebola
Now for Ebola Model, you create a New Model, and add the basemodel and the New disease...
Now you have an Ebola Model with the basemodel and disease parameters.
Now build the scenario—New Scenario
Drag the Model from Model on the left side into the open scenario in the middle panel.
Notice I named the scenario Ebola1 – One initial case.
Now you need a time frame—You will only have to do this once, and reuse the model. This is a new Sequential Sequencer...I name it base6months... From 1 Sept 2016, to 1 March 2016 (specific end date.)- finish
Now drag new sequencer to your scenario...from left side to right side
Now you need your infector, and where to infect the person. Under “New Infector” --Disease name (must match the disease name you are using...here Ebola)
You name a new infector based on the scenario...this one will be Ebola1 Location...Queens, New York
Select Location

[Image of a computer screen showing a selection of locations for an infection model, with a pop-up window for selecting a location.]
Should come out as US-NY-36081-- Finish
Now drag to your scenario...Ebola1 is the infector in the Decorators Folder...Don’t confuse with the Ebola disease that was created...The infector has an “I” on it!
Now need to add a Solver...Read this article on Solvers
http://wiki.eclipse.org/STEM_Solvers
Here is for Finite...
Will use Finite in this example
Now drag the solver to the scenario...
Now you need to add the Logger... Here you create the folder of the raw data. The directory under recorded simulations, wherever folder you put the STEM model on your computer is the easiest.

Note: make sure to put “YES” on log initial simulation state

Then select all the compartments in the “Appropriate Disease”
Select the “recorded simulation”, in the Folder that you call the STEM project...
Now add logger to your scenario...you are done!
STEM

Selected Object: Ebola1.logger CSV File Logger
Close and it will save...
Now right click on the right hand side scenario, and hit “Run”
Now you will come to this screen...pause it (Yellow pause button)---center the US, Enlarge, then you can continue with the play button, you can also change the GAIN Value to show the values better
Now go find the folder of recorded simulations, and now all your data is stored...Ebola, you have deaths, incidence, exposed, susceptible, etc. It can be opened with Excel.
Now lets do another disease... lets do 10 people of Flu
Need new disease
Add the parameters
Need new infector because it is 10 people
Make sure that the disease matches the disease name you need.
10 people infected, in NY Queens, 36081
Now make the Flu model (you have already created the baseline that you can reuse)
Now you need a new logger, flu10, but make sure you find the directory 
Same “recorded simulations”, and change the disease from Ebola to flu
Check the disease and the Name of the folder
Now you have all you need for a flu scenario... reuse sequencer, solver, put the right Model, add the 10 flu infector, and the 10 flu logger.
Now run the model....10 flu...
Here you can really see how the “Gain” changes the picture...you can see how the disease spreads.