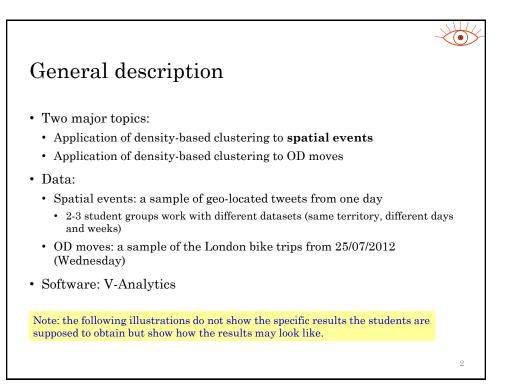
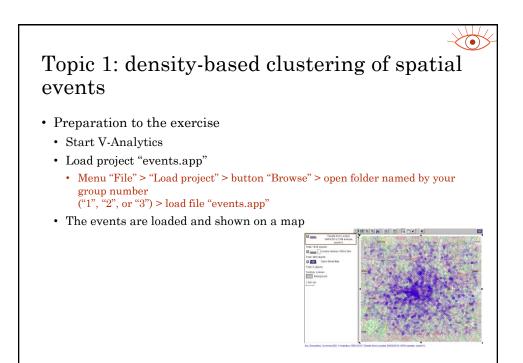
Module INM433 - Visual Analytics

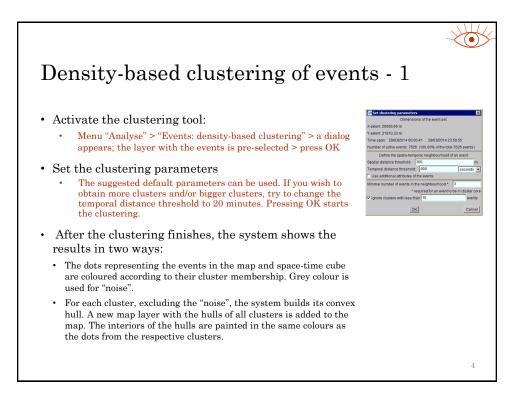
Practical 04

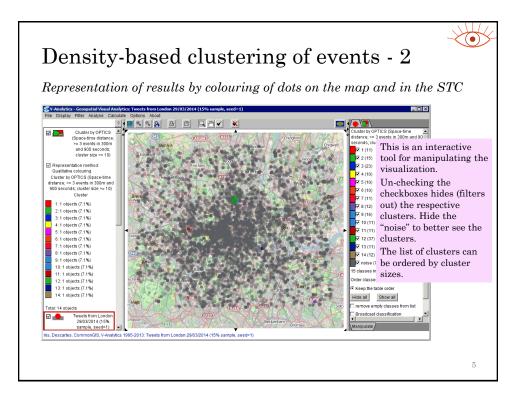
Density-based clustering of spatial events and OD moves

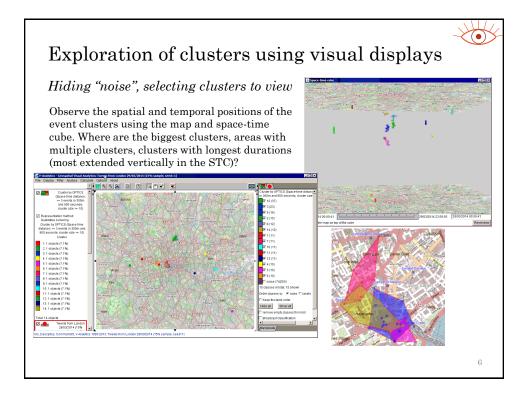
given by prof. Gennady Andrienko and prof. Natalia Andrienko

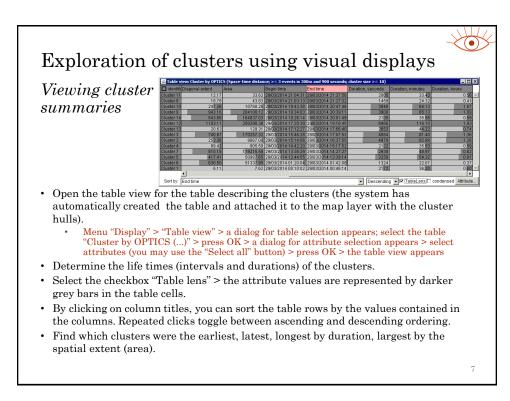


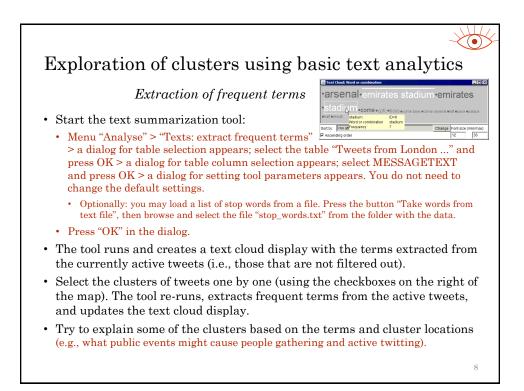




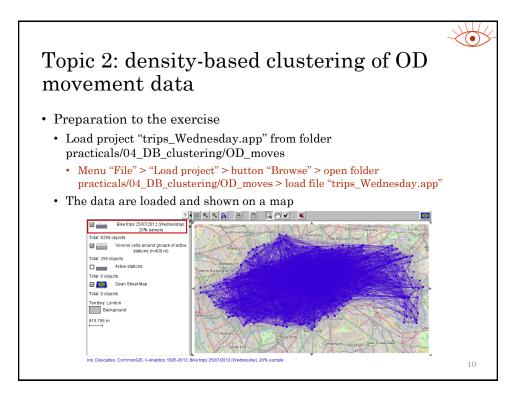


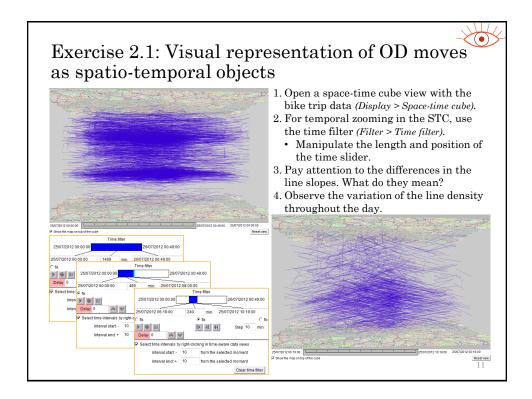


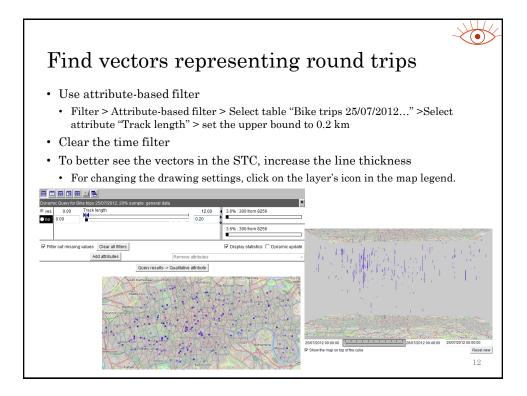


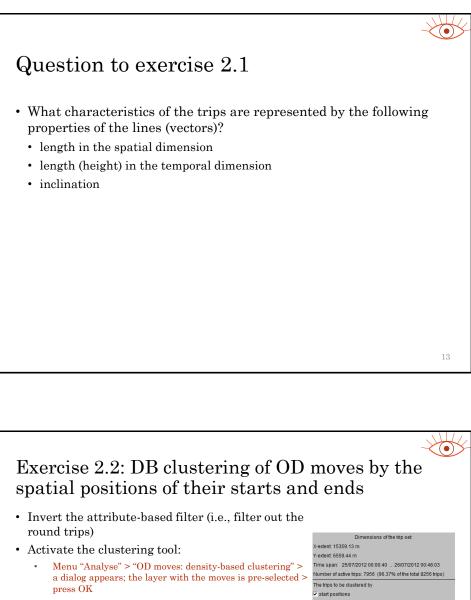


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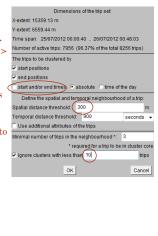


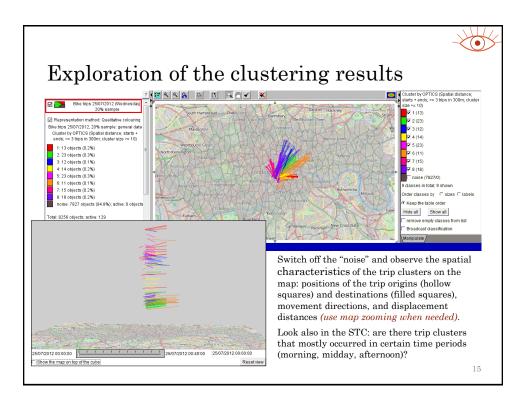


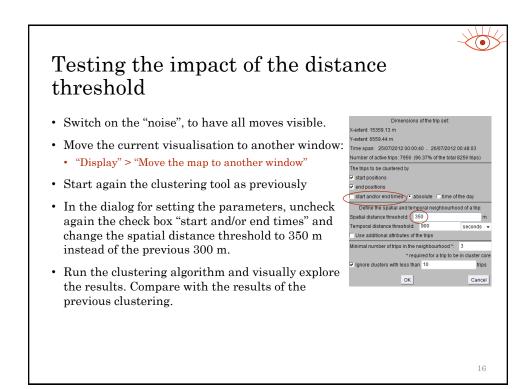


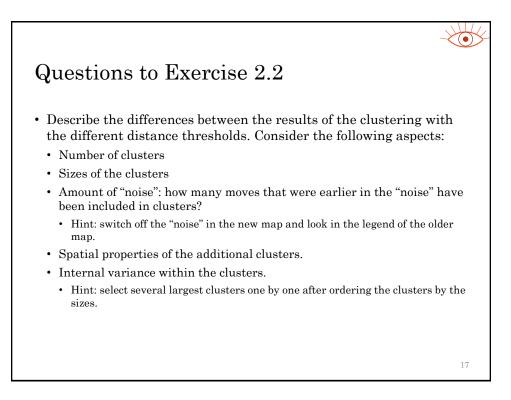


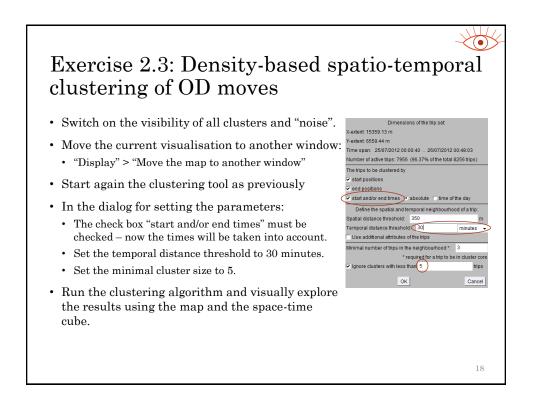
- · Set the clustering parameters
 - Uncheck the check box "start and/or end times" (the times will not be taken into account in this exercise).
 - Set the spatial distance threshold to 300m.
 - Set the minimal size of the clusters you are interested in to 10 (in the text field following the check box "Ignore clusters with less than" at the bottom of the dialog).
 - Pressing OK starts the clustering.
- After the clustering finishes, the system shows the results by colouring the lines on the map and in the STC according to the cluster membership.

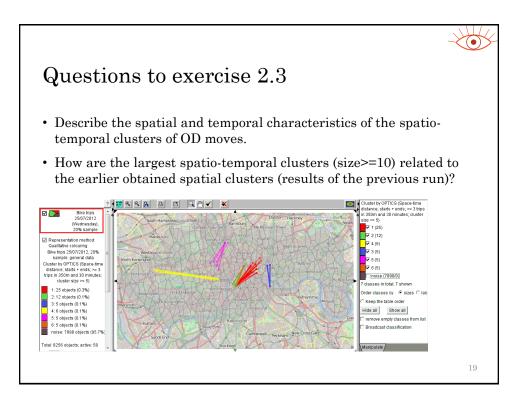


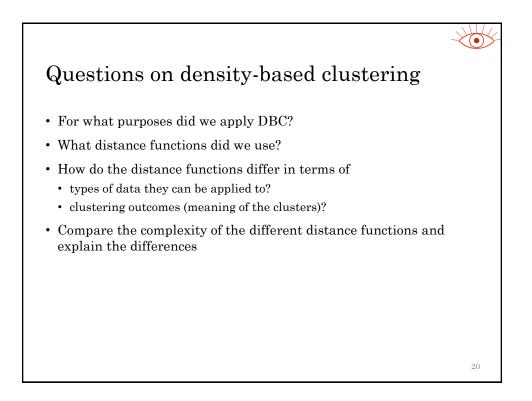












Exercise 2.4: Spatio-temporal aggregation of OD moves

Divide the time period

to 26/07/2012 00:48:03

Rem

21

Divide

25/07/2012 00:00:00

- Cancel all filters (cluster selection and attributebased filter).
- Close all additional windows (leave only the main window) and clean the main map (remove the cluster visualisation).
- Start the aggregation tool:
 - "Analyse" > "OD moves: spatio-temporal aggregation"
 > a dialog appears with two pre-selected map layers (with the moves and with the space compartments) > press "OK"
 - A time division dialog appears; the temporal resolution "hour(s)" and the interval length "1" are proposed at the bottom > Press "Divide" > A dialog showing the number of breaks appears > press "Yes" > The list of breaks appears in the list box > Press "OK" > A dialog asking about finding useless breaks appears > Press "Yes" > The tool informs about removing a useless break > Press OK
 - Press "OK" in each of the following dialogs (i.e., agree to the use of the default settings) .

