Interuniversity cooperation in the area of Supply Chain Management

student:

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Kharkov-Hamburg

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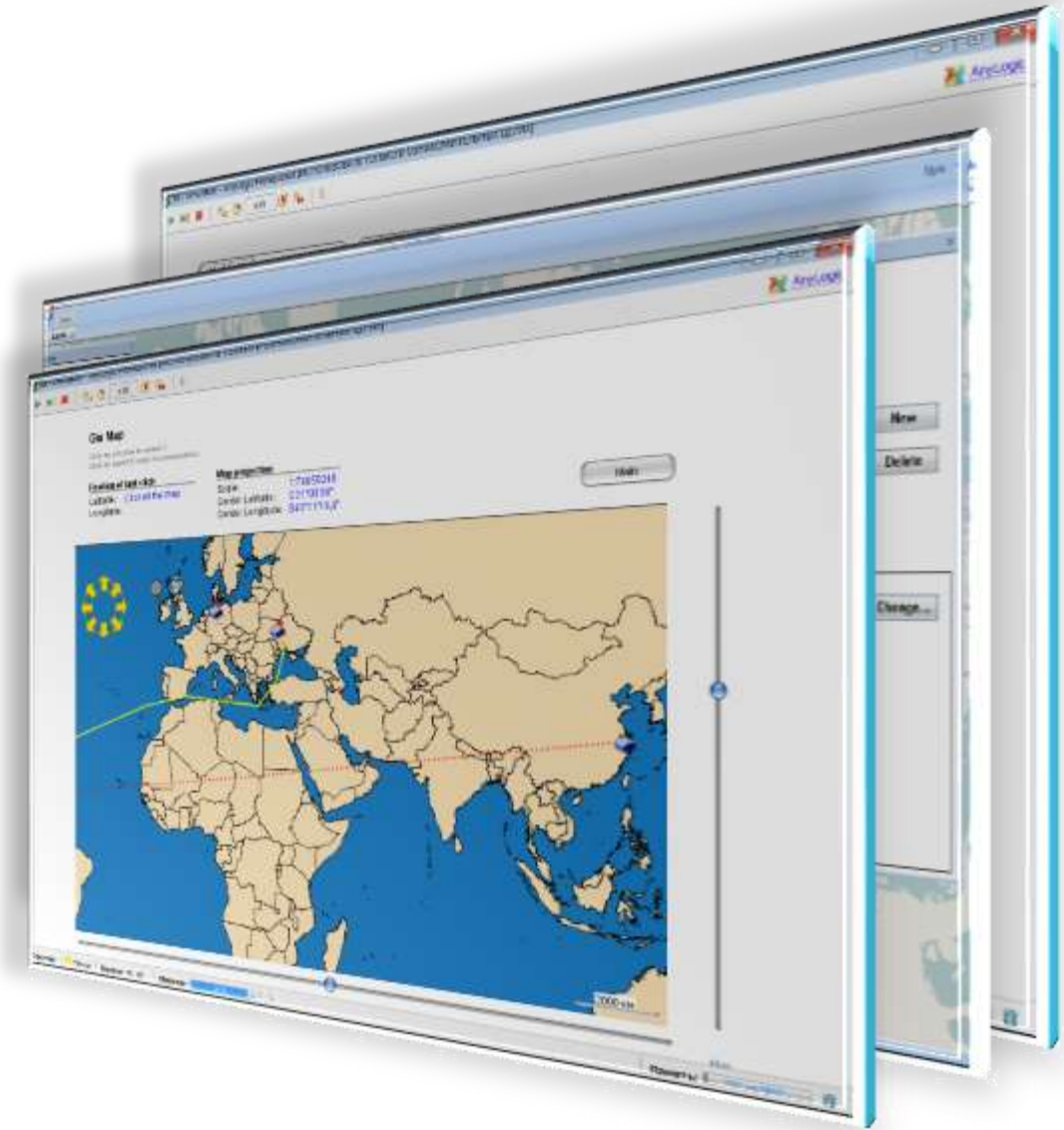
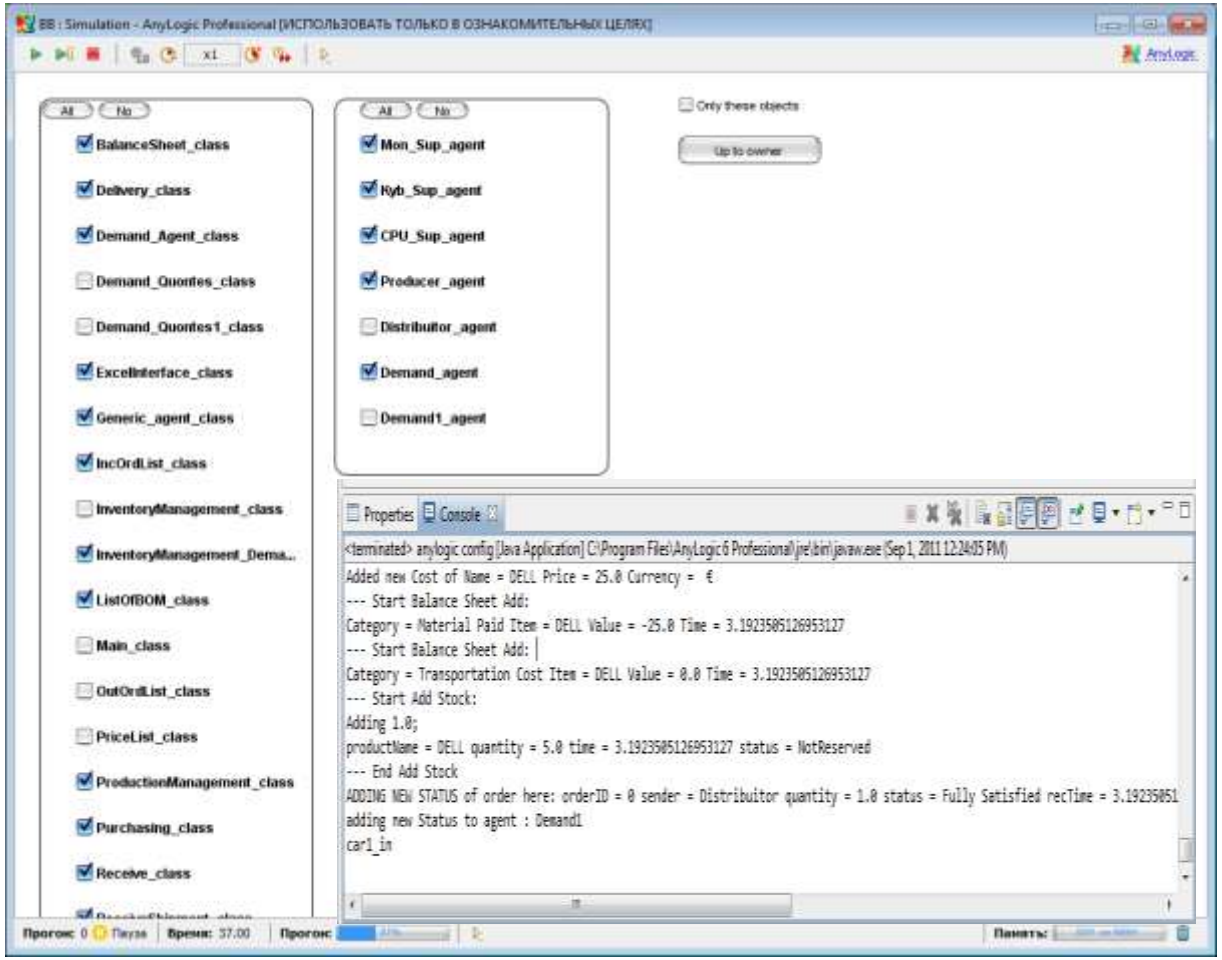
1. The work plan

- Development of functionality to filter of debug information;
- Development a program to build routes to transport goods among agents;
- Adding transport agents and GIS data into the model

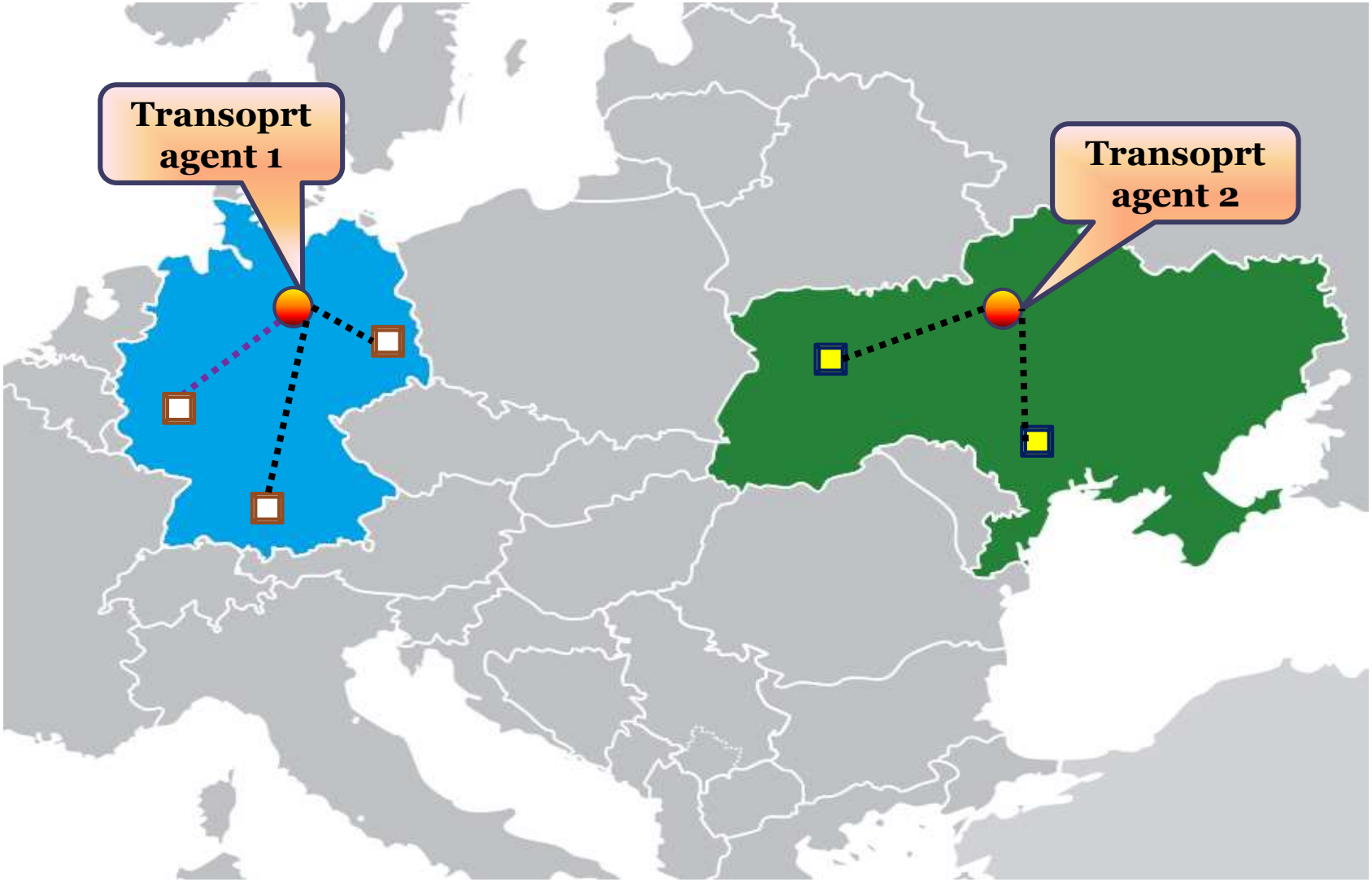


2. Debug information

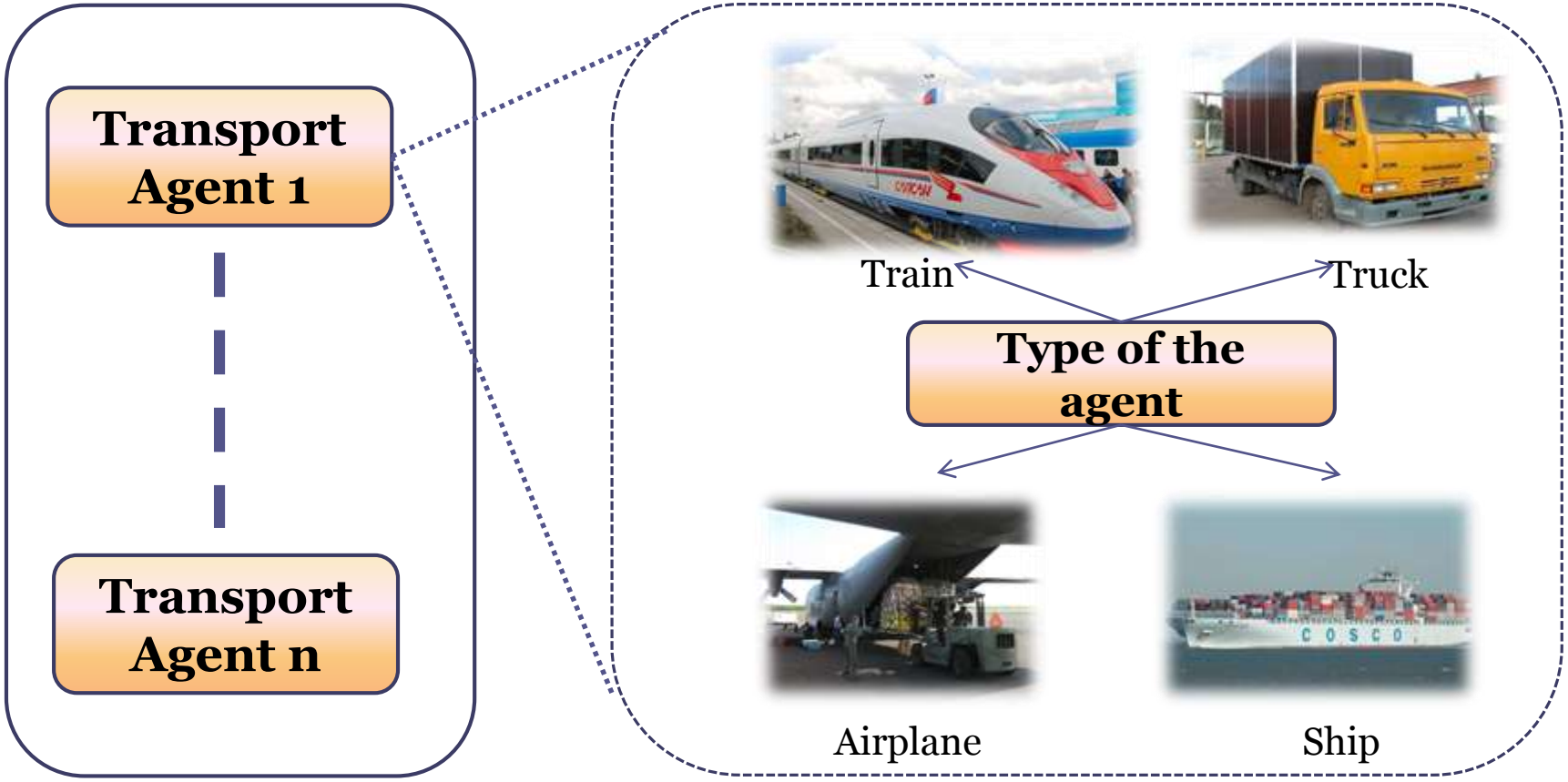
- Management output information to the console window for simulation testing;
- Filter data by objects of classes;
- Filtering data on the agents.



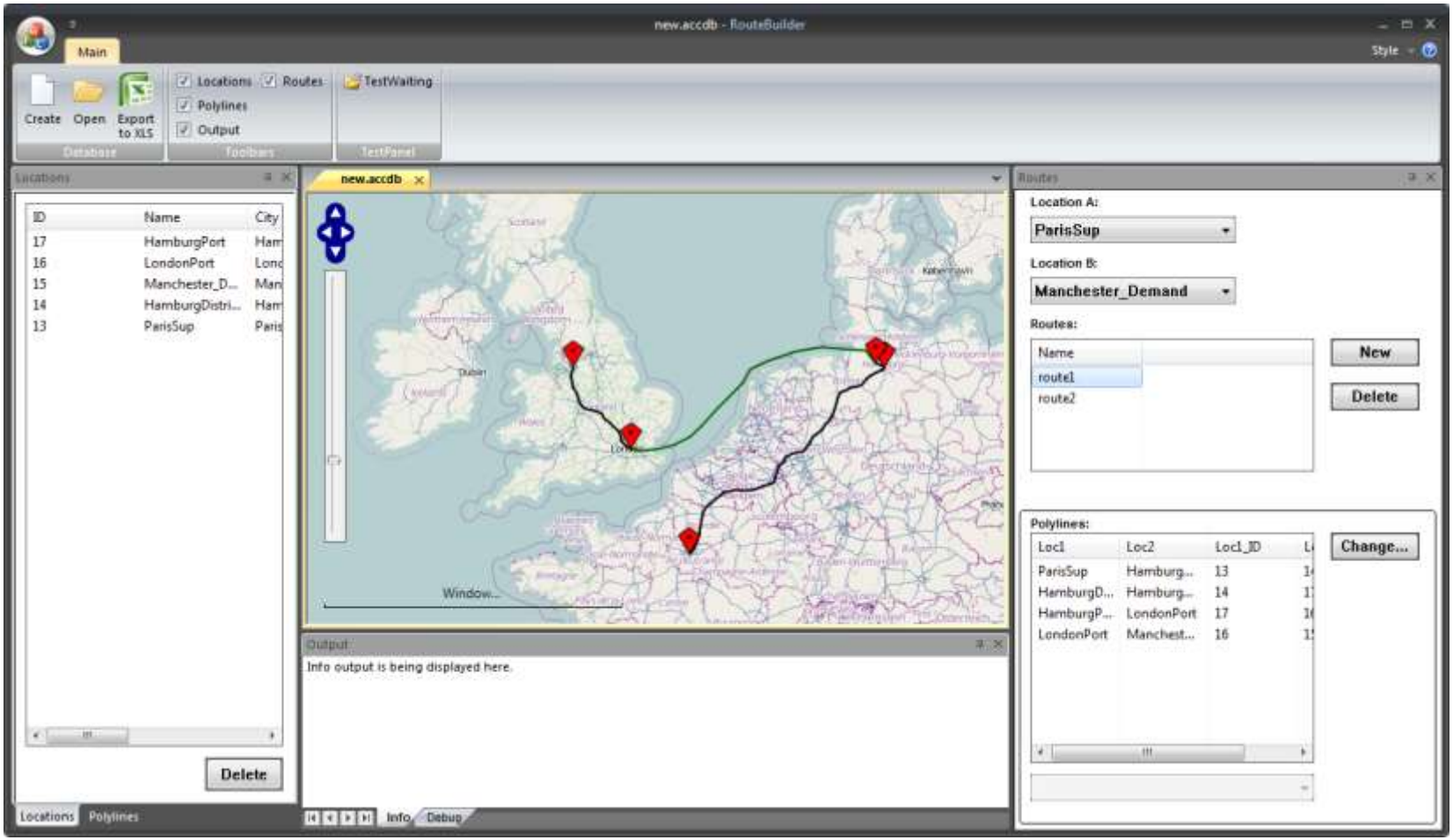
3. Transport logistics



4. Transport agents

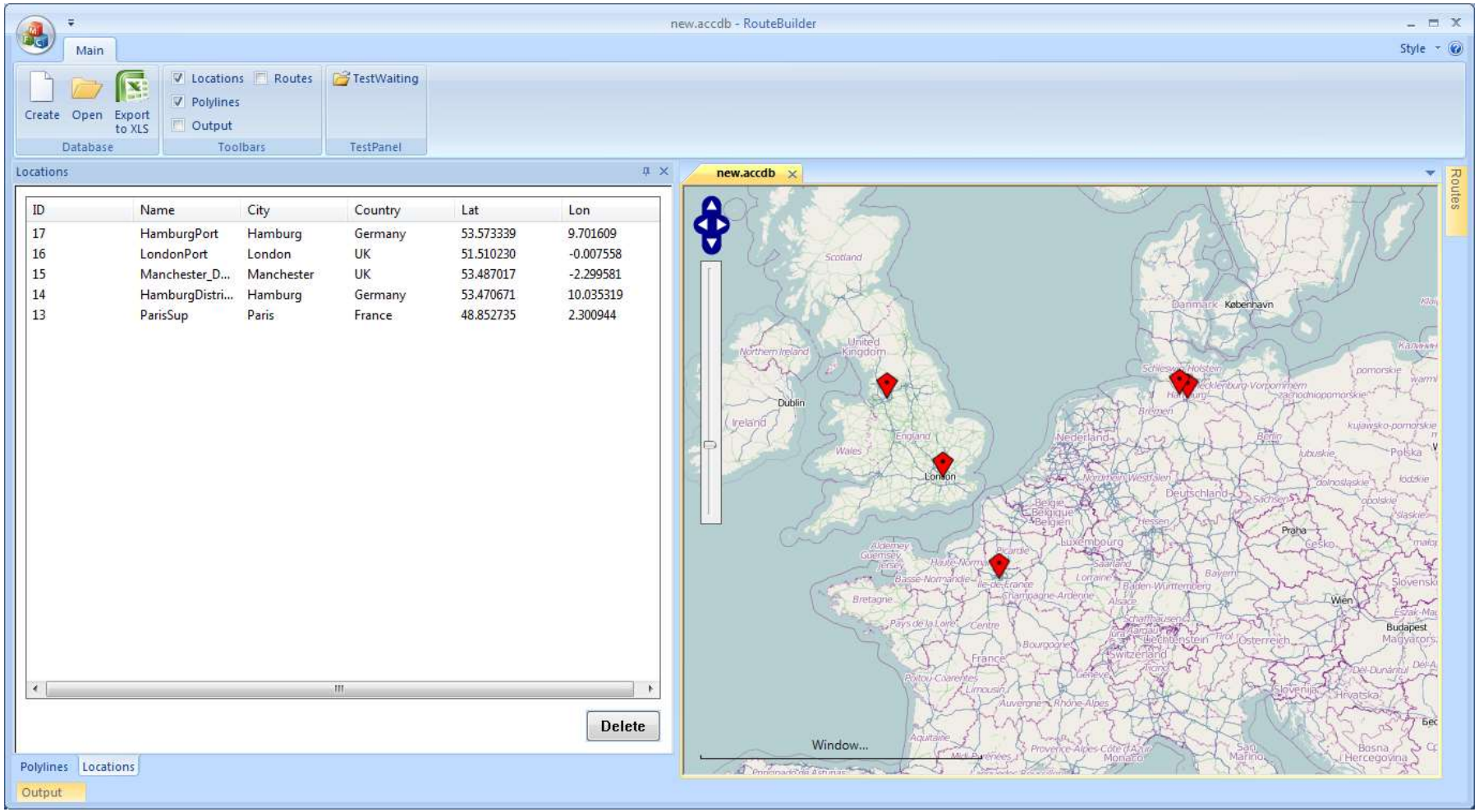


5. Development a program to build routes

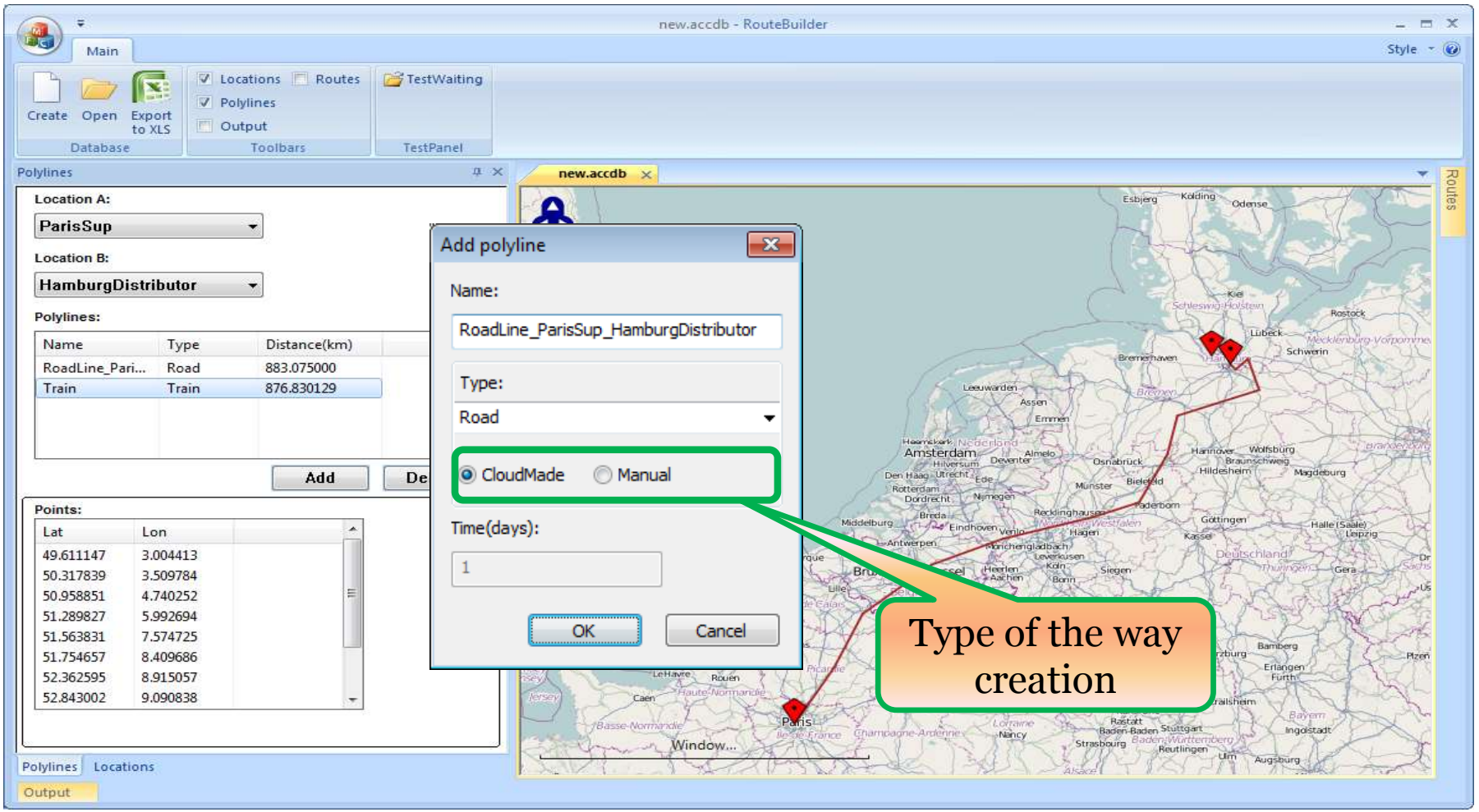


The main window of our program

6. RouteBuilder program. Step 1: Add locations



7. RouteBuilder program. Step 2: Add ways



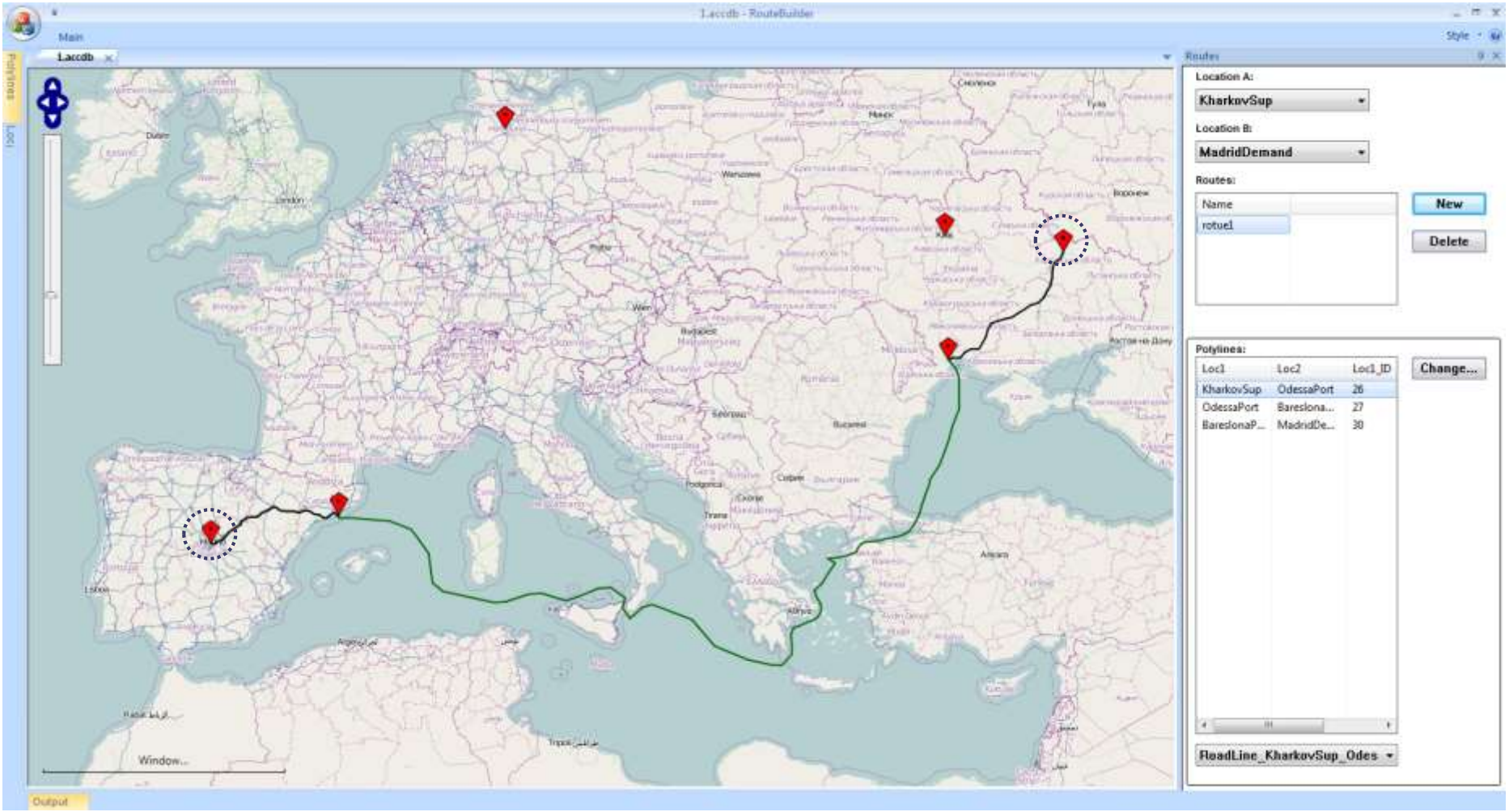
8. The calculating distance algorithm between two geo-locations

2D(Map)

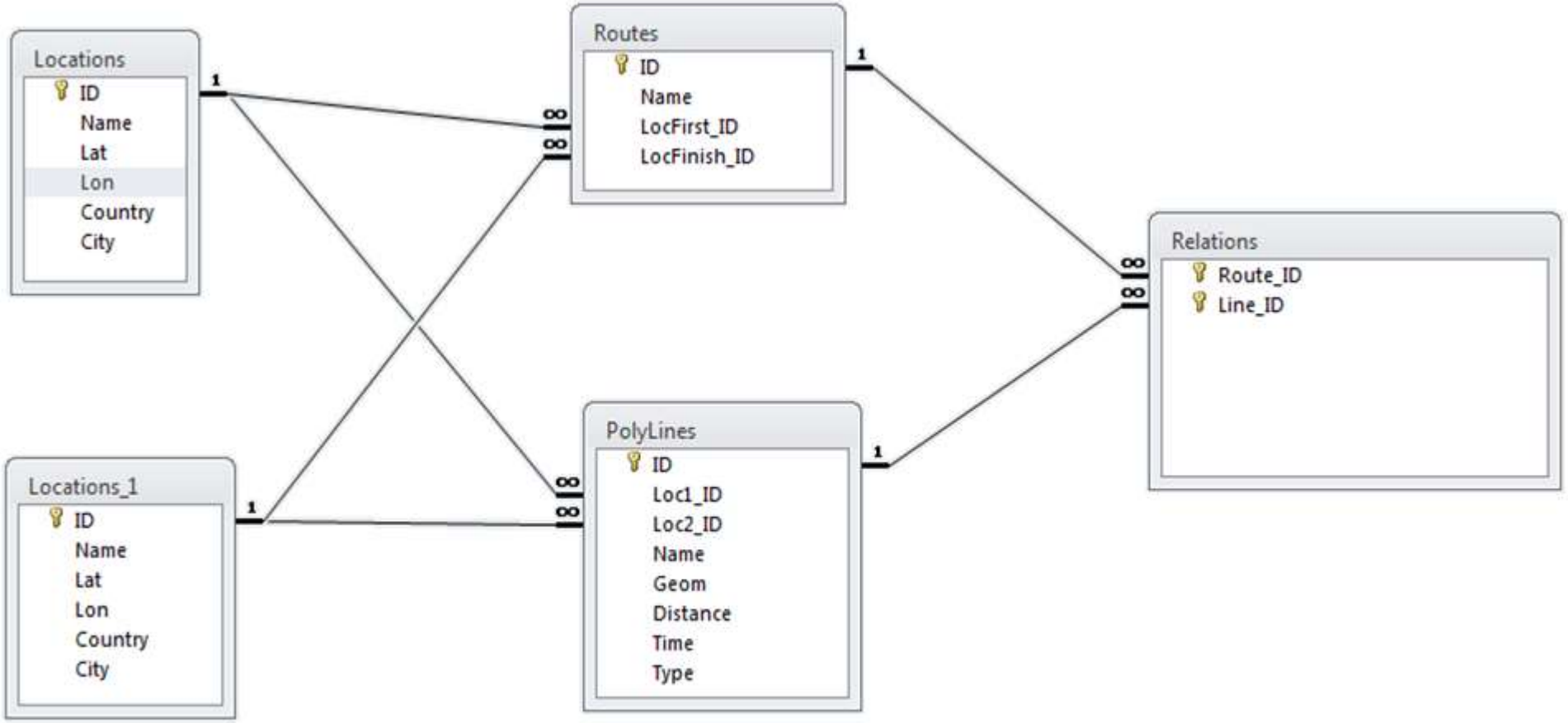
3D(Earth spheroid)

Using of Vincenty's iterative method to calculate the distance between two points on the surface of a spheroid.

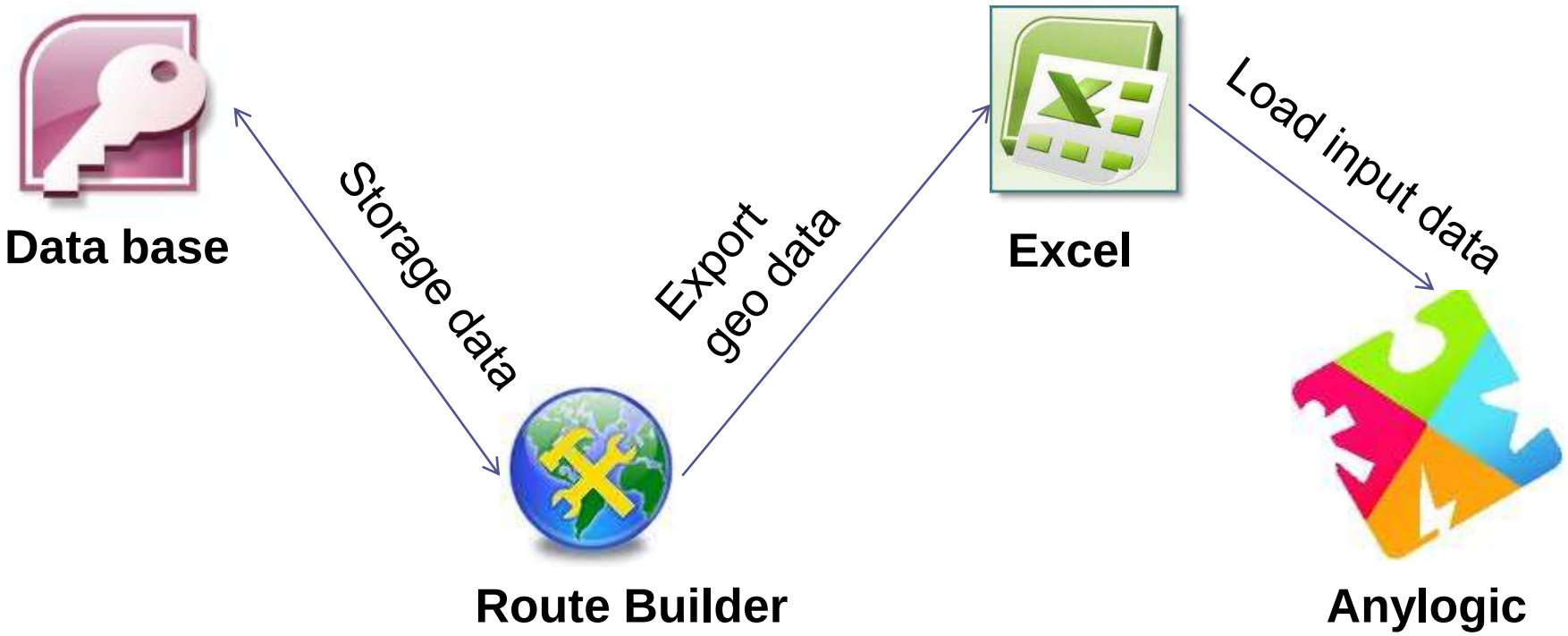
9. RouteBuilder program. Step 3: Create routes



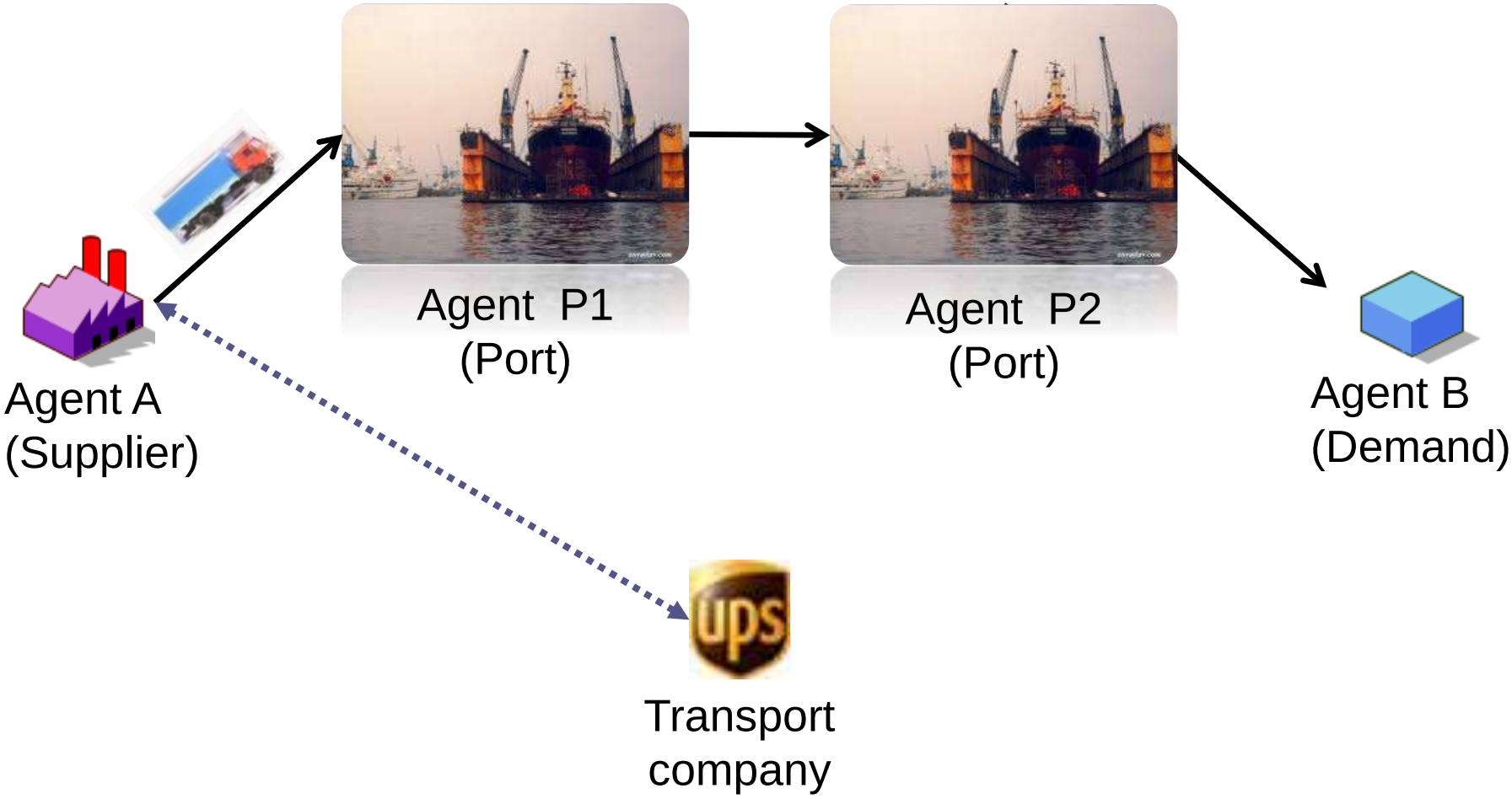
10. Database structure



11. Input data for simulation



12. Messages between agents for transportation of products



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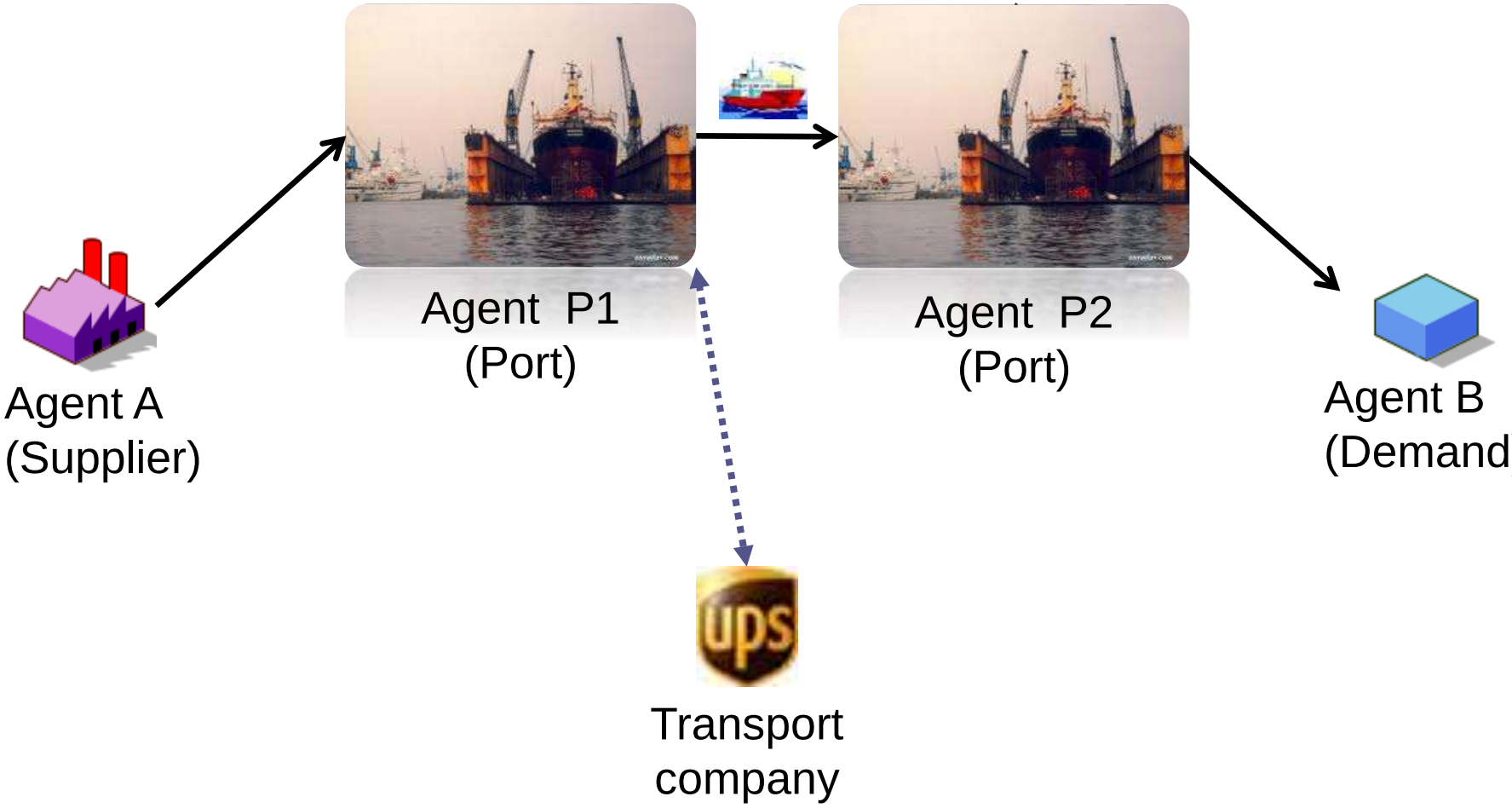

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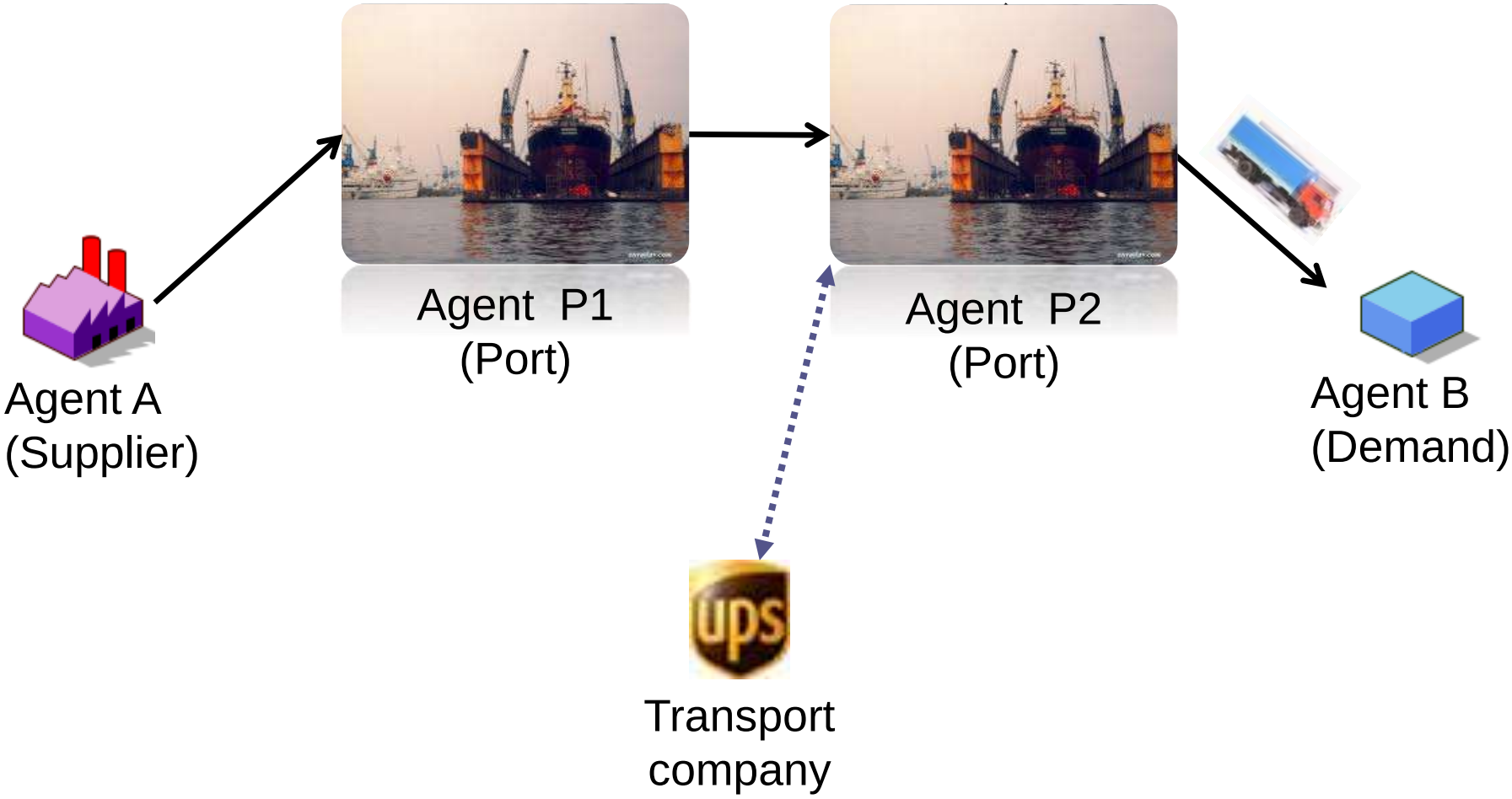


13. GIS Map

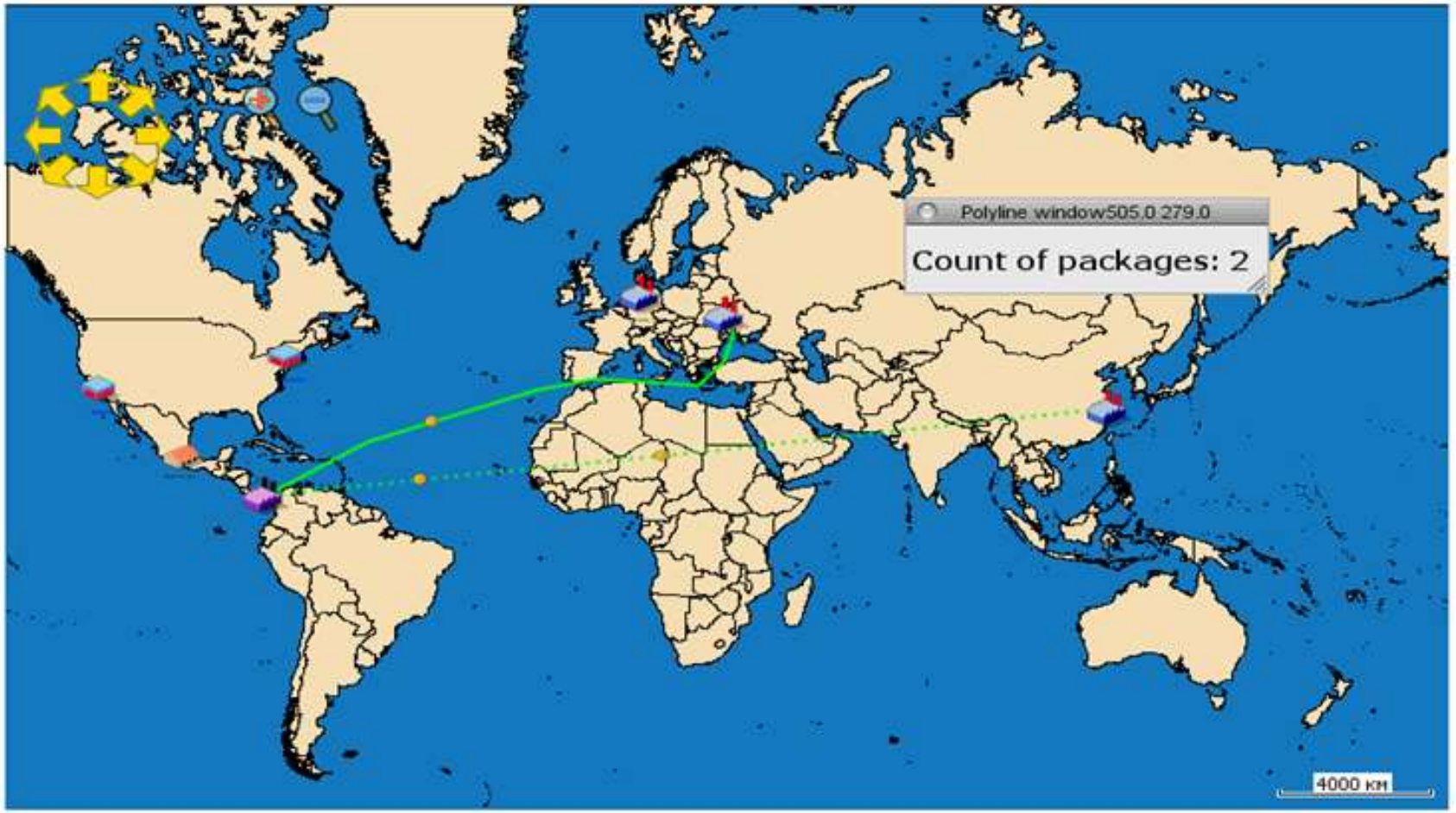
Position of last click

Latitude: O29°17'44,8"
Longitude: B15°05'36,7"

Map projection

Scale: 1:158100496
Center Latitude: C31°00'00"
Center Longitude: B28°00'00"

Main




Thank you
for your attention!