The birth of topology and graph theory: Euler's 7 Bridges of Königsberg/Kaliningrad, Russia

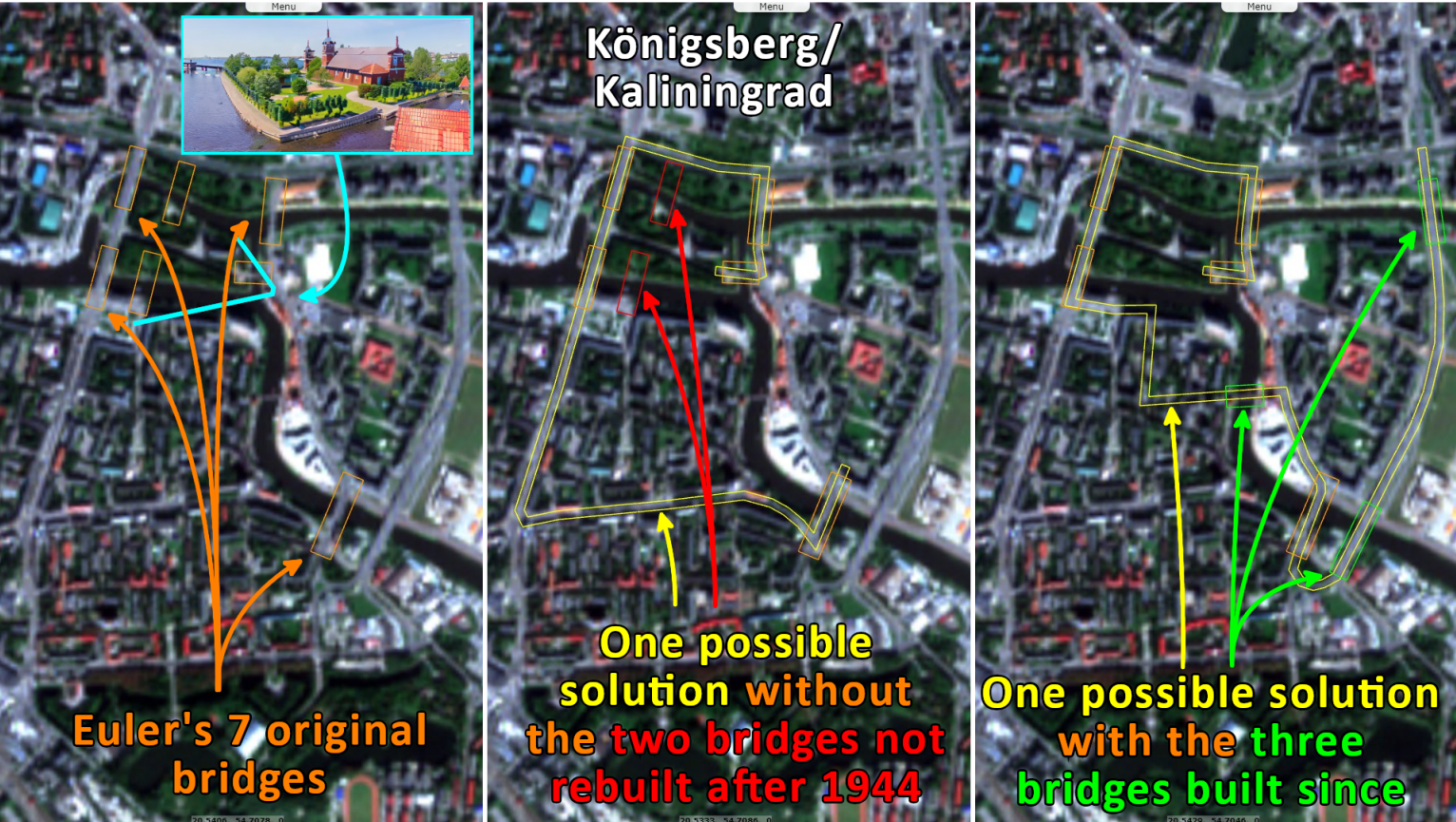Fig. 1 - S1 (14.10.2021-07.11.2021) - In 1735, German scientist Leonhard Euler made some of the first work dedicated to topology & graph theory. 3D view
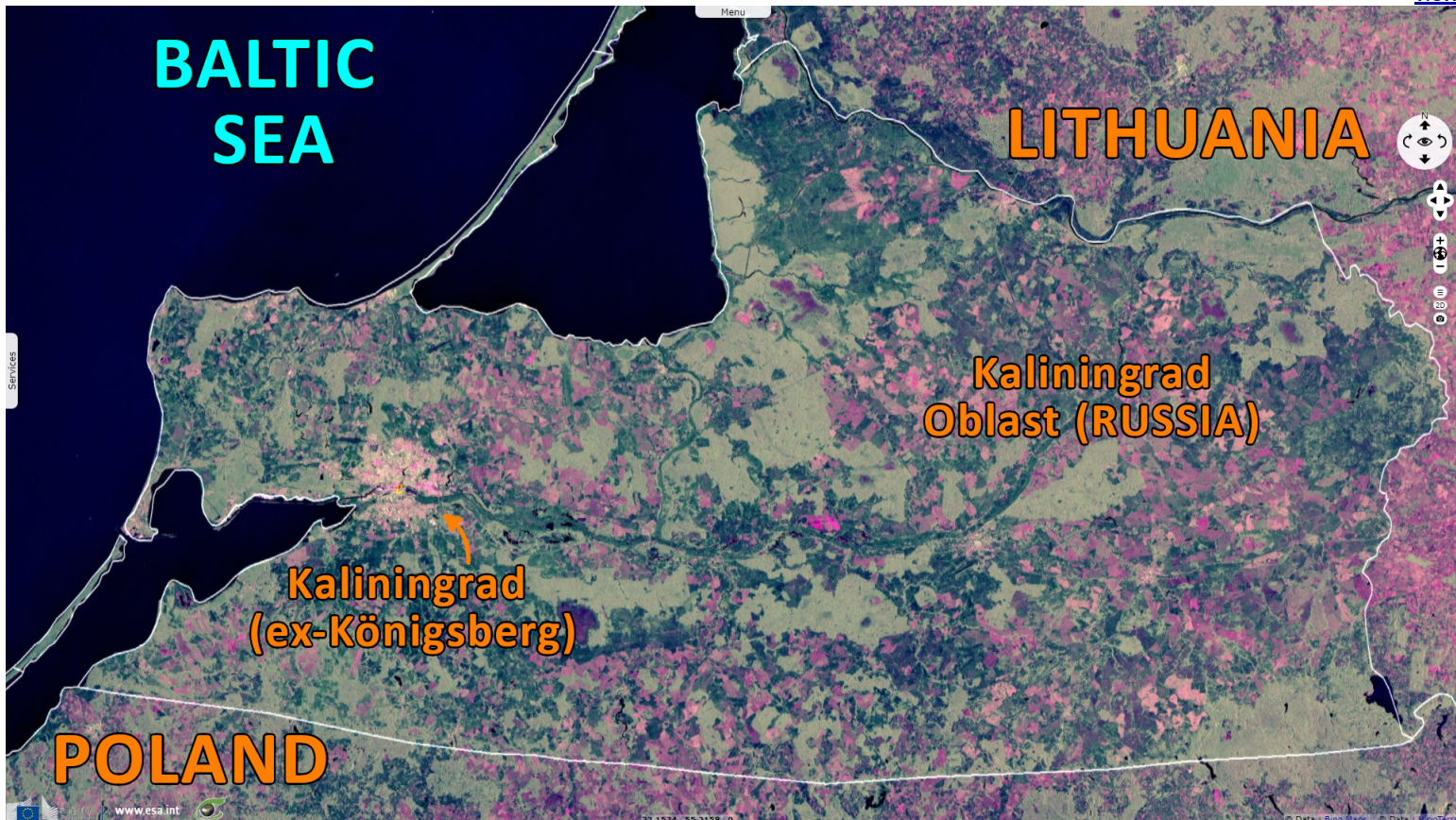
He proved that it was not possible to plan a route that would cross each of the seven bridges of Königsberg exactly once.

Königsberg/Kaliningrad

Euler's 7 original bridges

One possible solution without the two bridges not rebuilt after 1944

One possible solution with the three bridges built since

Only five were rebuilt in the city renamed Kaliningrad after its conquest by USSR. This new configuration and the new bridges built since provide multiple solutions to this renewed version of Euler's problem.

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