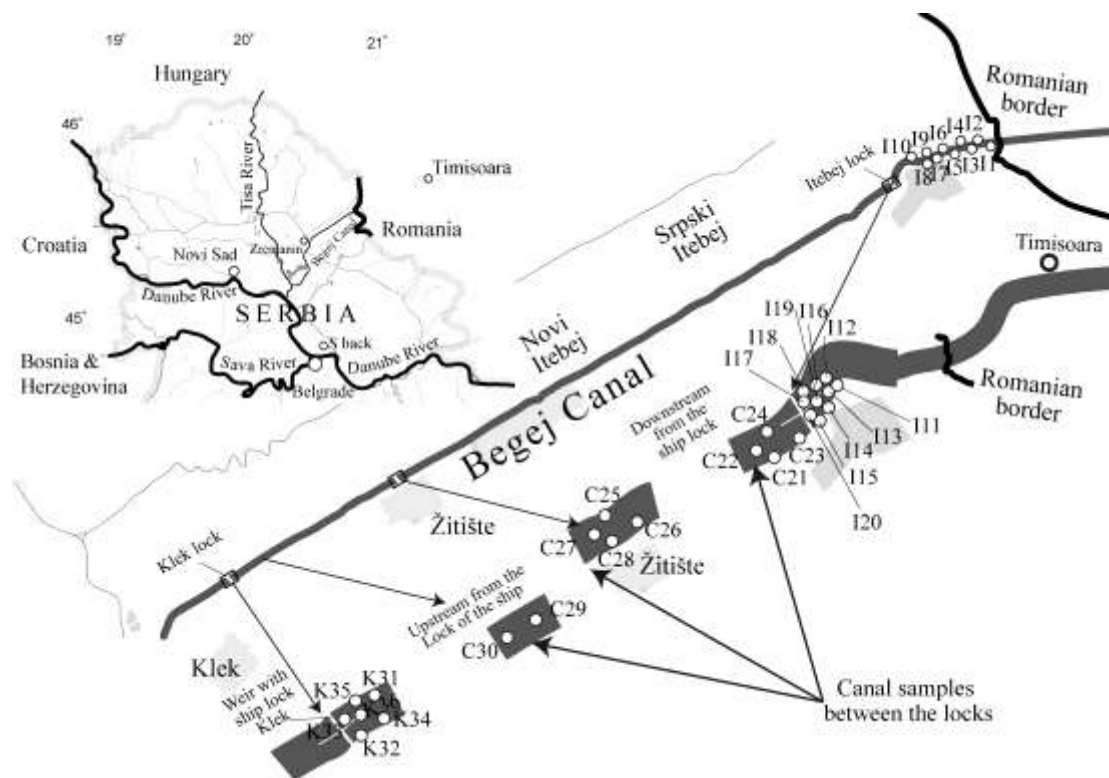


# ASSESSMENT OF SEDIMENT QUALITY USING DIFFERENT POLLUTION INDICATORS AND STATISTICAL ANALYSES: BEGEJ CANAL (SERBIA-ROMANIA)

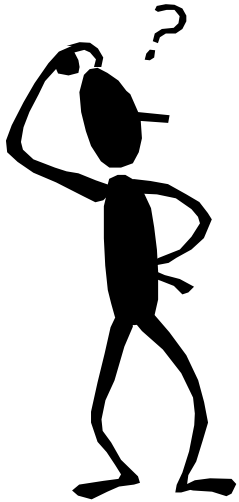
~ 300,000 m<sup>3</sup> of sediments  
needs to be removed from  
Serbian part of canal



Sampling sites at 32.3 km stretch of canal Begej



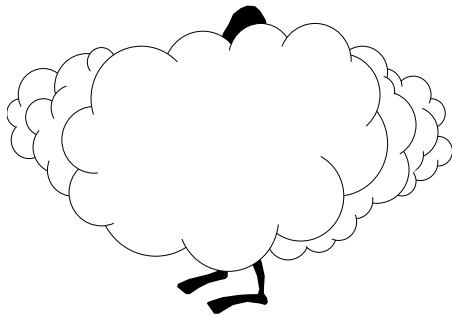
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Sediment quality was assessed using several **pollution indicators**:

- geo-accumulation index ( $I_{geo}$ ) and
- statistical analyses tools (box and whisker, 3D plot and 3D Factor Plots in Related Space, Statistica 13.2 software).

To determine and predict trends, **multivariate statistical methods (factor analysis of principal component analysis, PCA/FA)** was carried out on the organic and inorganic parameters analyzed.



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