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Radionucleid Dynamics Study

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Sources of radionuclides arise both from regular industrial activity and from out of ordinary events such as the Chernobyl disaster. It is typical for most of the models to focus on short-term prognosis and momentary studies. But the nature of these phenomena is such that their timescale is comparable or even exceeds the lifetime of mankind. So in our research we are focusing on long-term predictions.

The goal of our study is to build a model incorporating the known ways of the spread, to compare the results to the real-life data and to analyze which factors are being missed. It should also give the possibility to predict the dynamics in different sets of environmental conditions - including, but not limited to climate, relief, vegetable and animal world, currents, economical activity etc.