RIKOV Support

1 Short-term demand

The BMBF[1] sponsored research project RIKOV is developing a planning instrument consisting of different IT-models. The data flow between these IT-models has to be automated. For that purpose up to and including three students should support the study team as programmers.

2 Background

The current concept of the planning instrument requires an automated data flow between following models (Figure 1):

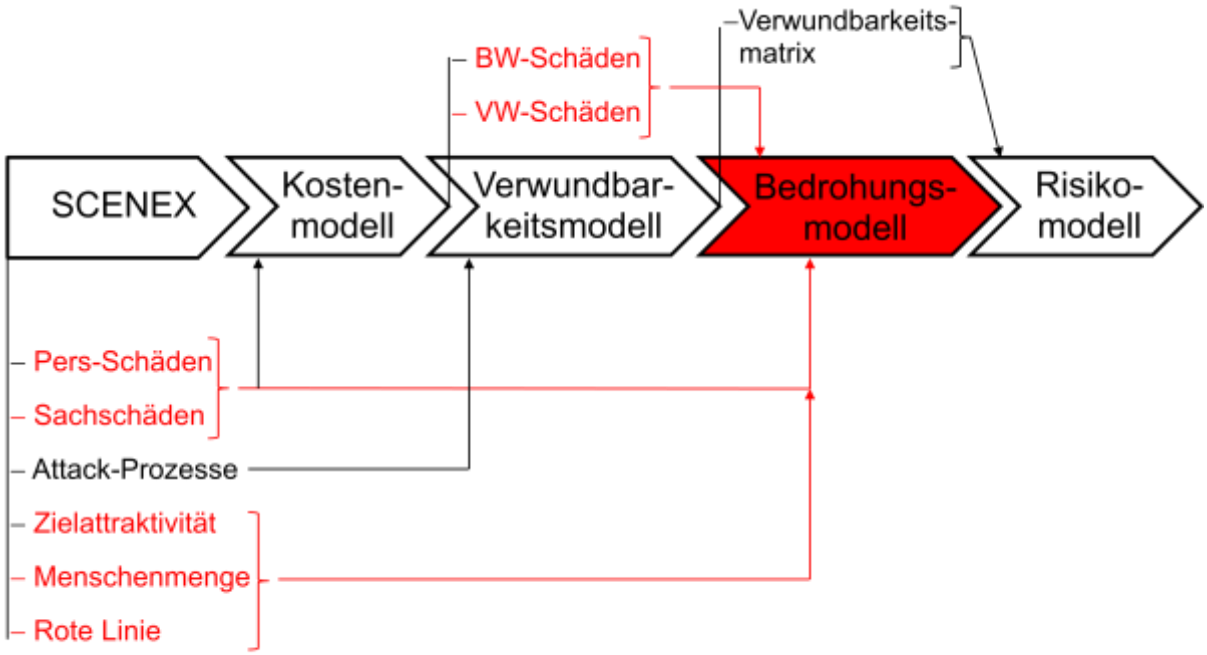

Figure 1: Data flow between some IT-modules of the RIKOV planning instrument

Legend:

SCENEX	Scenario Exerciser;	Kostenmodell	Cost model;
Verwundbarkeitsmodell	Vulnerability model;	Bedrohungsmodell	Threat model;
Risikomodell	Risk model;		
Verwundbarkeitsmatrix	matrix with vulnerability values;		
Pers-Schäden	damage to persons;	Sachschäden	material damage;
Attack-Prozesse	working processes of an attack;		
Zielattraktivität	attractiveness of a target;		
Menschenmenge	crowd;	Rote Linie	cross the “red line”;
BW-Schäden	operational damage;	VW-Schäden	economic damage;

[1] Bundesministerium für Bildung und Forschung (Federal Ministry of Education and Research)

3 Tasks

The task description contains following activities:

(1) Analysis of the data flow between the different RIKOV models
(2) Analysis of the input/output descriptions of the RIKOV models
(3) Analysis of the data concept of the RIKOV planning instrument which is nascent at the moment
(4) Development of an interface concept for the automated data exchange between the different models of the RIKOV planning instrument
(5) Programming and testing of the different interfaces
(6) Documentation of the interfaces