

Operational Risk Analysis for Railway and Maglev Transport Systems

“Operational risks are accidents waiting to happen.”

Do you know of the latent operational risks that could cause a disastrous collision on your line tomorrow?

Have these risks been analysed for the effect they could have on your organisation?

Are the key members in your organisation aware of their roles and responsibilities concerning Risk Management?

Do you have a clearly defined Crisis Team that regularly simulates catastrophes together with your operational centre and emergency services?

Our know-how and experience in the field of operational risk analysis can significantly improve the quality of your operational services.



Identifying and Analysing Potential Risks

The key to good Risk Management is **“Act before you need to React”**.

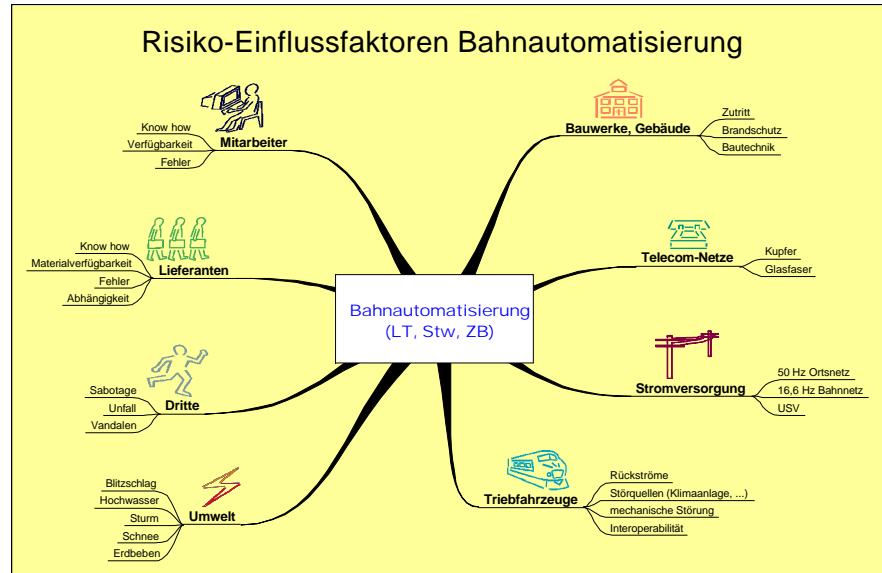
Based on the CENELEC RAMS Safety Standards and our work within the scope of the Operational Risk Analysis for the Swiss Federal Railways SBB AG, Swiss Railway Engineering has developed a formalised **Operational Risk Analysis and Assessment Programme (ORAA)**.

The ORAA method enables the **identification of critical operational risks** in your project or on your network, thus preventing a major accident on your network and averting the resulting crisis for your organisation. Together with experts from your organisation, the risks are analysed in detail, evaluated for their **safety and cost impact**, and counter measures are defined. This data can then be used to define **innovative steps to improve your operational services**, to improve your organisational structure and can be used as a basis for **future investment decisions**.

For more information or an informal meeting to discuss your project, contact our project office in Zurich, Switzerland.

Operational Risk Analysis and Assessment Program (ORAA)

Methodical Analysis of Risk Factors



Example of two methods used in the ORAA Program.

Capturing and Analysis of Risk Scenarios

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10