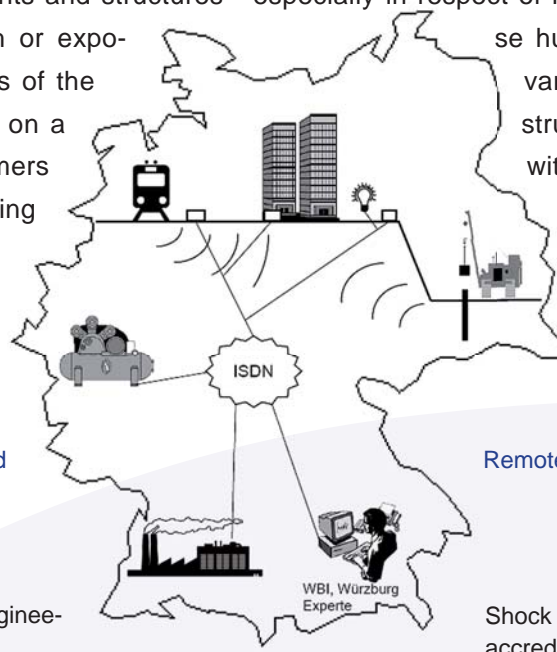


SHOCK AND VIBRATION CONTROL & MONITORING

Most frequently shock and vibrations are caused by the operation of machines and plants, road and rail traffic, construction works (pile driving, shaking, blasting) and human behavior. Such shock and vibrations can reduce the operational performance of machines, damage plants and structures - especially in respect of historical important buildings - and have pollution effect on human health or expose humans to risks. Therefore, it must be guaranteed that vibration tolerances of the various structures are not exceeded or that the shock and vibration impact on a structure is prevented respectively. For this purpose we support our customers with the prevention of vibrations and take targeted control and monitoring measures.

Our scope of services includes:



Systematic conceptions for shock and vibration control and monitoring

Shock and vibration control in civil engineering according to DIN 4150

Determination of the shock and vibration compatibility on the basis of codes and standards, directives and guidelines and technical documentation and by means of lab testing, e.

Design and retrofit of vulnerable objects

Shock and vibration control of plants and building

Remote monitoring, long-term monitoring

Shock and vibration measurements, institute accredited according to German law (§§ 26/28 BImSchG)

Acceptance test on completion of construction works

Shock and vibration prognosis by means of soil dynamical investigations, FEM-analyses, simulation of the soil-structure-interaction

Measurements as preservation of evidence and expert report

Wölfel is your competent partner when dealing with questions in the area of shock and vibration control, independent of whether protective measures have to be taken at the origin, on the transfer route or at the receiver.