

# Consulting

for resilient  
soil and  
infrastructure  
protection

We combine scientific modeling, well-founded assessments, and practice-oriented consulting into an integrated approach. This makes damage from soil erosion and heavy rainfall predictable, preventable, and manageable.

## Who we work with

**Municipalities and urban planners:** climate-adapted neighborhood and district development

**Infrastructure operators** (railways, highways, energy): protection of critical networks

**Agriculture and consultants:** safeguarding land and yields

**Insurance and reinsurance companies:** reliable risk data for prevention

**Companies and investors:** security for sites and investments

## Our Offer

**Customized consulting packages:**  
Analysis → Strategy → Implementation

**Integration of our Erosion-3D simulation tool  
JUWICON** – for precise erosion and heavy rainfall analyses

## Your Benefits

**Early detection and prevention** instead of costly maintenance

**Economic resilience** through minimized risks

**Long-term protection** of infrastructure, land, and investments

## The Future planned.

In each of our projects.



**Scan the QR Code**  
for more information  
and initial analysis  
of your catchment  
area.

IPROconsult – General planner since  
1949. Interdisciplinary expertise for  
sustainable and resilient planning.

## The Challenge

### Massive land loss

Worldwide, around 15 million km<sup>2</sup> of land are already degraded, with about 1 million km<sup>2</sup> added every year.

Reference: <https://www.preventionweb.net/publication/stepping-back-precipice-transforming-land-management-stay-within-planetary-boundaries>

### High losses from soil erosion

75 billion tons of soil are lost annually – with damages exceeding 400 billion USD

Reference: <https://pmc.ncbi.nlm.nih.gov/articles/PMC5722879/>

### Increase in extreme rainfall due to climate change

For each degree of warming, the intensity of heavy rainfall events increases by about +7% – with massive consequences for erosion and flooding.

Reference: <https://www.ipcc.ch/srccl/>

## The Consequences

**Agriculture:** crop failures, nutrient loss

**Cities and municipalities:** flooded neighborhoods, damage to roads and buildings

**Infrastructure:** washouts, flooding and sediment deposits, business interruptions

**Water management:** impaired water quality, reservoir sedimentation, higher treatment costs

**Insurance:** rising claims, unclear risk profiles



## Our Services

# Consulting for erosion protection

– the complete package



### Modeling and risk assessment

Modeling, reports, concepts, and recommendations for identifying and qualifying erosion-prone areas.



### Expert reports and strategies

Through in-house model development and research partnerships, we provide solid foundations for planning, consulting, and risk prevention. Focus areas: hazard and risk analysis, planning and implementation of protective measures.

From thorough analysis to successful implementation, we offer all the components for effective erosion risk management from a single source – supplemented, if desired, by interactive tools that integrate erosion prevention seamlessly into your heavy rainfall preparedness measures.



### Consulting and project development

Development of practical adaptation and protection concepts for municipalities, infrastructure, agriculture, and businesses.



### Implementation support

Assistance from planning measures to realization – including accompanying monitoring.