



Expertise at every level

Cutting-edge solutions
for a connected world

Basler & Hofmann



At Basler & Hofmann, our multidisciplinary teams work together to find new answers to complex questions, such as this Basler & Hofmann office building. It is fully self-sufficient in terms of producing the energy required for heating and cooling. Internally, the building complies with the highest environmental standards.

We are driven by a quest to provide groundbreaking solutions for a densely built-up and developing world.

We create spaces for living

We live in a densely built-up world – a world which is constantly changing. The important issues of tomorrow will be determined by how we deal with space and natural resources today. Construction, mobility, energy, safety and the environment – Basler & Hofmann works for its clients in all these areas. We offer consultancy, planning and engineering services.

Shaping the future

Nothing is as constant as change itself: towns and cities are forever evolving. Sprawling industrial areas are being transformed into new spaces for living, working and recreation. Urban areas are growing. People are becoming more mobile: how can infrastructure be further developed to meet these new requirements? Both natural and man-made environments are becoming more and more closely intertwined. How can natural habitats be protected? And how can society protect itself from natural hazards? Our natural resources are becoming scarcer. How can we preserve them for future generations? These are the major challenges that Basler & Hofmann is working to resolve.

Consultancy – planning – engineering

Everything in our modern world is interconnected. As a company offering services in engineering, planning and consultancy, we provide our clients with solutions that are tailor-made for the complex world in which we live. For us, consultancy means understanding, interpreting and formulating the needs of society at large. Planning is the integration of the most varied of requirements and future developments. And engineering means designing efficient and sustainable solutions. As an independent, family-owned company, we have always remained true to these three areas of activity. Our solution-orientated approach enables us to make a significant contribution to technical, environmental and social development. We create spaces for living.

Structural engineering

- Buildings
- Facade engineering
- Glass structures
- Steel construction
- Structural dynamics

Civil engineering

- Geotechnics
- Urban civil engineering
- Utilities provision
- Civil engineering
- Special civil engineering
- Earthworks and dam engineering

Tunnels

- Underground engineering
- Cut-and-cover tunnels
- Rail tunnels
- Road tunnels
- Rescue tunnels
- Caverns

Transportation infrastructure

- Airports
- Alignment
- Bridges
- Rail and light rail
- Railway technology
- Railway station construction
- Roads and highways

Energy

- Energy concepts
- Communal energy planning
- Building physics
- Minergie
- Photovoltaics

Transportation and spatial planning

- Transportation planning
- Spatial planning
- Railway stations
- Mobility and site development

Water

- Urban drainage
- Water supply
- Hydraulic engineering
- Flood protection
- Hydropower

Environmental engineering

- Environmental planning
- Vibration and noise protection
- Soil protection and contaminated sites
- Asbestos and building contaminants
- Environmental chemistry
- Environmental technology

Safety and security

- Risk analysis
- Major accident prevention
- Fire engineering
- Seismic engineering
- Structural safety
- Biosafety
- Civil defence

Building services

- Heating, ventilation, air conditioning, sanitation, electrical systems
- Operational optimisation and user satisfaction

Real estate

- Real estate strategy
- Site development
- Educational buildings design
- Sustainable buildings

Management

- Value preservation
- Surveying
- Structural monitoring
- Geographic information systems
- Geodata management
- Operational planning

Consulting

- Construction project management
- Master planning
- Expertise
- Competitions
- Due diligence

Project teams

Basler & Hofmann provides a bespoke technical team for each project. This team consists of people with the complete range of expertise and skills required to provide the best possible service.



Holistic solutions

In today's complex world, few engineering challenges can be handled by a single expert. Basler & Hofmann employs specialists from more than 30 disciplines. Our objective are holistic and resilient solutions. We embrace new requirements placed on our work at an early stage and continually develop our services.

Our solutions are resilient

A client's project and requirements are the focus of our business. We provide tailored teams to deliver the right expertise for each individual project. Responsible for budget, quality and deadlines, the project manager is the main contact person and works behind the scenes to coordinate the work of our qualified experts. This offers our clients a number of benefits: it gives them the security of knowing that synergies and conflicts can be detected at an early stage and that all aspects of the project are well coordinated. Should new requirements in the project arise, the necessary expertise is always available nearby. This means that our clients get quick answers to any questions, and that their project is supported by a firm foundation.

Innovation is in our DNA

The names of our founders are synonymous with innovation and connected thinking. We have always been quick to embrace the requirements of a constantly changing world – whether they are technical, environmental or social in nature. Our company development is characterised by the ongoing expansion of our skills: We share expertise, broaden our knowledge and test new methods and techniques in innovation projects, research projects and collaborative projects with universities. We are actively involved in professional bodies including the standards committee of the Swiss Society of Engineers and Architects (SIA) and the Swiss Association of Consulting Engineers (usic). Abroad, we are associated with leading engineering companies in the Europengineers network and other specialist organisations. Our clients can be confident that the solutions we offer incorporate the very latest thinking.

The projects we carry out for our clients provide the best proof of our expertise and efficiency. Our work covers a broad range of projects: they include major infrastructure projects which are unique in terms of their size and complexity, pioneering projects where interdisciplinary teams work together to develop new solutions and small niche projects which involve the work of only a few specialists. The project work entrusted to us speaks for itself.



Large-scale project in the Alps

The Andermatt tourist resort

An outstanding project: this large-scale project involves the construction of a luxury resort in the Urserental, comprising 5 hotels, 30 villas and extensive leisure facilities. Basler & Hofmann was responsible for spatial planning including 6 special land use plans and for the environmental impact report, as well as environmental construction support.

Client: Andermatt Swiss Alps Ltd.

Cross-border flood protection

Large project on the Alpine Rhine

For a section of around 26 km, the Rhine forms the border between Austria and Switzerland. Thanks to a large bilateral project, the flood protection of neighbouring communities should be improved and the river upgraded environmentally. Basler & Hofmann is heading up the international planning team.

Client: Internationale Rheinregulierung IRR



© AlpTransit Gotthard, A. Wildbolz

Full speed ahead to the Gotthard

Approach line to the Gotthard Base Tunnel

Basler & Hofmann designed the approach line to the world's longest railway tunnel. In addition to being technically very challenging, the project also had to comply with stringent standards relating to environmental compensation measures, architectural design and flood protection.

Client: AlpTransit Gotthard Ltd

Renovation of a mountain motorway

Murg – Walenstadt motorway section

The A3 motorway runs through country next to Lake Walen that is topographically challenging. On a section of 11 km, there are 5 tunnels, 4 bridges and over 20 retaining walls. Basler & Hofmann drew up the global maintenance plan for the repair work and took responsibility for overall project management.

Client: Federal roads office (FEDRO)



Bridge refurbishment work on Lake Geneva

Securing the foundations and rock anchors

On the A9 motorway alongside Lake Geneva there is a row of impressive bridge structures. These structures, which are around 30 years old, were showing signs of damage and some were proving to be too narrow for current demands. The rock anchors had to be replaced in the case of 3 bridges. Basler & Hofmann was in charge of the intervention project.

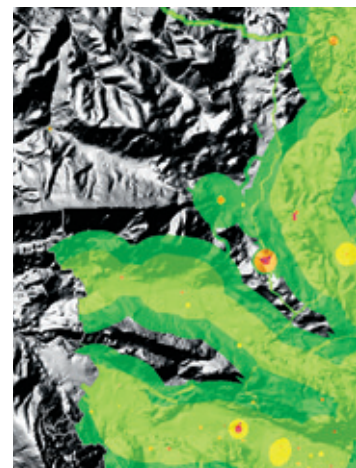
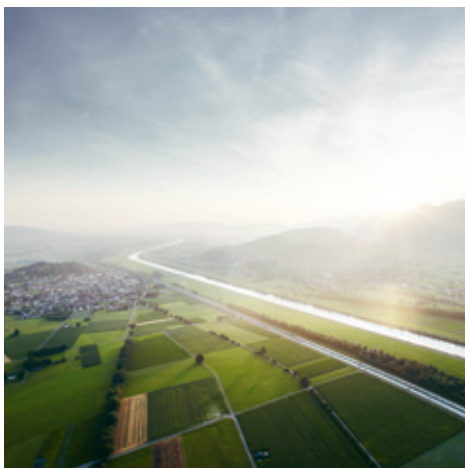
Client: Federal roads office (FEDRO)

Chemical risks at a glance

Risk register for cantons

Chemical plants and the transportation of dangerous goods pose risks for both people and the environment. Basler & Hofmann's geospatial information system (GIS) assesses these risks and provides a clear analysis of the threat. This is an important decision-making tool.

Client: nine Swiss cantons





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Logistics centre, bakery, frozen storage facility

Large-scale project for Coop in Schafisheim

This new logistics centre is a high-class project: it will feature the largest bakery in Switzerland and a 10-floor-high bay freezer warehouse. It was only possible to come to terms with the complexity of the project thanks to close cooperation between all the disciplines involved – from transport planning, foundation engineering and structural engineering to site management.

Client: IE Food Engineering, Zurich



Urban civil engineering work in record time

“Intensive construction methods” employed in the city of Zurich

The Riedtlistrasse in Zurich is an important link road in the city. The road and service pipes, including the 9-metre-deep sewage storage channel, had to be renovated. Thanks to the “intensive construction methods” used, it was possible to complete the project in just 10 months instead of 3 years.

Client: Civil Engineering Office of the City of Zurich



Landquart oil depot: renovation and expansion

From air pollution control to track construction

The Landquart oil depot with a storage capacity of 85 million litres supplies the canton of Graubünden with petrol, diesel and heating oil. Basler & Hofmann is monitoring the refurbishment and reconstruction projects and supporting the client with expansion planning up to the year 2020.

Client: Fenaco AG

Historic transport routes in Switzerland

Specialist services for the Swiss Confederation

Switzerland’s inventory of historic transport routes (IVS) is one-of-a-kind worldwide. Basler & Hofmann has been supporting FEDRO since 2003 with various services, which range from the fundamental work and supervision of repair projects to web and GIS applications.

Client: Federal roads office (FEDRO)

Water, electricity and heating for zoo

General infrastructure at Zurich Zoo

Zurich Zoo receives in excess of 1.4 million visitors each year, making it one of Zurich’s main attractions. Basler & Hofmann is responsible for the general infrastructure of the zoo, including paths and all the service pipes.

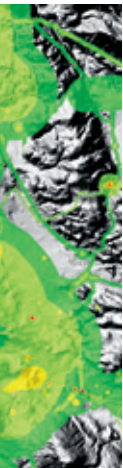
Client: Zurich Zoo

Solar heat from the earth

The first office building with underground energy storage

Basler & Hofmann prepared the energy concept for an office building near Zurich that is virtually self-sufficient: this new commercial building “harvests” solar energy using solar collectors and stores it in the ground. Water is used for cooling. A photovoltaic system covers the majority of the power requirements of this “Minergie-P-Eco” building.

Client: Rehalp-Verwaltungs AG





Runway refurbishment during operations

Main landing runway at Zurich Airport

The main landing runway of Zurich Airport had to be refurbished without interrupting any flights. This planning and logistical masterpiece was brought to fruition during around 100 breaks in air traffic at night. Basler & Hofmann was responsible for the engineering and overall coordination.

Client: Flughafen Zürich AG

New paths in fire prevention

Izar real fire test system

Effective proof of safety is becoming more and more important in fire prevention. With its Izar real fire test system, Basler & Hofmann has developed a worldwide unique appliance, with which tests with smoke and real fires in the megawatt range can be carried out, even in buildings that are still in operation.

The Zurich Cross-City Rail Link

Weinberg Tunnel and low-level station in Zurich

Rail traffic is on the increase: therefore in Zurich a new transit station has been built under the main railway station as well as a rail tunnel that is about 5 km in length under the city centre. Basler & Hofmann handled the general management of both projects and provided expert opinions on numerous special questions.

Client: SBB

Flying high in Zurich-West

High-rise residential and office buildings

Mobimo Tower, Fifty One, Maaghof and "Am Pfingstweidpark" – striking new residential and commercial properties are now appearing in the former industrial area of Zurich West. Basler & Hofmann was responsible for the excavations and supporting structures of these high-rise buildings and acted as consulting experts, for example for the contaminated sites.

Client: Losinger Marazzi AG

A new urban railway: the Glattalbahn

From track system to transfer platform

A new 13-km-long urban railway now connects the Glattal to Zurich. Basler & Hofmann held responsibility for several contracts. The team engineered the track, making sure it blended in with the environment perfectly. This included the engineering and site management of the Stettbach transfer platform as well as offering expert advice on contaminated sites.

Client: VBG Verkehrsbetriebe Glattal AG

Extension of Lausanne railway station

Optimisation of passenger flow and engineering

By 2025, the number of passengers using Lausanne station will double. How can the station be extended and simultaneously more room for commercial facilities created when space is at a premium? Basler & Hofmann analysed future passenger flow figures and was responsible for both the preliminary project and planning application.

Client: SBB





Having the right know-how: complex projects need teams that are equipped with a depth of experience and variety of skills, as well as people who can lead and inspire collaboration.



We expect our project managers to be committed to the project as well as to the people involved.

Inclusive leadership

In our projects, we work with clients, partners and other stakeholders – often very closely and for long periods. Our experience shows that we achieve the best results when the actual process of collaboration is considered as important as the goal itself and when teamwork is governed by fairness and respect. That is the job of our project managers.

Leading through collaboration

Large numbers of organisations and individuals are often involved in our projects. The people skills of our project managers are therefore just as important as their technical capabilities. You have to be a good listener if you want to manage a project well. Only by listening can you take into account the needs and requirements of all parties so that all stakeholders are on board. This often requires a good measure of persistence. We expect our project managers to be committed to the project as well as to the people involved.

Strength in teamwork

No single person can do everything. Complex projects can only be managed successfully using teams equipped with a diverse range of skills and abilities. Even engineers with decades of experience can benefit from their younger colleagues who are open-minded and have an unquenchable thirst for knowledge. The provision of inspirational consultancy relies on an efficient administration to support it. A whole variety of people contribute to the work that goes into our solutions and all our people are very dedicated and highly motivated when carrying out their work and taking on responsibility.

Facts & figures

Can you describe a company with figures? As engineers, numbers are part and parcel of our work. Yet when using numbers alone to describe our company they are meaningless, unless explained and given context.

01.01.1963

The date on which the company was founded

More than 50 years of company history may or may not be a long time. For us, they are testimony to the fact that the company has enjoyed robust and organic growth. We have seen more than just one economic crisis during this period. Basler & Hofmann actually managed to grow during these difficult times. We are still an independently financed company owned by two families who are able to think and act for the long term.

13.04.1994

The first ISO-9001-certified Swiss Consulting Engineering company

We were the first engineering company in Switzerland to hold the ISO 9001 quality management certification. Our quality management tools underpin our everyday work, and quality assurance plays a key role in the training we provide for our staff.

In 1996, we became one of the first service companies in Switzerland to receive ISO 14001 certification for our work in environmental management. Every three years, we carry out an ecological life cycle assessment and use this as the basis for making improvements.

4

countries where we have subsidiaries

Basler & Hofmann has subsidiary companies in Switzerland, Germany, Slovakia and Singapore. Our core business is in Switzerland. We have offices in Zurich, the Berne area, central Switzerland and Basel. It is important that our offices are located close to our clients. We also prefer our staff to be able to work out of only a few sites. This means they are able to collaborate quickly, face to face across the various departments.

> 80

countries where we have a track record

We operate mainly in Europe and Asia. In countries where we do not have our own offices, we often manage our contracts in collaboration with international partners. When an existing client requires a new project, we will work wherever it is located abroad.

600

staff in the Basler & Hofmann Group

The Basler & Hofmann Group employs more than 600 people. More important is the breadth of services we offer: our people are skilled in over 30 different disciplines and about 60 per cent are university graduates. Each of our staff members has an average of 14 years' professional experience. Some enjoy their work so much that they stay on with us even after they retire: 25 per cent continue working for us as consultants.

59

memberships

You can only be one of the best if you learn from the best. It is important for us to share experience with other experts. We are involved in committees and governing bodies of the Swiss engineering associations SIA and usic. Our international contacts are just as important to us. We are a member of the Europeengineers network with seven leading European engineering companies and work hard at nurturing this network. We are also a member of 24 other specialist organisations including the Swiss Energy Forum and the Earthquake Engineering Research Institute (EERI).

600

ongoing projects per year

The most important thing about the numerous projects in our portfolio is that they cover a vast range. They extend from major infrastructure projects that take several years to complete and involve large teams of people to smaller projects which can be handled by a single specialist in a matter of days. What matters most, is the challenge and the variety of our work – something you cannot quantify.

1 million

Swiss francs per year on innovation projects

We are investing in the future. Every year, we complete a large number of innovation projects, which enable us to develop new approaches and improve the services we offer. They range from new construction and measuring techniques to new insights in the area of classroom design. Many departments which are now well established have evolved from one of our innovation projects.

