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FACTS & FIGURES

Company:	FCP Fritsch, Chiari & Partner ZT GmbH
Head office Austria:	1030 Wien, Marxergasse 1B
Further offices:	FCP Ingenieure Deutschland GmbH Kurfürstendamm 194, 10707 Berlin, Germany FCP IBU GmbH, Ladenspelderstraße 61, 45147 Essen, Germany
Company foundation:	1960 by Baurat DI Kurt Wenzel in Vienna 1972 takeover by DI Peter Fritsch and DI Gerd Chiari 1986 foundation of subsidiary VCE ZT GmbH 1995 FCP was founded as ZT GmbH
Management Austria:	Günther Achs, Wolf-Dietrich Denk, Joachim Lanschützer, Christian Nüssel, Dieter Pichler, Robert Schedler
Employees:	approx. 400
Sector:	Design, construction, architecture, civil engineering
Business areas:	Bridge design, building design, industrial design, infrastructure design, civil engineering, KliNa (climate protection & sustainability), Digital Engineering (BIM), measurement and testing technology
Certifications:	ISO 9001 Quality Management ISO 14001 Environmental Management

AWARDS

FCP with its affiliated companies was nominated and awarded for its projects by national and international expert juries several times:

VZI AWARD 2024 | Digital Project Universe ([DPU®](#))

VORBILDLICHES BAUEN IN NÖ 2022 (EXEMPLARY CONSTRUCTION IN LOWER AUSTRIA) | Extension and reconstruction of University of Applied Sciences in St. Pölten, Lower Austria

EUROPEAN STEEL DESIGN AWARDS 2019 | ÖAMTC Mobility Centre, Vienna

EUROPEAN CONCRETE AWARD 2018 | ÖAMTC Mobility Centre, Vienna

EUROPEAN STEEL BRIDGE AWARD 2016 | Botlek Bridge, Netherlands

BAUHERRENPREIS 2016 (BUILDING OWNER AWARD) | Retirement home Rudolfsheim, Vienna

KOOP AWARD 2015 | Main railway station, Vienna

STAATSPREIS CONSULTING 2015 (AUSTRIAN AWARD FOR INTERNATIONAL CONSULTING)
Botlek Bridge, Netherlands

NOMINIERUNG WIENER INGENIEURPREIS 2014 (NOMINATION FOR VIENNA'S ENGINEERING AWARD) | Chenab Cable Crane

NOMINATION FOR BUILDING OWNER AWARD 2014 | Nursing home Baumgarten, Vienna

STAATSPREIS FÜR ARCHITEKTUR UND NACHHALTIGKEIT 2012 (AUSTRIAN AWARD FOR ARCHITECTURE AND SUSTAINABILITY) | NÖ Haus Krems, Lower Austria

BUILDING OWNER AWARD 2011 | Hospital Klagenfurt NEW

NOMINIERUNG ÖSTERREICHISCHER BAU-PREIS 2011 (NOMINATION AUSTRIAN CONSTRUCTION AWARD) | SEISMID –Seismic System Identification

MOBILITÄTSPREIS 2011 (MOBILITY AWARD) | Highly soundproof track systems

NOMINATION FOR AUSTRIAN CONSULTING AWARD 2008 | A contribution to the realization of sustainable energy supply – biogas containers in system building construction

NOMINATION FOR AUSTRIAN CONSULTING AWARD 2006 | DyGeS–Dynamic Weight calculation system

NOMINATION FOR AUSTRIAN CONSULTING AWARD 2004 | Floating track slab and slab track system North-South-Long-Distance Railway Tunnel Berlin, Germany

NOMINATION FOR AUSTRIAN CONSULTING AWARD 2001 | CaSCo–Consistent Semi Active System Control

AUSTRIAN AWARD FOR INTERNATIONAL CONSULTING 1999 | KaoPing Hsi, Taiwan

NOMINATION FOR AUSTRIAN CONSULTING AWARD 1998 | Mass-Spring-System

AUSTRIAN AWARD FOR INTERNATIONAL CONSULTING 1990 | Olympic Grand Bridge, South Korea

MEMBERSHIPS

FCP with its affiliated companies is member in numerous national and international organisations, associations and unions and proactively promotes the further development of the sector.

Bahnverband e.V. (Railway association)

CEN – European Committee for Standardization

FIB – Fédération Internationale du Béton

FSV – Österreichische Forschungsgemeinschaft für Straße und Verkehr (Austrian Research Community for Roads and Traffic)

GESTRATA – Gesellschaft zur Pflege der Straßenbautechnik mit Asphalt (Association for the maintenance of road construction technology with asphalt)

IABSE – International Association for Bridge and Structural Engineering

IALCEE – International Association for Life Cycle Civil Engineering

IG Lebenszyklus Hochbau (Interest Group Life Cycle Building Construction)

LTG – Lichttechnische Gesellschaft Österreichs (Austrian Light Engineering Association)

ÖBV – Österreichische Bautechnik Vereinigung (Austrian Structural Engineering Association)

OGE – Österreichische Gesellschaft für Erdbebeningenieurwesen und Baudynamik (Austrian Association for Earthquake Engineering and Structural Dynamics)

ÖGEBAU – Österreichische Gesellschaft für Baurecht (Austrian Society of Construction Law)

ÖIAV – Österreichischer Ingenieur- und Architektenverein (Austrian Association of Engineers and Architects)

ÖIB – Österreichisches Institut für Bautechnik (Austrian Institute of Construction Engineering)

ÖVG – Österreichische Verkehrswissenschaftliche Gesellschaft (Austrian Society for Traffic and Transportation Sciences)

RTCA – Rail Technology Cluster Austria

TU Wien (Vienna University of Technology)

UIC – International Union of Railways

VDI e.V. – Verein Deutscher Ingenieure (Association of German Engineers)

VZI – Verband der Ziviltechnikerbetriebe (Association of the Civil Engineering Companies)

COMPANY HISTORY

The company was founded by Baurat Dipl.-Ing- Kurt Wenzel in Linz in 1960 and was taken over by Peter Fritsch and Gerd Chiari in Vienna in 1972. Since 1995 FCP has been a ZT GmbH and is currently led by six managing directors:

- Dipl.-Ing. Dr. techn. Günther ACHS
- Dipl.-Ing. Wolf-Dietrich DENK
- Dipl.-Ing. Joachim LANSCHÜTZER
- Ing. Dipl.-Ing. Christian NÜSSEL
- Dipl.-Ing. Dr. techn. Dieter PICHLER
- Dipl.-Ing. Robert SCHEDLER

and supported by the following authorized representative partners:

- Dipl.-Ing. Michael FRITSCH
- Dipl.-Ing. Markus MÜLLER
- Dipl.-Ing. Barbara WINTER
- Dipl.-Ing. Hanno TÖLL
- Ing. Rudolf FELSNER
- Arch. Dipl.Ing. Victoria DORNER
- Ing. Robert JANISCH
- Dr. Alexander MARTHA

Bridge construction in the course of the Brenner and the Tauern motorway crossing the Alps is one of the first of many milestones in the starting years of the company foundation. The successful diversification led to a continuous growth of the office. Whereas FCP had approx. 20 employees in the mid-1980s, about 400 persons are working for FCP including its affiliated companies today. FCP is active **in more than 70 countries** from three sites (Vienna in Austria, Berlin/Essen in Germany).

Since then, **more than 9,000 projects** have been realized in Austria and internationally. The main markets apart from Austria and Germany are the Czech Republic and Slovakia. Furthermore, there are projects in Great Britain, Scandinavia, Benelux, Romania, Moldova and Qatar.

VCE Vienna Consulting Engineers ZT GmbH, founded in 1986, is a spin-off company of FCP and now is an independent ZT GmbH and has subsidiaries in Qatar, Romania, Moldova, Slovakia and Greece.

In 2016 a company-wide strategy process was started. Since then, annual strategy events have taken place with the employees and the course for FCP's future was set by means of common development of strategy projects.

In 2020 FCP celebrated its 60th anniversary and has integrated the “red thread” into corporate communication as a sign of further development and combination of innovative ideas.

THE Vision OF FCP

The employees of FCP are convinced that the complex design and consulting assignments in the construction industry can be best be dealt with by a network of ideas, joy in action and creativity. Openness, self-responsibility and people who are led by their aspirations are the fertile soil for this creativity.

Committed to the term “service” the project objectives of the clients shall be satisfactorily and cost-efficiently achieved by highly qualified services. On the basis of different needs of all project participants and appreciative cooperation a common culture of trust is growing. Solid technical know-how, mutual group support and a culture in which errors are dealt with constructively offer decisive backing. The consequences of our actions are carefully weighed.

FCP regards this as contribution to a sustainable and better quality of life. The implementation of climate and future-proof projects for reaching and meeting the climate targets is a great wish of FCP’s employees.

FCP considers itself as innovation leader in the field of digitization in construction engineering due to its long-time experience in planning with BIM and is continuously further developing projects and tools.

COMPANY ORGANISATION

Apart from the managing partners, the authorized representative partners manage the company.

The company departments, so-called Competence Centers (CC), comprise numerous corporate focuses. Here experts of various disciplines realize innovative building projects. Additionally, the quality, risk and innovation management are essential parts of the company.

TRAINING & RECRUITING

In the last few years the job market has developed from an employer to an employee market. FCP is taking many measures in order to attract the best young talents. Apart from practical trainings for talents FCP contributes to knowledge transfer and image building with lectures at universities and universities of applied sciences.

FCP promotes and demands training for civil engineers in Austria. In this connection FCP takes its role as broadcaster of knowledge seriously and awards outstanding diploma theses and dissertations in civil engineering with the FCP Innovation Prize.

The FCP Innovation Prize

The FCP Innovation Prize for sustainable development in civil engineering was awarded for the first time in 2004 and has been assigned every two years since then. This award is an important contribution for future aspiring civil engineers who strengthen the business location Austria of tomorrow. FCP awards the prize for outstanding achievements in engineering sciences and innovative technical contributions, which are performed via completed diploma theses or dissertations of students at Austrian universities.

The award addresses all fields of engineering, in particular the sectors construction engineering, sustainability in civil engineering and real estate industry, structural and civil engineering, assessment and maintenance of structures, water management, traffic route engineering as well as material technology. The prize is awarded within the scope of the faculty day of the Faculty of Civil and Environmental Engineering at the Vienna University of Technology. All in all, a sum of 10,000 € is assigned to the prize winners. [Further information](#)

Practical Training for Talented Students of the Vienna University of Technology

Students of Structural Engineering at the Vienna University of Technology have the chance to complete a practical training with FCP every year. The objective is to recruit the best students for the company in the long run.

COMPANY FOCUSES

As civil engineering and consulting engineering office FCP offers comprehensive services in construction engineering. Design-build and statical and structural design in **BUILDINGS** form the biggest part of the company activities, followed by **INFRASTRUCTURE; BRIDGE CONSTRUCTION; TUNNEL AND CIVIL ENGINEERING** as well as **INDUSTRIAL CONSTRUCTION**.

The company focuses are continuously extended by fields of activities and service offers:

- ACOUSTICS & NOISE PROTECTION
- DETAILED STRUCTURAL DESIGN
- TENDER PROCEDURE & COST DETERMINATION
- DYNAMICS & VIBRATION PROTECTION
- BUILDING COORDINATION
- BUILDING PHYSICS
- SAFETY BOOK ACC. TO VIENNA'S BUILDING CODE
- TECHNICAL AND FINANCIAL CONTROL
- BIM (BUILDING INFORMATION MODELING)
- FIRE PROTECTION
- CSM-RISK MANAGEMENT
- DIGITAL ENGINEERING
- RAILWAY ENGINEERING
- FACADE RENOVATION
- RESEARCH AND DEVELOPMENT
- GREENING OF BUILDINGS (KLINA)
- BUILDING CERTIFICATION (KLINA)
- DESIGN-BUILD
- GEOTECHNICS
- CLIMATE-FRIENDLY BUILDING SERVICES (KLINA)
- LEAN CONSTRUCTION
- LIFE CYCLE MANAGEMENT
- FEASIBILITY STUDIES
- MEASUREMENT AND INSTRUMENTATION
- MOBILITY CONCEPTS (KLINA)
- LIFE-CYCLE ANALYSIS (KLINA)
- SITE SUPERVISION
- PROJECT MANAGEMENT
- CHECK ENGINEER ACC. TO VIENNA'S BUILDING CODE
- STATICAL AND STRUCTURAL DESIGN AND CHECK ENGINEERING
- REHABILITATION CONCEPTS (KLINA)
- STRUCTURAL MODELLING
- BUILDING SERVICES
- TRAFFIC DESIGN AND ENGINEERING
- ENVIRONMENTAL COMPATIBILITY – CO2-BALANCE
- VISUALIZATIONS
- WATER MANAGEMENT (KLINA)
- STRUCTURAL ASSESSMENTS

The long-term experience and the experts of the specialist disciplines make FCP a reliable partner in various building projects. The sectors Digital Engineering (BIM) and climate protection and sustainability (KliNa) have been established as important priorities in the last few years.

Consequently, FCP can offer holistic support. FCP's customers include private clients, the public authorities, real estate developers and infrastructure operators.

BUILDING DESIGN

Apart from new buildings and the extension of existing buildings, renovation projects, restoration of listed buildings and attic conversions are in the project portfolio of FCP.

The design and consulting tasks in structural engineering not only involve cost efficiency and convenience (e.g.: accessibility, optimized microclimate by greening of buildings, etc.), but also the specifications of the owner, the legislation as well as the public.

Due to the increasingly complex design requirements conventional planning tools (CAD) reach their limits. Therefore, FCP relies on new technologies in the whole planning and construction process and sees Building Information Modeling (BIM) as the tool which will significantly increase quality and thus provides enormous added value to all parties concerned.

Moreover, the demands regarding resource conservation, energy efficiency, optimization of the life-cycle costs of buildings and value guarantee of real estate are continuously gaining importance.

The services in structural engineering comprise acoustics & noise protection, detailed structural design, building coordination, building physics, façade refurbishment, design-build, feasibility studies, structural design etc.

REFERENCE PROJECT I:

The University of Applied Sciences in ST. PÖLTEN was extended by an innovative building complex by 33,000 m² of total area and certified by ÖGNI (Austrian Sustainable Building Council) as DGNB (German Sustainable Building Council) in gold. The services were performed by FCP and NMPB Architects in consortium. In 2022 the project was awarded the prize “Vorbildliches Bauen in Niederösterreich” (Exemplary construction in Lower Austria). [Further information](#)

REFERENCE PROJECT II:

The University of Music and Performing Arts in Vienna gets a new institute building designed with BIM called FUTURE ART LAB. The new building with a useful area of 3,800 m² is erected as free-standing structure at the campus of the university in the 3rd district of Vienna. [Further information](#)

REFERENCE PROJECT III:

The ST. JOSEF HOSPITAL in 1130 Vienna was reconstructed without interrupting operation and extended from 10,400 m² to approx. 25,700 m² by three new buildings. FCP was assigned with site supervision. [Further information](#)

INFRASTRUCTURE DESIGN

A successful and well-functioning infrastructure is the foundation and the prerequisite for the social network and the supply. An ecologically and economically optimized infrastructure is the backbone of successful personal and economic relations. For successful implementation of national and international infrastructure projects FCP relies on interdisciplinary design by experienced and acknowledged experts who jointly handle high-quality projects in a team with optimum time and cost efficiency.

The focuses of the activities are the planning and checking of traffic routes like:

- RAILWAYS
- UNDERGROUND RAILWAYS
- SUBURBAN RAILWAYS
- TRAMS
- ROADS (INNER-CITY, MOTORWAYS, HIGHWAYS AND EXPRESSWAYS) AND PATHS
- PEDESTRIAN AND SHARED ZONES

Furthermore, the employees of FCP deal with energy supply, specifically with:

- HIGH-VOLTAGE NETWORKS FOR POWER SUPPLY
- WIND POWER PLANTS
- PHOTOVOLTAICS
- HYDROGEN STATIONS

Project management, support of detailed structural design and site supervision are essential contents of the portfolio in infrastructure design. The scope of services comprises project studies (condition assessments, life-cycle costs, feasibility studies), project development concepts and general design, route planning, submission design and detailed structural design.

REFERENCE PROJECT I:

FCP is currently planning the construction of the station building and the station tubes of the underground railway section U2/U4 PILGRAMGASSE. Here complex relationships regarding load transfers and transmissions as well as the construction cycles shall be determined and considered statically and structurally. [Further information](#)

REFERENCE PROJECT II:

In the scope of the redesign of the forecourt of the SCHÖNBRUNN CASTLE in Vienna a new bus and car parking area was created. In addition, the access from the underground railway exit to the castle was newly established and an arrival building was designed. Thanks to attractive green design with 300 newly planted trees and state-of-the-art lighting a parking area was created, which corresponds to the standard of the world cultural heritage. [Further information](#)

REFERENCE PROJECT III:

Managed by FCP the design of the track systems was carried out for the large-scale project KORALMTUNNEL. The more than 30 km long, double-tube Koralmtunnel is the core part of the new high-performance Southern railway connection between Graz and Klagenfurt. [Further information](#)

BRIDGE DESIGN

Starting with the beginnings of the company in the 1960s, when motorway bridges in the Alps and internationally valued large bridges like Kao Ping Hsi in Taiwan and the Olympic Grand Bridge in South Korea or the Botlekbrug in the Netherlands were designed, FCP has achieved international reputation in bridge construction.

The scope of services comprises the design and inspection of the following bridge structures:

- ROAD BRIDGES
- RAILWAY BRIDGES
- CYCLE AND PEDESTRIAN BRIDGES
- SUPERSTRUCTURES
- TROUGH STRUCTURES

Projects are usually handled in three project stages: PRELIMINARY DESIGN, BASIC DESIGN and DETAILED DESIGN. Apart from holistic design between route and structure, environmental aspects are specially considered. FCP also offers life-cycle cost analyses for economic efficiency calculations.

Apart from new buildings, a further business branch is the inspection, recalculation and maintenance of existing bridge structures. In this process FCP both applies conventional inspection methods and examinations by using innovative monitoring systems.

REFERENCE PROJECT I:

The railway bridge DRAUQUERUNG was built in the course of the Koralmbahn project for ÖBB Infrastruktur AG. The double-track bridge structure is constructed for a design speed of 250 km/h. The structure consists of four single structures and spans between 125 and 200 metres at a total length of 600 metres. [Further information](#)

REFERENCE PROJECT II:

In the course of the safety extension of the A7 motorway two BYPASS BRIDGES were erected for the Voest Bridge in Linz in preparation for the restoration of the cable-stayed bridge over the Danube. FCP was assigned with check engineering of the detailed, workshop and erection design by ASFINAG. [Further information](#)

REFERENCE PROJECT III:

The BOTLEK BRIDGE in Rotterdam/Netherlands is a lifting bridge with two movable spans, which is designed as combined road and railway bridge. The ambitious bridge construction project took place under difficult conditions due to constricted room. [Further information](#)

INDUSTRIAL DESIGN

The focuses for industrial design are the following sectors:

- CHEMICAL STORAGE (HALL AND CONTAINER STORAGE) – IN PARTICULAR ALSO STORAGE FOR FLAMMABLE LIQUIDS
- DRY AND WET MIXING PLANTS
- BOTTLING PLANTS – ALSO FOR FLAMMABLE LIQUIDS
- LOGISTICS SITES FOR WASTE MANAGEMENT
- INTERMEDIATE STORAGE
- SORTING PLANTS
- PLANTS WITH BALING PRESSES OR SHREDDERS
- DESIGN FOR WASTE DISPOSAL SITES
- PRODUCTION PLANTS FOR CHEMICAL PRODUCTS LIKE BIODIESEL
- PAPER FACTORIES
- WORKSHOPS FOR DIFFERENT UTILIZATION

REFERENCE PROJECT I:

A new building, i.e.: a production hall for food including office and staff premises, was designed for NENI AM TISCH GMBH. The supporting structure primarily consists of precast and semi-finished reinforced concrete elements and secondarily of glued-laminated beams. [Further information](#)

REFERENCE PROJECT II:

In Seestadt Aspern a modern administration and production building was erected for the COMPANY HÖRBIGER. FCP was responsible for internal design-build project management as well as for site supervision, cost evaluation basis and health & safety engineering. [Further information](#)

REFERENCE PROJECT III:

An INDUSTRIAL COMPLEX consisting of a pulp mill with six departments, an appurtenant power station and a harbour was built in Uruguay. The facility meets the technological and ecological standard for such factories. [Further information](#)

CIVIL ENGINEERING

In the last few years FCP has successfully implemented various civil engineering infrastructure projects in the following fields:

- TUNNEL STRUCTURES IN OPEN BUILDING METHOD
- TUNNEL STRUCTURES IN CLOSED BUILDING METHOD
- TROUGH STRUCTURES
- STATION STRUCTURES
- SLOPE STABILIZATION
- TEMPORARY CONSTRUCTION PIT SYSTEMS
- DEEP FOUNDATIONS (PILES, SLURRY WALLS, WELLS)

Moreover, surveys (e.g.: according to §31a and appraisal according to §34b of the railway law) are part of the portfolio. Feasibility studies, cost studies, preparation of tendering bases, bases for building cycles and construction schedules complete the scope of work.

The range of services for civil engineering comprises the design, supervision and check in all project phases (submission, tender, detailed design) as well as the preparation of surveys on various issues.

Due to active participation of our employees in the establishment of guidelines and national annexes to EU standards in the standardization committees the high-quality standard of the focus civil engineering is ensured and extended by FCP.

REFERENCE PROJECT I:

The planning of METRO DOHA IN QATAR comprised tunnel routes, free routes, as well as bridges. For ensuring the safety objectives for the neighbours regarding vibrations, structure-borne and airborne noise, inspections for emission reduction measures (e.g.: floating slab track systems) were performed. [Further information](#)

REFERENCE PROJECT II:

The extension of the line U2 and the modernization of the U4 station meet in the underground railway interchange U2/U4 PILGRAMGASSE. Subject of the project for FCP are the design services for the construction of the station structure and the station tubes of the section U2 Pilgramgasse. [Further information](#)

REFERENCE PROJECT III:

The project deals with a new, sustainable hydraulic infrastructure to improve the drain of surface and rainwater of the city of Doha. The MUSAIMEER PUMP STATION is located at the end of the Musaimeer Tunnel south of the Hamad International Airport. [Further information](#)

Digital Engineering (BIM)

As early as in 2011 FCP has started to establish Building Information Modeling (in short BIM) as digital design tool in the company and has played a leading role in the long overdue digitization of civil engineering. It became obvious very soon that BIM is only one of the many new tools and technologies which will transform civil engineering in the next decades.

BIM links complex data amounts of all involved disciplines with each other. A consistent database available anytime, which quickly provides all relevant information, is created. FCP can take over both the control function and the planning function due to its long-term experience in planning with BIM and supports the design process from the idea up to the completed project with BIM and other digitization tools.

FCP is interested in constant optimization of projects. Consequently, shortly after the first successful steps with BIM the term "beyond BIM" has been established in the company as the limits of BIM were often reached. As in many successfully handled pilot and research projects FCP dealt with digital topics beyond BIM, FCP extended its focus and now offers varied digital services in the whole field of Digital Engineering. The digital services comprise the whole field of Digital Engineering as for example the development of digital workflows, software development, automation or digital building operation.

FCP further pushes on digital transformation and develops practical digitization solutions for civil engineering with its new Competence Center 'Digital Services'. Due to the development of project-specific solutions challenges in projects can be flexibly and quickly met.

FCP.VCE Digital Engineering Day

When BIM was still in the beginnings in Austria in 2013, FCP already organized the first BIM Day. The BIM Day has increasingly established itself in the course of the years and thus it has been taking place every year since then as important event for the construction industry in Kuppelsaal of the Vienna University of Technology. The event addresses the planners, clients and consultants. The focus is on how BIM and the digital technologies can be applied in practice. Since 2021 BIM Day has been renamed Digital Engineering Day with the background to think beyond BIM. In 2022 the Digital Engineering Day had the motto: make digital work (for you). [Further information](#)

REFERENCE PROJECTS WITH BIM:

REFERENCE PROJECT I:

The ÖAMTC MOBILITY CENTRE in 1030 Vienna was handled by Pichler & Traupmann Architects as design management for all site progress related trades in cooperation with FCP and opened in 2016. Headquarters with an office area, support functions, member service and a heliport were established. FCP has created an integrative planning process for the complex and innovative building thanks to BIM. [Further information](#)

REFERENCE PROJECT II:

In the former POST BUILDING in 1010 Vienna the attic was extended, a hotel and flats were established in the existing structure as well as a subterranean garage was built in the inner courtyard in Domikanerbastei on public ground. FCP handled the project with BIM due to its complexity. [Further information](#)

REFERENCE PROJECT III:

The listed building in 1060 Vienna constructed in 1870 accommodates HOTEL MOTTO today. It was reconstructed without interrupting operation with shop areas on the ground floor and the first basement floor and received an attic structure for hotel use and restaurants. For this project FCP created a Revit model, a scatterplot covered by a laser scan and a building simulation by means of VR glasses. [Further information](#)

THE DIGITAL PROJECT UNIVERSE (DPU)

In October 2023 FCP launched the Digital Project Universe (DPU). The DPU defines the cooperation of clients, designers, construction companies and property owners in building projects in a completely new way by seamlessly integrating communication, the interaction with BIM models, quality control, data exchange and project workflows with Microsoft Teams.

The DPU as winning project of an internal FCP innovation competition was developed by Thomas Rabl. It supports the cooperation in BIM projects and minimizes access hurdles with BIM. For this purpose, Thomas Rabl has linked so-called interfaces (APIs) for BIM applications with other software programs. These interfaces can be individually adjusted to the respective project. For special applications FCP programs individual apps tailor-made for particular needs of the customer. Apart from the development of the software solution, FCP supports the client up to the successful conclusion of the project.

The DPU uses Microsoft Teams for complete workflows and a transparent, traceable communication. Thanks to the intuitive MS Teams interface used by many project partners already, user-friendliness and user experience are increasing. The DPU therefore enables end-to-end documentation and tracking of tasks, facilitates data exchange and optimizes workflows. Every task is recorded, scheduled, assigned to a person and only concluded when they are completed. Logs are saved as PDF so that no information is lost. Quality control also takes place in the familiar MS Teams environment. BIM functionality is also directly integrated in the user interface and thus the digital building model is available on every device and for all project participants – also on the building site.

The DPU results in considerable cost benefits for building owners and the use of BIM is possible without any previous knowledge. In addition, building owners get full safety due to the transparency and traceability of the data and an insight into project progress any time.

In this process digitization and sustainability go hand in hand as the DPU also supports the reaching of the ESG targets.

[Further information](#)

KliNa – climate protection & sustainability

In order to reach climate neutrality in Austria up to 2040, the net emissions have to be reduced by an average of 4.8% per year. This is the estimation of the energy agency Austria in a current study from the year 2022. The construction industry can make an essential contribution to a turnaround in energy policy. FCP is aware of this responsibility and sets specific steps: with the climate protection and sustainability initiative (short “KliNa”) FCP contributes to sensitization and provides a framework for sustainable services in the fields of construction, renovation and mobility. Sustainable services of FCP include renovation concepts, building certifications, climate-friendly building services, water management, climate-friendly mobility as well as life-cycle analysis (keyword EU taxonomy).

Climate protection concepts for towns and communities

There are many measures for reaching climate neutrality by saving CO₂ in buildings or infrastructures. It needs know-how, experience and above all courage to find out which of them are reasonable and efficient. The experts of the different competence sectors of FCP support and advise building owners, community representatives and designers in climate protection projects and consequently implement them together. The services are offered as a whole or in modules, according to the respective needs. [Further information](#)

REFERENCE PROJECT I:

During the clean-up of the PROBLEM SITE N6, a former gravel pit, approx. 1 million tons of aluminium were recovered, recycled into the economic cycle as secondary raw material and hundreds of thousands of tons of CO₂ were saved. [Further information](#)

REFERENCE PROJECT II:

Building physical expert planning services as well as check and consultation for the pre-certification for klima:aktiv in bronze were performed for the MUNICIPAL RESIDENTIAL BUILDING in Stumpergasse for Wiener Wohnen. High quality of life thanks to measures for sustainability and climate resilience is combined with affordable living. [Further information](#)

REFERENCE PROJECT III:

A 700 m long section of Neubaugasse in Vienna was redesigned to a shared zone. Green areas as well as seating, pavement cafés etc. were established. Green elements considerably contribute to the microclimate. [Further information](#)

KliNa Day

In September 2022 FCP organized the KliNa Day, which addresses planners, property developers and students, for the first time. Representatives from research, economy and politics give expert lectures on climate protection and sustainability in construction. The KliNa Day serves for discussion and networking of the construction industry.

[Further information](#)

COMPANY PROFILE

FCP Fritsch, Chiari & Partner ZT GmbH with its headquarters in Vienna is an internationally active consulting engineering office with approximately 400 employees. With innovative power, know-how, passion and handshake quality FCP supports its clients in Austria and abroad for the realization of sustainable and innovative projects.

The planning and service activities in structural and civil engineering as well as bridge and infrastructure engineering comprise climate protection concepts for municipalities, BIM-supported large-scale projects as well as building certifications, greening of structures and climate-friendly mobility concepts. FCP offers perfectly tailored solutions for individual project demands.

Press Contact

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