



SOFISTIK AG

SOFiSTiK is Europe's leading software developer for analysis, design and detailing of building and infrastructure projects worldwide.

Founded in 1987

- Spin-off of Technical University of Munich
- FEA development since 1973 Autodesk ADN Member since 1985

Main location: Munich & Nuremberg Germany; Sales branches/offices: Austria, South Africa, UK, Israel, US | Subsidiary: BiMOTiON

Focus: Professional FE and drafting software solutions for structural and civil engineering

75+ employees + external staff

Autodesk Industry partner

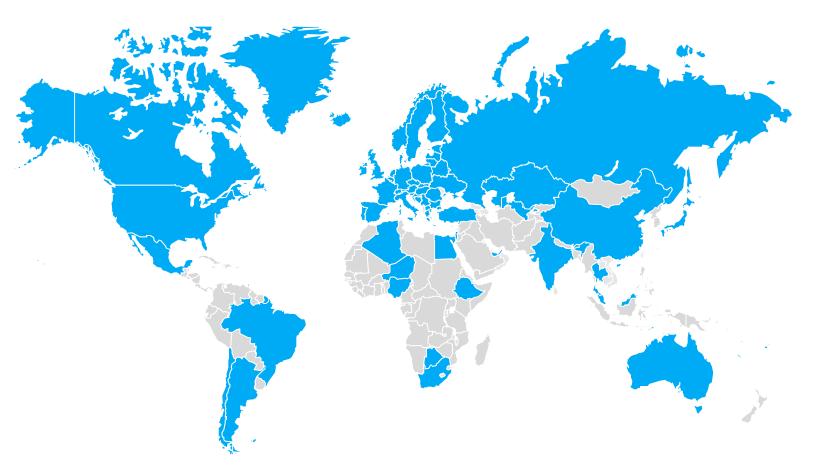








International Presence



6.000+ customers in 80+ countries

10 competence centers

30 international partners/distributors

Europe





Italy



- New approach with our long term colleague Emanuele and his company venmises
- Additionally we want to collaborate with other players in Italy such as Man and Machine Italy





2020

SOFiSTiK - Productlines

















SOFISTIK 2020

This product line contains all structural analysis, dynamics and finite element modules of SOFiSTiK.

Graphical pre-processing based on Autodesk AutoCAD and Revit as well as McNeel Rhinoceros are parts of this family. A core component is the SOFiSTiK Structural Desktop (SSD), the central control and input program for all structural computations.

BIM Apps | 2020

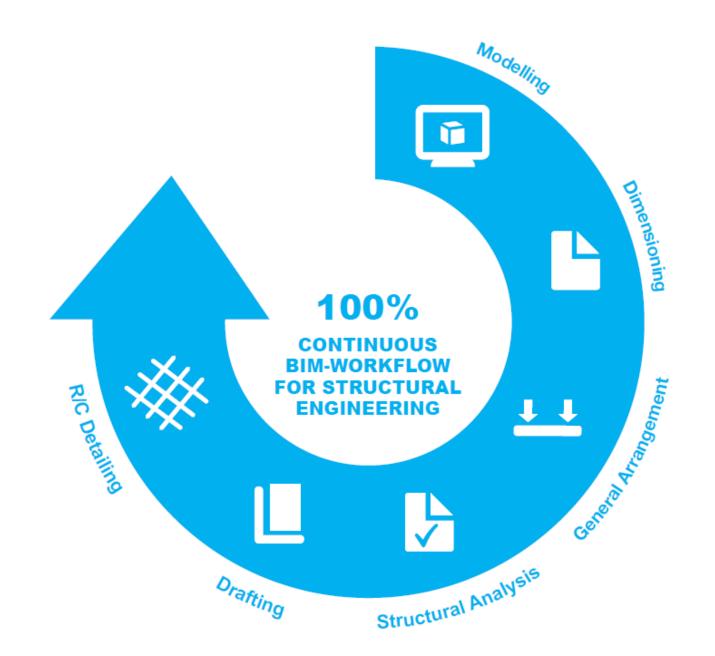
From the Revit BIM model with 3D reinforcement from design results towards structural drafting and R/C detailing in 2D, the BIM-Apps support your BIM workflow. Furthermore, there is an innovative app for Bridge Design and Detailing.

SOFICAD 2020

Reliable 2D drafting and R/C detailing on an AutoCAD platform or using integrated Autodesk Technology as SOFiCAD-OEM (German only).

High-quality support and consulting

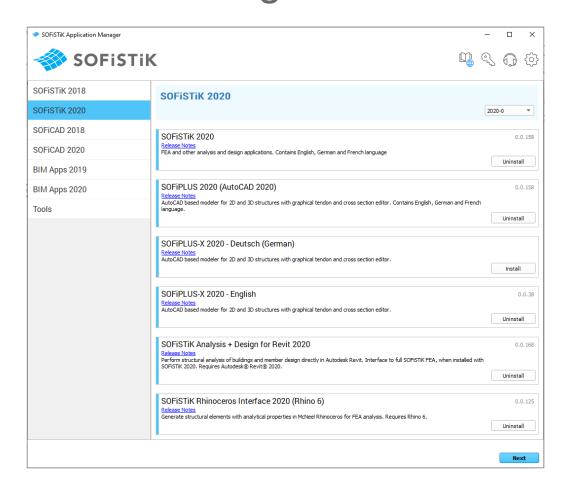


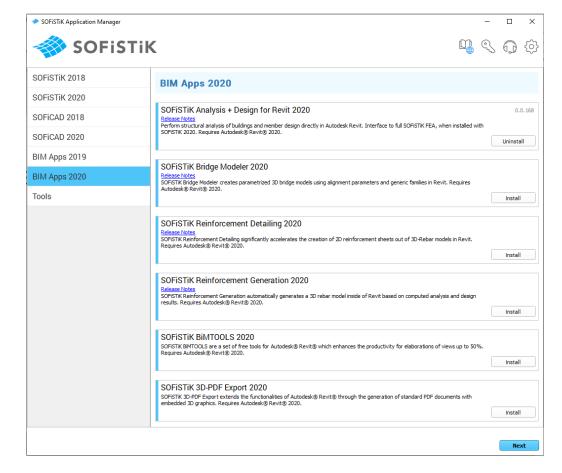




SOFiSTiK – general information (SAM)

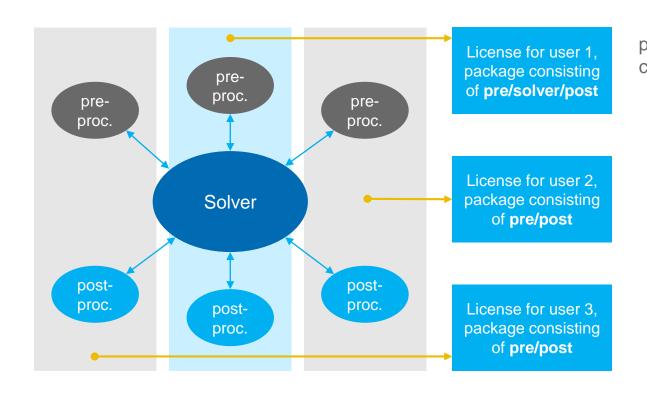
2020

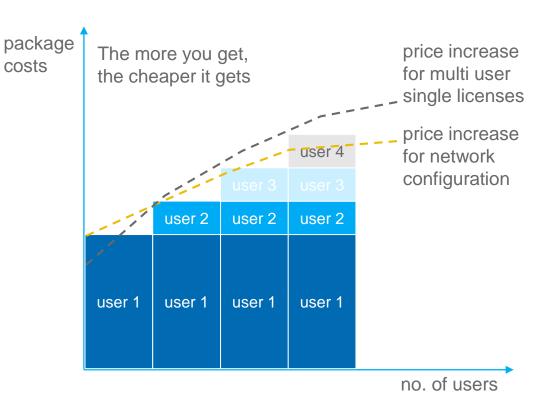






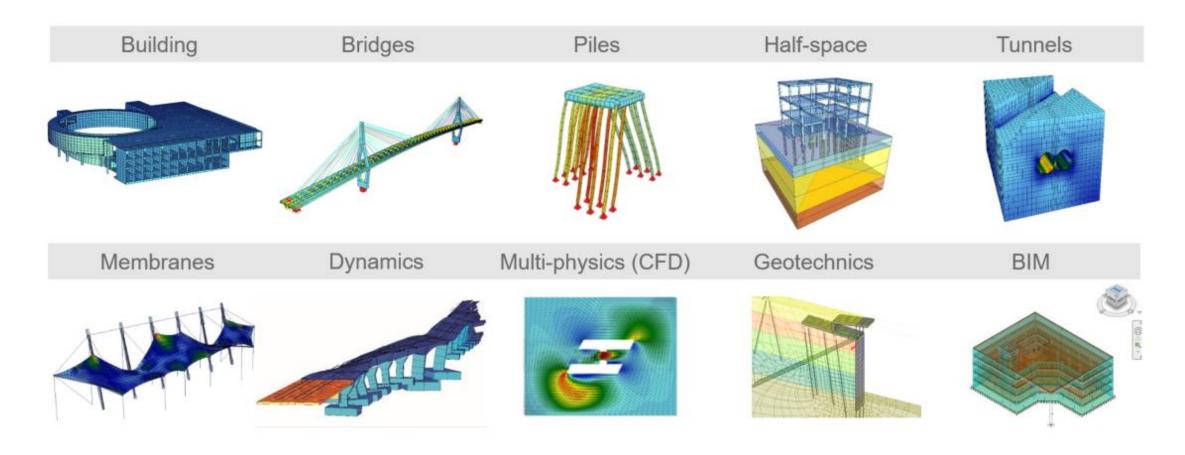
SOFiSTiK Advantages Price Model







SOFiSTiK | 2020 – FEA Product Line ONE TOOL for ALL



PRE-PROCESSING

SOFIPLUS(-X) for Autodesk® AutoCAD®:

Graphical system-, load- and cross section input

(Incl. AutoCAD OEM)

FEA Extension for Autodesk® Revit®:

3D FE models and 2D subsystems for buildings

Rhinoceros® Interface:

3D FE models for complex geometries

Teddy / Text Editor:

Parametric text input language CADINP

DESIGN / POST-PROCESSING

MAXIMA: Enveloping

SIR: Integration of slab- and shell results

BEMESS: Design of slabs, shear-walls and shell elements

AQB(S): Design for beams (P/T and composite)

BDK: Eurocode stability checks for beam members

COLUMN(-FD): Eurocode design of R/C columns (fire design)

FOOTING: Eurocode design of R/C footings

ANIMATOR: System- and deformation visualization

WinGRAF / WING: FE results and plots

RESULT VIEWER / RESULTS: Tabular and cross section results

REPORT BROWSER: Documentation



PROCESSING / SOLVER



AQUA: Materials and cross sections

SOFILOAD(-V): Loads and loadfunctions (traffic loads)

TENDON: Pre- and Post-tensioning for beams and shells CSM: Construction stages and time dependent effects

ASE: Finite element solver

TALPA: 2D finite elemente în geotechnics

HASE: Soil-structure interaction

HYDRA: Seepage and thermal simulation

ELLA: Influence line evaluation

DYNA: Earthquake and dynamics for finite elements

INTERFACES / BIM

VBA / Excel®: CDB export to Excel

C++, C#, FORTRAN: Programming interfaces to CDB

IFC: Structural Analysis View (2x3)

AutoCAD / SOFICAD: .dwg/.dxf and 2D FE rebar results

Revit/Reinforcement Generation: 3D reinforcement from FEA



2020

SOFiSTiK | 2020 – BIM Apps













BIM – Products













SOFiSTiK Analysis & Design

Revit interface to SOFiSTiK
FEA
3D and 2D Subsystem
analysis + component design

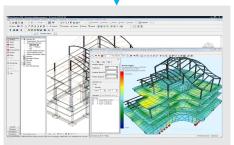
Structural analysis of buildings and member design directly in Autodesk® Revit® SOFISTIK
Reinforcement
Generation (RCG)

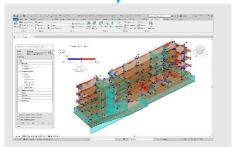
Automatic generation of a 3D rebar model in Autodesk® Revit® based on analysis and design results SOFISTIK
Reinforcement
Detailing (RCD)

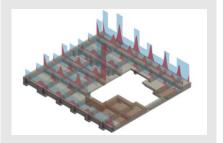
Creation of 2D reinforcement sheets out of 3D-Rebar models in Autodesk® Revit® SOFiSTiK Bridge Modeler

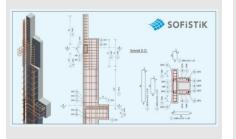
Creation of parametrized 3D bridge models using alignment parameters and generic families in Autodesk® Revit® 2019

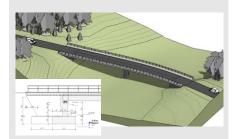
SOFISTIK 3D-PDF export















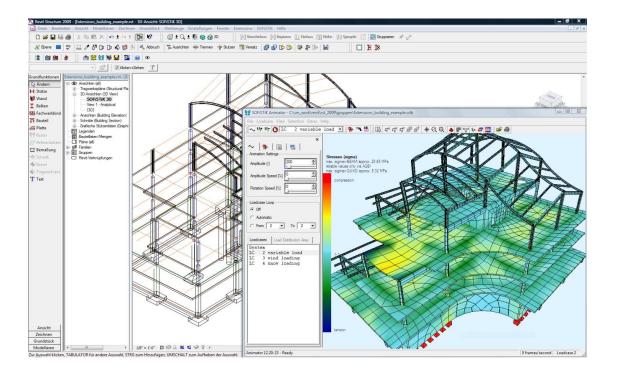
SOFiSTiK Analysis and Design

Mapping tables for Materials, Cross Secions & Actions

Exports and meshes the analytical model and all Revit objects with analytical information

Creation of Subsystems

Component design for Columns, Beams and Slabs within Revit





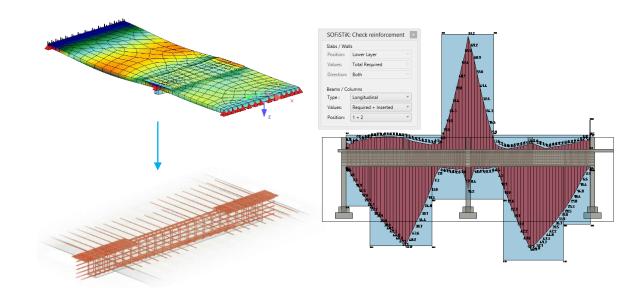
SOFiSTiK Reinforcement Generation (RCG)

Creates 3D RC models from design results

Generation of RC model can be controlled

Contrasts existing with required reinforcement

Slabs, walls, beams and columns supported





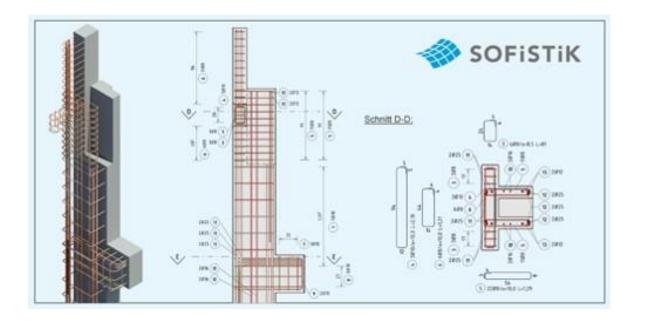
SOFiSTiK Reinforcement Detailing (RCD)

Enables the creation of 2D reinforcement sheets by direct extraction from the 3D model

Bar Marks, Tagging, Rebar Shape Detail functionalities

Steel- and Bending Lists can pe generated and placed on sheets

Support of all RC components in Revit models





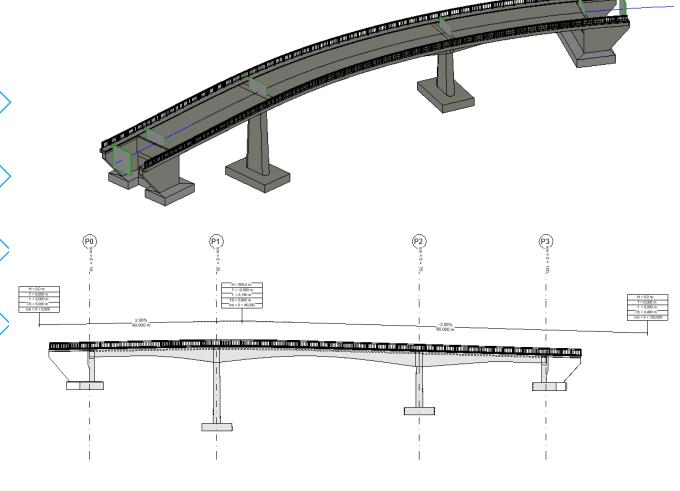
SOFiSTiK Bridge Modeler (SBM)

Parametrical axis-based modeling of bridges in Revit

Adaptive component families for different cross sections

Automatic generation of section views with dimensions and top view with alignment information

Automatic generation of longitudinal section representation with vertical alignment information





2020

Thank you for your attention

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