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## ALLPLAN presents update of its fully integrated 4D BIM solution for bridges

*Allplan Bridge 2020-1: Calculating live loads and influence lines as well as code-based design and the exchange of analytical models*

Munich, April 23, 2020 – ALLPLAN, the global provider of open solutions for Building Information Modeling (BIM), presents today the update of Allplan Bridge 2020 for parametric modeling and structural analysis of bridges. Allplan Bridge is the first fully integrated 4D BIM solution that uses a common parametric model for both structural analysis, design and detailing. It forms the basis for BIM in bridge construction, which sustainably improves the planning process both in terms of time and quality.

*"We are noticing a growing demand for BIM in bridge construction to meet the challenges of the industry, such as planning attractive and permanently safe bridges on time and within budget, worldwide. With Allplan Bridge, we have hit the nerve of the industry. Thanks to clear, coordinated processes, the quality of the bridge design increases and deadlines can be better met", says Vanja Samec, Managing Director of ALLPLAN Infrastructure.*

## **Highlights of Allplan Bridge 2020-1**

The new version Allplan Bridge 2020-1 contains additional important functions, i.e. calculating live loads and influence lines as well as code-based design and the exchange of analytical models.

### **Traffic Load Definition**

Traffic loads can be applied in a very comfortable way. On the one side, the traffic load is automatically applied in accordance with the selected standard. On the other side, the generic approach of live load definition implemented in Allplan Bridge allows the user to consider any type of moving load.

### **Calculation and Evaluation of Influence Lines**

With Allplan Bridge, the most unfavorable effects due to traffic loads can be determined quickly and easily. In the first step, the influence lines are calculated for each element and for all degrees of freedom. In the second step, the influence lines are evaluated with the corresponding load train (vehicle) and the results are stored as an envelope.

### **Code-based Design (Technical Preview)**

After the global effects have been calculated and the corresponding envelopes generated, the user can perform the code-dependent design to determine the required reinforcement area. Once the reinforcement is definite (calculated or determined manually), the ULS checks can be carried out.

### **Exchange the Analytical Model**

The analytical model generated in Allplan Bridge can be uploaded to the cloud-based BIM platform Allplan Bimplus. This allows to transfer the analytical model to other structural analysis solutions connected to Allplan Bimplus.

### **Enhanced view options**

The complex 3D parametric model created and calculated in Allplan Bridge can be displayed in two different views. The first view visualizes the geometrical model with all the details defined while modeling. In the second view, the automatically derived analytical model reduced to the statically relevant components is displayed. Geometric bridge models usually contain a large amount of information. For the user there are several possibilities to keep the overview, nevertheless. New in this release are the options to use the isolation box or to “hide objects from the view” to display only the part of the structure in which the user is interested.

### **Availability**

Allplan Bridge 2020-1 is now available for download.

More information: [www.allplan.com/en/bridge](http://www.allplan.com/en/bridge) / [www.allplan-infra.com](http://www.allplan-infra.com)

### **About ALLPLAN**

ALLPLAN is a global provider of Building Information Modeling (BIM) solutions for the AEC industry. For more than 50 years ALLPLAN has pioneered the digitalization of the construction industry. Always focused on

our clients we provide innovative tools for designing and building projects – inspiring users to realize their visions. Around the world over 400 dedicated employees continue to write the ALLPLAN success story.

Headquartered in Munich, Germany, ALLPLAN is part of the Nemetschek Group which is a pioneer for digital transformation in the AEC industry. As the sole corporate group worldwide, Nemetschek covers the entire life cycle of building and infrastructure projects with its software solutions and guides its customers into the future of digitalization.

**For more details:**

[www.allplan.com](http://www.allplan.com)

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**About the Nemetschek Group**

The Nemetschek Group is a pioneer for digital transformation in the AEC industry. As the sole corporate group worldwide, Nemetschek covers the entire life cycle of building and infrastructure projects with its software solutions and guides its customers into the future of digitalization. With intelligent and innovative software solutions, the Nemetschek Group increases quality in the building process and improves the digital workflow of all those involved in the building process. This revolves around the use of open standards (Open BIM). The innovative solutions of the 16 brands in the four customer-oriented divisions are used by around six million users worldwide. Founded by Prof. Georg Nemetschek in 1963, the Nemetschek Group today employs more than 2,900 experts.

Publicly listed since 1999 and quoted on the MDAX and TecDAX, the company achieved a revenue amounting to EUR 556.9 million and an EBITDA of EUR 165.7 million in 2019.

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