

# Metropolis

next generation competition



## **Our Big Idea**

We developed the world's first holistic architectural design software: pantektura.

## **The description of our Big Idea**

Our software is a holistic design software which means that it designs complete buildings with full functionality. It is based on Vitruv's basic principles of architecture: utilitas (functionality), firmitas (stability) and venustas (beauty). These principles are represented in four modules. The fourth module represents analysis as a principle of design.

## **This makes it a Big Idea**

There are quite a few approaches to use the computer in architecture in another way than common CAD-applications do. But these are always restricted to a small part of architectural issues. We want to change this with pantektura which has a holistic claim. This means that it is not trying to solve certain problems, but deals with the whole building. The user only has to enter some statistics on the site he wants to cover with his building. After just one more click pantektura will design the whole building including all floor plans, statics and claddings. It will automatically produce a complete three-dimensional model of the complete building. This software is always running in a prototype, panoffice (pan is ancient Greek for holistic), that deals with office and administrative buildings. We are four students of architecture who developed this first part of our work at the university of Stuttgart/Germany. As a next part panhome, a solution for housing will be developed.

With this, it is, to our knowledge, the world's first architectural design software that can design whole buildings in such a holistic way.

## **Our materials and images**

The images we will show on the following pages reveal the technical feasibility of our project. As described above we already developed a prototype of our software that has full functionality. It shows not only the single modules and the way the building is designed but also the results of our software. As you will perceive the results are well-known as they are common in our built environment. The only difference is that our results are fully computer-generated and thus could revolutionize the world of architectural design.

The images will show that our results are comparable to what architects design. Thus we will be able to save much money by using the computer as an architectural designer. Hence architects will be able to save costs themselves and they can thus spend more time on the architectural composition.

## **This is our business plan for producing our Big Idea!**

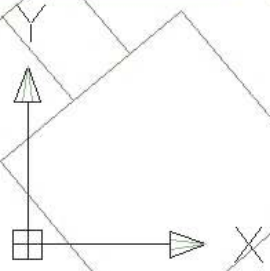
Now the 'Big Idea' is clear. Our plans to produce our Idea as an economic product are: first we are working at the prototype of our second product the home generating program "panhome". So we will be able to provide a more specific supply to our customers. But before we will be able to come on the market we plan to take part on some foundation supporting courses, which will give us a fundamental knowledge of accounting and management. These courses are special for new start up enterprises to get a respectable beginning in one's own business. Our dream is to offer an extensive product range based on the central software product with the quartet of fundamental modules, and supplement enlarged by specific modules like an energetic-calculator or planner for electric wires or supply lines. With this modular main structure of the program and the changeability and actuality of it we will be able to ensure the individuality and flexibility the customer needs to feel reasonable advised and taken care of. We will additionally guarantee this by offering an internet solution to our customers. At last it is important to reach the potential customers with our no longer 'Big Idea'. The pantektura product series represents an advantage to the investment planner of enterprises as well as to the traditional architect as a support of further planning.

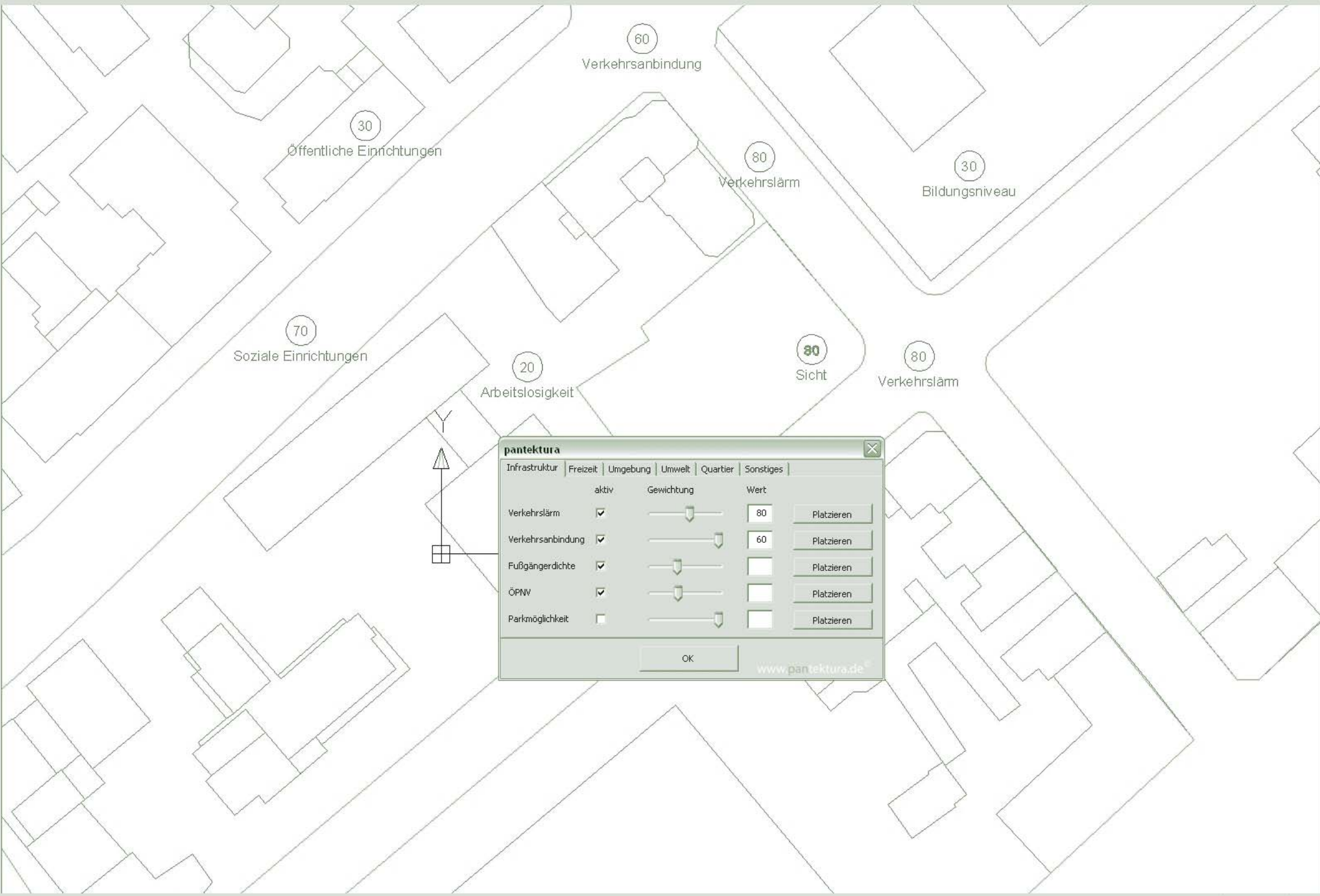
**pantektura**

Infrastruktur | Freizeit | Umgebung | Umwelt | Quartier | Sonstiges

	aktiv	Gewichtung	Wert	
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Verkehrsanbindung	<input checked="" type="checkbox"/>	<input type="range"/>	<input type="text"/>	Platzieren
Fußgängerdichte	<input checked="" type="checkbox"/>	<input type="range"/>	<input type="text"/>	Platzieren
ÖPNV	<input checked="" type="checkbox"/>	<input type="range"/>	<input type="text"/>	Platzieren
Parkmöglichkeit	<input checked="" type="checkbox"/>	<input type="range"/>	<input type="text"/>	Platzieren

OK [www.pantektura.de](http://www.pantektura.de)





**pantektura**

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	aktiv	Gewichtung	Wert	
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Verkehrsanbindung	<input checked="" type="checkbox"/>	<input type="range" value="60"/>	60	Platzieren
Fußgängerdichte	<input checked="" type="checkbox"/>	<input type="range" value="1"/>		Platzieren
ÖPNV	<input checked="" type="checkbox"/>	<input type="range" value="1"/>		Platzieren
Parkmöglichkeit	<input type="checkbox"/>	<input type="range" value="1"/>		Platzieren

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