

Vienna Traffic Authority [Austria]



The big overview for Vienna

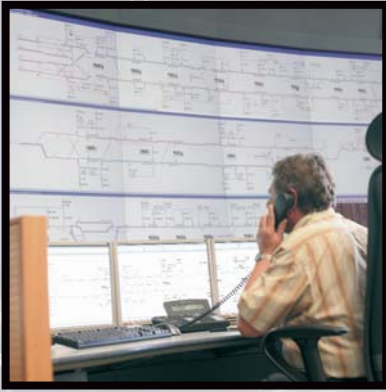
With approximately 8,000 employees and nearly 750 million passengers in 2005 the Vienna Traffic Authority ranks among the largest suburban public transportation services in Europe. It was a particular challenge to create a suitable control center which incorporates current needs as well as being ready for the future requirements for the operational safety of the fleet and the corresponding infrastructure.

After several years of planning with the highest requirements in terms of operating ergonomics, Vienna Traffic Authority can now boast the largest video wall in Austria in their new traffic control center in Erdberg. Additionally they have installed an exemplary concept to guarantee the operational reliability of the entire subway and tramway.

The modern operating traffic control center was established in the Viennese suburb of Erdberg, where approximately 30 employees monitor the enterprise around the clock. A display wall, based on the latest rear-projection technology, which is in the region of 50 m long provides a concise and clear representation of the lines and electricity networks.

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The operators in the front row receive their information on the two lower rows of display cubes in the form of diagrams showing the lines and situation-specific details within the information. The ascending rear workplaces use additional summary presentations on the upper module rows.



Overview at a glance

The entire display wall consists of 144 (48 x 3) modules with a diagonal of 50 inches per module. At present 88 modules thereof are equipped with rear-projection units. Further modules will be upgraded as required.

The display wall is divided into several areas for monitoring the different underground lines, the electricity network of underground lines as well as of the tramway.

Each one of the 15 logical display walls is controlled by a Barco TRANSFORM A graphic controller.

The visualization is realized by control system pictures on the rear projection modules of the OVERVIEW mDG50-DL type with XGA resolution. The size and configuration of the logical video walls are between 2x1 modules for situation-specific information up to 4x3 modules for connected energy representations.

For the visualization of the individual underground lines there is a separate surface with 6x1 modules and a total resolution of 6144 x 768 pixels available in each case enabling the operators to see all relevant details of the linear network in one view. Thanks to the high resolution of the representation surface it is possible to illustrate a large amount of detail in a coherent way. This is not possible with a traditional monitor stack.

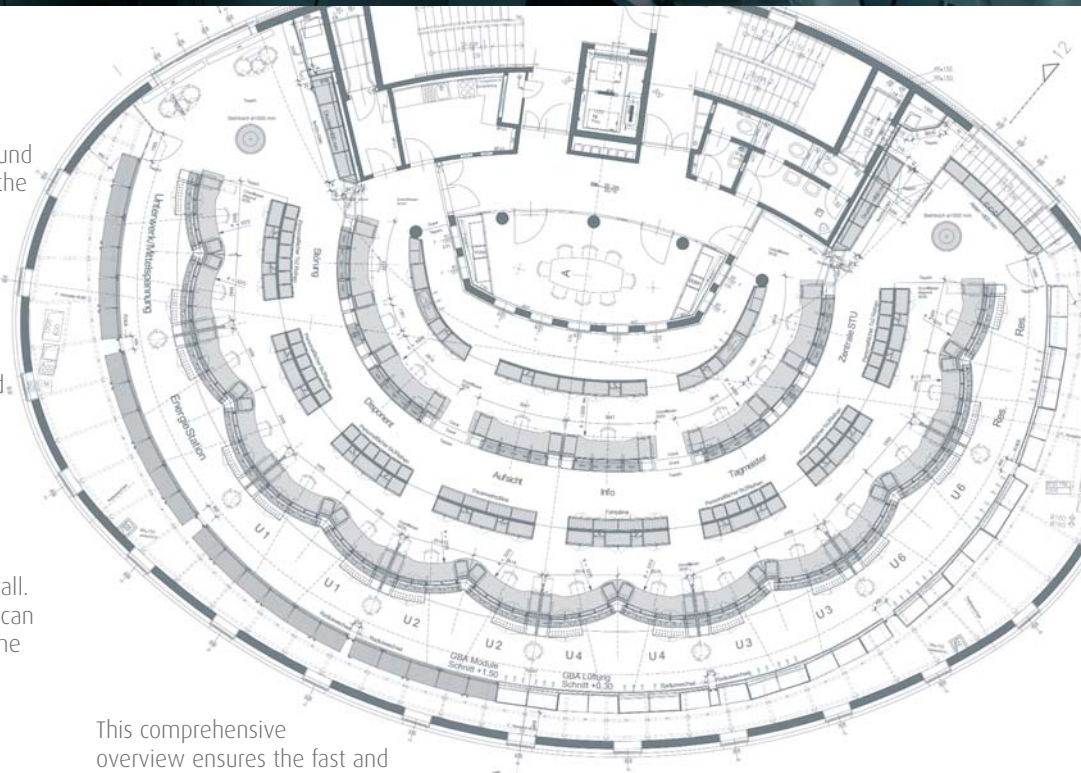




The operator has a simultaneous Overview of all trains and underground routes and can immediately locate the exact position based on the track section allocation and recognize whether a train is on schedule or delayed.

When an incident occurs, the position of the emergency-exits and the intended escape directions can be viewed and local assistance is better supported.

Supplementary video signals are permanently displayed on separate video monitors above the display wall. Additional important video pictures can be shown in scalable windows on the display wall, and can be locked in order to support the common evaluation of certain situations.



This comprehensive overview ensures the fast and simple evaluation of the situation and most effective monitoring of the entire infrastructure.

Marcus Parenzan, teamleader New Control Center, Wiener Linien:
Barco's state-of-the art technology and its ability
to meet the Traffic Authority of Vienna's economic
criteria made Barco the obvious choice. “

The entire décor of the control center, from the furniture to the control system pictures up to the color of the lining of the video wall, was also coordinated and specified together with Ergonomists according to the customer guidelines.



Electricity network under control

The visualization of the lines and electricity network is realized by control system pictures in world picture technology, which have been specified and implemented by the department "Netzleittechnik" (Network Management) of ABB AG Vienna. In order to also correspond to the high requirements, the control system pictures are adjusted in close cooperation with the customer. Particular attention has been paid to the ergonomic needs, especially concerning picture size, character font, symbol size and resolution. Also color design has been adapted to customer conceptions.

The professional planning of the work arrangement guarantees that each operator finds the relevant information in their direct field of vision, both on the monitors and display wall.

The assigned rear-projection systems of the OverView D series feature innovative details, such as double lamp systems and optical dimming for brightness adjustments. These features were required to ensure the operational efficiency and the highest display quality.

Marcus Parenzan, teamleader "New Control Center", Wiener Linien, says, "Barco's state-of-the art technology and its ability to meet the Traffic Authority of Vienna's economic criteria made Barco the obvious choice. This successful project has set an example for other large traffic management centers in Europe."

The control center in Erdberg has been in operation since May 2006 and creates the conditions, in order to continuously improve operational safety of the Viennese lines.

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