

# Optimizing School Bus Transportation with NRGsurf: A Case Study.

Alrun Bauer, Head of the Transportation Department at BIS.



This white paper presents a case study highlighting the transformative impact of NRGsurf on the Bavarian International School (BIS) school bus system. Serving approximately **610 students** across two locations, our team currently manages a **fleet of 66 vans and buses** operated by seven transportation companies.

**Prior to adopting NRGsurf**, our route planning relied on location-based mapping tools such as street maps and Google Maps. The process of creating routes took **about a week, with an additional 3-5 days** for fine-tuning. A major challenge was determining the exact number of required buses. This led to occasional **route overlaps and inefficiencies**, resulting in an oversized fleet of about **70 vehicles**.

**NRGsurf has proven to be a game-changer** for our team, as it provides us with a clearer picture of planned routes and streamlines our workflow, resulting in significant time savings. After the software's automatic route planning initially displays routes, we can easily customize and optimize them to suit our specific needs. The route planning time was drastically **reduced to 1-2 days**, including optimization.

**THE SOFTWARE ALLOWED FOR ACCURATE DETERMINATION OF THE REQUIRED NUMBER OF BUSES,**

## ENABLING US TO OPTIMIZE OUR FLEET AND REDUCE UNNECESSARY VEHICLES.

**Communication** with both transportation companies and parents **became more streamlined and effective**, especially in terms of route information and scheduling. Time management also became easier since the software provides reliable trip time estimations.

## DURING THE SCHOOL YEAR, WE CAN EASILY PROVIDE INFORMATION TO INTERESTED PARENTS ABOUT AVAILABLE BUS SEATS, SCHEDULES, AND LOCATIONS IN A MATTER OF MINUTES.

Previously, this process involved manual searching on maps, but NRGsurf simplifies it by automatically displaying relevant details and suggesting optimal routes for new students based on entered addresses.

The software's capabilities have not only reduced planning time but also allowed for more efficient allocation of buses and improved communication with transportation companies and parents. We highly recommend it to other educational institutions and organizations seeking to optimize their transportation management. **NRGsurf school bus routing and scheduling software has become an indispensable tool in all stages of our school bus operations**, empowering us to deliver a seamless and efficient transportation experience for students and parents alike.