Plateia
by CGS plus
Professional Software for Road Design and Road Reconstruction

Version 2016
Plateia is a professional software for new road and road reconstruction design. It is a comprehensive, full featured, yet easy to use roadway design solution.

With its original design workflow, Plateia provides the user with commands and tools to support the entire design process, from preliminary to detailed design, from the initial input of survey data to complex 3D road models with analysis tools to documentation and publishing features. Using its flexible, dynamic data model, Plateia supports BIM (Building Information Model) workflows and processes. Plateia can easily exchange data with Ferrovia, Aquaterra and Electra.

Plateia includes functionality for DTM, grading, alignments, profiles, cross-sections, intersections, roundabouts, 3D modeling, traffic signs and markings. The 3D model environment enables the user to apply various analyses to the design such as swept path, visibility, road water runoff, and mass haul calculations. It can easily handle large projects with alignment lengths of several hundred kilometers.

Plateia assists the user in the preparation of professional drawings including the technical documentation according to several roadway design standards.

Plateia has been used in several countries for projects ranging from urban roads and intersections to countless reconstructions and large scale highway projects.

**BIM-ready, 3D road design solution**

<table>
<thead>
<tr>
<th>Used for</th>
<th>Road design and road reconstruction design</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Supported CAD platforms</strong></td>
<td>AutoCAD, AutoCAD Civil 3D, AutoCAD Map 3D from versions 2016 to 2011, 32 and 64-bit; BricsCAD from versions V15 to V13, 32 and 64-bit;</td>
</tr>
<tr>
<td><strong>Supported languages</strong></td>
<td>English, German, Russian, Bulgarian, Polish, Czech, Hungarian, Croatian, Macedonian, Serbian, Slovenian</td>
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<tr>
<td><strong>Supported standards</strong></td>
<td>German, Austrian, Russian, Polish, Czech, Bulgarian, Romanian, Turkish, Croatian, Macedonian, Serbian, Slovenian</td>
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<tr>
<td><strong>Product Internet page</strong></td>
<td><a href="http://www.plateia-software.com">www.plateia-software.com</a> <a href="http://www.cgsplus.com">www.cgsplus.com</a></td>
</tr>
</tbody>
</table>

**Fields of use**

- Design of roads of all categories: freeways (motorways) with complex interchanges to local roads, forest roads.
- Design of intersections and roundabouts.
- Design of interchanges.
- Design of bridges, viaducts, overpasses and underpasses.
- Tunnels design.
- Urban roads and areas.
- Urban planning.
- Bicycle paths.
- Special roads: racing tracks.
- Design of detours and bypasses.
- Earthworks: quarries, open mine pits, dump areas, earth barriers.
- Rehabilitation of landslides.
- Ski-grounds design.

**Plateia packages**

Plateia is available in three different content packages to accommodate specific design requirements and needs. These options include everything from basic 2D road design projects (like urban roads, access roads, forest roads, and road reconstructions) to comprehensive 3D road modeling designs of complex multiple roads and intersections to detailed high-
Plateia Advantages

Intuitive workflow
Plateia workflow consistently follows standard civil engineering roadway design processes used in Europe, which intuitively leads designers from the start to a successful finish of the project.

Easy to learn and use
Well-structured ribbons and menus and simple dialogues enable fast learning for the first-time user, while toolbox and command line options are provided for the convenience of experienced users.

Handling of large data sets
Plateia is capable of handling large projects with very long alignments and thousands of cross-sections within seconds. You can easily work on alignment changes without the need to cut it into smaller pieces.

Support for local design standards
Plateia is translated into several languages and supports country specific road design standards, drawing layouts, traffic signs and other symbols, vehicles, etc. Customers are entitled to use any country-specific version of the software in case of designing projects in foreign countries.

Teamwork support and collaboration
Road projects can be very efficiently divided among multiple team members, who can then work on them simultaneously. Projects can be split into layout and horizontal alignment drawings, as well as longitudinal-sections drawings and cross-sections drawings.

Alignment design tools
Plateia contains powerful alignment design and editing methods and tools, which allows you to design any combination of tangent / spiral or compound spiral / arc elements. And with intelligent, best-fit algorithms, you can also automatically design alignments based on surveyed points.

Unique cross section design concept
The “design in one, draw in several cross-sections” concept allows for the efficient processing and editing of cross-sections. Different levels of automation allow for the fast design of segments with similar cross-sections, as well as handling the cross-sections where the conditions change frequently. Each cross-section can be treated individually with interactive drafting and editing commands.

Native CAD application
Plateia is fully integrated in the CAD environment, so all the data is stored in one or more DWG files. The drawings can be modified with CAD commands at any design stage, thus giving you complete flexibility in the design process.

Modular structure
Plateia has a modular structure. Modules can be installed separately, or in any combination. In conjunction with network licensing option (floating modules and floating packages), a Plateia corporate installation can be specifically tailored for each customer.

CAD platform choice
Plateia can be installed on top of AutoCAD, AutoCAD Civil 3D, AutoCAD Map 3D, and/or BricsCAD, but the functionality always remains the same. In the future, additional CAD platforms will be supported; and this CAD platform choice gives Plateia customers a possibility to optimize their cost of ownership without sacrificing functionalities.
About CGS plus

Founded in 1990, CGS plus is a leading developer of software solutions and tools in the fields of transportation, infrastructure, and AEC. Besides providing a family of high-end civil engineering applications, CGS plus also offers Civil 3D and Revit software tools for civil engineers and architects, as well as customized CAD and BIM solutions for other companies and software vendors. With offices in Europe and the United States, there are more than 8,000 customers in 33 countries currently using CGS plus software solutions worldwide.