

# Swept Path Analysis

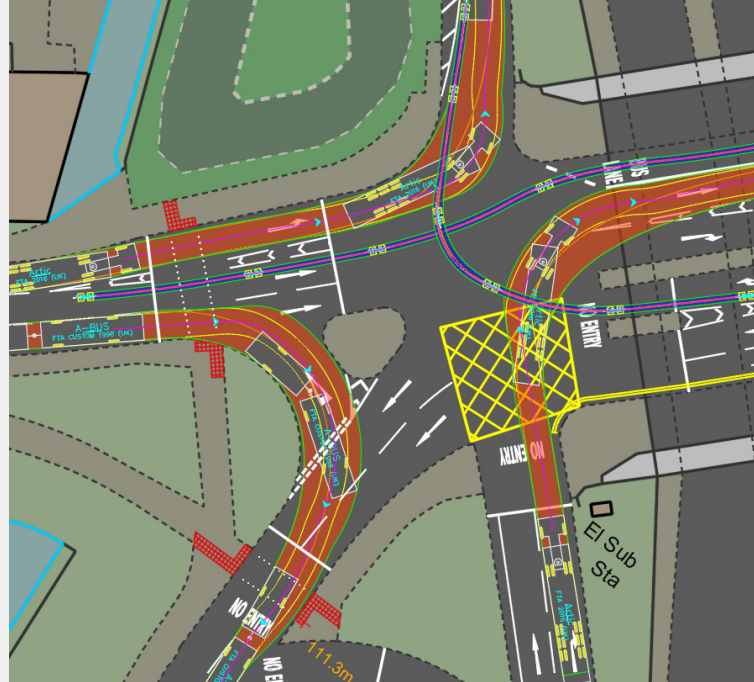
Intuitive and accurate swept path analysis software



## Model, Visualise and Analyse Vehicle Paths

The most comprehensive swept path analysis and turning simulation software to check your site, intersection, loading docks and road designs.

Ensure all types of vehicles can drive safely and efficiently. From bicycles and cars to buses, trucks and heavy haul industrial transport vehicles—you can quickly test multiple maneuvers and be assured your results are accurate and extensive. Our patented technology allows you to automate processes, saving you time and increasing productivity. Enhanced review, presentation and reporting features help you get projects approved and expand the value of your work.



### Discover the best design and model complex scenarios

Manually 'drive' a standard or manufacturer vehicle of your choice, while controlling the speed, super elevation, lateral friction and turn radius using AutoTURN's SmartPath tools. The software will compute the space requirements and display the results so you can focus on the important safety and operational components of your design.

Quickly create simulations and check multiple maneuvers for all vehicles accessing the site or see if your intersection and turning lanes can accommodate your design vehicles.



### Solve multiple possible drive paths

Using Intellipath reduces the time required to re-analyse the vehicle impact on the road system when making geometric changes to your road infrastructure design.

Great for scenarios such as traffic calming and site circulation analysis. Eliminate the challenges of calculating curves and modeling vehicles with different steering capabilities manually.



### Simulate bicycle movements for a more inclusive urban design

Adopt the principles of urban design and help make your neighborhood safer by giving all road users the space they need to move. Just like motor vehicles, bicycles have their own turning radius, and as the speed increases so will the swept path of these bicycles. Simulate these movements and the turning requirements of a variety of cycle types including typical bicycles, bike with trailers, scooters and more to validate your design.

Ensure your on-street and off-street design projects provide enough space to accommodate all the different bikes safely and comfortably since good traffic flow for cyclists plays an important role when designing bicycle infrastructure.



### Visualise the impact in 3D

Automatically solve possible drive paths based on the available space and the desired speed with the Intellipath feature. It calculates the maximum allowable speeds for specific turns based on the given the site constraints. This helps you save time and make better decisions with increased productivity and reduced human errors.



## Test your design with a vast array of vehicles

In addition to using the vast catalogue of vehicles, you can now test designs with a variety of new specialty manufacturer vehicles such as forklifts, passenger cars, SUVs, limousines, construction cranes, fire appliance vehicles and specialised trailers. Standard vehicle libraries have been updated to meet the latest design guidelines in multiple countries. With over 1,300 manufacturer-specific vehicles, quickly search by library name and apply filters to refine results or set custom vehicle groups that match your country or local area design guidelines.



## Design safe infrastructure with sightlines

Ensure drivers have enough time to notice and react to potential conflicts on the road, with sightline checks, stopping sight distance, interval distances, and object heights analysis. With our 2D and 3D (horizontal and vertical alignments) analyses can help identify blind spots or sight failure zones that may be compromised by obstructed sightlines at intersections, terrain obstructions, and others alike.

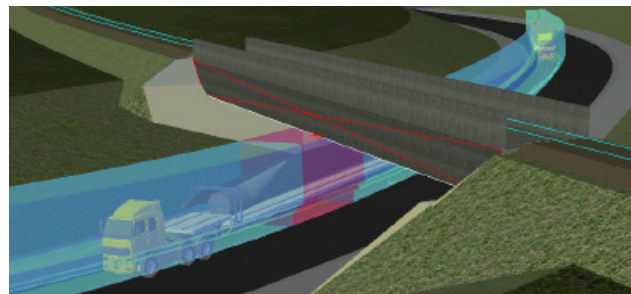


## Review your results with quality diagnostic tools

The automated tools ensure your design aligns with the guidelines and safety requirements of local transportation agencies.

Conduct informed reviews of simulations with the Inspect Simulation tool which allows you to check any manually produced simulations to ensure key parameters, such as steering angle, speed, and proximity to vehicles or objects, meet design criteria.

Produce detailed reports so that reviews can be done by peers or others, so you can get a quicker stamp of approval on your design.



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right version  
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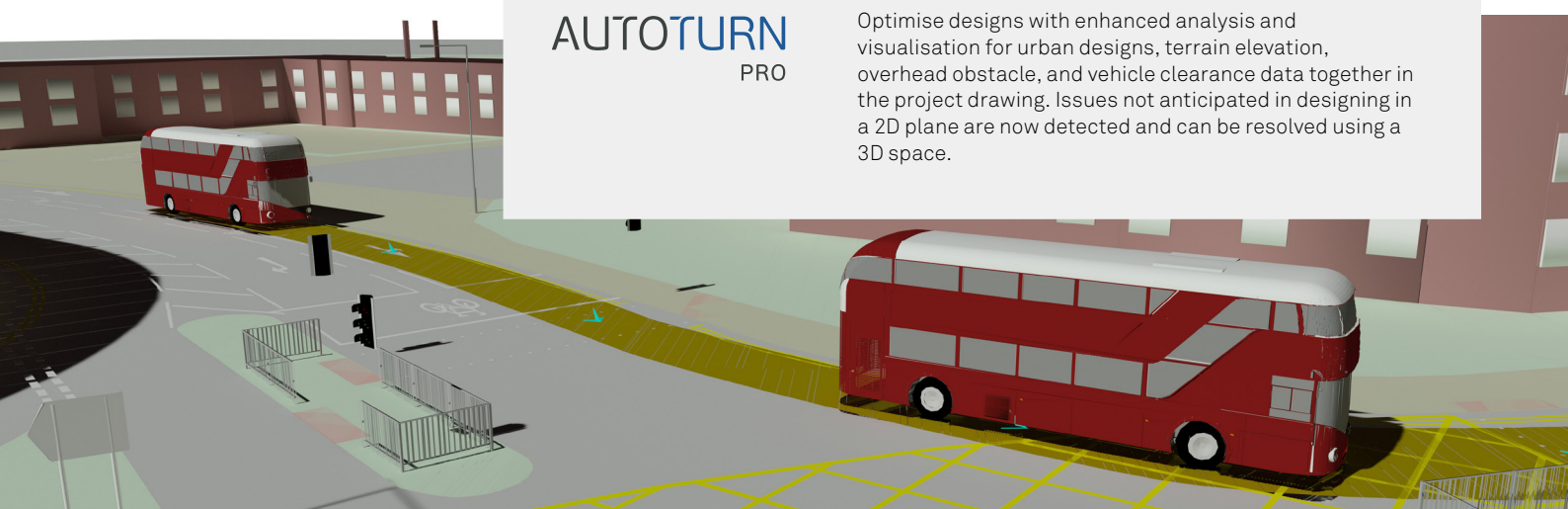
### Basic Vehicle Path Simulation

Confidently analyse road and site design projects including intersections, roundabouts, bus terminals, loading bays, car parks or any on/off-street assignments involving vehicle access checks, clearances, and swept path maneuvers.

AUTOTURN  
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### Design for all Users & in a 3D Environment

Optimise designs with enhanced analysis and visualisation for urban designs, terrain elevation, overhead obstacle, and vehicle clearance data together in the project drawing. Issues not anticipated in designing in a 2D plane are now detected and can be resolved using a 3D space.



## Vehicle Libraries

- Over 1.000 standard design vehicles according to national guidelines.
- Europe, Middle East and Africa** – Austria | Bahrain | Czech Republic | Denmark | Finland | France | Germany | Hungary | Iceland | Ireland | Israel | Italy | Netherlands | Norway | Poland | Russia | South Africa | Slovakia | Slovenia | Spain | Sweden | Switzerland | UAE | UK
- Hundreds of additional vehicles based on manufacturer specifications in categories like city vehicles, fire & rescue, agriculture, refuse collection, buses, construction and many more.
- Variety of bicycle types, like cargo bikes, mopeds, bicycles with trailers and tricycles.
- Specialised libraries for heavy transport, eco combis and EMS configurations

## Platform Requirements

CAD Platform Compatibility  
(64 bit, except Bentley V8i series):

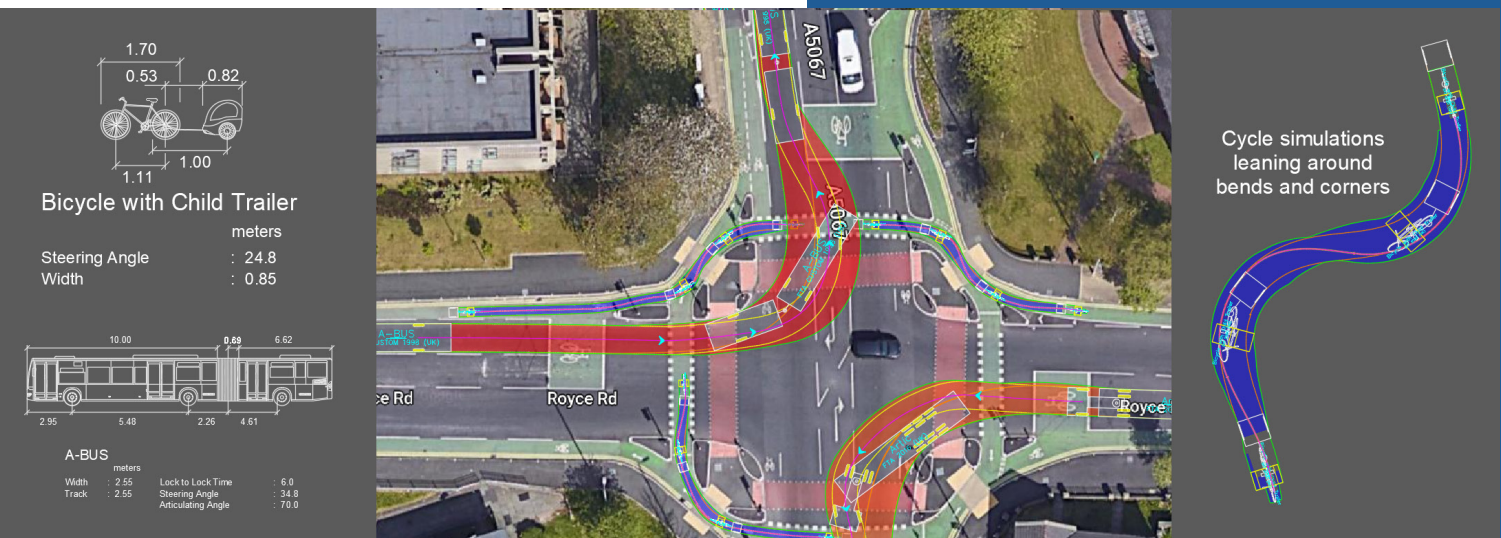
- Autodesk® AutoCAD® 2019 – 2024 (except AutoCAD LT)
- Autodesk® Civil 3D® 2019 – 2024 alignments
- Bentley® MicroStation® V8i (SS4 and up), CONNECT® (Update 12 and up)
- Bentley® MicroStation® PowerDraft V8i, CONNECT® (Update 12 and up)
- Bentley® MicroStation® 2023 support is available through a patch
- Bentley® PowerCivil V8i
- Bentley® Power GEOPAK V8i
- Bentley® Power InRoads V8i
- Bentley® AECOsim Building Designer V8i, CONNECT
- Bentley® OpenBuildings Designer CONNECT
- Bentley® OpenRoads Designer CONNECT
- Bentley® OpenCities Map CONNECT
- Bentley® OpenSite Designer CONNECT
- Bricsys® BricsCAD® Pro V21 – V24
- ZWSOFT® ZWCAD® Pro 2023

## System Requirements

Full support for 64-bit operating systems

Workstation: Windows® 7, 8, 8.1, 10, 11

Network: Windows® Server 2012, 2016, 2019, 2022



**Phone (United Kingdom)**  
+44 (0) 3451 30 30 40

**Email**  
infouk@transoftsolutions.com

**Web**  
www.transoftsolutions.com/uk

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