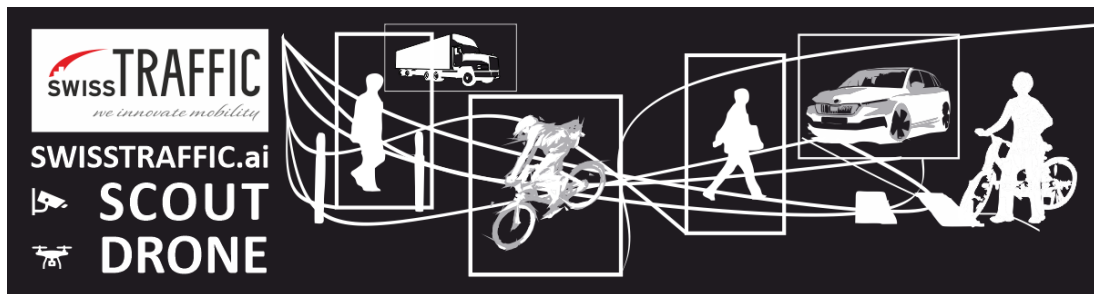# Why SWISSTRAFFIC.ai - what makes us special?

SWISSTRAFFIC.ai is a cloud-based video analytic platform for deep and fully automated traffic analysis from videos taken by drones or standard cameras including panoramic. The output of the video analysis is a small extract in the form of trajectories which contains detailed data about each object in the video, including category and colour. This extract is then analysed for various traffic tasks with numerous analytical functions it offers via professional desktop application **SWISSTRAFFIC.ai Viewer** available for free.

Why is SWISSTRAFFIC.ai unique?

- **Super-accurate data** suitable for commercial and research purposes - the most precise solution at a microscopic level
- Possibility of measuring a wide range of advanced parameters thanks to the **trajectory-based approach** - created according to traffic standards
- Impeccable control of outputs thanks to extreme detail in displaying and simple export of results - interact with each detail of the traffic data within **any millisecond** of the video

What sets us apart from competing products - what to look at when evaluating different providers of traffic analytics

- **Stabilization of the input movie** - always check whether the trajectories are consistent with the underlying video source - without stabilization, the trajectories can easily be

positioned in the middle of the neighbouring wood, if your drone is not stable enough. (DRONE only)

- **Correct Tf and Tg computation** with selectable reference planes
- **Georegistration** tool for accurate results in real-world coordinates
- **Re-identification of the targets** - if the car goes under a bridge or hides behind a tree for a moment, we know it is the same car and produce a single trajectory. More discontinuous trajectories in the output is not better!

Do not believe? Try it for free with one of our examples SCOUT and here for DRONE

The SWISSTRAFFIC.ai story is dated since 2019 when we started with the development of advanced video analysis system for SCOUT videos. The idea was simple, yet revolutionary - use the SCOUT for ultimate traffic monitoring, extract the super accurate telemetry data about each road participant from the SCOUT video and create an interactive tool for traffic engineers which allow them to play with the data in the way they need (no hard-wiring solution). After several pilot projects, SWISSTRAFFIC.ai was born.

Nowadays, SWISSTRAFFIC.ai is a well-tested and trusted platform utilized in many research and commercial projects, available online for everyone with the Internet and standard PC. Thanks to the long-term development of the key video analytic components, SWISSTRAFFIC.ai was recognized as a reinventing platform, but also academic sphere (collaborating with several universities).

The philosophy behind SWISSTRAFFIC.ai in three sentences:

- No black box solution - we do not hide the results from video analysis under statistics
- Guarantee of 100% results with credit refunds - we believe in our outputs
- Data is yours - no further payments for anything you will do with the data / respect the privacy

SWISSTRAFFIC.ai is composed of two advanced platforms — **SCOUT** and **DRONE**. The **DRONE** platform serves for traffic analysis from the bird's eye view, using the state-of-the-art technology in the microscopic view on data. **SCOUT** version serves for standard traffic research in mass-scale using fixed cameras and numerous functions from the DRONE platform. Both versions of SWISSTRAFFIC.ai have their **real-time versions**. Do not hesitate to contact us for more info.