

STREAMWISE



ProCap Compact streamwise digital approach A new world of real-time flow visualization

Real-time visualization of a flow field

ProCap Compact is an innovative digital approach that combines the simplicity and speed of a smoke probe with the quality of a 3D-measurement scan.

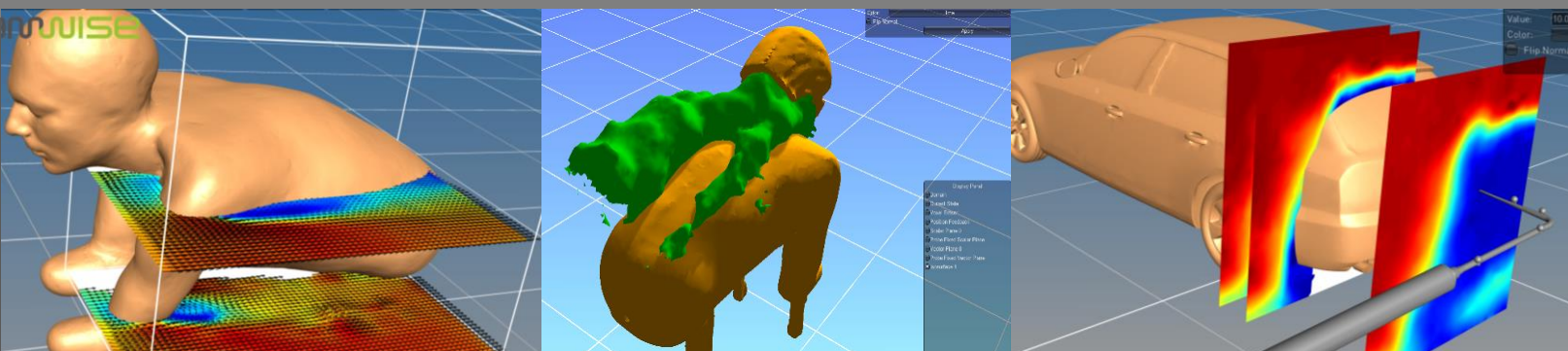
Real-time visualization of a 3D velocity vector and its interpolation to a complete flow field provides instantaneous understanding of the quality of aerodynamic measurements.

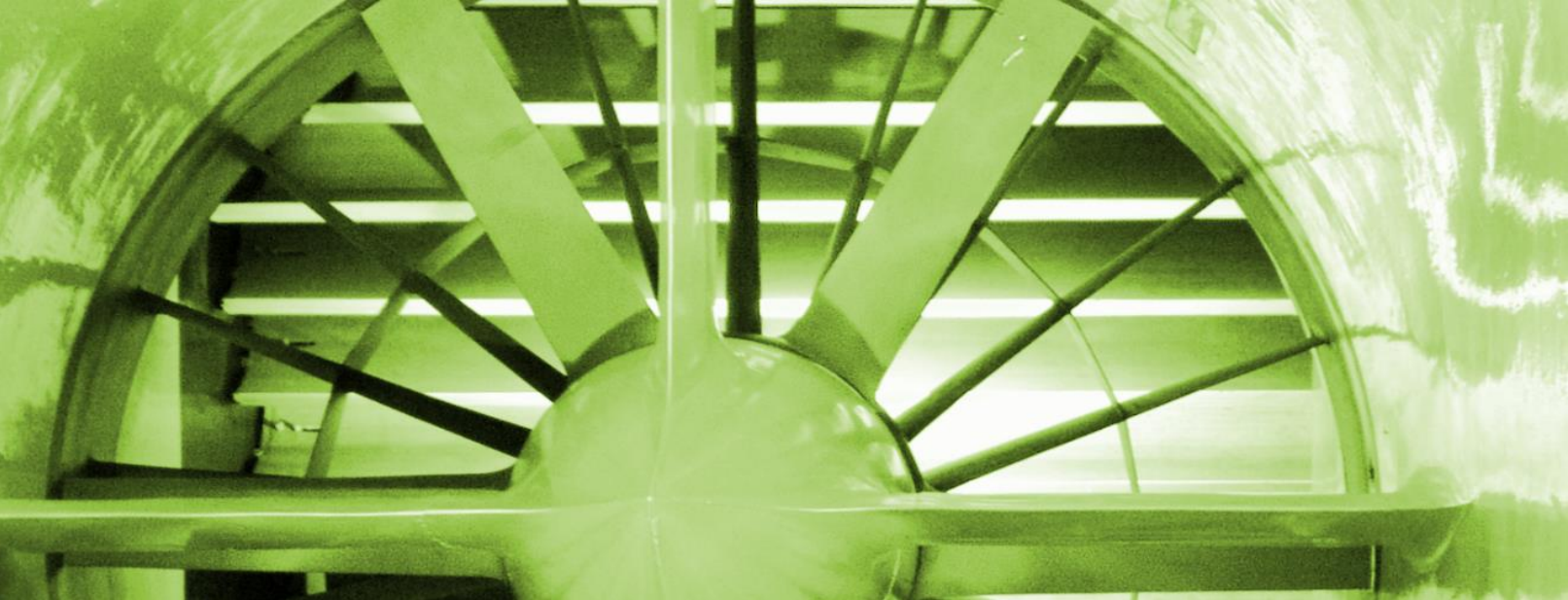
Scan and paint the flow

Automated traverse or operator may guide a probe in the flow region of interest. The probe's instantaneous position is precisely tracked with a camera system, the measured data is interpolated, and the flow field is instantaneously visualized to the user. This is essentially an intuitive scan-and-paint approach of the flow in real-time.

Digital approach

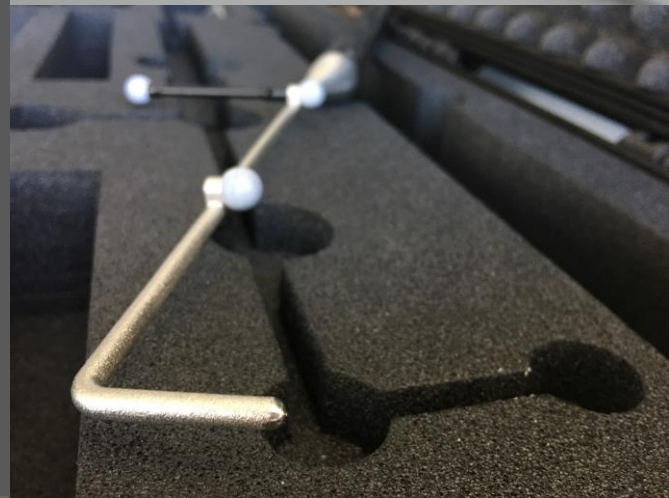
ProCap Compact merges data streams from position tracking and flow field measurements, reduces data, interpolates and predicts the flow field for integrated validation.





PROCAP COMPACT ADVANTAGES

- Provides 3D flow data in real-time
- Transportable and easy to install system
- Flexible & fast local flow measurements and visualization at complex objects
- Drives user towards area of interest and improves naturally the quality of measurement campaigns
- Saves costly and precious measurement time of your wind tunnel slot
- Fully 3D flow datasets compatible with CFD post processors for validation
- CAD geometry import



SYSTEM PACKAGE

- Calibrated 5 or 7-hole digital probe with markers
- Tracking camera and software
- ProCap Compact software pre-installed with Laptop
- Service & support package

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