

Pre-processing

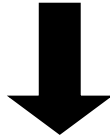
Read data:
Instruments,
vehicle passes



Time alignment,
upsample,
downsample



filter,
smooth and
merge data



Emission Event Processing

Pre-calculations



Perform for all vehicle passes:

Emission Event Detection

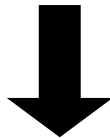
Apply
TUG-PDA:
CO₂ data



Apply
TUG-PDA:
Pollutant data



Calculate
emission
ratios



Emission Analysis and Statistics

Relate vehicle
technical
specifications



Calculate
emission
factors



Perform
statistical
evaluation