





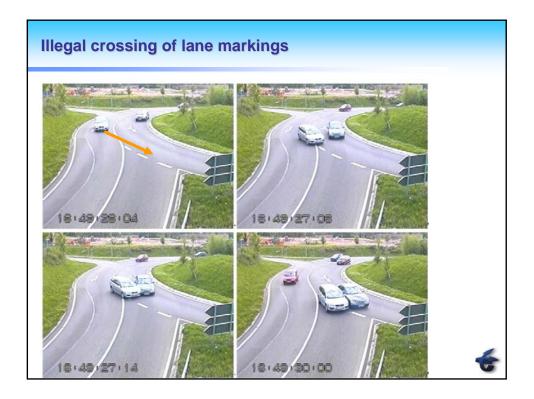




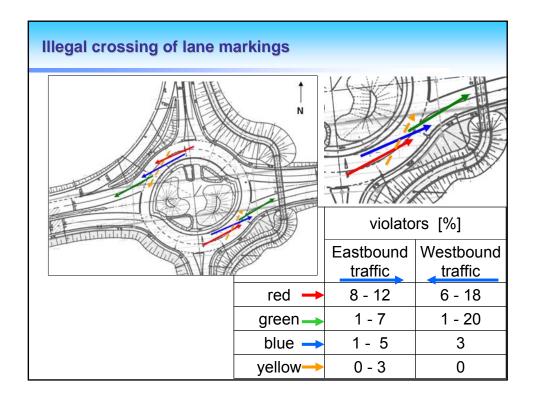


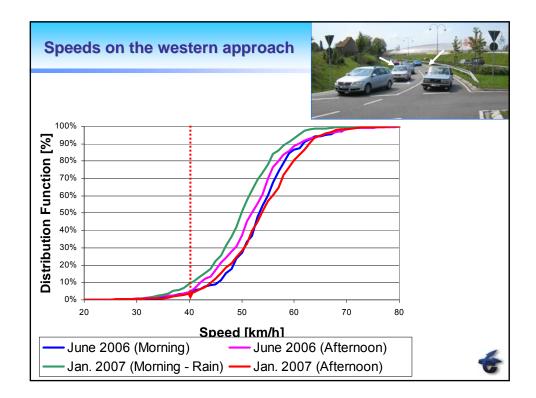
| | (coming from | West to East m freeway A 5 o city centre) | B 500 from East to West (from city centre heading to freeway A 5) | | |
|------------|--------------|---|---|------------|--|
| | left lane | right lane | left lane | right lane | |
| Entry | 24 % | 76 % | 39 % | 61 % | |
| Exit | 23 % | 77 % | 40 % | 60 % | |
| 24% 76% | | | 39% | 61% | |





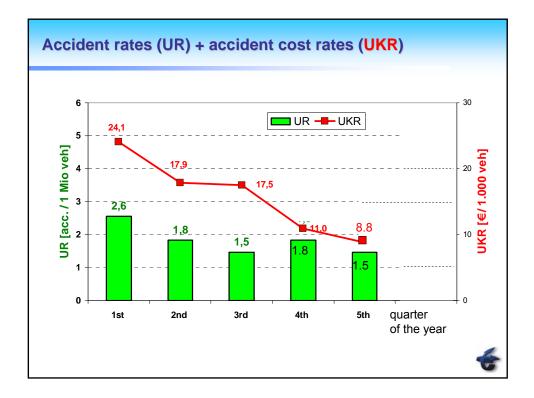




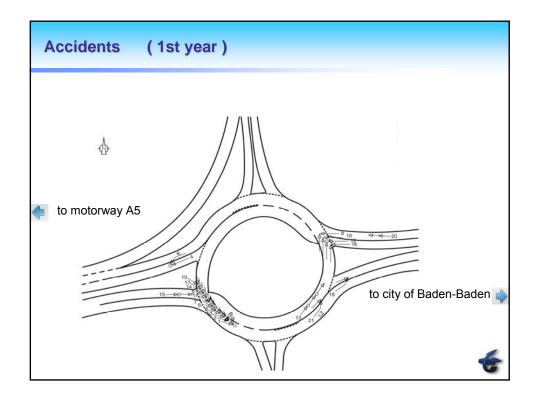


| | critical | gap t _c | follow-u | ıp time _t |
|----------------------|-----------------|-------------------------|-----------------|-------------------------|
| | absolute [s] | sample size [veh] | absolute [s] | sample size [veh] |
| two-lane entry | 4.5 | 62 | 2.4 | 4667 |
| single-lane entry | 4.7 | 180 | 2.8 | 23 |

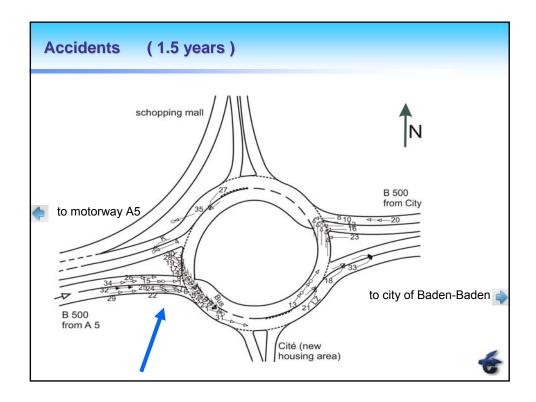
| Tu Tu B E | apacity, averag ibo-Kieisveikehr an der I ibo_Beispiel_KREISEL i00 / Grünweg chmittagsspilzenstunde | | and que | eue leng | th - only | y motor | ized tra | ffic | | | | Fil Th | le: urbo_b600.ki | 18 | -1 | |
|-----------------|--|---------------|----------------|----------------|----------------|---|--------------------|----------------|-------------------|------------------|-------------------|-----------|---------------------|-------------|-----|---|
| | | | | | Capacity. | average de | lay, and que | e length - on | ly motorize | d traffic | | | | | | |
| _ | Name | Type of | q-e-l pcu/h | q-e-r pcu/h | q-c-l pcu/h | q-c-r pcu/h | q-e-dema. pcu/h | gemax pcu/h | × | Reserve pcu/h | av. dly | L | L-95 peu | L-99 pcu | LOS | - |
| 1 | B 600 West (Richtung BAB) | 36 | 657 | 986 | 0 | 359 | 1643 | 2040 | 0,81 | 397 | 9 | 2,8 | 12 | 18 | | - |
| 2 | Grünweg | -4 | 177 | 43 | 666 | 1090 | 220 | 308 | 0,71 | 88 | 39 | 1.7 | 7 | 9 | D | |
| 3 | 8600 Ost (Richlung City) | | 632 | 948 | 0 | 494 | 1500 | 1799 | 0,00 | 219 | 15 | 4,8 | 18 | 27 | B | |
| 4 | Gewerbering | -4 | 178 | 0 | 640 | 1016 | 178 | 314 | 0,57 | 136 | 26 | 0,9 | • | 6 | c | |
| 4 | Bypass | | | 12 | 12.1 | 227 | 784 | 1400 | 0,56 | 616 | 6 | 37.5 | | | A | |
| 0 0 0 0 | esult: verall performance l alculation settings elay: Kimber, Hollis (19 apacity:Germany: Turbo- ueue-length:Wu, 1937 | 979) with F-k | h - 0,0 / T | - 3600 | Exit | ■ ¶ T | F | htung BAB) | @ 1 | | | ** | | | | |
| | | | | | | 4 44 74 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 | 2 3 4 5 | ×44 | 0 3 0 4 0 5 | | ∦ <i>∳</i> ∥ ⇒ | | ** | A A | | _ |

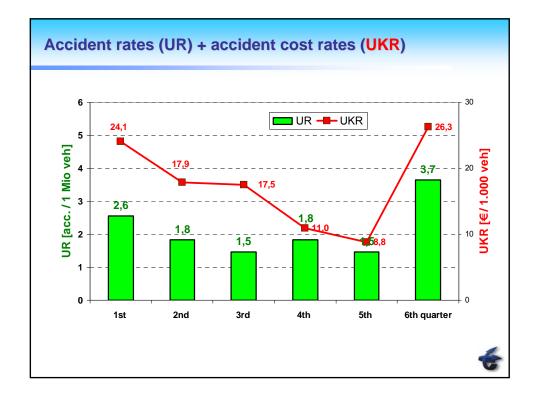


| Accident rates (UR) + a | | |
|--|------------------------------------|---------------------------|
| | UR [acc. / 10 ⁶ veh] | UKR [EURO / 1.000 veh] |
| Turbo-R. Baden-Baden | 1,9 | 17,60 |
| Roundabout with presceening + lane marking (urban) | 0,63 – 1,46 | 6,58 – 13,92 |
| Roundabout with presceening + lane marking (rural) | 3,29 – 4,43 | 17,08 – 36,26 |
| Signalized intersection (3 stages) | 1,2 | 39 |









| Accident rates (UR) + a | ccident cost rate | es (UKR) |
|--|------------------------------------|---------------------------|
| | UR [acc. / 10 ⁶ veh] | UKR [EURO / 1.000 veh] |
| Turbo-R. Baden-Baden | 2.1 | 17,60 |
| Roundabout with presceening + lane marking (urban) | 0,63 – 1,46 | 6,58 – 13,92 |
| Roundabout with presceening + lane marking (rural) | 3,29 – 4,43 | 17,08 – 36,26 |
| Signalized intersection (3 stages) | 1,2 | 39 |
| | | 4 |

| Conclusions |
|--|
| Turbo-roundabout works |
| is capable to treat large volumes of through-traffic under lower demand on the side approaches |
| no cyclists should be allowed |
| pedestrians ? (better not) |
| no severe accidents |
| safety needs carefull consideration (damage-only accidents) |
| problem: too low crossing volumes |
| just one case! more experience needed |
| However: Enthusiastic planning activities ! |

