

the mind of movement



WELCOME TO PTV USER GROUP MEETING INDIA 2017



WELCOME

WE PLAN AND OPTIMISE EVERYTHING THAT MOVES PEOPLE AND GOODS WORLDWIDE.



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ABOUT PTV GROUP





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OVER 5,500 CUSTOMERS LOCATED IN 180 COUNTRIES SERVED FROM 17 SUBSIDIARIES

ORGANIC GROWTH > 10% P.A.

GLOBAL MARKET LEADER

FOUNDED IN 1979

WE DELIVER SOFTWARE, DATA AND METHODOLOGIES

ON 5 CONTINENTS



Fiscal year 15-16





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TRAFFIC & PLANNING

PTVVISUMPTVVISSIMPTVVISWALKPTVVISTROPTVSAFETY



REAL-TIME TRAFFIC MANAGEMENT & ITS

PTV OPTIMA PTV BALANCE PTV EPICS

WE PLAN AND OPTIMISE

EVERYTHING WORLDWIDE WHICH

MOVES PEOPLE AND GOODS.

VEHICLE ACTUATED SIGNAL CONTROL INTRODUCING PTV BALANCE AND PTV EPICS

Entire Priority Intersection Control System - PTV Epics





VEHICLE ACTUATED SIGNAL CONTROL INTRODUCING PTV BALANCE AND PTV EPICS

Balancing Adaptive Network Control Method - PTV Balance





OPTIMA PT

THE **FUSION** of transport models capable of **PREDICTION WITH THE ONLINE REAL-TIME DATA** will provide INFORMATION ON EXISTING CONDITIONS would create a REAL-TIME PREDICTION PLATFORM.



TRANSPORT MODEL + REAL TIME DATA





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ACTIVITIES IN INDIA FOR SMART SIGNALLING WITH PTV BALANCE AND PTV EPICS

WHO KEEPS CITY'S RHYTHM FLOWING?

CHANDIGARH STUDY SECTION



NETWORK LEVEL SUMMARY PEAK HOUR TRAFFIC BEFORE & AFTER

Traffic increase by 6% in Network level.

| Total Network Volume- Before | Total Network Volume- After | Increase in Traffic (%) |
|---------------------------------|--------------------------------|-------------------------|
| 2,06,720 | 2,19,731 | 6.3% |

| Duration | Network Peak Volume - Before | Network Peak Volume - After | Network Peak Hour | Increase in Traffic |
|-----------|---------------------------------|--------------------------------|----------------------|---------------------|
| Morning | 18788 | 22173 | 9.15-10.15 | 18.0% |
| Afternoon | 18021 | 18682 | 13.45-14.45 | 3.6% |
| Evening | 19143 | 20885 | 17.15-18.15 | 9.1% |



RESULT COMPARISON - CHANDIGARH

Travel Time from all the observed journey routes are decreased by 20% compared to Fixed Time Controller.



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RESULT COMPARISON - CHANDIGARH

- An average queue length is decreased by 50% compared to fixed time signal.
- From 96 seconds to 57 sec average network delay is observed from balance model.



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Overall network speed has been increased from 28 kmph to 34 kmph. Improvement of 20%.





Average Network Speed-Chandigarh

PUNE – STUDY AREA





RESULT COMPARISON - PUNE

Travel Time from all the observed journey routes are decreased by 32% compared to Fixed Time Controller.



Travel Time Comparison Results-Pune



RESULT COMPARISON – PUNE

• An average queue length is decreased by 24% compared to base model.



Average Queue Length - Pune

Base Model Balance





DELHI - STUDY SECTION



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RESULT COMPARISON – DELHI

 Travel Time from all the observed journey routes are decreased by 26% compared to Fixed Time Controller.

Travel Time Comparison-Delhi



The average journey is 45% decreased.



Average Delay-Delhi

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RESULT COMPARISON – AVERAGE QUEUE LENGTH-DELHI

An average queue length is decreased by 37% compared to base model.



Average Network Delay/Vehicle-Delhi



Average Network Speed-Delhi



RESULT COMPARISON – FIXED TIME VS BALANCE / EPICS

| Parameters | Delhi | Pune | Chandigarh |
|---------------------------------|--------------|-------|--------------|
| Travel Time (Sec) | ▼ 26% | ▼ 32% | ▼ 20% |
| Queue Length (Meters) | ▼ 37% | ▼ 24% | ▼ 50% |
| Journey Delay (Seconds) | ▼ 45% | ▼ 32% | ▼ 39% |
| Average Network Speed (Kmph) | ▲ 27% | ▲ 51% | ▲ 20% |
| Average Network Delay (Seconds) | ▼ 30% | ▼ 43% | ▼ 41% |



PTV SOFTWARE SMART TRAFFIC SOLUTIONS FOR SMART CITIES



