



AI potential Applications in Transport

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ISO TC 204 WG 20 Convenor

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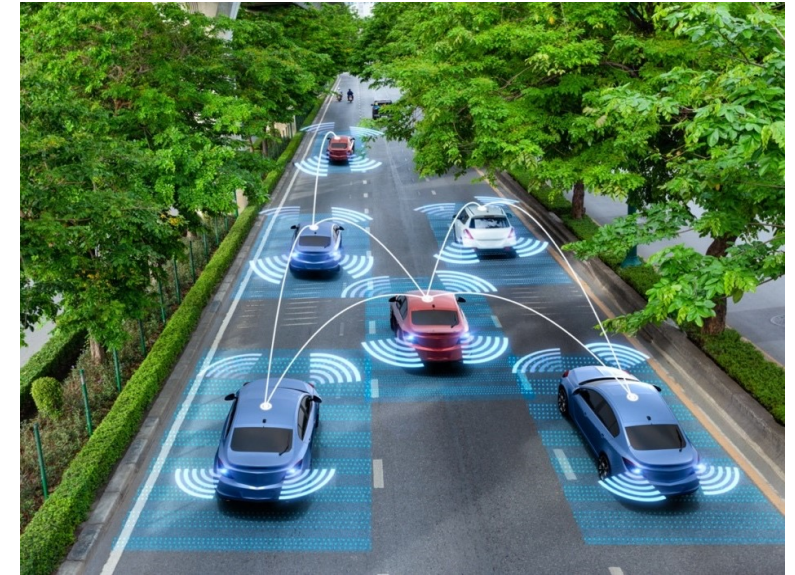


Introduction

- Automated Driving – Multiple AI Applications
- Smart Networks – Possible AI Applications
- AI Applications for Users
- Conceptual Architecture
- The Future
- Q&A

Automated Driving - Multiple AI Applications

- Distance detection and object avoidance
- Lane Guidance
- Origin Destinations
- Optimal Route determination
- Information flow between vehicles in proximity
- Intersection management and guidance
- Vehicle Platooning



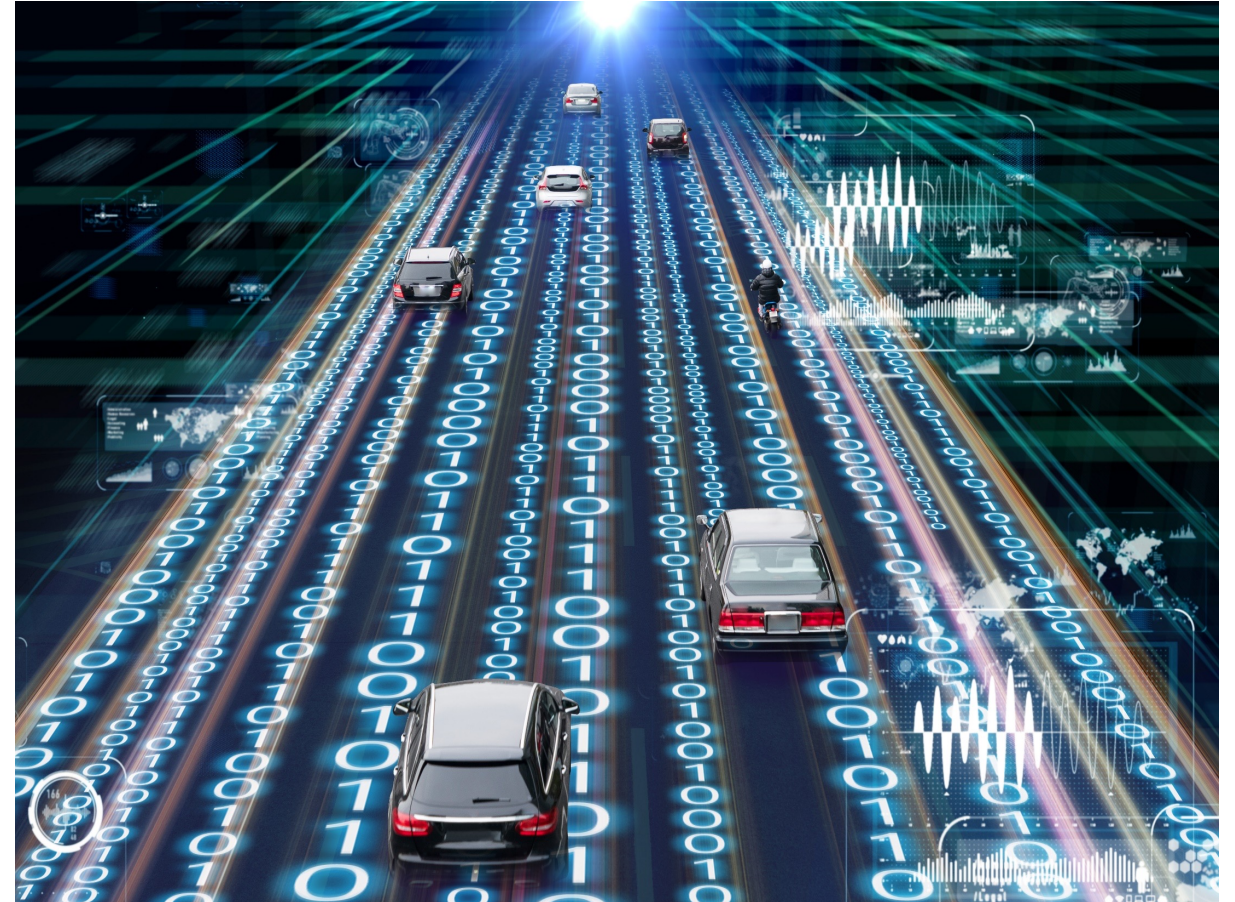
Smart Networks

- Traffic signal optimization based on data fusion
- Congestion Traffic management efficiency
- Travel pattern recognition
- Priority Vehicle management
- Kerbside Parking Management
- Infrastructure Management

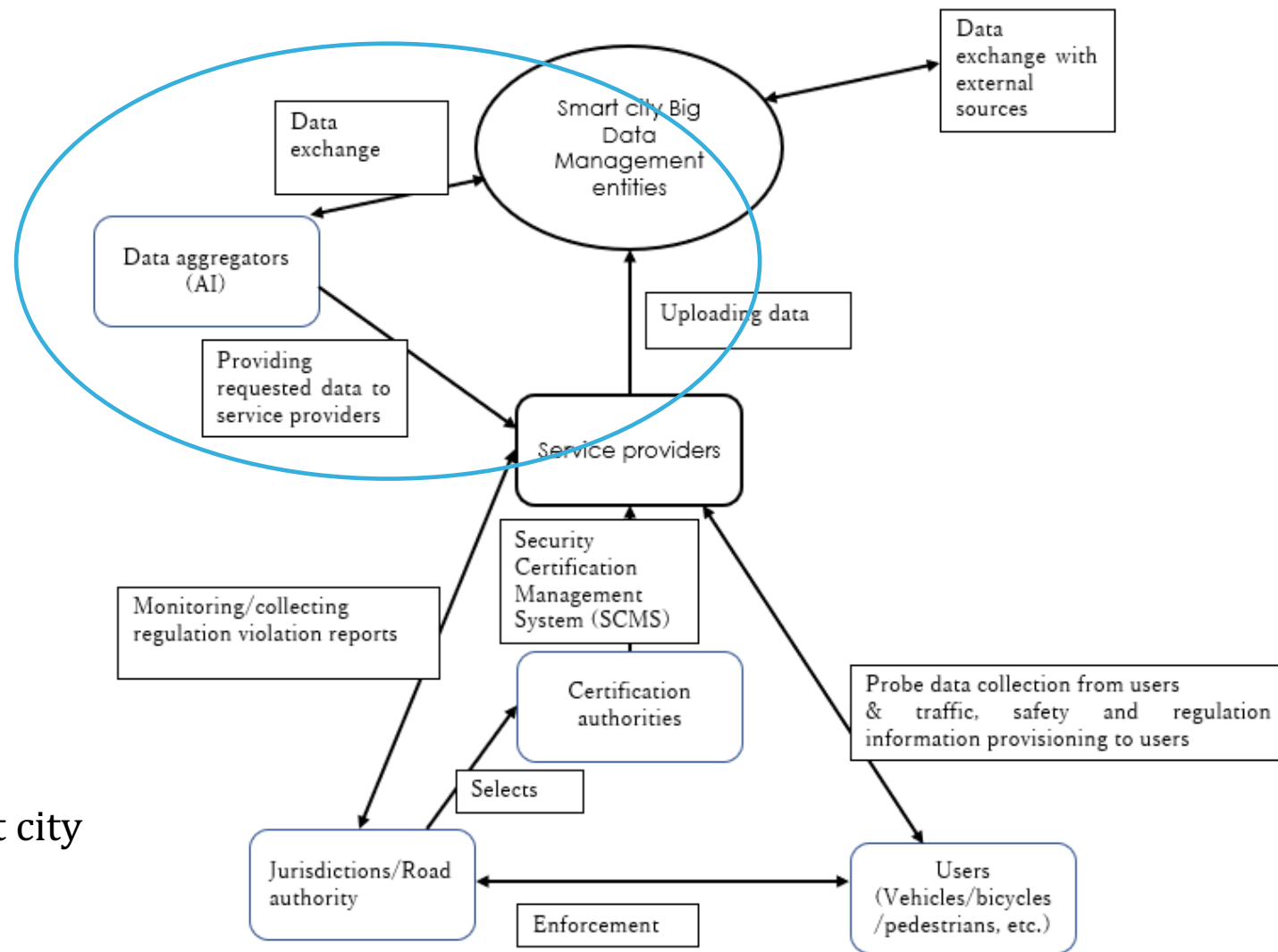


AI Applications for Users

- Optimized route for travel, private and public transport
- Cost determination and settlement for transport service
- Available services and selection
- Commuter demand and supply determination

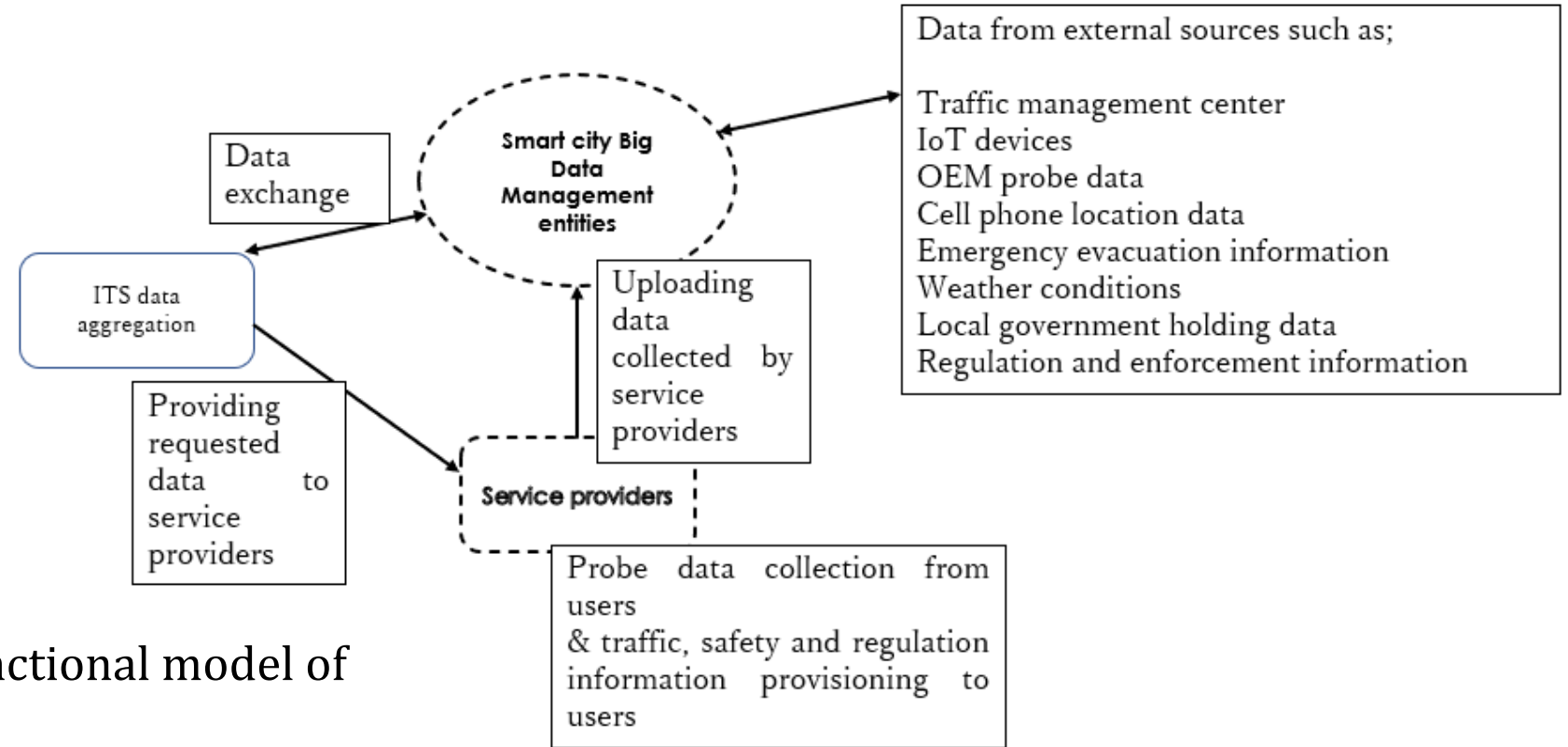


Conceptual Architecture



Role model conceptual architecture: Smart city ITS application service ISO/TR4445

Conceptual Architecture Cont.

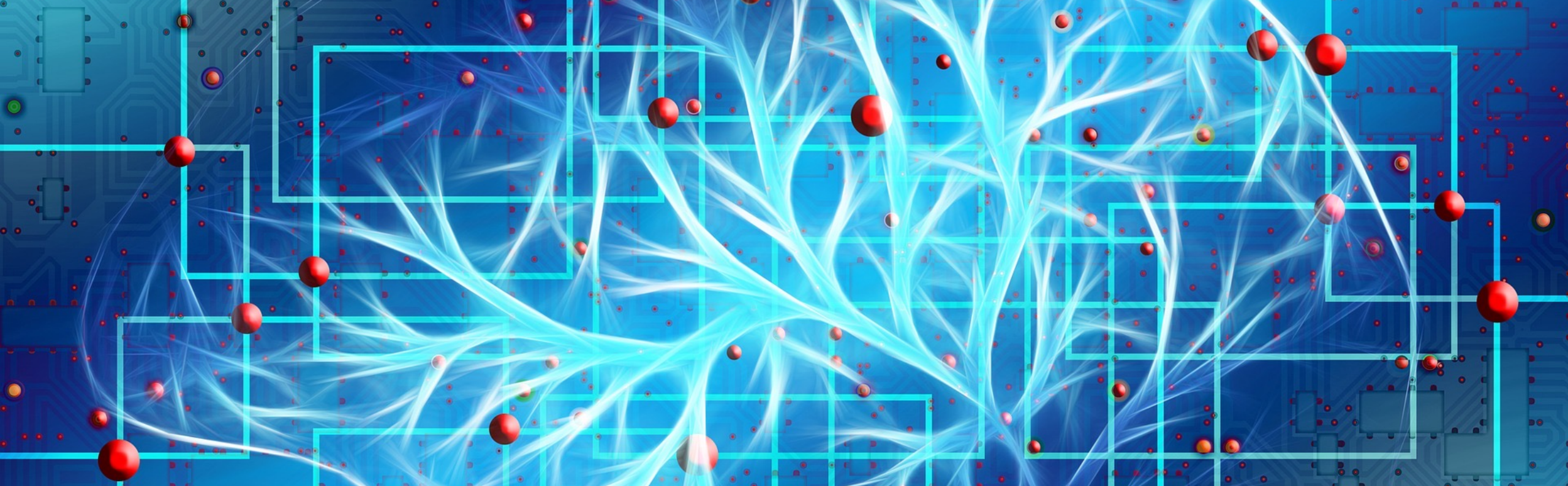


An image of role model and functional model of ITS data aggregation service



Operational Vehicle in New Zealand and South Korea





Summary

There are a number of focus areas that require AI and BD solutions that make this an extremely interesting space.



Thank you

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