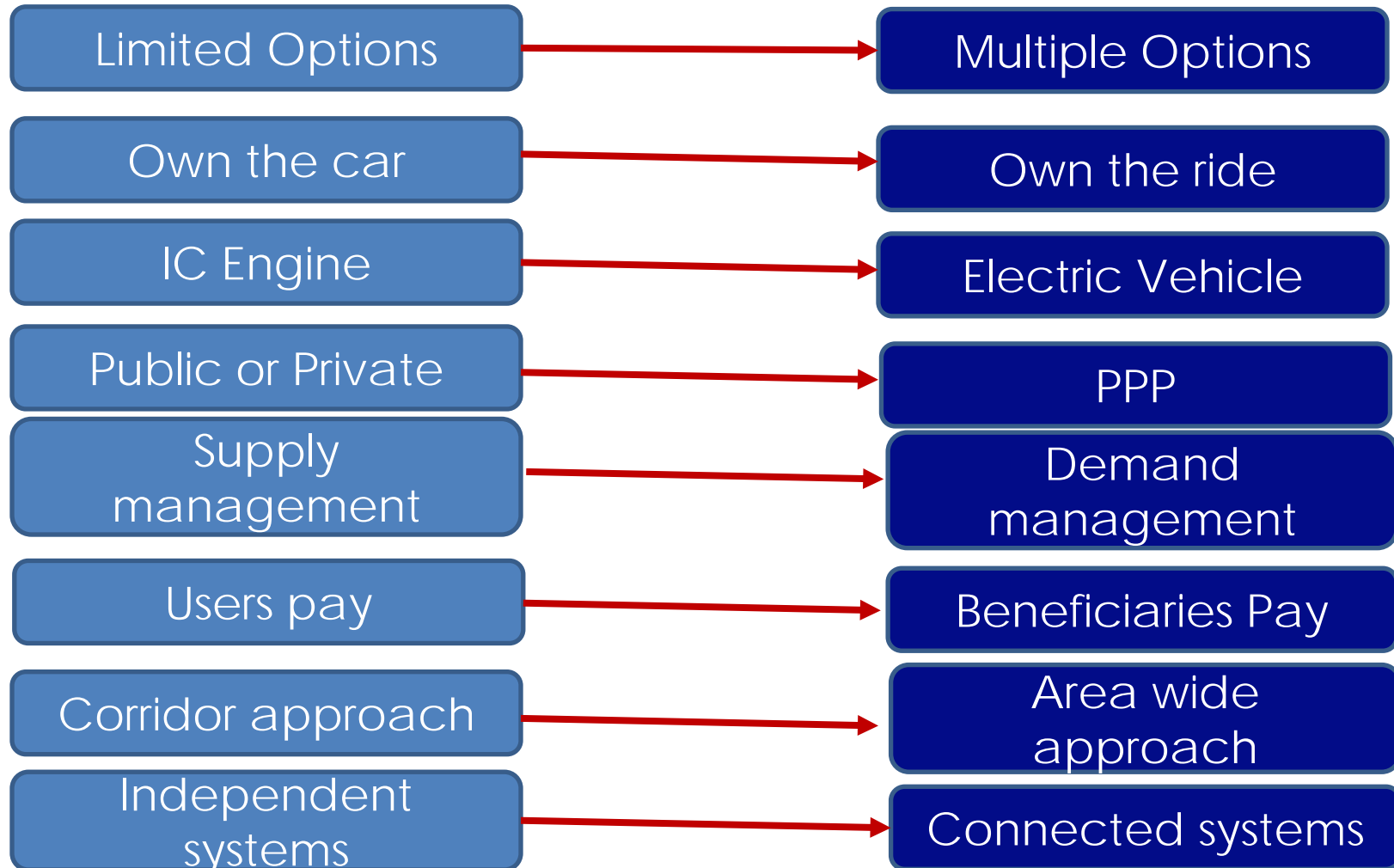


The Future of Urban Mobility

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Emerging trends



Limited to Multiple options

- Personal motor vehicle
- Taxi
- Autorickshaw
- Bus

People have a much wider variety of choices

- Personal Motor Vehicle
- Uber / Ola premium
- Uber / Ola Pool
- Radio Taxi
- Aggregated shuttle buses
- Taxi
- Autorickshaw
- Metro
- BRT
- Bus

Own the “Car” to Own the “Ride”

- Growth of the sharing economy
- Avoid hassles of repairs, parking, etc.
- Avoid hassles of driving – Uber/Ola
- Same car can serve multiple rides

- **Reduces:**
 - Idle time for a car
 - Need for parking facilities
 - Fuel consumed
 - Emissions
 - Congestion



IC Engine to Electric Vehicle

- Strong push towards electric vehicles
 - Plan to register only EV from 2030
- Primary drivers:
 - Air pollution
 - Burgeoning oil import bill
 - Excess electricity
 - Rapidly growing emphasis on renewable energy
- Technology still maturing
- Entire eco-system still needs to emerge

Public/Private to PPP

- Management of public transport systems was either a public monopoly or a highly competitive private market
- Emerging trend is a PPP model
 - Public planning and management
 - Private operations on structured contracts



Supply management to demand management

- Focus shifting from road widening and increasing capacity of public transport to reducing demand for transport:
 - Mixed use planning
 - TOD
 - High parking fees
 - Congestion charging
 - Shared rides
 - Integrated public transport systems



Users pay to beneficiaries pay

- Users are not the only beneficiaries of public transport – there are others as well
 - Land Value capture
 - Increased fuel taxes
 - Increased parking fees



Corridor approach to area wide approach

- From building metro's on one or two corridors to multi-modal and integrated systems:
 - Feeder buses
 - Public bike sharing
 - Parking facilities
 - Walkways

Focus on Origin to Destination Planning

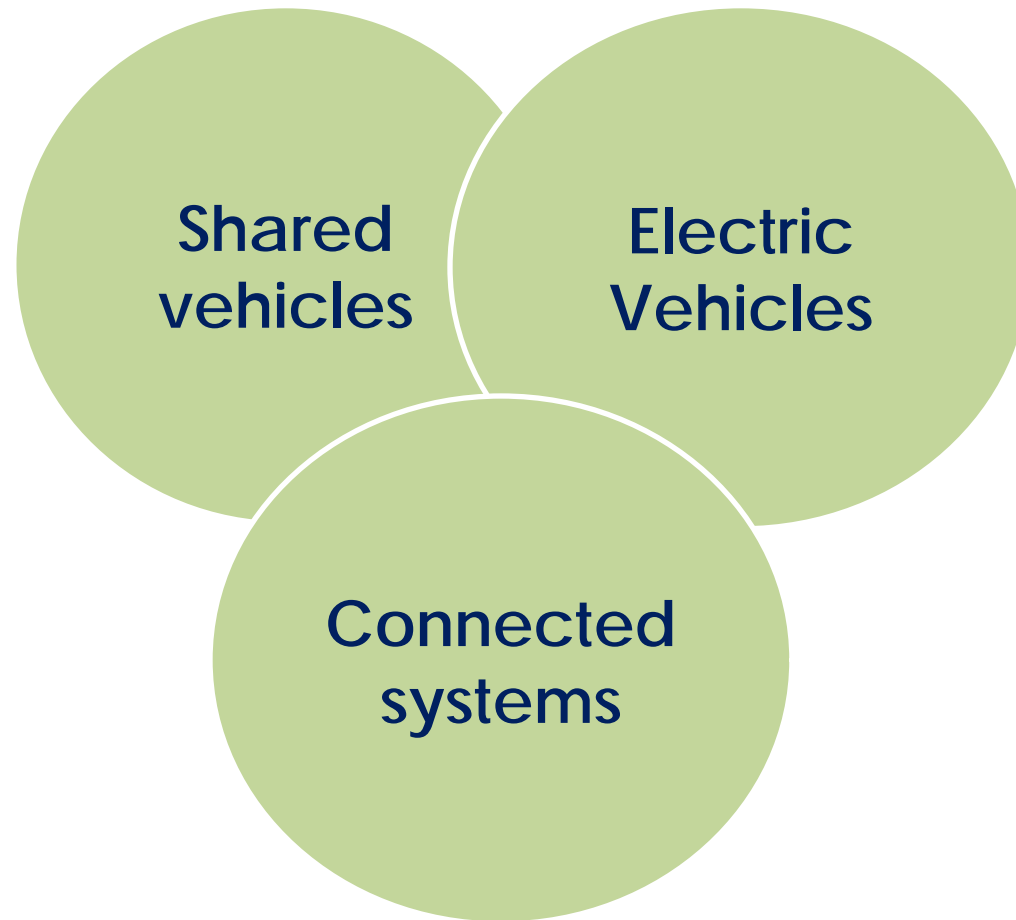


Independent systems to connected systems

- From each mode on its own to multi – modalism through inter-connections:
 - Passenger Information systems
 - Fare collection systems
 - Interchange facilities
 - Signage
 - Ownership and management
 - Governance



What seems to be the future



**Helsinki plans to make
private car ownership
obsolete by 2025**

Thank You