

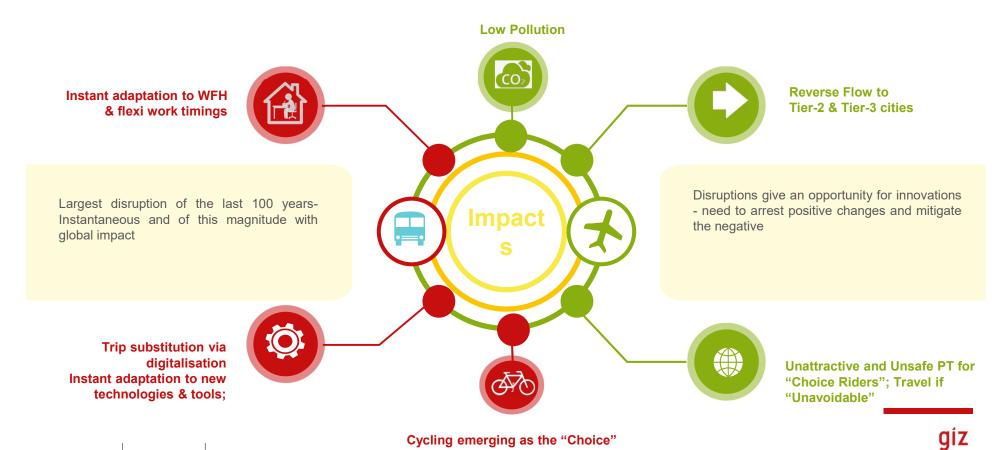


Implemented by



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Covid 19 "Disruption"



Impact

1

Economic Disruption

The economic disruption caused GDP contraction and hence closure of business, unemployment and reverse migration

Safety Perception

Increased sensitivity towards safety causing avoidance to crowded locations and being contactless

2

Rise in dependency on government for maintaining essential services

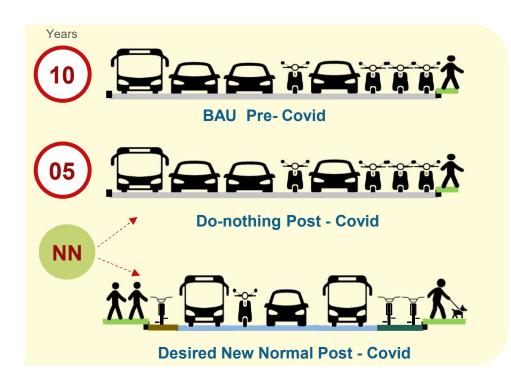
Impact

Reduction in travel demand Revenue gap and Fiscal **Preferences to personal** support for public travel choices transport systems Impact on public **Behavioural Shifts Impacts** transport Emergence of cycling as a **Digitalization of public** choice transport systems

Avoidance towards public transport

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Reconfiguring Mobility Landscape

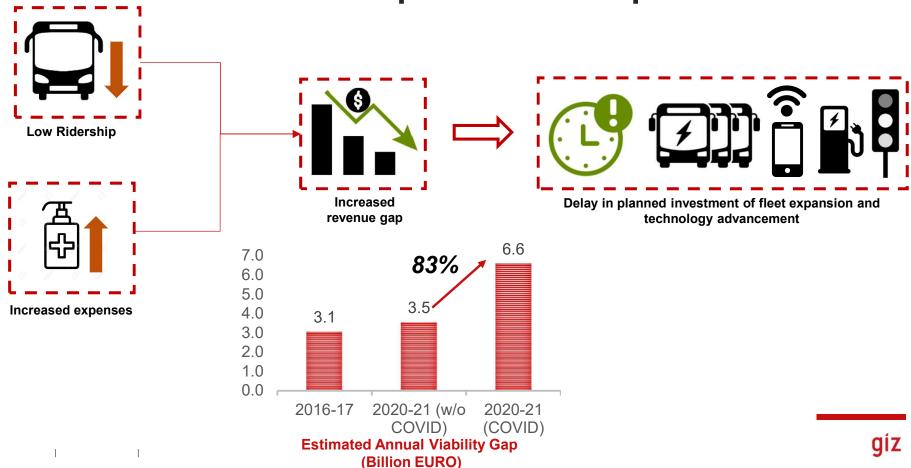


Guiding Principles for "New Normal"

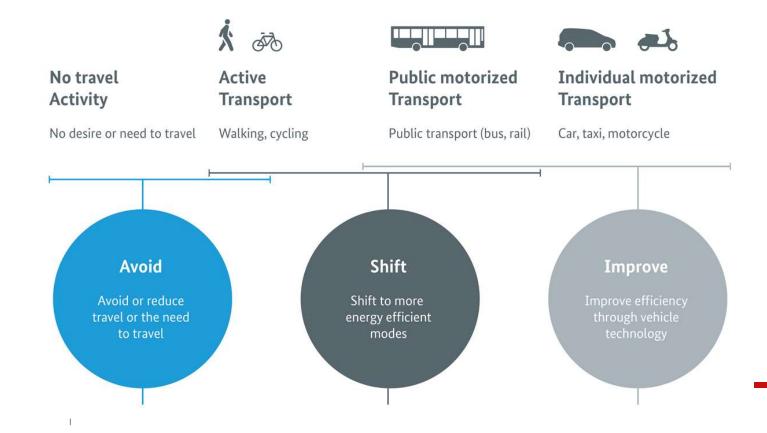
- Ensure that gain due to change in travel behaviour sustains
- Reset priorities, standards and focus on quality (with quantity)
- Ensure robust digital infrastructure, especially in T-2 & T-3 cities
- Bring cities closer High-speed/semi-high speed rail connectivity for region, buses within city
- Raise and priortise funds- "who should pay" to create affordable infrastructure
- Build capacity of the cities/states

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Public Transport Disruptions



Pillars of Recovery



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1. Investment in NMT Infrastructure



BAU





Desired



2. Investment in Bus Priority



BAU





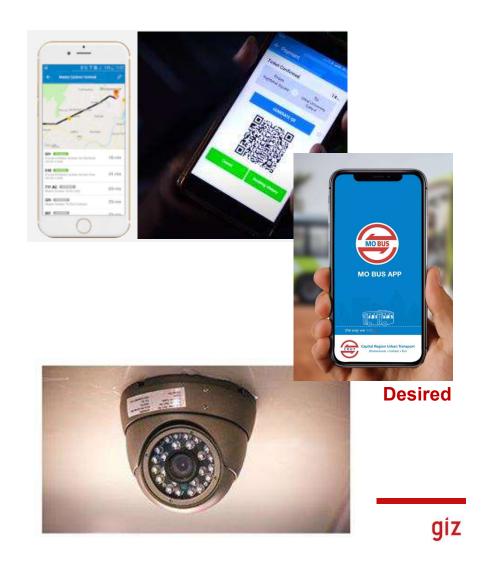
Desired



3. Investment in Digitalization



BAU



4. More buses, better buses and Integrated Metro rails



BAU





Desired

KEY CHALLENGES

Financial management challenges

- Working capital to pay staff salaries
- Financial needs for fuel expenses, maintenance expenses
- · Capital for payment to operators

Operational and service delivery challenges

- Service planning for uncertain demand
- Crowd management inside and outside buses
- Difficulty in flexible scheduling

Crew management challenges

- Training of staff on physical distancing
- Lack of equipment to ensure safety of crew
- Unavailability of crew

Fleet management challenges

- Availability of sanitization material
- Availability of fleet infrastructure post lockdown

*WB & UITP

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4. But where are the funds?

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Inconsistent funding at National level

Poor bankability of STUs

Divert the state/ULBs budget to PT and NMT from road infrastructure

Limited revenue sources with ULBs

Significant share of budget goes towards road infrastructure

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Towards Behavioural Shifts



Pop-up Bicycle Lanes and Dedicated Bicycle Lanes

Pop-up Bicycle lanes: Bangalore, Berlin, Milan, London etc Dedicated Bicycle Lanes: Cycles4change Challenge-India; Bogota- 35 Kms, Paris- 50 kms, Medellin-Increase by 50%, Milan- 22 Miles



Development of Vehicle Free Zones

Stay Healthy Streets- Seattle Paris- 30 streets as pedestrian only



Stimulus for shared/micro mobility

Medellin: 50000 electric bikes | Rome- Guidelines for shared electric scooters | Middlesbrough- legislation for rented e-scooters



Promoting Green Mobility

Incentive schemes for 10 cities in China | Guangzhou announced a subsidy of 10000 RMB for New Energy Vehicles



Acceleration of Mobility as a Service

Israel launched a MaaS pilot project for a tailored commuting system to revamp its rigid transport network

Towards Public Transport Systems



Long-term financial support

Netherlands adopted a €160 million scheme | Germany implemented a €6 billion scheme | Italy announced scheme to reimburse all the expenses



Green recovery of public transport

European Commission has been urged to set up a multi-billion euro grant scheme for zero-emission buses Federal Transit Administration (FTA) (US) announced approximately \$130 million in grant selections through the Low- or No-Emission (Low-No) Grant program



Digitalization of public transport

Shanghai and Nanjing, for example, have put QR codes on buses and metro trains In Auckland, an app to inform passengers whether an approaching bus or train for physical distancing Washington Metropolitan Area Transport Authority (WMATA) roll out contactless payments in an integrated manner Digital India initiative



Interaction with Private Players

European Union has urged that flexibility from on-demand and new mobility services can complement the public transport service

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Funding for Resilient PT Systems

