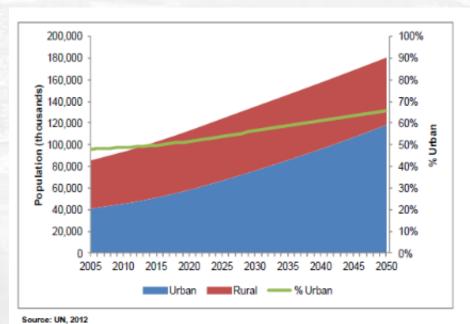
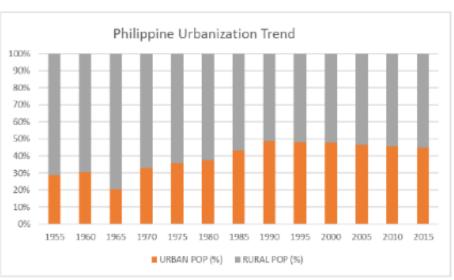
SHIFTING GEARS IN THE NEW NORMAL: THE PHILIPPINE EXPERIENCE

Dr. Ma. Sheilah G. Napalang Planning and Project Development Office Department of Transportation, Philippines

CONTEXT OF URBAN TRANSPORT DEVELOPMENT





Source: http://www.worldometers.info/world-population/philippines-population/

The Daily Cost of Metro Manila Congestion*

2017 PHP 3.5 billion

2035 PHP 5.4 billion

(assuming no interventions)

*From Follow Up Survey of the Japan International Cooperation Agency (JICA) on the Roadmap for Transport Infrastructure Development for Greater Capital Region (2017). Cost expressed in terms of fuel cost and lost person-hours in traffic/congestion.

Old Normal: Inadequate PT Capacity

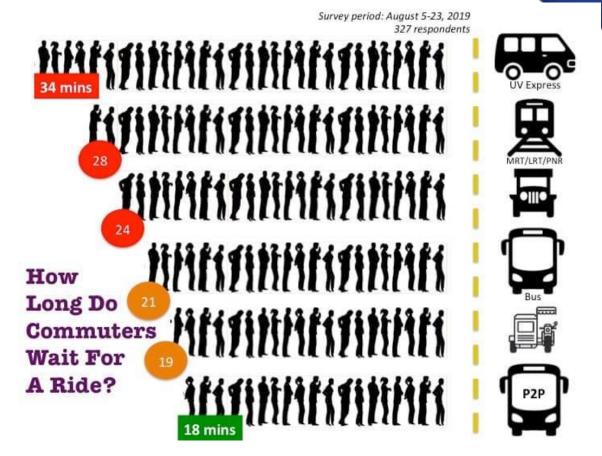




Photo credit: Regin Regidor, 2020

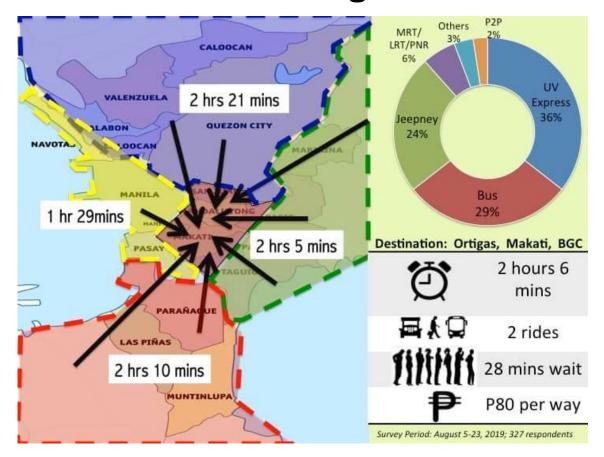
Photo credit: Robbie Siy, 2020

The Old Normal: Long Waiting Times



Reference: Cerna, 2019 (grabbed from NAST Presentation of Dr. Regin Regidor, 06July 2020)

The Old Normal: Long Travel Times



The Old Normal: Public Transport Operations

- Drivers earned based on passengers carried (nonsalaried)
- Competition for passengers
- Drivers work for 13-15 hours per day

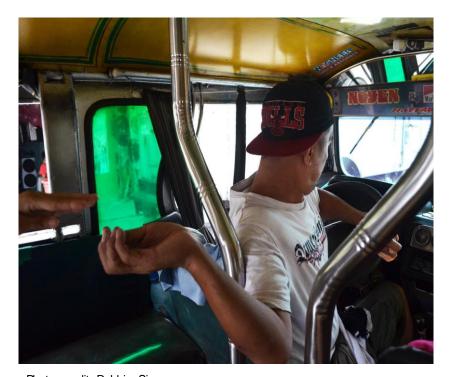
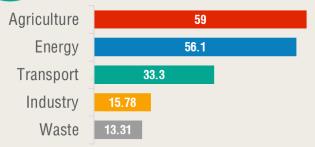


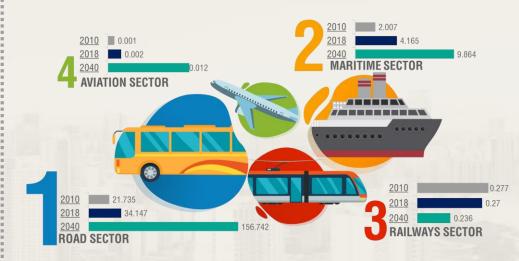
Photo credit: Robbie Siy

RD
largest contributor of the Philippines'
greenhouse gas emissions, next to
Agriculture Sector and Energy Sector.



Greenhouse gas emissions by sector, Philippines, $\underline{2016}$ In million tons of carbon dioxide-equivalents (MtCO₂e).

Source: CAIT Climate Data Explorer via. Climate Watch OurWorldInData.org/co2-and-other-greenhouse-gas-emissions



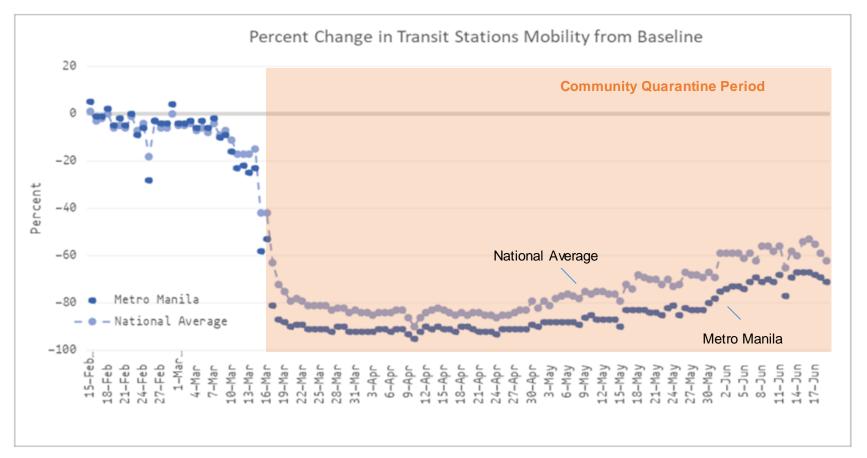
PHILIPPINE TRANSPORT SECTOR BASELINE GHG EMISSIONS IN MILLION TONS OF CARBON DIOXIDE-EQUIVALENTS (MTCO_E) The baseline and projections were estimated considering the economic growth targeted under the

The baseline and projections were estimated considering the economic growth targeted under the Medium-Term Philippine Development Plan – Ambisyon 2040, and the expected growth in population.

While we were sleeping ...

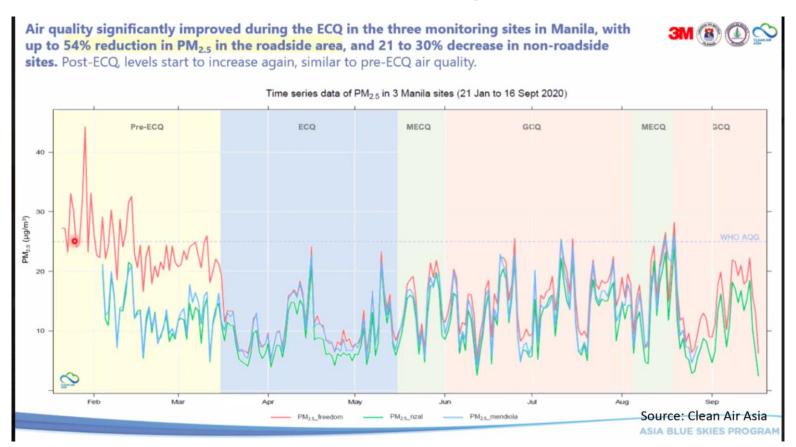
- On 11 March 2020, the World Health Organization (WHO) declared the novel Coronavirus Disease 2019 (COVID-19) a global pandemic
- On 16 March 2020, the President of the Philippines imposed Enhanced Community Quarantine (ECQ) and Stringent Social Distancing Measures in Luzon
- Suspension of all modes of public transportation in land, air and water for the duration of the ECQ

Transition from Old Normal to New Normal



Source: DOTr- Management Information Service

Silver Lining





Social Impact on the Transport Sector



Transport Operations: New Normal

Two-pronged objective:

Efficiency: Meet mobility requirements of the commuting public and ensure unhampered movement of goods to support economic activities;

Safety: Control the spread of the virus through the reduction of transmission through the implementation of stringent health and sanitary protocols as well as reduction of contact

SANITARY MEASURES



Wearing of face mask at all times



Cashless payments



Use of thermal scanners



Alcohols/sanitizers in PUVs



Disinfection of high-touch surfaces



Disinfecting facilities



Contact tracing

Transition from Old normal to New normal

Transportation

	✓ Allowed with safety pr		d with safety protocols Not allowe
	ECQ	MECQ	ecó
Public			
Rail (PNR, LRT, MRT)	8	8	⊘
Bus	\otimes	8	
	8	8	Unable disease for the se
Taxi	8	8	Limited load factor (varies by mode of transport)
₩ TNVS	8	8	✓ (runsport)
ী৯ Tricycle	\otimes	Exceptions subject to DILG/ LGU guidelines	⊘
Dublic shuttle	✓ For front-liners	Ø	⊘
Private Company shuttle	 Special permit from LTFRB for rented shuttles 	Special permit from LTFRB for rented shuttles (50% Capacity)	②
Personal vehicle	Person/Workers in permitted sectors/activities	Person/Workers in permitted sectors/activities (2 persons per row)	Ø
→ Bicycle	8	1 person max	Ø
	8	1 person max	Ø
E-scooter	8	1 person max	Ø

Source: IATF



PERFORMANCE-BASED CONTRACT

- a. vehicle-kilometer operated
- b. reliability (regularity and punctuality of services based on headway)
- c. driver and vehicle quality
- d. passenger & staff security
- e. customer/end-user satisfaction

Service Contracting of Public Transportation

Government will contract operators/drivers to render public transportation services based on vehicle-kms, compared to the status quo of earning based on passenger-kms

BENEFITS OF SERVICE CONTRACTING

For the Operators/Drivers

- Stable income despite the reduction in load factor
- Reasonable working hours

For Commuters

- Predictable service (based on headways or the time between two succeeding PT mode)
- Safe travel due to standards for driver behavior as condition of the contract
- Availability of feedback mechanism for improvement of service

Promotion of Active Transport



PROTECTED BIKE LANES ON EDSA

- The DOTr, MMDA, and the Department of Public Works and Highways (DPWH) have started the construction of the bike lanes in EDSA last 13 June 2020
- 1.5 meters of space for bikers and will be done in two (2) phases interim and long-term



SAVES LIVES



Maximize productivity of road infrastructure



Reduce load on public transport systems



Provide basic/fundamental social justice



Solve traffic by encouraging shift from car to bicycle



Existing Bicycle Lane with Flexible Bollards in Julia Vargas Avenue, Pasig City

Active Transport

- 561 km of bike lanes built across Metropolitan areas of Manila, Cebu, and Davao as of April 27, 2022
- Bike lanes range from Class 1 (separated from carriageway), 2 (protected with bollards, curbs, pavement markings), and 3 (prioritization in mixed traffic)
- IEC for promoting road sharing: online, through manuals and brochures, on electronic billboards in train stations and along the road



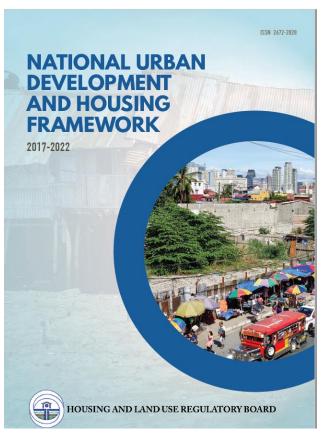


Users' Perspective

Interventions to encouraage to bike more				
Provision of a safe, connected cycling route	205	89%		
Amenity improvements (e.g. night lighting, covered walk, signage) of areas with intense pedestrian activity	1	0%		
Enforcing lower speed limits and other traffic safety policies (1m distance between drivers and cyclists, give priority to cyclists/pedestrians)	140	61%		
Availability of bicycle skills training program	37	16%		

Interventions to walk more				
Provision of safe, well-connected walking route network with supporting infra	167	72%		
Amenity improvement (night light, covered walk, signages	129	56%		
Enforcing lower speed limits (15-30kph) in areas that attract high pedestrian/cyclist use; Amenity improvements (e.g. night lighting, covered walk, signage) of areas with intense pedestrian activity	46	20%		
Add more footbridge for crossing pedestrian strategically along CBD areas and highways with heavy vehicle traffic volume; Amenity improvements (e.g. night lighting, covered walk, signage) of areas with intense pedestrian activity	86	37%		

LINKING LAND USE TO TRANSPORTATION



- Transit-oriented development
 - compact, walkable, mixed-use communities around a mass transportation system
 - well-developed pedestrian and cycling facilities connected to transport terminals and high-density, walkable districts within a 10-minute walk circle around the transport station
- Locally, this strategy can be pursued by integrating transportation planning in the development of the Comprehensive Land Use Plan (CLUP) when mapping out a locality's various land uses.

Moving towards a better future

- Build on gains in improving public transportation operations
 - Service contracting
 - Strengthen digital platform for Automatic Fare Collection System (AFCS)
 - Connecting micro-mobility modes to main PT stations
- Sustain development of infrastructure and supportive culture for Active Transportation
 - Connected and protected cycle lanes
- Support for environment-friendly transportation systems through the use of clean and energy efficient transport technology and fuels
 - ➤ Inclusive and people-oriented mobility such as TOD, prioritization of pedestrians
- Adopt alternative working schemes (i.e., 4-day work week, flexible working hours)

THANK YOU FOR YOUR ATTENTION ©

