Building a Cycling Metro Manila

Aldrin Pelicano



University of the Philippines Diliman



ALDRIN O. PELICANO

School of Urban & Regional Planning

2nd Semester AY 2015-2016 # 026032











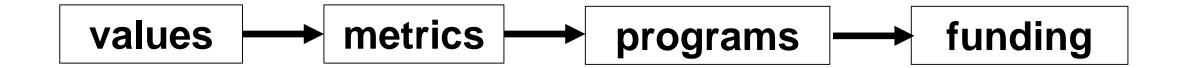


We are a community of transport cyclists and pedestrians that works to make active mobility (cycling and walking) easier and safer in Metro Manila.





"Decisions about transport investments are really about what kind of future city we desire."





LOCAL PLANNING ILLUSTRATIVE GUIDE

PREPARING AND UPDATING THE COMPREHENSIVE DEVELOPMENT PLAN (CDP)



Vision

shall lead the Philippines into the 21st century; its global and national enterprise, leading the creation of a new responsible and sustainable economy; its citizens productive, empowered and God loving.

A globally-competitive city anchored on a strong domestic economy driven and sustained by light and export industries that are supported by modern infrastructure facilities, a center of quality education and health services, the heart of tourism, trade and commerce in Central Luzon, and a residential haven tranquil and fit for healthy and sustainable living, and where empowered and responsible citizens work in harmonious partnership with an efficient, responsive and accountable local government.

GENERAL APPROPRIATIONS ACT, FY 2018

XXXVI. ALLOCATIONS TO LOCAL GOVERNMENT UNITS

A. METROPOLITAN MANILA DEVELOPMENT AUTHORITY

STRATEGIC OBJECTIVES

SECTOR OUTCOME

Ecological integrity ensured and socioeconomic condition of resource-based communities improved

ORGANIZATIONAL OUTCOME

- 1. Ecological, safe and efficient solid waste disposal and management ensured
- 2. Safe and smooth flow of traffic in Metro Manila thoroughfares assured
- 3. Flood mitigation assured

PERFORMANCE INFORMATION

ORGANIZATIONAL OUTCOMES (OOs) / PERFORMANCE INDICATORS (PIs)	BASELINE	2018 TARGETS			
Safe and smooth flow of traffic in Metro Manila thoroughfares					
assured					
METROPOLITAN MANILA TRAFFIC MANAGEMENT PROGRAM					
Outcome Indicators					
1. Decrease in average travel time along major	2.47 mins / km	2.47 mins / km			
thoroughfares					
2. Average time to resolve traffic obstruction along	15 mins	15 mins			
Metro Manila major thoroughfares	ı				
3. Percentage decrease of corruption reported in	2. 55%	50%			
traffic operations					
Output Indicators	4				
 Percentage of traffic obstructions / accident reports 	100%	100%			
responded to within fifteen (15) minutes					
2. Number and percentage of traffic constables deployed	100%	100%			
at designated major intersections and					
thoroughfares at all times					
0 D	new .	0779			
 Percentage of reliability of traffic signal lights, countdown timers and CCTVs 	96%	97%			

Matrix of Indicator Definitions

Department/Agency: TRAFFIC DISCIPLINE OFFICE (TDO) - MMDA

Program/Subprogram	Output/Outcome indicators	Definition	Means of Verification	Monitoring Mechanism		
Program: Metropolitan Manila Traffic Management Program	Outcome Indicator: 1. Decrease in average travel time along major thoroughfares	To compute for the Average travel time along major thoroughfares in Metro Manila the Car Travel Speed Method of Transport Survey is being used. Data are taken during morning peak, afternoon peak and off-peak along major thoroughfares like EDSA, C5, Commonwealth Ave., Quezon Ave., R-10, Marcos Highway and Roxas Blvd.	Travel Speed Survey is conducted every quarterly for major thoroughfares.	Physical Plan and Accomplishment Reports monitors average travel speed and average travel time on a quarterly basis. These reports are submitted to DBM, NEDA and Malacañang.		

MMDA's Scope of Services, its Functions and Powers

Scope of MMDA Services

Metro-wide services under the jurisdiction of the MMDA are those services which have metro-wide impact and transcend local political boundaries or entail huge expenditures such that it would not be viable for said services to be provided by the individual Local Government Units (LGUs) comprising Metropolitan Manila.

These services shall include:

- a. Development planning which includes the preparation of medium and long-term development plans; the development evaluation and packaging of projects; investment programming and coordination and monitoring of plan, program and project implementation.
- b. Transport and traffic management which includes the formulation, coordination and monitoring of policies, standards, programs and projects to rationalize the existing transport operations, infrastructure requirements, the use of thoroughfares, and promotions of safe and convenient movement of persons and goods; provision for the mass transport system and the institution of a system to regulate road users; administration and implementation of all traffic enforcement operations, traffic engineering services and traffic education programs, including the institution of a single ticketing system in Metropolitan Manila.



REPUBLIKA NG PILIPINAS TANGGAPAN NG PANGULO Pangasiwaan sa Pag-papaunlad ng Kalakhang Maynila Metropolitan Manila Development Authority "Japat na Serbiyo sa Bagong Milenyo" TRAFFIC ENGINEERING CENTER - TDO

METROPOLITAN MANILA ANNUAL AVERAGE DAILY TRAFFIC (AADT) 2017

SUMMARY

	SUMMARY										
	CIRCUMFERENCIAL AND RADIAL ROAD	VOLUME								With the second	
C:1	RECTO	CAR	PUJ	UV	TAXI	PUB	TRUCK	TRAILER	MC	TRICYCLE	TOTA
0.1		21,366	13,134	2,172	4,069	545	584	3	19,551	3,253	64,67
C:2	MENDOZA	49,430	56	519	5,358	213	5,102	731	21,983	987	84,37
	PRES. QUIRINO AVE.	59,647	1,574	454	6,852	99	5,958	981	27,686	1,867	105,11
C:3	ARANETA AVE.	40,306	1,945	14	4,207	6	4,163	607	26,107	2,675	80,03
C:4	EDSA	247,527	2,369	7,229	20,022	12,283	8,830	2	69,438	28	367,72
C:5	KATIPUNAN / C.P. GARCIA	133,171	923	8,442	7,293	221	10,121	680	57,881	19	218,75
R:1	ROXAS BLVD.	120,524	42	7,626	16,660	2,103	747	1,111	42,191	116	
R:2	TAFT AVE.	36,558	12,152	13,236	5,643	3,749	640	10	18,028		191,12
R:3	SSH	65,381	353	684	6,650	892	5,182	2.376		570	90,58
R:4	SHAW BLVD.	55,632	6,450	3,496	4,029				21,797	62	103,3
R:5	ORTIGAS AVE.	71,102	12,054	9,344		107	1,054	126	30,724	6	101,62
R:6	MAGSAYSAY BLVD.		-		3,723	877	5,029	681	50,769	376	153,98
	AURORA BLVD.	56,261	5,952	59	6,265	722	2,859	336	28,878	1,241	102,5
R:7	QUEZON AVE.	41,620	14,707	6,701	5,245	57	3,674	712	25,614	314	98,64
		113,905	6,868	12,791	15,840	1,217	3,664	244	40,759	47	195,33
	COMMONWEALTH AVE.	139,951	15,687	13,165	14,400	5,475	7,822	518	74,492	1,210	272,72
R:8	A. BONIFACIO	28,690	3,695	222	908	1,494	9,278	3,915	11,938	650	60,79
R:9	RIZAL AVE.	32,905	12,546	83	2,685	492	2,012	3	29,449	1,565	81,74
R:10	DEL PAN	35,955	1,783	186	3,538	73	5,686	7,886	23,167	2,011	80,28
	MARCOS HIGHWAY	90,287	14,261	4,532	5,165	133	5,684	412	42,019	169	162,66
	MCARTHUR HIGHWAY	29,446	8,752	25	4,073	1,889	3,208	506	34,852	206	82,95
	TOTAL	1,469,664	135,303	90,980	142,625	电影经验	91,297	21,840	697,323	17,372	2,699,0

Global Street Design Guide









Prioritizing People in Street Designs

The Global Street Design Guide has been designed to inspire leaders, inform practitioners, and empower communities to design streets that put people first.



1. Pedestrians

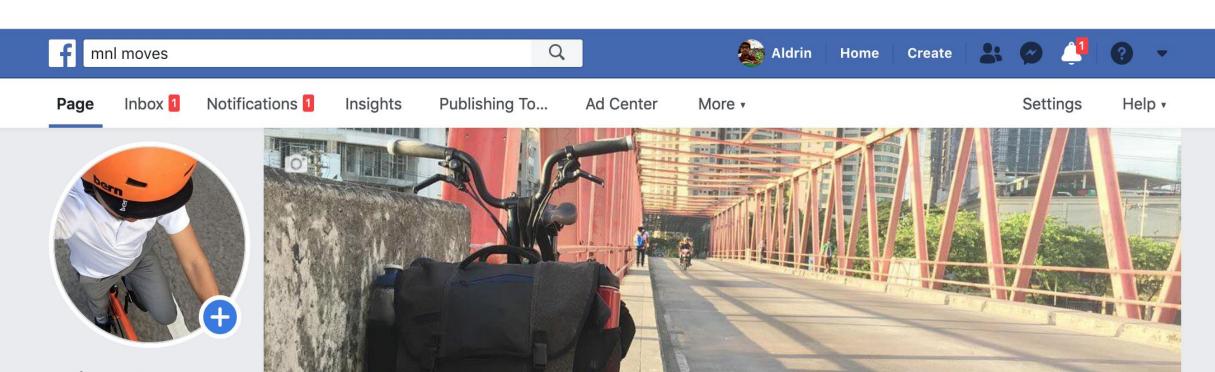


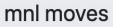
2. Cyclists and Transit Riders









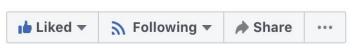


@mnlmoves

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Reviews



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"15 taon na akong nagba-bike papasok sa trabaho. Pintor ako, regular na empleyado sa isang kumpanya na gumagawa sa mga building, condo, bahay. Sa Ayala ang opisina namin pero sa iba't ibang lugar ang project site. Sa Quezon City, Paranaque. Kahit saan pa yan, bina-bike ko lang, araw o ulan."

Nakita ko si Tatay kaninang nakatayo sa gilid ng kalsada. Hawak ang bike nya, hinahabol ang paghinga at nakatingin sa hagdanang aakyatin. Naisip ko kung anong pwede kong gawin, mag-offer ba akong buhatin ang bike nya. Pero nagdalawang isip ko dahil mukha naman nagpapahinga lang siya at hindi naman kailangan ng tulong.

Kaya nauna na ako sa taas ngunit sabi ko sa sarili ko, aabangan ko siya doon, dahil magwa-waterbreak naman ako at kung babatiin nya rin ako, makikipagkuwentuhan na ako. At binati ko siya pagakyat niya at ngumiti naman si Tatay. Hinintay ko lang siyang makaupo kaya lumapit na ako.

Taga-Pasig siya. 60 na siya sa October. Sa 15 taong pagba-bike commute niya ay hindi raw siya talaga gumamit ng helmet. Hindi komportable. Sunod ko agad tanong, sumemplang na ba kayo? Oo daw may ilan-ilan. Isa lang ang seryoso noon tumama siya sa



Tatay rides his bike everyday for the past 43 years to deliver print newspapers. Locally known as "dyarista", they are dealers that play an important role distributing local newspapers in their assigned areas in the Metro.

He started when he was 29 years old and would cross the Pasig river via Mandaluyong-Makati bridge to pick up his daily copies to bring it to his patrons in Ayala CBD.

While his job is very much interesting in itself, his two wheels make him stand out even more. Single-speed, no brakes, with a drop handlebar reversely attached to serve as front carrier/rack for the newspapers.

I asked him if he had any crashes in the long years of working on a bike. Once, he said, when a taxi bumped him while riding his bike. He was lucky to get off it with bruises but his bike a wreck.

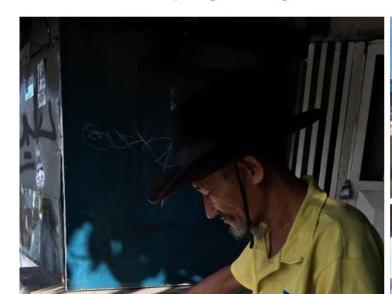
He said that that is the reason why he has no brakes; his pedalling is his brake system and he rides slowly to avoid crashes with other road users, both pedestrians and motorised vehicles.





Aircon technician si Tatay. Nakatira siya sa isang informal settlement sa Manggahan Floodway pero hindi sa pampang nito. Araw-araw niyang pinapadyak mula 1999 ang Pasig papuntang Sta Ana sa Maynila upang magtrabaho sa maliit na shop ng pagmamay-ari ng kaniyang kapatid. Malayo man daw, tiyak naman ang kita.

Sobrang init kanina. Inalok ko na kay Tatay ang kalahati ng dala kong tubig. Malapit-lapit na rin naman ako sa bahay. Gaya ng inasahan ko, tumanggi siya noong una. Pero ipinilit ko na at isinalin ang tubig sa water bottle niyang walang laman.









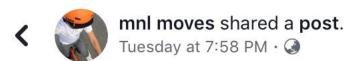
mnl moves added a new photo.

28 February at 8:29 PM · 🚱

Derrick is a Mechanical Engineer who works in Makati and resides in Pasig. He rides a bike with suspension and wears cleats. He uses bike lights (front and rear) and helmet. Whatever one's style is, bicycling in Metro Manila is slowly but surely getting more and more happy converts.

How about you? When will you choose to be a happy commuter?





Ideally, both resolutions and local ordinances should be accessible to the public. Un sure it will be given to anyone who asks, right Pasig Transport?

While you're at it, we would really appreciate if you could put in a downloable high-resolution map the existing 40 kilometers of bike lanes in Pasig City and your planned additional 110 kilometers of bike paths. Thanks and all the best!



Pasig Transport

Tuesday at 7:31 PM · 🚱

Hello mga kapadyak (at mga soon to be). It's an awesome day for biking 7 The City Council has approved the Pasig Basic Bicycle Network supporting our plans to extend the existing 40kms of bike lanes to close to 150kms!

Here's to safer streets and getting more people to bike.



Republic of the Philippines SANGGUNIANG PANLUNGSOD City Government of Pasig

Resolution No. _ 302



Aldrin Pelicano

Hi. Physical infra po ba ang bike network? Baka puwede nyo pong ilagay sa mapa ang existing 40kms of bike lanes and your planned additional 110 kms of bike paths. (2) Mabuhay kayo!

Instantly ask your question in a message to Pasig Transport and talk to them directly.



Send as Message

Like 22h Reply



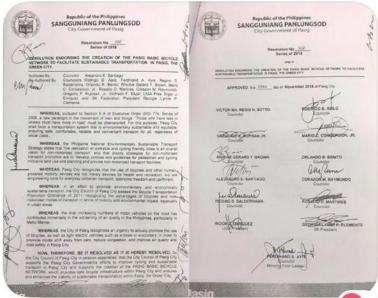
Pasig Transport

Aldrin, sections of the bike lane network will be protected and delineated with physical infrastructure. The City is working with the MMDA on designs acceptable to all stakeholders.

Map to follow!



Pasig Transport Hello Ronx and Aldrin! Here you go!



1d Like Reply



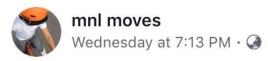


1d Like Reply



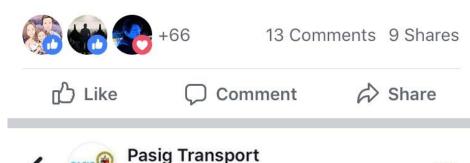
Pasig Transport
You're welcome, Aldrin!

1d Like Reply



Thanks **Pasig Transport** for the feedback. We look forward to the maps!

#publicparticipation #urbanplanning #activetravel #nonmotorisedtransport #bicyclingistransportation #mnlrides #mnlmoves



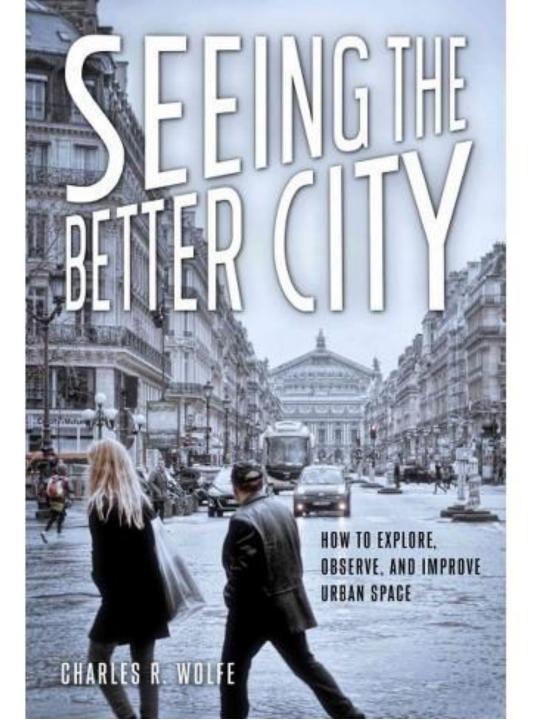


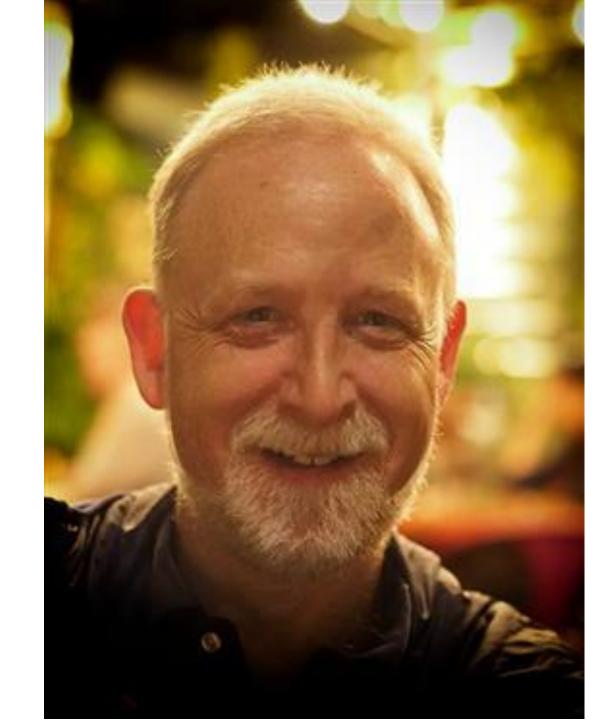
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Here's to safer streets and getting more people to bike.



Public participation 2.0





"Changing the conversation about "what people want" in cities will not be as successful if the people most affected are not engaged."

"City dwellers will only actually see the better city if they feel more involved, regardless of their background, disposition, or profession."

What do we do?

- 1. Street Campaigns
- 2. Safety and Education
- 3. Signature Events
- 4. Policy Work









































BIKING IS AN ESSENTIAL FORM OF TRANSPORTATION



Executive Order PCG-18, Series of 2020 Sangguniang Panglungsod Resolution No. 59, Series of 2020

Executive Order PCG-18, Series of 2020 was signed 25 March 2020 declaring biking as a means of transportation for people making essential travel during the 2020 period of Enhanced Community Quarantine.

This is supported by the Sangguniang Panlungsod through Resolution No. 59 Series of 2020 passed last 30 March 2020.

KEY PROVISIONS



Provision of accessible pedestrian infrastructure

Repair, rehab and upgrade of bicycle infrastructure



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BICYCLE SHOPS CAN OPEN



OPEN

Businesses in the city which are primarily engaged in the repair and maintenance of bicycles, including vulcanizing, as well as the sale of essential bicycle parts and accessories shall be classified as essential business and shall be allowed to operate.







PASIG BIKE SHOPS



BIKEZILLA 1

Unit 4A G/F, Robinsons Cyberscape Alpha, Sapphire Road, Ortigas Center Mon-Sat * 10am to 7pm T: (02) 696 7649 FB: @BikezillaPH

ALL TERRA CYCLERY 2

Ortigas Home Depot, Julia Vargas Ave. Mon-Sat • 10am to 7pm T: (02) 217 6381 FB: @allterracyclery

DECATHLON PASIG 3

L2 Tiendesitas, Ortigas Ave cor E. Amang Rodriguez Ave. Mon-Sun • 10am to 10pm T: (02) 850 3322 FB: @decathlonpasig

SPECIALIZED PASIG 4

Unit R L&Y Plaza #120 E. Rodriguez Jr. Ave. cor. Ortigas Ave. Mon-Sun • 11am to 8pm T: 0995 301 9165 FB: @specializedpasig

B-TEKLETA BIKE PARTS 5

Ortigas Extension, Rosario (across Rosario Catholic Church)

JR AND ADEL BIKE SHOP 6

11 corner Robles St., East Bank Rd., Manggahan Mon-Sun • 6am to 5pm T: 0997 503 5723

HENTESS BIKE SHOP 7

Amang Rodriguez Ave., Manggahan

BEREA BIKE SHOP 8

451-A Amang Rodriguez Ave., Manggahan

BIKE 101 ENTERPRISES 9

F Mariano cor. Marcos Highway Mon-Sat • 9:30am to 6:30pm Sun • 8am to 4pm T: (02) 646 4811 FB: @Bike101Enterprise

WHEEL WORKS KAPITOLYO 10

51 West Capitol Drive, Kapitolyo Mon-Sun • 9am to 7pm T: 0917 303 6832 FB: @wheelworkskapitolyo

M R BICYCLE SHOP 11

397 Dr. Sixto Antonio Ave., Maybunga

TEAM POGI BIKE SHOP 12

232 Dr. Sixto Antonio Ave., Caniogan Mon-Sun • 8am to 8pm T: 0917 793 7083 FB: @teampogibikeshop

HTD BIKE SHOP 13

50 Kalinangan St., Caniogan T: (02) 535 4180

NEW ILOG CYCLE 14

148 Pasig Blvd. Ext., Rotonda Mon-Sat • 6:30am to 6pm Sun • 6:30am to 1pm T: (02) 858 48268

VIKINGS BICYCLE 15

65 A, Dr. Pilapil St., Sagad Mon-Sun • 9am to 7pm T: 0927 303 6471, 0939 755 7395 FB: @sagadbikeshop2018

UNNAMED 16

Dr. Pilapil St. Sagad

CRANKHOUSE PASIG 17

M. Suarez Ave. T: 0917 726 7585 FB: @CrankhousePasig

MARVEL BIKE SHOP 18

193 C. M. Suarez Ave.,

KLK BICYCLE CENTER 19

F9, 192 Market Ave., Palatiw

JUNE TWENTY ONE BIKE SHOP 20

#19 Reagan St. Parkwood Phase 4-A Maybunga Mon-Sun • 7:45am to 5pm T: 0918 783 1251 FB: @JTObikeshop

WHEELS ON FIRE 21

Mercedes Ave., FB: @Wheelsonfireph

LUCAS CYCLE ZONE 22

48 Lope K / Elisco Road, San Joaquin Mon-Sat • 9am to 9pm Sun • 7am to 5pm T: (02) 956 8724 FB: @LucasCycleZonePasig

CATHY BICYCLE SHOP 23

125 Urbano Velasco Ave., Pinagbuhatan T: (02) 8330 5842, 0920 179 6653

CANOY BIKES & ACCESSORIES 24

87 Sandoval Avenue cor. Pag-ibig Homes, Pinagbuhatan T: 0999 681 6212 FB: facebook.com/Canoy-Bikes-401099637415044/

MONGIS BICYCLE SHOP 25

8511 Unit D, Sandoval Ave., Pinagbuhatan Mon-Sun • 7am to 7pm FB: @mongisbicycle



































BIKE TO WORK 03June2019 DAY AT ORTIGAS CENTER, PASIG CITY

Let's celebrate the 2nd World Bicycle Day!

FREE BIKE CHECK AND COFFEE

WITH SUPPORT FROM:



WE'RE **EXCITED TO SEE YOU THERE!**

























world car-Free Day Ride

Let's go on a bike ride! Tayo na mga kapadyak! 6:30 AM | Assembly: Caruncho Ave.

Free Bike Lessons

Finally tick that item off your bucket list! #LifeSkill 07:00AM - 10:00AM | F. Ortigas, Jr. Avenue Bikes will be provided!





















"Beginner's Guide to Cycling as Transport"

Gears To Use, Pre-Ride Preparation, Riding Tips, Readying Your Workplace, etc.

JANUARY 19 · 11:00AM TO 12:00NN · MANDALA PARK

Presented by:

























Screenshot

HOW TO CARRY STUFF ON A BIKE: AN ONLINE FGD

5/19/2020 - 9PM

We invited the following bike commuters to talk about how they carry their daily essentials and other cargo during their bike commute. Join us online on May 19, 2020 9PM



Choi Fante – IT Professional



R A Siy Pasig Transport



Marco Sadsad Project Officer-BPI



Chi Señires Product Manager – Cignal TV



Nerica Joy Sim
ERP implementation consultant



Aldrin Pelicano Moderators



Andro Umali



BIKE SELECTION: THE PROS, THE CONS, AND THE WHYS: AN ONLINE

FGD 5/29/2020 - 9PM

We invited the following bike commuters to talk about why they choose their kind of bike. Join us online at MNL Moves on May 29, 2020 9PM





Nico Tupas First Responder-PRC



Lawrence Celestino, MD Physician



Marco Sadsad Project Officer-BPI



FO 1 JM Siddayao BFP-EMS



Geri Amarnani Executive Assistant- UNFPA



Ronx Ronquillo Software Developer



Eldrin Garcia
Court Employee, RTC-Imus



Andro Umali Moderator







ONLINE CHAT WITH JEFFREY LIM

Jeffrey is an urbanist, cycling activist and advocate in Kuala Lumpur who led the Cycling KL map project.

Join us on 5 May 2020, Tuesday 8:30 PM for a live broadcast via MNL Moves Facebook Page







ONLINE CHAT WITH JIM WARD

Jim is one of the founders of the Daily Cycle Movement (DCM), a bicycle advocacy group in Baguio City.

Join us on 9 May 2020, Saturday 4:00 PM for a live broadcast via MNL Moves Facebook Page





SPOKE SERIES: ILOILO, BIKES AND THE CITY

In this online chat, we are connecting with Iloilo Bike City, a group of urban mobility researchers and transportation planners working towards providing evidence-based mobility planning. More importantly, they are working at present to make Iloilo City more livable, one bike at a time.

Join us on 5 June 2020, Friday 8:00 PM for a live broadcast via MNL Moves Facebook Page



Reji Pachoco - Urban Planner



Kit Cameña – Urban Planner, Architect





Embassy of the Netherlands in the Philippines

16 January · 🗘

Today, we had an interesting discussion with Aldrin Pelicano, a cyclist, urban planner, and blogger who runs **mnl moves**, who is helping to grow awareness of **#cycling** as a sustainable transport solution.

Together we had a lively discussion on the future of cycling in the Philippines, and shared information about the **Dutch Cycling Embassy** and how we hope to grow cycling in the Philippines.

Looking forward to deeper discussions Aldrin!







Embassy of the Netherlands in the Philippines

Page Liked · May 1, 2019 · 🌣

Happy Labor Day!

We at the Embassy are celebrating by working today, () but we hope some of you are enjoying this Philippine public holiday by enjoying the outdoors through #cycling!

The Embassy in Manila met once more with Aldrin Pelicano of mnl moves, who we met in January to discuss potential activities with the Dutch Cycling Embassy to promote cycling not just for sport, but for everyday transport. Our colleague Luuk Rietvelt, an avid cyclist, was happy to share ideas as well.

We are now moving further to develop public diplomacy events and are quite excited! Stay tuned.



CONTROL You and 293 others 35 Comments 44 Shares





Comment



Share









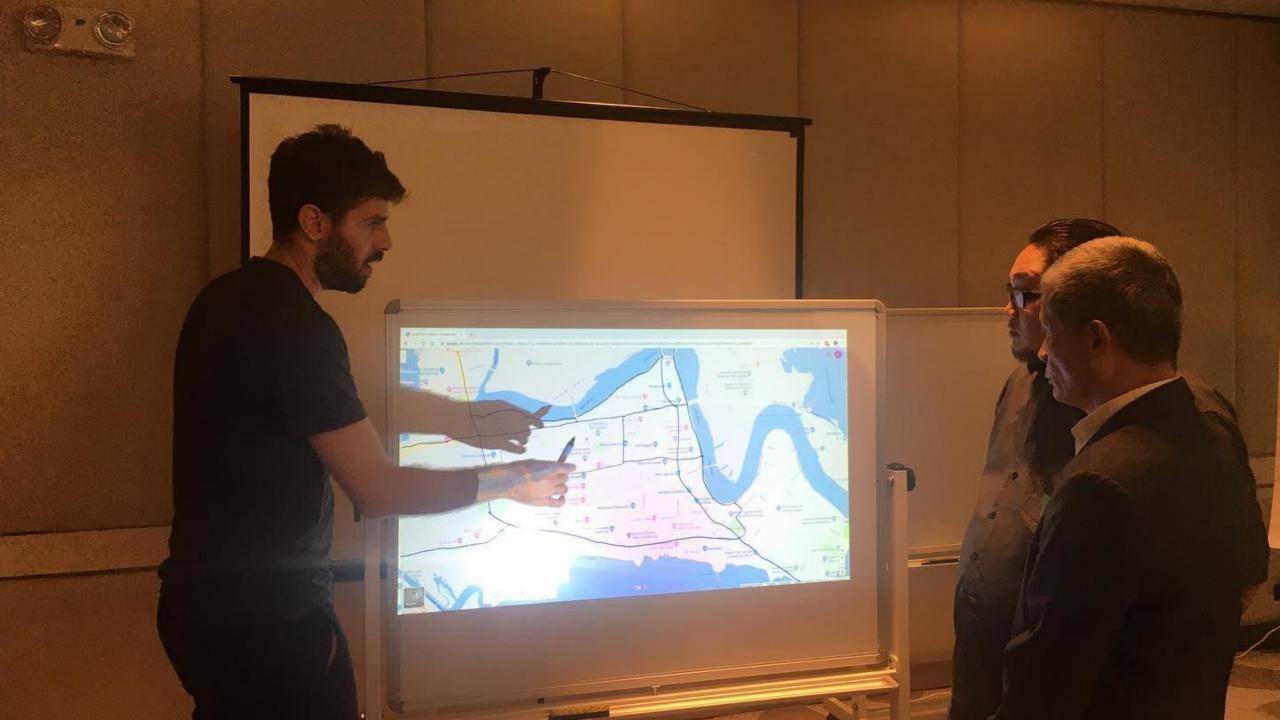


















WHY WE



"WHY WE CYCLE" BY ARNE GIELEN AND GERTJAN HULSTER 2017, 57 MINUTES

Synopsis:

To the Dutch, cycling is as normal as breathing. We don't think about it, we just do it. Perhaps the fact that we don't think about it, is the key to the bicycle's success in this country. But because we do not give cycling a second thought, we don't really know what the deeper needs of cyclists are. In the documentary 'Why we cycle' we take a ride with ordinary cyclists and specialists from a variety of disciplines. These

conversations uncover some obvious, but even more hidden effects of cycling on people, on societies, and on

the organization of cities.

Schedule: 02.00 - 03.30 PM

03 DECEMBER 2019, TUESDAY

WHYWE

Faculty of Civil Law Auditorium

Screening followed by a special forum on SDG 11: Sustainable Cities and Communities

- 04.00 PM 07 DECEMBER 2019, SATURDAY

Gateway Cineplex Cinema 4



Kingdom of the Netherlands

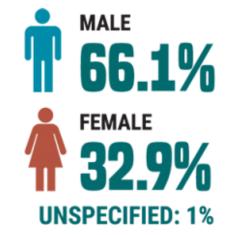
#TodayisourFuture #SDGFilmFestPH











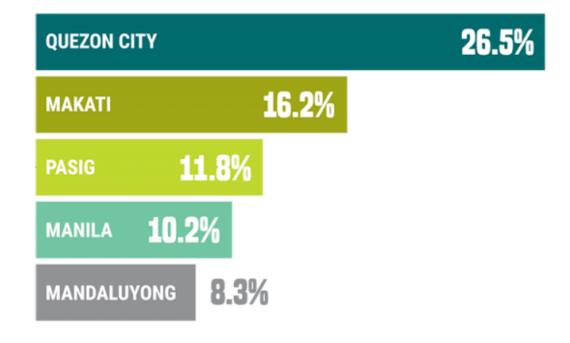
AGE RANGE

16 - 65

MEAN AGE

34 Y/0

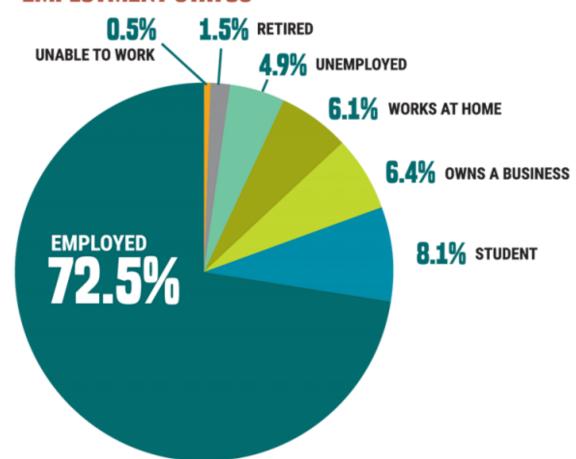
RESPONDENTS ARE RESIDENTS OF







EMPLOYMENT STATUS





72%

of the respondents
do not think that
current (or existing)
sidewalks in Metro
Manila are of good
quality



63%

of the respondents do not think that there are enough sidewalks in the city where they live



62%

of the respondents
do not think that the
current infrastructure
of sidewalks are
adequate in the city
where they live



of the respondents do not think that it is safe to walk in the city where they live



TOP MOTIVATIONS FOR WALKING

FOR HEALTH REASONS	67%
TO SAVE TIME (AVOID TRAFFIC)	64%
TO DO ERRANDS	63%
FOR WORK 17%	

TOP PROPOSALS TO PROMOTE WALKING IN METRO MANILA

WELL CONNECTED SIDEWALKS AND FOOTPATHS	49 %
WIDER SIDEWALKS	47%
BETTER ENFORCEMENT 51%	_





80% of the respondents do not think that current (or existing) bicycle lanes in Metro Manila are of good quality

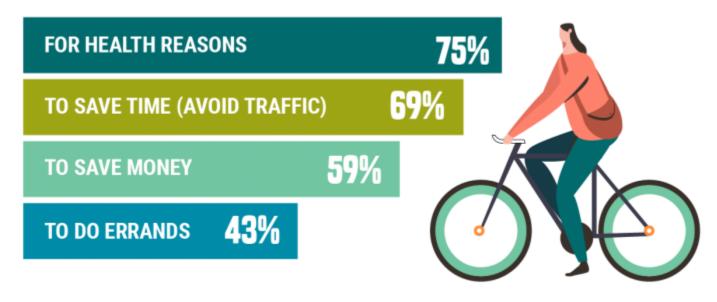


of the respondents do not think that it is safe to cycle in the city where they live



of the respondents disagree that there are enough facilities present at school or work where they can change after cycling.

TOP MOTIVATIONS FOR CYCLING



TOP PROPOSALS TO IMPROVE CYCLING IN METRO MANILA

CONNECTED BIKELANES ACROSS **METRO MANILA CITIES**

68%

SEGRAGATED BIKELANES

65%

BETTER FACILITIES AT WORK/SCHOOL

44%

BETTER BY BICYCLE

Metro Manila Bike Lane Network











Building a Cycling Metro Manila

Aldrin Pelicano