

## PIARC



# PIARC Webinar COVID-19 and Road Safety 15 July, 2020

Welcome!

#### **Our Speakers today**

- Patrick Malléjacq Secretary General, PIARC
- John Milton, USA Washington State DoT, Chair of PIARC TC 3.1 on Road safety
- Rob McInerney, iRAP
- Jun Takeuchi, Japan Technical Advisor seconded to PIARC
- Mariusz Kieć, Poland Cracow University of Technology
- Jaime Campos Canessa, Chile Dirección de Vialidad
- Christos Xenophontos, USA Rhodes Island DoT, Chair of PIARC TC 1.1 on Performance of Transport Administrations

#### Participation in the webinar.



Your camera and microphone must remain off.



You can ask questions in the chat. At the end of all presentations, Christos Xenophontos will check the chat and ask questions to the panelists.



A limited number of questions can be answered due to the large number of participants.



Tip: Close the chat window to see the full presentations.











#### Introduction to the Webinar

Patrick Malléjacq
Secretary General, PIARC

**#PIARCCOVID19** 



#### **Basic rules for Zoom on line meetings**



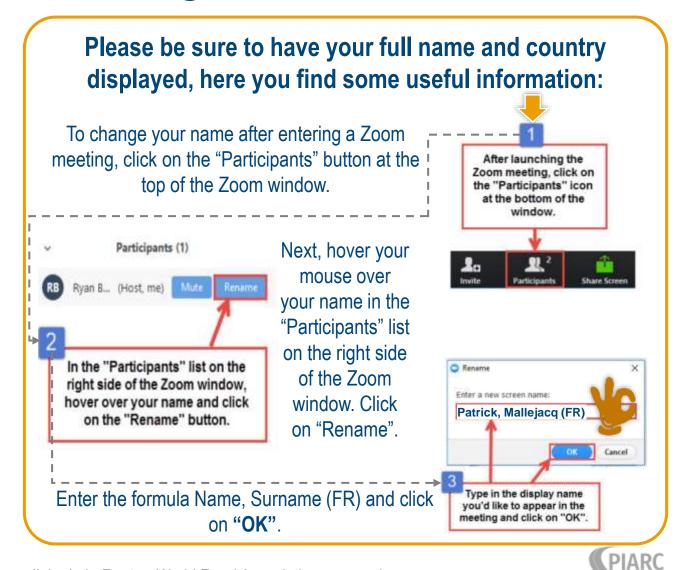
There will be presentations so be sure to access from a device that allows you to see visuals (i.e. a laptop or ipad)



Please mute yourselves and keep
the video off during the
presentations to avoid background
noises and connection overload



Use the chat functionality and ask questions at any time. We will collect them and direct them during the Q&A session



#### How to ask a question, raise an issue, or share a practice?

- This is strongly encouraged!
- Only questions that are specific to roads or road transport
- Use the "Q&A" button
  - ⇒If you want to direct the question to a panelist, start with "Question to..."
  - ⇒Use English language
- You can also use the "Chat" feature of Zoom
  - ⇒It can be found at the bottom right of the main window under "..."
  - ⇒Send a message to "All participants" (this is one of the "chat" options)
- That channel is monitored by Christos Xenophontos (Chair of PIARC TC 1.1)



#### **About your name in Zoom**

- We recommend that participants accurately name themselves in the Zoom application:
  - First Name Last Name Country

This fosters interaction between participants



#### Participation in the Webinar

This Seminar is being recorded and will be made public on PIARC's website and YouTube channel.



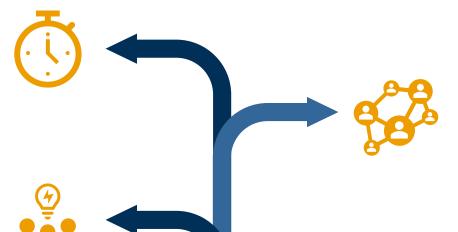


#### **Key Concept: Focus on the short-term**

The world is going through a crisis and every day counts.

This is knowledge and practice that is not yet confirmed as valid or effective.

A good idea now can save lives, improve business resilience and could minimize disruption of service.



Urgently share knowledge and practices among PIARC member countries to provide support in near real-time.



What works in one country may not work in another, but it can inspire you.

**Note:** PIARC is also working on the medium and long term, for when the pandemic is in a manageable state and substantially under control.

#### **Disclaimer**

Since time is of the essence, it is likely that knowledge and practice that is shared will not have been officially approved by each country's official authorities.

"The ideas and examples shared here are for illustration only. They do not necessarily represent official policy. Ideas presented will be subject to further evaluation and use in deriving recommendations on policy and practice in due course. While care has been taken in the preparation of this material, no responsibility is accepted for any damage that may be caused."



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#### **Agenda and Structure**

- Brief introduction to PIARC
- Issues faced by Road Operators and Administrations
- Panelists' Presentations
- Q&A

Conclusion and Next Steps









## **Institutional Presentation of PIARC**

Patrick Malléjacq
Secretary General, PIARC

**#PIARCCOVID19** 



#### What is PIARC?

- PIARC is the new name of the World Road Association
- We were founded in 1909 as a non-profit, non-political association
- Our goal is to organise exchange of knowledge on all matters related to roads and road transport
- We have 124 member governments, as well as regions, groups/companies and individuals.
- It is the first global forum for the exchange of knowledge, policy and practice on roads and road transport.



#### **PIARC's four key missions**

 Be a leading international forum for the analysis and discussion of the whole spectrum of transport issues related to roads and road transport.

Identify, develop and disseminate good practices and give better access to international information.



economies in transition fully.

Consider within our activities the

countries

with

and

of

developing economies

needs



 Design, produce and promote efficient tools for decision making on matters related to roads and road transport.

The Association mobilizes the experience and knowledge of 1,200 experts from more than 80 countries in 22 Technical Committees and Task Forces.



#### PIARC COVID-19 website

https://www.piarc.org/es/actualidad-agenda-PIARC/Coronavirus-PIARC-y-COVID-19

- The recordings of the Online Seminars "COVID-19 and roads"
  - 10 in English, 4 in Spanish and 3 in French so far
- The presentations of these seminars
- PIARC Technical Reports related to pandemic management









PIARC

#### Two synthesis Notes are available

- These Notes present the emerging findings from the first Webinars.
- They are relevant for the road community and may be useful to inform planning and operational decisions that have to be made on the ground urgently.
- Available from <u>www.piarc.org</u>
  - Free
  - In English, Spanish and French









#### **Key issues on COVID-19 and roads**



Ensure as far as possible the health and safety of employees and road users



Response to impact on transportation



Relationships and collaboration with customers, users and other interested parties



Maintain activity and continuity of service



Manage impacts on the economy and supply chains; Revive the economy after the crisis



Security (including cyber security)



#### Thank you for your attention



#### Patrick Malléjacq

PIARC Secretary General

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92055 – La Défense Cedex – France



@PIARC\_Roads





World Road Association PIARC



World Road Association PIARC

www.piarc.org















### **COVID** and Road Safety, experience in the US

John Milton, PhD, PE, RSP2I, PTOE

Chair, PIARC TC.3.1 Road Safety Committee

Road Safety and COVID Webinar July 2020

#### **Profile**

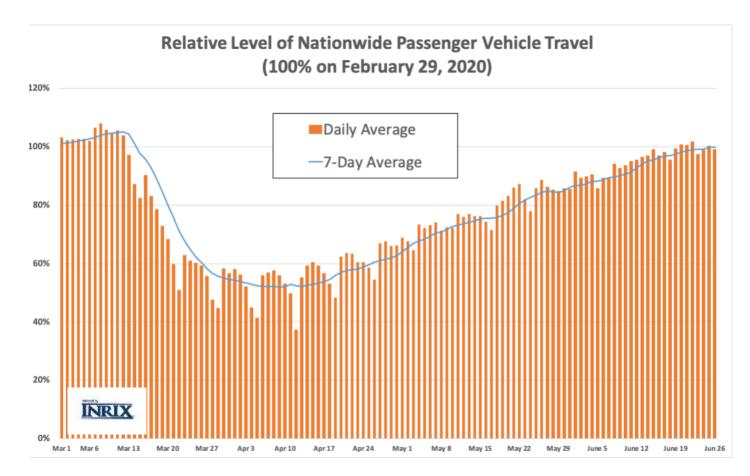
- John Milton
- Chair, PIARC TC .3.1 Road Safety Committee
- Washington State Department of Transportation, State Safety Engineer
- Transportation Engineer with 32 years of road authority, research, design and operations of transportation systems



#### **USA Travel Volume Impacts of COVID 19**

**Latest Synopsis:** 

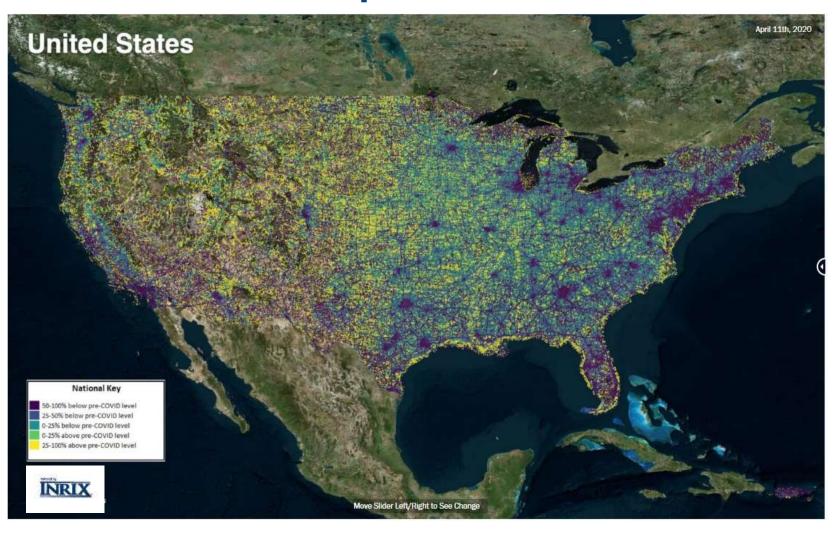
INRIX United States National Traffic Volume Synopsis Issue #15 (June 20 - June 26, 2020))



- States operate with guidance from the Federal Government
- States level decisions are made through the executive authority of each State's Governor.
- 50 states + 2 territories



#### **United States 11 April 2020**

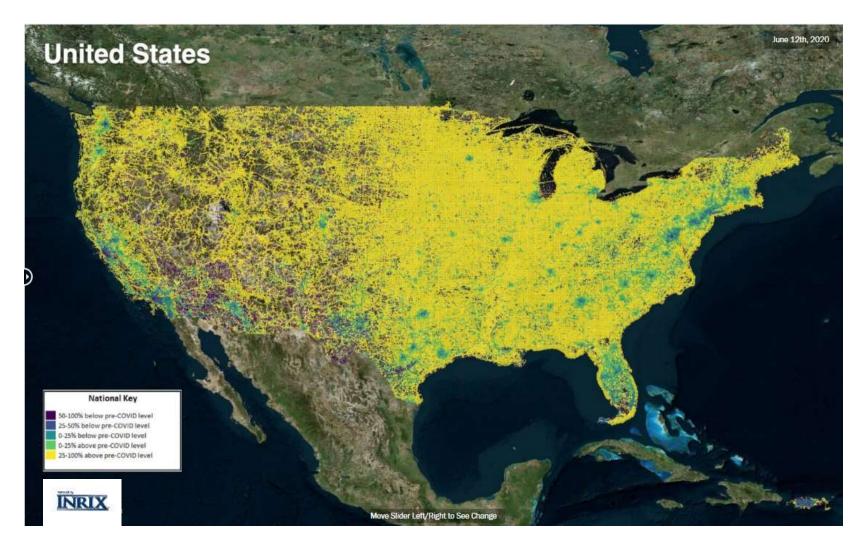


- Most states are under some form of stay at home orders
- Rural states in general are less restrictive
- Washington and northeastern states most aggressive response to COVID\*



<sup>\*(</sup>www.usnews.com, 17 march 2020)

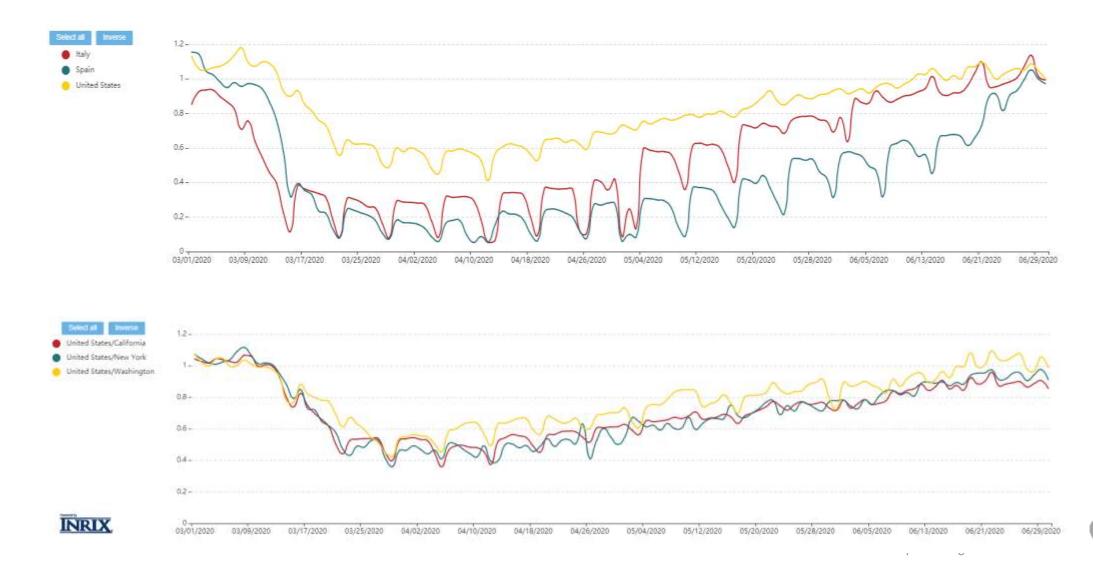
#### **United States 12 June 2020**



- Most states begin reopening in June
- July Coronavirus surge
- Some states are beginning to shut down due to surge



#### **European and US comparisons**



#### **Governor Highway Safety Association**



Reckless **Driving Soars** During COVID-19 **Pandemic** 

#### AS PEOPLE HAVE BEEN

sheltering in place during the COVID-19 pandemic, traffic on U.S. roadways has dropped to: unprecedented levels. That's generated some unexpected benefits for motorists - lower gas prices, rebates on auto insurance premiums and reduced travel times. But some motorists are taking advantage of the latter to drive faster - much faster, according to law enforcement officials across the country. While | respect traffic safety laws.

police are issuing citations to motorists traveling 20, 30 and even 40 mph over the posted limit, they're also clocking drivers going 100 mph or more.

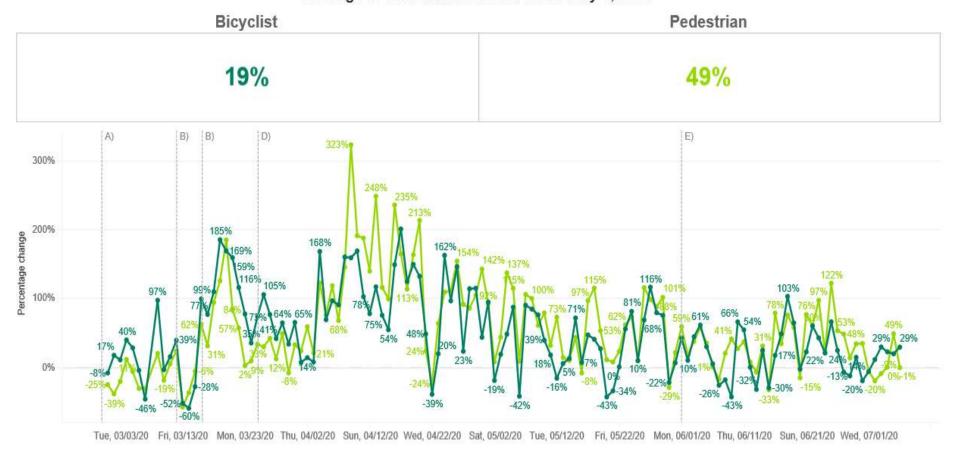
These reports prompted GHSA to issue a news release in mid-April, calling attention to this alarming increase in speeding State Highway Safety Offices, meanwhile, began pleading with motorists to slow down and

- **Faster Driving**
- California decline 50% in fatalities and serious injuries
- Minnesota and Massachusetts have doubled compared to last year
- Nevada and Rhode Island pedestrian crashes increasing
- Walking and biking increase as transit decreases 73%



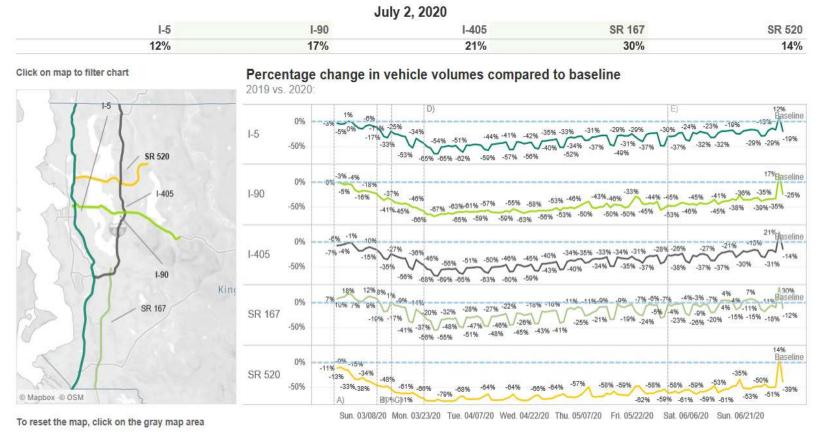
#### Bicyclists and pedestrians above baseline

Average of data from selected sites: July 5, 2020





#### Traffic remains below baseline



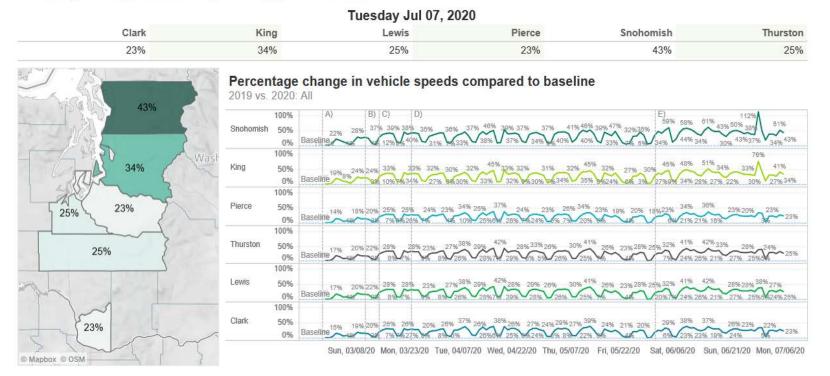
 Dropped in volume in major counties between -10% to -22% and one county -1%

A) 2/29 - State of Emergency declared B) 3/12 - Schools Closed C) 3/16 - Ban on gatherings of 50+ people D) 3/25 - Stay Home, Stay Healthy order goes into effect E) 6/1 Stay Home, Stay Healthy order expired. Note: There are some irregularities in the King County data due to the May 30, 2020 closure of I-5 during protests.



#### Washington State speed increases

#### Percentage change in vehicle speeds compared to baseline



- Speeds up 23-43% during reopening.
- Significant Speed increase in many spot locations.

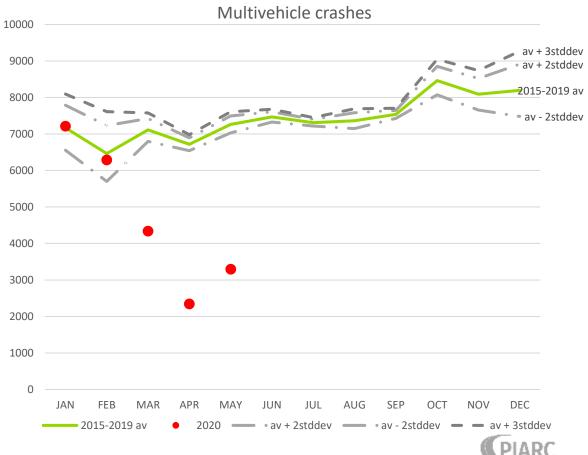
A) 2/29 - State of Emergency declared B) 3/12 - Schools Closed C) 3/16 - Ban on gatherings of 50+ people D) 3/25 - Stay Home, Stay Healthy order goes into effect E) 6/1 Stay Home, Stay Healthy order expired Note: There are some irregularities in the King County data due to the May 30, 2020 closure of I-5 during protests.



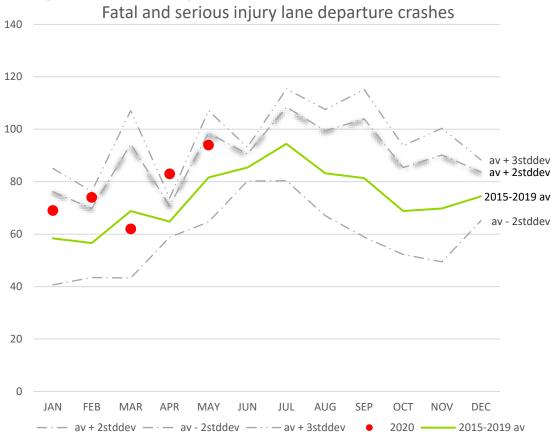
#### Overall crashes decreased

#### All crashes (all severities) 16000 14000 av + 2stddev 12000 2015-2019 av 10000 6000 4000 2000 2020 — · — av + 2stddev — · — av - 2stddev — · · — av + 3stddev — — 2015-2019 av

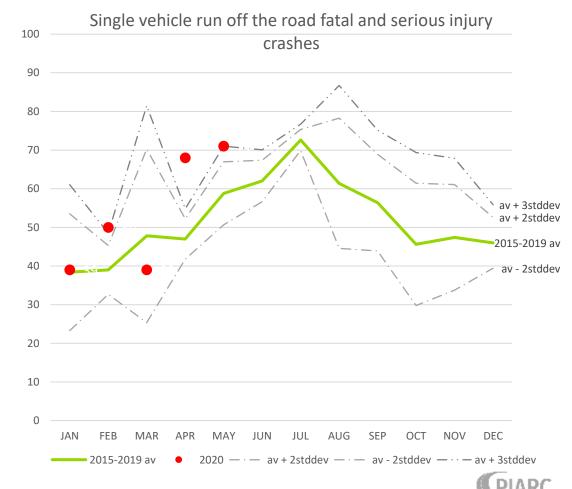
## Multivehicle crashes decreased



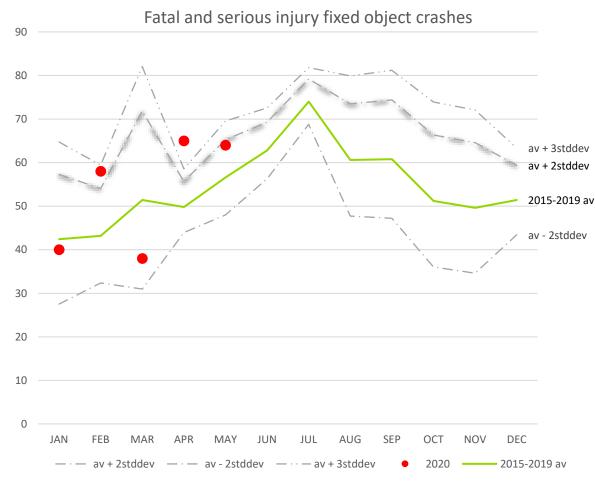
## Run off the road and opposite direction crashes increased significantly



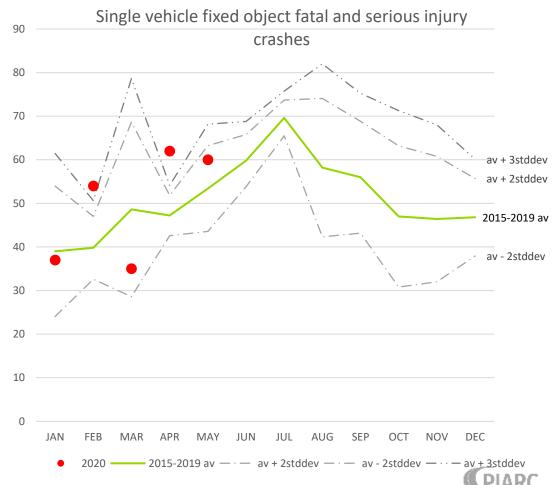
### Single vehicle run off road crashes increased significantly



### Fatal and serious injury fixed object crashes increased significantly



## Single vehicle fixed object fatal and serious injury crashes increased significantly



#### **Opportunities PIARC Road Safety Manual**

- Safety Management through Safe Systems (Chapter 4)
- Use of Safety Data (Chapter 5)
- Monitoring, analysis, and evaluation –
   Chapter 12
  - Drop in traffic due to COVID has shown an increases in run off road and fixed object crashes
  - Crashes appear to be occurring on local roads that have less available clear zone.





#### **Opportunties PIARC Road Safety Manual**

- Designing for Safe Behavior (Chapter 8)
  - Speed Management
  - Roadside fixed object (Chapter 9)





#### Thank you for your attention!



#### **John Milton**

Chair, TC.3.1 Road Safety

Washington State DOT, USA

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Association PIARC



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www.piarc.org















#### **COVID-19 Stimulus to Save Lives**

Rob McInerney
iRAP CEO

Road Safety Webinar July 2020

## **Profile**

- Rob MCINERNEY
- CEO of iRAP
- TC C1 Road Safety Committee English Speaking Secretary 2015-2019
- Civil Engineer with 25 years of road authority, research, industry and international development experience



## **COVID-19 Stimulus to Save Lives**

- PROTECTING LIVES & LIVELIHOODS
- GLOBAL POLICY TARGETS
- BUSINESS CASE FOR INVESTMENT
- CELEBRATING SUCCESS







## **IRAP GLOBAL ROAD AGENCY PARTNERSHIPS**





















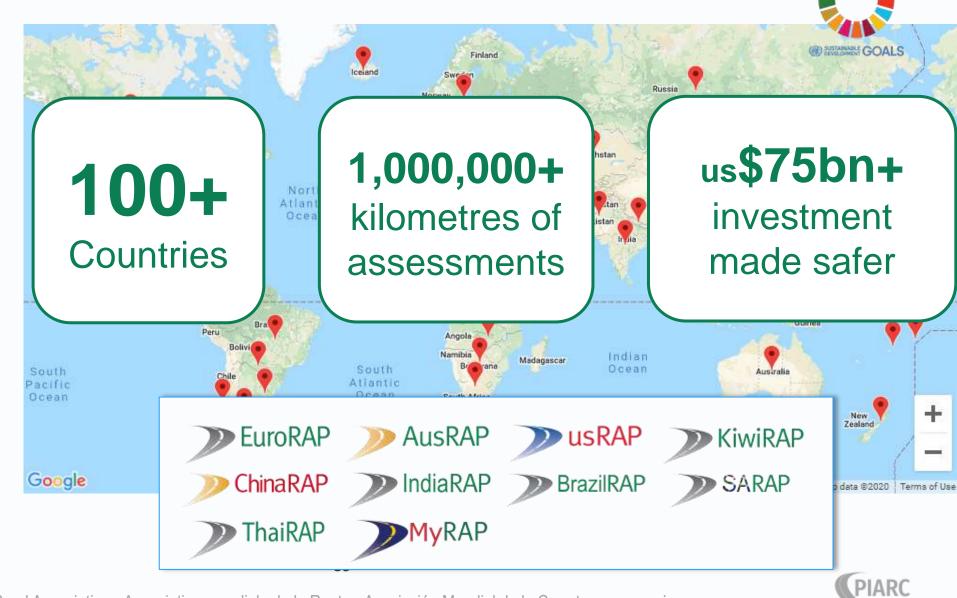












### **GLOBAL PANDEMICS**

COVID-19 (DAILY AVERAGE TO JUNE 30 2020)

## ROAD TRAUMA (DAILY AVERAGE TYPICAL YEAR)

Cases	Count
Total confirmed cases per day	≈55,000
Lives lost per day	≈2,800

Cases	Count
Total confirmed cases per day	100,000+
Lives lost per day	3,700+

80% recover with no treatment

20% require hospital care

Recovery - 2 weeks for mild cases

Recovery - 6 weeks for severe cases

Fatal outcomes for ≈1 in 20 cases





Brain Injuries\* 7,500+

Spinal Injuries\* 1,000+

Fractures\* 25,000+

Internal Injuries\* 9,000+

Degloving\* 900+

https://covid19.who.int/

See <a href="https://www.vaccinesforroads.org/global-impact-of-injuries/">https://www.vaccinesforroads.org/global-impact-of-injuries/</a> for the impact in your country

## **IMMEDIATE ROAD SAFETY IMPACTS**



















Public transport

Retail and recreation

-39%

-57%

compared to baseline

compared to baseline

Source: Google Community Report (8th July 2020)

1,500,000+

speeding fines in Delhi during 3 month lockdown

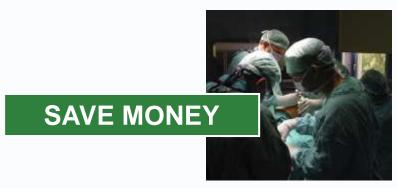
Source: <a href="https://www.thehindu.com/news/cities/Delhi/traffic-violations-rise-on-empty-roads/article31884769.ece">https://www.thehindu.com/news/cities/Delhi/traffic-violations-rise-on-empty-roads/article31884769.ece</a>



# PROTECTING LIVES AND LIVELIHOODS INVESTMENT OPPORTUNITY FOR ROAD AGENCIES

- Road trauma impacts hospital capacity
- Road trauma is preventable
- Road solutions are proven and cost-effective
- Treatments are quick to plan and build
- Treatments can create jobs country-wide





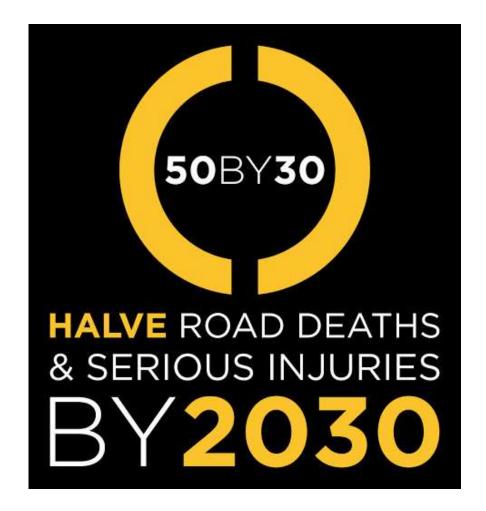


### THE 2030 TARGETS











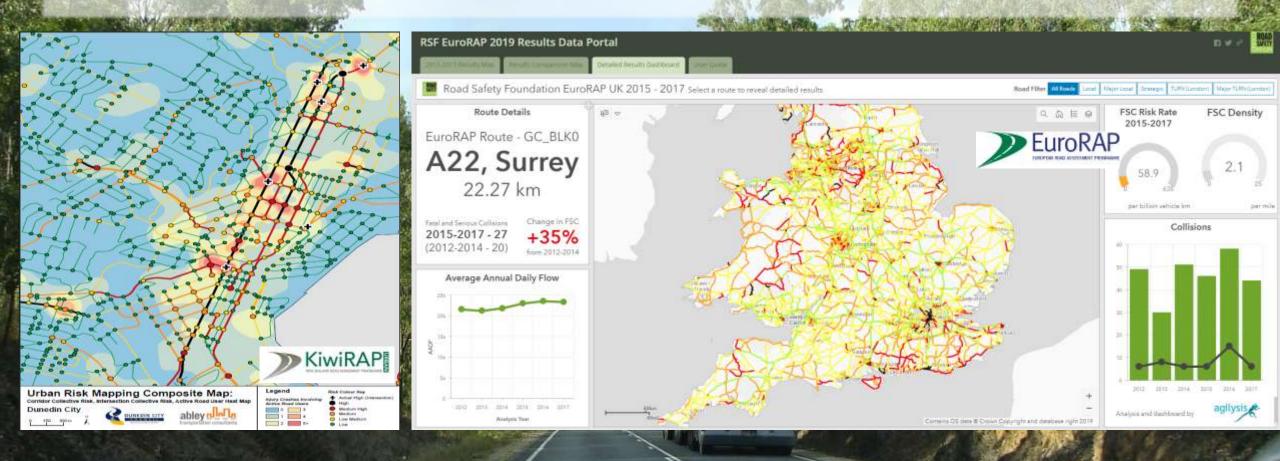
Target 3: By 2030, all new roads achieve technical standards for all road users that take into account road safety, or meet a three star rating or better.



Target 4: By 2030, more than 75% of travel on existing roads is on roads that meet technical standards for all road users that take into account road safety.



## WHERE TO INVEST BASED ON CRASH HISTORY

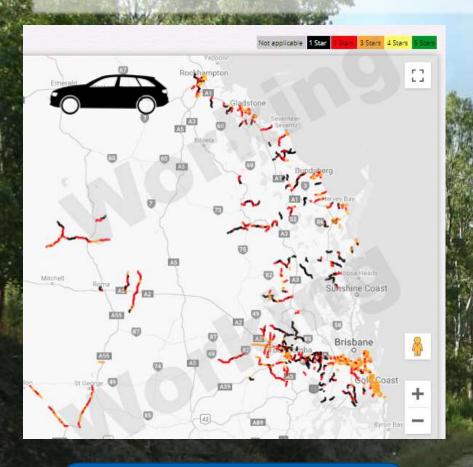


**SAVE LIVES** 

**SAVE MONEY** 

**CREATE JOBS** 

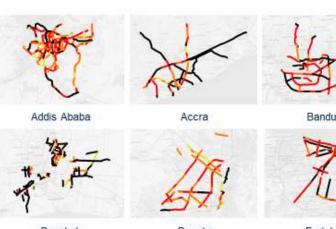
## WHERE TO INVEST BASED ON ROAD USER NEEDS



How does my city compare to others?

**Pedestrian Star Ratings** (before changes were made)

















**SAVE LIVES** 

**SAVE MONEY** 

2 stars 3 stars 4 stars 5 stars N/A

**CREATE JOBS** 

## THE RETURN ON INVESTMENT

Treatment	BCR	People saved
Roadside barriers	8	4,057
Traffic calming	14	1,609
Footpaths	5	2,750
Delineation	12	6,202

Nigeria	
Annual number of fatalities (WHO, 2015)*	39,802
Population	185,989,632
Fatalities per 100,000 population	21
Annual number of fatalities and serious injuries	437,822
Annual cost of fatalities and serious injuries	\$21,529,924,711
Annual cost of fatalities and serious injuries (% of GDP)	5.3%

## What can be achieved with >75% of travel on 3-star or better roads for all road users by 2030

\$3,767,400,000	
0.07%	
13,471	
2,963,718	
\$108,721,175,093	
29	
	0.07% 13,471 2,963,718 \$108,721,175,093

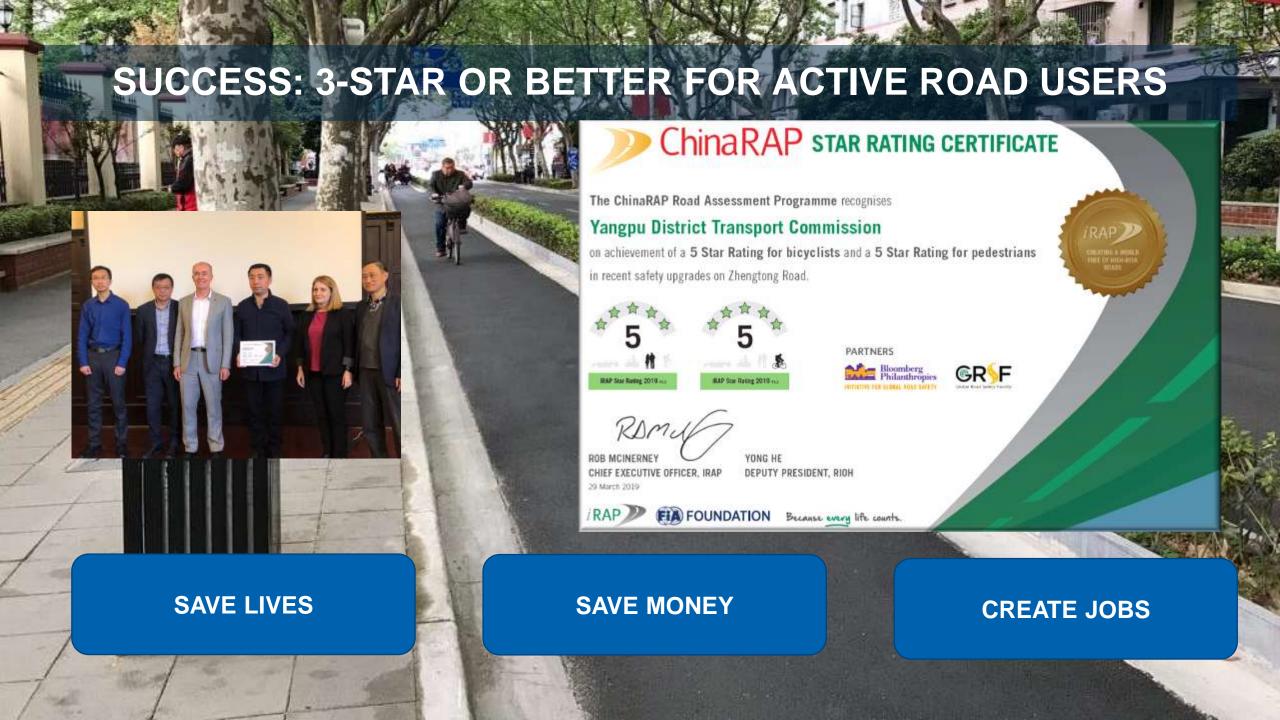
\* Full assumptions and national snapshots are available at www.vaccinesforroads.org. All cost figures are expressed in US dollars. Global data that is available and consistent has been used for the business case for safer roads. Where more accurate national or local data is available that should replace this analysis

**SAVE LIVES** 

**SAVE MONEY** 

**CREATE JOBS** 

https://www.vaccinesforroads.org/business-case-for-safer-roads/



## **SUCCESS: 3-STAR OR BETTER FOR CHILDREN**



**Pre-modification** 

**Post-modification** 

\*\*

**Ket Doan** 

Mach Kiem Hung

Pham Van Chi

Hung Vuong



\*\*













ST R RATING

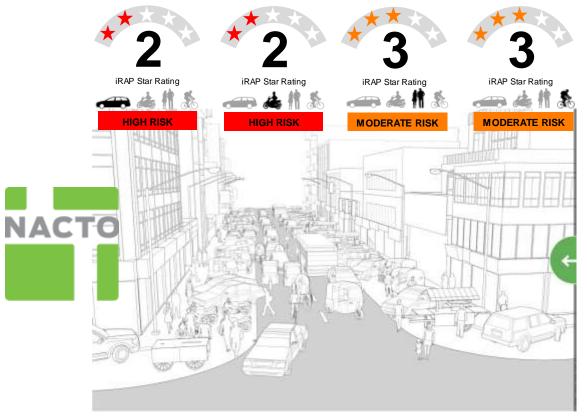
**SAVE LIVES** 

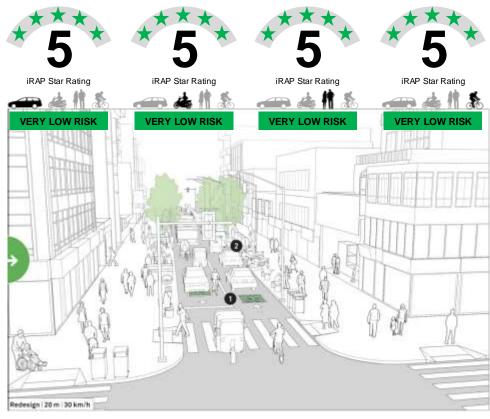
**SAVE MONEY** 

**CREATE JOBS** 

https://www.starratingforschools.org/

## SUCCESS: 5-STAR CITIES FOR ALL ROAD USERS





https://globaldesigningcities.org/publication/global-street-design-guide/streets/avenues-and-boulevards/central-two-way-streets/example-1-20-m/

**SAVE LIVES** 

**SAVE MONEY** 

**CREATE JOBS** 

PIARC

## SUCCESS: 3-STAR OR BETTER FOR MAJOR HIGHWAYS



Concessão de 1.273 kms de rodovias entre

Piracicaba e Panorama na divisa com MS prevê investimentos de R\$ 14 bilhões

Edital prevê mais de 600 kms de duplicação e implantação de novas pistas. Concessão terá um modelo inédito de desconto progressivo no pedágio conforme o uso, além de outras inovações



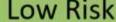
2+1, together with mapping of the location where this design has een installed. Lanes alternate, with either 2 lanes or 1 lane in each



to provide overtaking opportunities in both directions. This 2.4km road section near Vannebergs in southern Sweden (see https://goo.gs/maps/ 4,7304SSWGyV6NAB) is carrying approximately 14,700 vehicles per day. A typical cross-section of the 2+1 design is shown in Figure 4.













**SAVE LIVES** 

**SAVE MONEY** 

**CREATE JOBS** 

## SUCCESS: RESULTS BASED FINANCING FOR THE 2030 TARGETS

2030

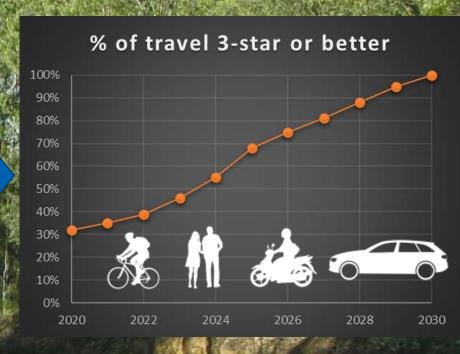
Efficiency

Scale

Cost



RESULTS
BASED
FINANCING



**SAVE LIVES** 

**SAVE MONEY** 

**CREATE JOBS** 



#### https://roadsafety.piarc.org/en



## RESOURCES READY TO HELP



The Ten Step Plan for Safer Road Infrastructure



#### GLOBAL ROAD SAFETY PERFORMANCE TARGETS





Target 7: By 2650; tocrease the proportion of nutrarycle ridors correctly using standard belones to disor to 100%.

Target 3: By 2030, all new

took athiese technical

standards for all road

account read safety, or

meet a three star taking

wenther tale into



Reget 4: By 2000; more

execting much it on roads

than 25% of travel on

standards for all made

sales that take into

account read safety.



Target 9: By 2010, halve the number of road traffic injuries and fatalities related to drivers using alcohol, and/or achieves a reduction in those related to other psychoctive substances. Target 10: By 2000, all countries have national land to metrics or prohibit the use of mobile observe.

Target 2: By 2000, all

countries accede to ane

armore of the care road

safety-related \$6 legal

speed limit and achieve

areduction in speed

related injuries and

larget 11: By 2000, all combine to enact regulations for driving time and rest periods for professional dissum, and/or ascele to international/implicated regulation in this arm. larget 12: By 2010, all countries establish and achieve national targets in order to minimize the time interval between read tooffe carch and the provincion of first professional emergency

FIGUR Influed solvy consupressed PROME 2 Labor mosts and mediting in PROME 2 Laboration in PROME 4 Laboration of the PROME ACT IN INC. In Proceedings of the Conference of the

Following the request of the United Nations General Assembly, on November 22, 2017 Member States reached consersos on 12 global road safety performance targets. For more informations https://www.whm.in/i/violense\_ injury\_preyriation/soad\_statis-insad-safety-segratury.



https://www.who.int/roadsafety/publications/en/

https://www.vaccinesforroads.org/

## **COVID-19 STIMULUS TO SAVE LIVES**

## https://www.vaccinesforroads.org/





**SAVE LIVES** 





**SAVE MONEY** 





**CREATE JOBS** 



## Thank you for your attention!



**Rob McInerney** 

**CEO iRAP** 

rob.mcinerney@irap.org @iRAPRob https://www.irap.org/

https://www.vaccinesforroads.org/

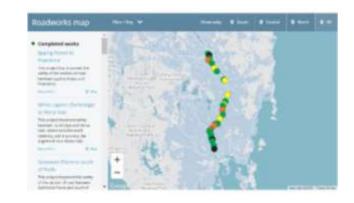
https://vida.irap.org/

https://www.starratingforschools.org/

https://roadsafety.piarc.org/en



Image Credit: Revista Vial (Road Magazine)













# PIARC COVID-19 Impact on Transportation in Japan <Second Presentation>

Jun TAKEUCHI

Japan

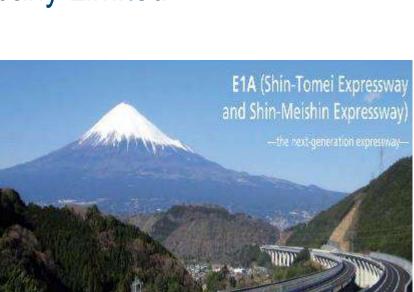
Webinar

**July 15, 2020** 

## **Profile**

- Jun TAKEUCHI
  - Technical Advisor at the PIARC General Secretariat from November 2019
  - Director of Human Resources Division and International Affairs Division, Central Nippon Expressway Company Limited (NEXCO-Central), Japan
  - Civil engineer







## **Confirmed cases in Japan**

#### **Confirmed cases (daily total)**

(As of July 5, Deaths=976)

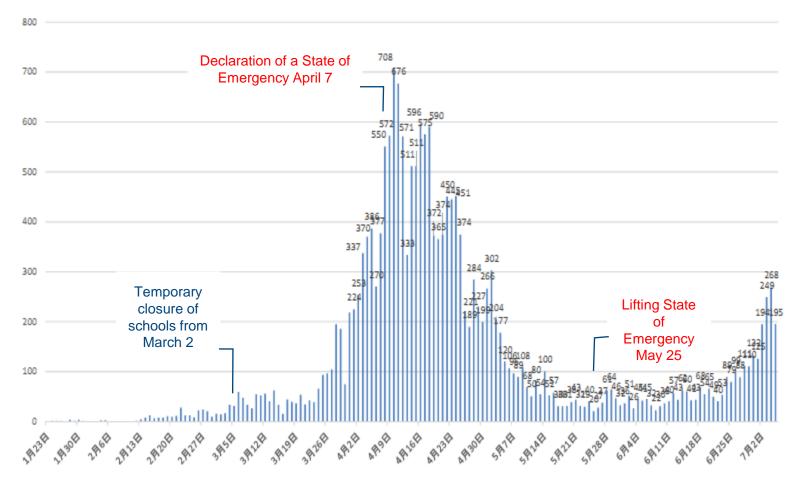
#### **Confirmed cases (by prefecture)**



https://mhlw-gis.maps.arcgis.com/apps/opsdashboard/index.html#/c2ac63d9dd05406dab7407b5053d108e

Cut the peak of newly infected cases and prevent the breakdown of medical system, through the approach called "Avoid the Three Cs"

\*3Cs: Closed spaces, Crowded places, Close-contact settings







## Declaration of State of Emergency (April 7, and April 16, 2020)

- April 7, 2020
  - Effective in <u>7 prefectures</u>: Tokyo, Kanagawa, Chiba, Saitama, Osaka, Hyogo and Fukuoka
- April 16, 2020
   Effective in all 47 prefectures
- Overview of the State of Emergency
  - The Act on Special Measures for Pandemic Influenza and New Infectious Diseases Preparedness and Response does not provide curfew.
  - In case of Tokyo, <u>residents are strongly requested to stay home</u>, except essential activities such as receiving medical treatment, buying food, and going to work.
  - Private companies are requested to refrain voluntarily from their businesses, and however <u>transport companies are</u> <u>requested to continue their services</u>.
- May 14, May 21
  - The number of prefectures that State of Emergency applied decreased to 8, and then, 5.
- May 25
   Lifting of the state of emergency was declared.

#### Initially declared for seven prefectures



Source: https://www3.nhk.or.jp/nhkworld/en/news/backstories/101



## Road Administration Policy for Realizing "New Normal"

With COVID-19: Road administration policy to prevent the spread of infection and maintain socio-economic functions

1 Stay-at-Home request and Use restriction of road facilities

#### Request Closure of Restaurants in Rest Areas Stop Holiday Discount for Expressway

- -Temporarily closed at 133 locations (As of April 28)
- -Stop holiday expressway discount from April 29 to June 14 to minimize wide area movement

#### Close Down Parking Areas

- Temporarily closed parking areas that have been used mainly by tourists with little impact on freight traffic
- Roadside-station temporarily closed and reduced usable areas at 55 locations
- Compact parking areas temporarily closed at 72 locations (As of May 2)

## Publicize the Change in Traffic Volume

-From April 25 to May 6, expressway traffic decreased by 30% compared to 2019

#### 2 Road Maintenance and Operation

#### Road Management

-Continue Road Maintenance & Management, **Expressway Toll Collection** 



Expressway Toll Collection> \*Confirmed infection of 9 Toll Collectors (As of May 1

#### Roadside Stations

-Provide takeout Meals and sell handmade masks



< Support Daily Lives of Local Residents >

#### Freight Traffic

-Continue operating Gas Station, Shower Service, etc. for drivers at Rest Areas as usual

#### • Temporary Use of Sidewalk as Countermeasure for 3Cs\* at Restaurants' Reopening

- Continuous Monitoring and Quick Publication of Travelling History of Vehicles (ETC2.0 data)
- Establish Toll System to Control Traffic Volume in Case of Emergency (on toll roads) \*3Cs: Closed spaces, Crowded places, Close-contact settings





<Temporary Use of Sidewalk for Restaurants (Saga pref.)>

#### Digitalization of Maintenance Management

- -Measure/monitor road structures -Use remote-control system (remote-control gate)
- -Develop the advanced road patrol measure
- Online Application for Permission for Road Occupation, Special Vehicle.)

(Certify "Roadside Station for Disaster Prevention, in terms of Communication Facility [5G] and Stock of necessary materials)

- Promoting Bicycle Commute
- -Encourage companies, organizations -Develop cycling space -Expand shared bicycles
- Automated Toll Collection (Only vehicles with ETC are available)
- Promoting Cashless/e-Commerce at Roadside Station
- Increase the Number of Parking Lots, and Introduce New Parking Reservation System\* \*For Double Articulated Truck
- Reinforce Function as Disaster Prevention Base at Roadside Station



<Bicycle Lane (Hakusan St., Tokyo)>

#### Post-Covid-19:

Past achievement

the

coming COVID-19 epidemic

Preparation

1 towards

(including policy under consideration)

#### Role of Roads as Infrastructure to Support New Lifestyle and Socio-economic Activities

- Innovation is required for Roads as Infrastructure to support new lifestyle and socio-economic activities after Covid-19
- Regarding the roles of roads to support "New Normal," the vision of road administration policy, "2040: Scenery of Roads are Changing" (proposed by the Road Working Group, Policy Council for Infrastructure) raised questions and started discussion
- Suggestions on post Covid-19 road administration policy are invited from road users, private companies, universities, etc.



## 1 Stay-at-Home request and Use restriction of road facilities <Past achievement>

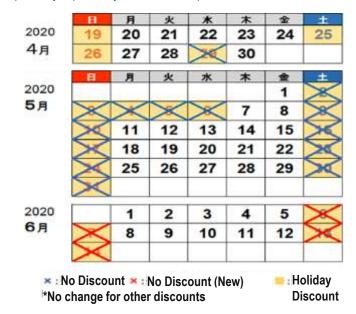
- Request citizens;
  - To refrain as much as possible from moving to other prefectures for non-urgent and non-essential homecoming visits or trips
  - To restrict the use of facilities that may cause infections to spread. (Rest Areas on Expressways, Roadside Station)

### Stay-at-Home request



## Stop Holiday Discount for Expressway

-Stop holiday expressway discount from April 29 to June 14 to minimize wide area movement

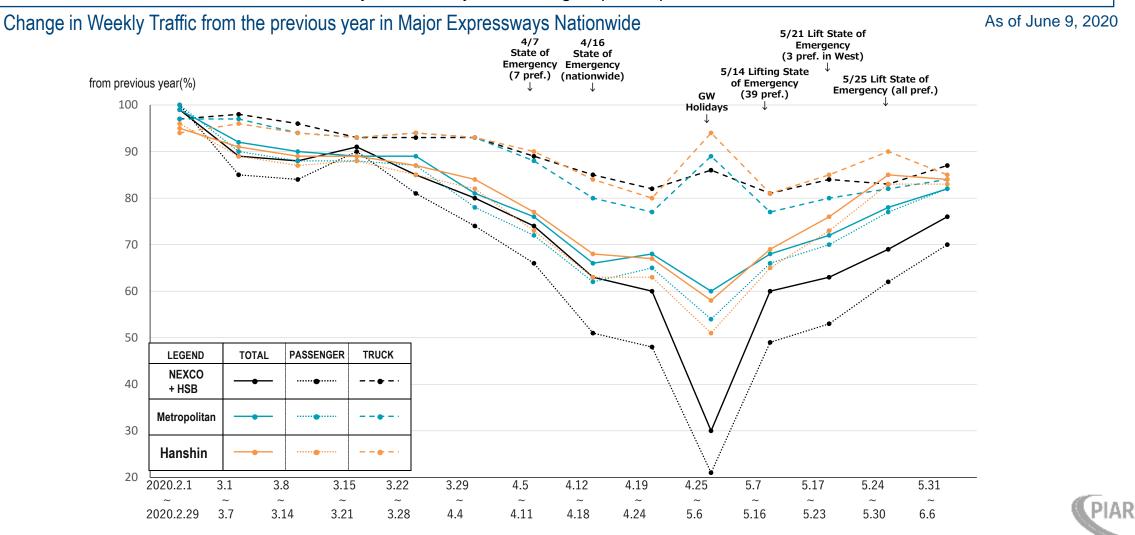




## 1 Stay-at-Home request and Use restriction of road facilities <Past achievement>

## Change in Traffic Volume on Expressways

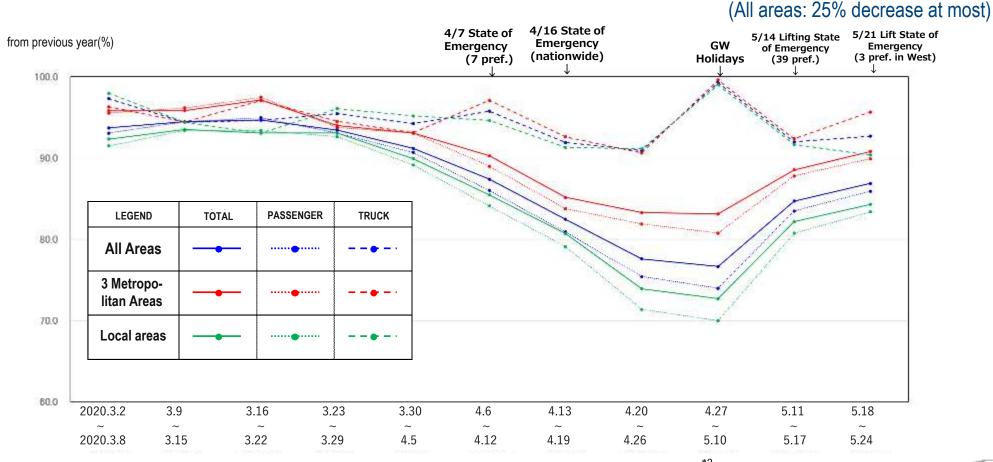
Compared to the Golden Week (Early May) holiday season in 2019, the passenger car traffic drastically decreased by around 80%, while the truck traffic decreased by around only 20% during a specific period.



## 1 Stay-at-Home request and Use restriction of road facilities <Past achievement>

## Change in Traffic Volume on National Highways

- The truck traffic has not been severely affected, as the one on expressways has not been.
- The decrease in passenger car traffic has not been larger than that in truck traffic, but not as large as the one on the expressway.





## Ref. Change in Toll Revenue of Expressway Companies

 Toll revenues of expressway companies decreased by approximately 10% in March and decreased by approximately 1/3 in April (3 NEXCO Companies: preliminary figure).

Change in Monthly Toll Revenue of Expressway Companies (compared to 2019)





## 2 Road Maintenance and Operation <Past achievement>

Keep activities necessary to maintain daily life and economies for citizens, such as road management, freight traffic, and essential services for daily lives

# Road Management for road safety by keeping the level of services>

-Continue Road Maintenance Management, Expressway Toll Collection



< Road Maintenance Management >



# Freight Traffic for safe driving related to the number of accidents>

-Continue Operating Gas Station, Shower Service, etc. for drivers at Rest Areas on Expressways



<Secure Rest Spaces>

#### Roadside Stations

-Provide takeout Meals and Sell handmade masks



Support Daily Lives of Local Residents >



- 1 Stay-at-Home request and Use restriction of road facilities < Preparation towards the coming COVID-19 epidemic>
  - Temporary Use of Sidewalk as Countermeasure for 3Cs\* at Restaurants' Reopening

If restaurants apply for permission of takeout and occupation of road space in collaboration with local governments, the permit criteria will be loosened.

- MLIT\* decided to loosen the permit criteria for temporary use of sidewalk for restaurants as an urgent measure to support businesses that suffer from COVID-19 influence, if residents or organizations apply for the permission in collaboration with local public organizations. (MLIT: Ministry of Land, Infrastructure, Transport and Tourism)
- MLIT requested local public organizations to apply for it with residents, etc.

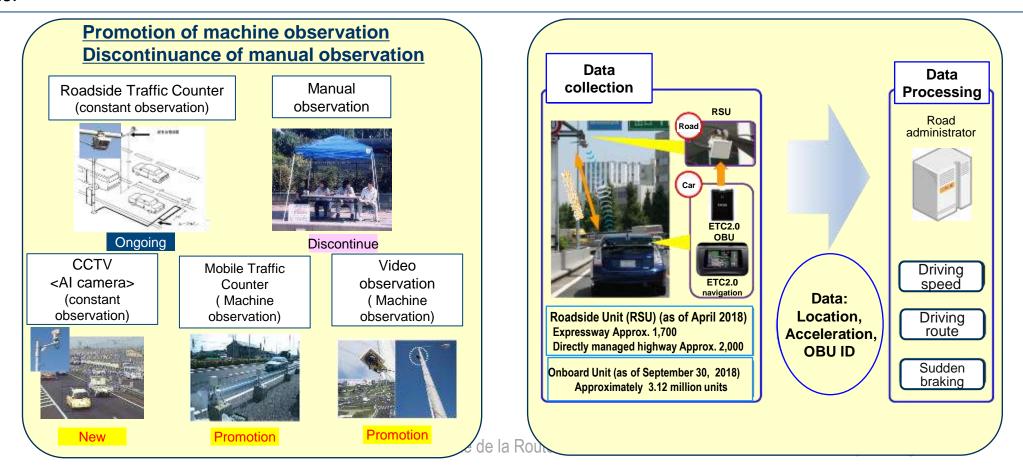


Image by Saga prefecture

Outline of this urgent n	neasure		
Contents	<ol> <li>Open restaurants temporarily as a countermeasure against COVID-19</li> <li>Correspond to 3C avoidance and New Lifestyle establishment</li> <li>Set up a facility temporarily for takeout, sidewalk seating, etc.</li> <li>Cooperate with cleaning around a facility</li> </ol>		
Lead organization	*2: Local council, a private organization supported by local public organizations, etc.  A location that does not affect road structure or traffic significantly  *On the sidewalk, space is secured for pedestrians: 3.5 meters and more for locations with heavy traffic, 2 meters and more for other locations  *Able to set up a facility on the road in front of the restaurants		
Location			
Road Occupation Fee			
Occupation Duration	Until November 30, 2020		

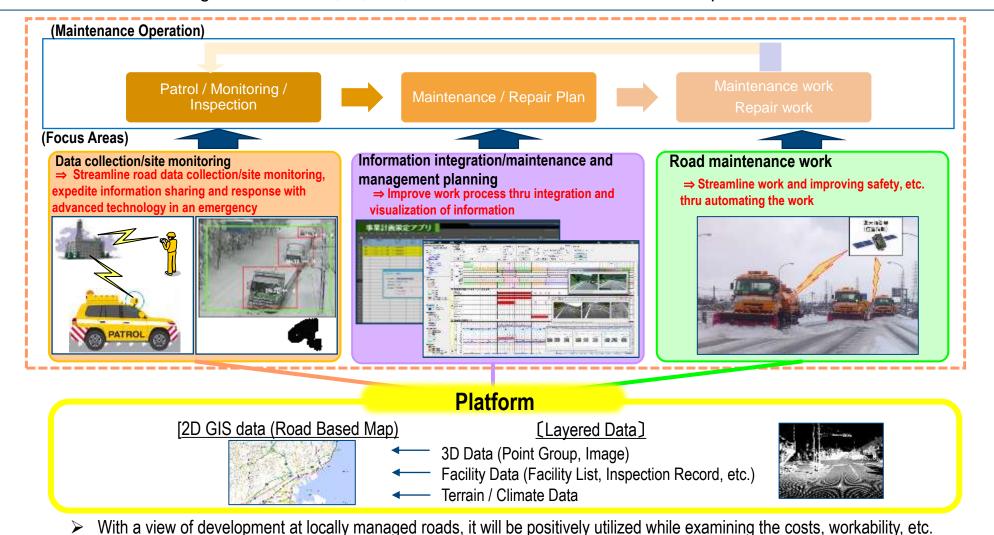


- ① Stay-at-Home request and Use restriction of road facilities < Preparation towards the coming COVID-19 epidemic>
  - Continuous Monitoring and Quick Publication of Travelling History of Vehicles (ETC2.0 data)
- 1. Introducing CCTV AI analysis has enabled the expansion of constant observation areas, and the promotion of machine observation with mobile traffic counter and video dispensed with traditional manual observation, leading to efficient traffic surveys.
- With ETC2.0 data, travel speed surveys have been conducted under constant observation in directly-managed and locally managed roads.



## 2 Road Maintenance and Operation < Preparation towards the coming COVID-19 epidemic>

- -Digitalization of Maintenance Management to improve service level and to secure road safety
  - To maintain and improve the service level of roads, as well as to secure safety and reliability of roads, road operators promote the use of new technologies such as ICT, AI, etc., and build an efficient maintenance operation structure.





#### 2 Road Maintenance and Operation < Preparation towards the coming COVID-19 epidemic>

## Promoting Bicycle Commute

- Based on the Bicycle Use Promoting Plan, the Bicycle Use Promoting Headquarter (HQ) put efforts on promoting bicycle commute.
- Based on new lifestyle, it promotes further dissemination of bicycle commute, and implements the followings:

#### Promote Introduction of Bicycle Commute in Private Companies, Organizations

To widely publicize efforts on bicycle commute by organizations and expand bicycle use in commute at work, it will certify the first "Declared Company" under the "Bicycle Commute Promoting Company" Declaration Project in July 2020. Then, it will plan to publicize the certified company and its efforts.

#### 2. Promote Development of Bicycle Lanes in Central Tokyo

- In FY2020, approximately 17 km of exclusive bicycle lanes, etc. will be developed in national highways and major prefectural roads in Central Tokyo. Moreover, the Cycling Space Development Plan will also be built for central Tokyo by this fall and will be implemented in around 3 years.
- Similar development plans will be built and implemented nationwide.

#### 3. Expand Shared Cycle (supporting system of bicycle commute)

- Following approaches have been promoted to improve shared cycle's convenience:
  - 1 Considering deregulations and clarification of rules on the development of cycle ports, it supports establishing cycle ports on highly convenient locations such as roads, etc.
  - 2 Considering standardization of the specification and installation criteria for guideboards, it promotes installment of guideboards at railway stations, etc.





<Certified Logo>



**Exclusive Bicycle Lanes Tokvo Prefectural Road 301** 

## ② Road Maintenance and Operation < Preparation towards the coming COVID-19 epidemic>

## Increase the Number of Parking Lots

In order to mitigate congestion in at rest areas on expressways, the number of parking lots will be increased and the efforts to level the use of them will be promoted.

1			
	Number of parking lots added in 3 NEXCO Companies		
	FY2018 (26 locations)	FY2019 (planned) (34 locations)	FY2020 (planned) (52 locations)
	approx. 520 lots	approx. 1,350 lots	approx. 810 lots

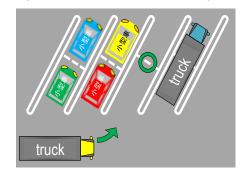
#### 1. Increase the number of parking lots (FY2018 – FY2020)

- Increase parking lots by reviewing the layout of existing parking areas
- Create convertible parking lots that both trucks and passenger cars can use flexibly and efficiently

#### 2. Promote to level the use of parking lots (from FY2020 and onward)

- With ETC, the new system capturing real-time parking availability by vehicle types was developed in all rest areas in the Tomei and the Shin-Tomei expressways
- Using forecast technologies with AI, providing detailed information of parking availability, congestion level of rest areas on information boards and website has been considered

(image of convertible parking lots)



(Example of Information Board)



(Providing information on the internet (i-highway NEXCO Central))

World Road Association • Association mondiale de la Route • Asociación Mundial de la

## 2 Road Maintenance and Operation < Preparation towards the coming COVID-19 epidemic>

## Introduction of New Parking Reservation System

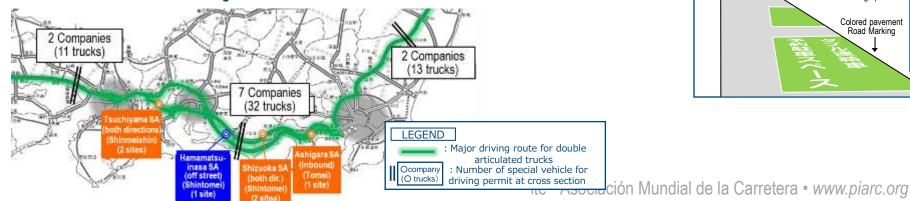
- Introduce a pilot parking reservation system to secure resting space for double articulated trucks at the spots with heavy traffic and increased needs of those drivers for resting space
- Manage entrance and exit of the trucks with reservation and monitor their behaviors in the parking areas

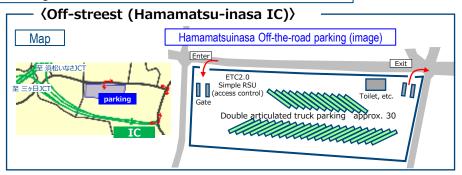
#### 1. Develop off-road parking (by March 2021)

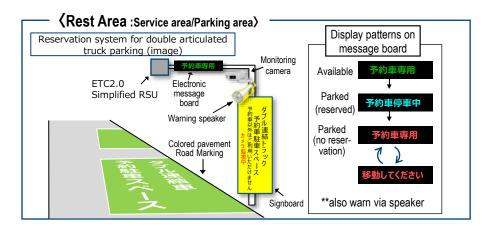
- Provide parking lots for vehicles with reservation outside Hamamatsuinasa IC, almost halfway between Tokyo and Osaka
- Manage entrance and exit at the gates compatible with ETC2.0

#### 2. Introduce Reservation System at Rest Areas (FY2020 onward)

- Develop Parking Reservation System at the following Rest Areas (SA):
  - Ashigara SA (Inbound to Tokyo)
  - Shizuoka SA (both directions)
  - Tsuchiyama SA (both directions)
- Manage parking of vehicles with reservation using ETC2.0 RSU, information board, monitoring camera, etc.









#### ◆ Objectives/Purpose

**Natural Disaster,** Climate Change, **Aging** Infrastructure

**Population Decrease** 

**Digital Transformation** (DX)

Post Covid-19 **New Lifestyle** 



- "SDGs" and "Society 5.0" will aim at achieving the "Human-centered Society"
- The essence of road administration policy is to "achieve the happiness of people"
- Social issues, such as efficiency, safety, and environmental load of travel
- Solve the issues by "evolving" roads by entirely using digital technologies
- Since ancient times, roads have been the center of exchange (i.e., playground, small talk)
- "Return" the function as communication space to roads



Through road administration policy, the vision, that proposes the Society in Japan to achieve in 2040 and the Future direction of policy, is established

















#### ♦ Changing Sceneries of Roads ~ Future Images in Five Ways ~

#### 1 No More Rush **Hours in Commute**

- · Obligatory commute dramatically decreases by dissemination of telework
- Constraint in commute distance disappears and moving away from the city center increased

#### 2 Park-like Roads with Full of People

- · Recreational trips and stays such as travel and walking increase
- · Roads attract people as amenity space

#### (3) Automated & **Unmanned Travel of** People & Goods

- Dissemination of automated driving services makes lifestyle with a car a thing of the past
- Penetration of e-commerce increases small-lot deliveries, and make unmanned freight traffic common

#### 4 Cities Change with **Mobile Shop/Service**

- · Restaurants and supermarkets move in response to customers, and open roadside
- In rural areas, small shops provide residents with daily services

#### (5) From "Roads that Suffer" to "Roads to Support"

· In response to disaster, road network secures connection in transport/communication/ electricity, and supports lifesaving and restoring devastated areas









Safe and Convenient Mobility Service without Car

Park-like Road

## **Ref. Efforts for Automated Driving**

Government objective

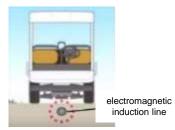
#### **Designated Area on Ordinary Roads**

Unmanned driving service in a designated area (level 4) by 2020 Same as above (increased areas, scope, etc.) by 2025

#### Platooning on Expressways

Commercial Platooning System followed by manned vehicle by FY2021
Commercial Platooning System followed by unmanned vehicle from FY2022 onward

#### **Support by Infrastructure for Self Positioning**



Vehicle-infrastructure cooperative safe driving support with electromagnetic induction line



Infrastructure support for accurate stopping with a magnetic marker at the bus stop

#### **Secure Driving Space for Automated Driving**

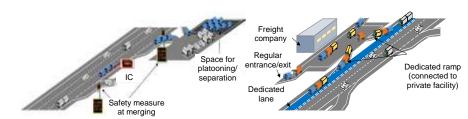


A uniform design of road marking for a driving path of automated vehicle



Hitachi BRT (Hitachi City, Ibaraki)

In light of the local needs, dedicated structure with a median fence to avoid entrance from other lanes



- ▲ Image of the path toward commercial platooning with following unmanned vehicle
- ▲ Image of realized commercial platooning with following unmanned vehicle

#### **Secure Exclusive Driving Space for Commercial Platooning**

 To secure exclusive driving space for the vehicle to assure safety, and avoid confusion with general vehicles

#### **Support Countermeasure for Low GPS Positioning Accuracy**

- · The system can obtain location beacon and location data for self-positioning
- Install magnetic markers to areas with low accuracy of GPS such as tunnels, underneath elevated structures, etc.

#### **Build Freight Hubs**

Develop freight hubs with areas for platooning/separation

#### **Develop Support Facility for Merging**

 Until a dedicated space is secured, the technology such as merging assistance system at junction or ramp metering will be reviewed



### Road Administration Policy relevant to Road Safety

- ■With Corona
- Past Achievement
  - Stay-at-Home request and Use restriction of road facilities
    - Change of Traffic Volume
  - Road Maintenance and operation
    - Road management
    - Freight
- Preparation towards the coming COVID-19 epidemic
  - Road Maintenance and operation
    - Digitalization of Maintenance Management
    - Promoting Bicycle Commute



# Thank you for your attention!



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World Road
Association PIARC



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# Impact of COVID-19 on Road Safety in Poland

Mariusz Kieć, PhD

Cracow University of Technology, Poland

PIARC COVID-19 Webinar on Road Safety
15 July 2020

### **Profile – Mariusz Kieć**

- PhD in Faculty of Civil Engineering
- Traffic Engineering (Road Design and Road Safety)
- Assistant Professor at Cracow University of Technology, Poland



# Cracow University of Technology





### **Overview of Presentation**

- COVID-19 in Poland
- Issues and problems
- Changes in road users' behavior
- Changes in road safety (frequency and severity of crashes)
- Measures to mitigate the occurrence of COVID-19
- What is needed (policy, measures, data, research)?



### **COVID** in Poland

- 04.03.2020 the first case of coronavirus in Poland
- 12.03.2020 closure of schools, universities
- 15.03.2020 restrictions on travel and movement including border closures, closure of workplaces
- 01-02.04.2020 r. social distancing 2m, further restrictions on travel, limiting the use of transport space in public transport modes (50% of seating places)
- 20.04.2020 I stage of the abolition of restrictions
- 04.05.2020 II stage of the abolition of restrictions (opening shops)
- 18.05.2020 III stage of the abolition of restrictions (opening of restaurants and bars, increasing the use of public transport)

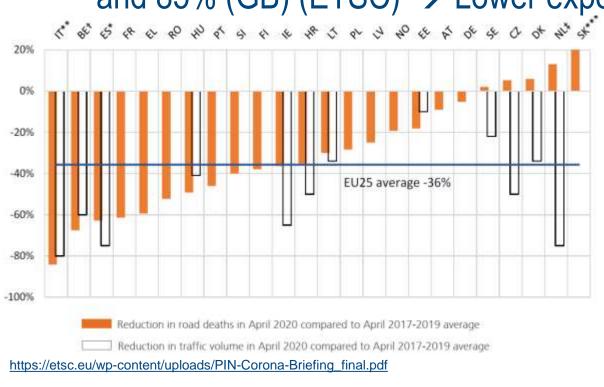
### **Problems**

- Dynamic character of pandemic
- Changes in road infrastructure to improve road safety require several years
- Traffic behavior can be controlled and improved faster
- Changes depend on public acceptance and policy
- In a period of dynamic change, the policy is crucial (e.g. speed management, police enforcement, social campaigns, changes in traffic management without infrastructure changes)
- Increase of speed
- The increase in the share of vulnerable road users
- The decrease in the use and share of public transport



### Changes of road users behaviour (i)

reduction in traffic volumes have been reported across Europe up to 75% (Spain) and 85% (GB) (ETSC) → Lower exposure to the risk





https://www.gddkia.gov.pl/pl/a/37842/Ruch-na-drogach-krajowych-w-czasie-epidemii-Publikujemy-podsumowanie-za-maj

March -37%, April -45%, May -17%, HV -20%, share of HV +6%

Cracow (urban roads) - workdays March -41%, April -32%, May -22% Cracow (urban roads) – weekend days March -58%, April -56%, May -38%



### Changes of road users behaviour (ii)

- Traffic volume decreasing → speeding increasing affecting severity of crashes
- The number of overspeeding increased by 32.9% in the spot speed monitoring system and 46.5% in section speed monitoring

Increase in the share of higher exceedances by 29% (over 50 km/h), 855 per

month.

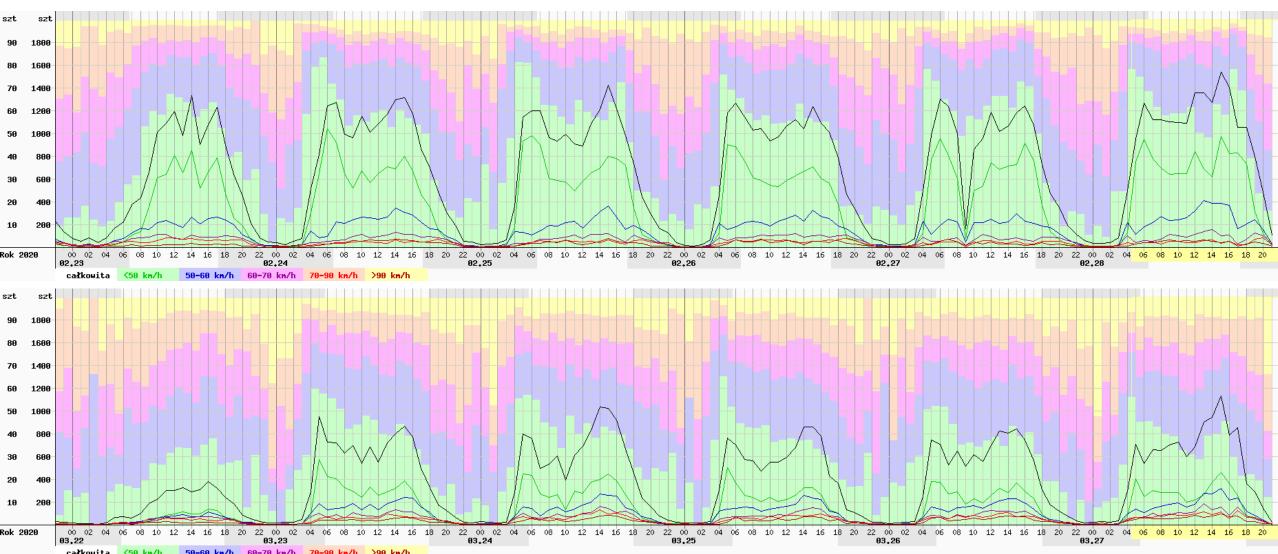




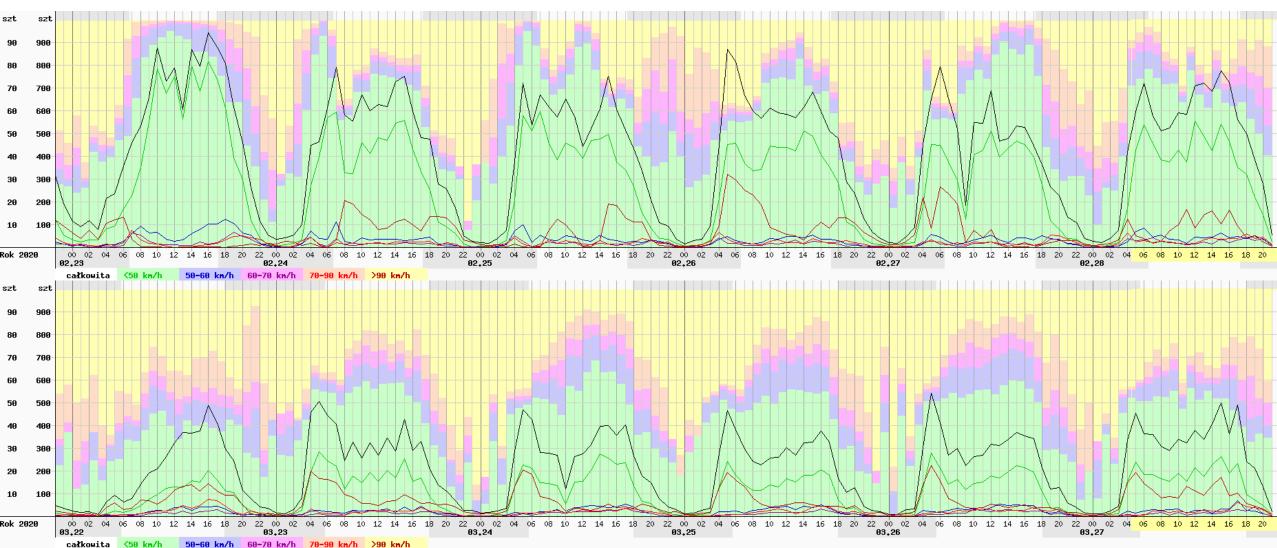
https://gitd.gov.pl/dla-mediow/aktualnosci/artykul/news/mniej-naruszen-ale-wieksza-brawura/



# Changes of road users behaviour (iii)



# Changes of road users behaviour (iv)



### Changes of road users behaviour (v) - Cracow

### Lockdown

The decrease in the number of public transport passengers

- Bicycle traffic decreases proportionally the least
- Pedestrian traffic was very low

### After Lockdown

- Increase in share of vulnerable road users
- Number of passengers greater than acceptable
- Many narrow sidewalks to keep social distance



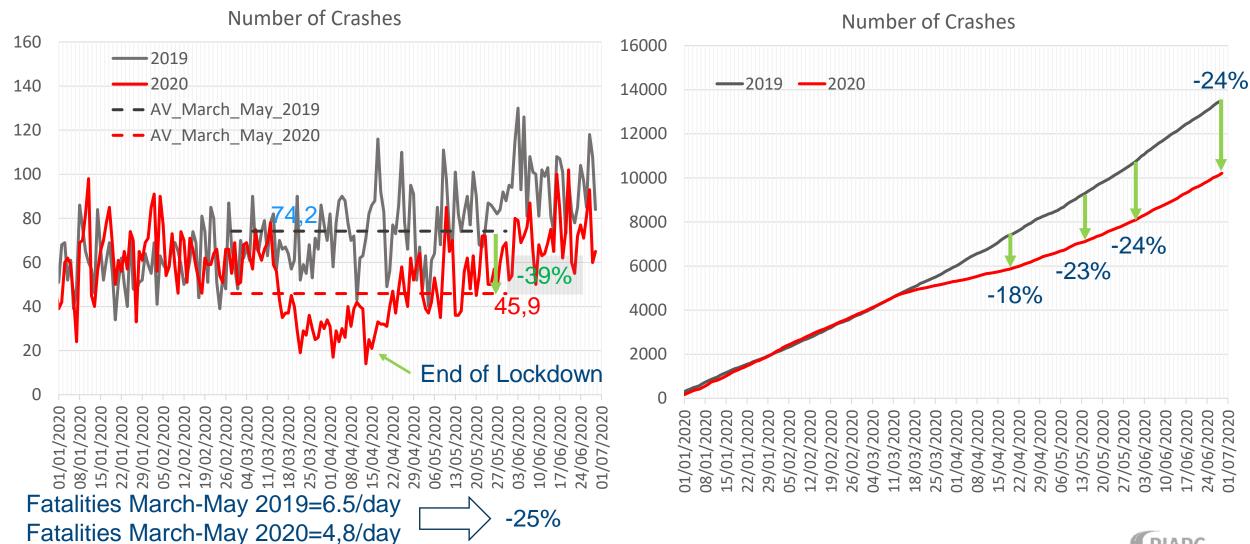


### Changes in road safety (number and severity of crashes) (i)

- Average 36% drop in road fatalities in April 2020 (EU-25, ETSC)
- Average 39% drop in the number of crashes and average 25% drop in road fatalities in March-May 2020 (Poland), In the same time traffic was lower by 33%
- The average increase in the severity of accidents was 21%
- The lowest number of accidents and casualties was observed in the end of Lockdown

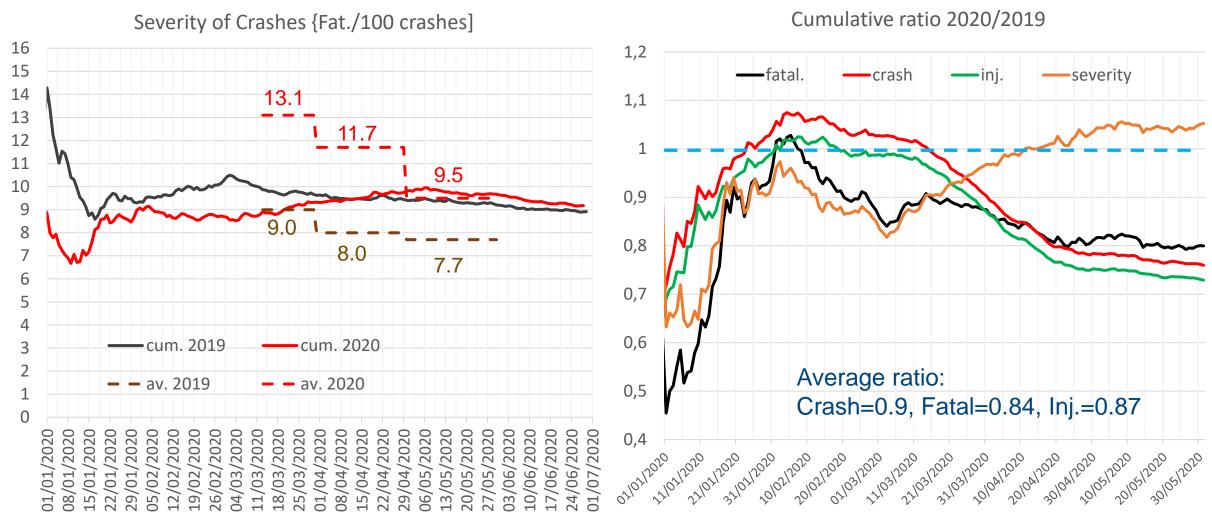


# Changes in road safety (number and severity of crashes) (ii)





## Changes in road safety (number and severity of crashes) (ii)





### Measures to mitigate the occurrence of COVID-19

- New speed limits applying to all roads (02/04/2020 initiative of experts to reduce speed limits by 10 km/h and 20 km/h for motorway),
- Speeding enforcement
- Traffic management measures for vulnerable road users to provide more space on the road and eventually create their

dedicated lanes





## Measures to mitigate the occurrence of COVID-19 – Cracow (i)

- supplementing bicycle routes with temporary or permanent sections to provide access to the city center,
- bicycle paths and bicycle lanes on the road to expand the actual bike network
- More space for pedestrian in the shared spaces or in the dedicated path







### Measures to mitigate the occurrence of COVID-19 – Cracow (ii)

 The widening of bicycle paths is necessary to provide safety, the current sidewalks shared with bicycle traffic are too narrow





### What is needed? (i)

- Policy, road authorities activities have an expert character,
- Exchange of observations between countries to adapt activities more quickly based on other experiences,
- Providing access to reliable data, which is limited and time-consuming in the case of crash and traffic data, despite many ITS,
- Reliable assessment of COVID's impact on road safety in order to develop policy programs and measures is necessary. It is difficult because the pandemic period was relatively short and consisted of several stages,



### What is needed? (ii)

- The development of road safety assessment methods based on short-term periods (various COVID-19 phases) are necessary, the proper assessment will allow quick response and adaptation of mitigation measures to the changing situation
- Development of methods related to surrogate safety measures, big data application to faster response and apply a proactive approach to road safety
- Road safety assessment related to the change in behavior of road users (change of mode transport) requires consideration of the non-linear of risk exposure,
- The increased role of random factors in accident prediction models
- Stronger influence of the human factor (for example additional stress due to pandemic)

### Thank you for your attention!

# Mariusz Kieć Cracow University of Technology

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### **COVID-19** and roads in Chile

### **Jaime Campos Canessa**

Head of the Road Safety Department – Road Directorate

**#PIARCCOVID19** 

**July, 15th 2020** 

### Jaime Campos Canessa

- Head of Road Safety Department (Ministry of Public Works)
- Civil Engineer (Universidad de Chile)
- International Master in Traffic, Transport and Road Safety (EADIC)
- Road Safety Officer (UNOPS)
- Road Safety Auditor (International Road Federation)
- Road Safety Auditor (IVIA and Mexican Transport Institute)
- Corresponding member of PIARC since 2016
- 12 years of professional experience





### **Presentation Index**

- Chile's roads data
- Context of road safety in Chile
- Evolution during COVID-19
- Current roads operation
- How Road Directorate works
- Conclusions





### Data on roads in Chile

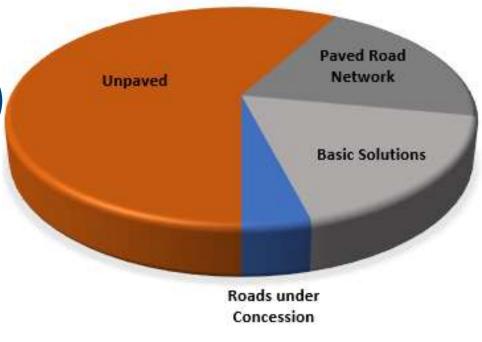
**-85.709** km under the responsibility of the Ministry of Public Works

-17.372 km of paved road network (20 %)

-3.309 km roads under concession (4 %)

-15.382 km basic solutions (18 %)

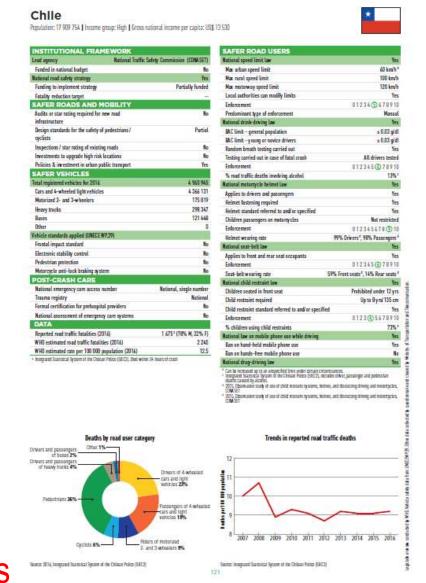
-49.646 km unpaved (58 %)





### **Road Safety Context in Chile**

- Between 9 and 10 deaths per 100,000 inhabitants
   Motorized Users (Light 42%, Heavy 6%)
   Vulnerable Users (Pedestrians 36%, Motorcyclists 9%, Cyclists 6%, Other 1%)
- Number of Traffic Accidents84% Urban16% Rural
- Deaths in Traffic Accidents38% Urban62% Rural
- Collisions, Run-off-road, Rollovers, Run over crashes





# **Evolution during COVID-19**





# **Evolution during COVID-19 (urban areas)**

de la mañana con mismo período del año anterior;

Región Metropolitana (UOCT)







# Rural Accident trends (January – June)

**Fatalities**: 2018 (519)

2019 (534)

2020 (511)

Year 2020: Collisions (36%), Run-off-road (23%), Run over (23%), Rollovers (16%)



### **Evolution during COVID-19**

- Reduced pollution smog and noise
- Avoidance of public transport (mandatory use of mask)
- Increase commercial traffic
- Increased use of:
  - Private cars
  - **Bicycles**
  - Walking

Iniciativa surgió a petición de la sociedad civil:

### Gobierno considerará a la bicicleta como artículo esencial durante la pandemia

Los últimos días ha babido un auge en su uso, sobre todo entre reportidores. Se busca, además, que los talleres y tienclas de repuestos estén disponibles durante la contingencia.

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# **Evolution during COVID-19**

You might expect something like this...



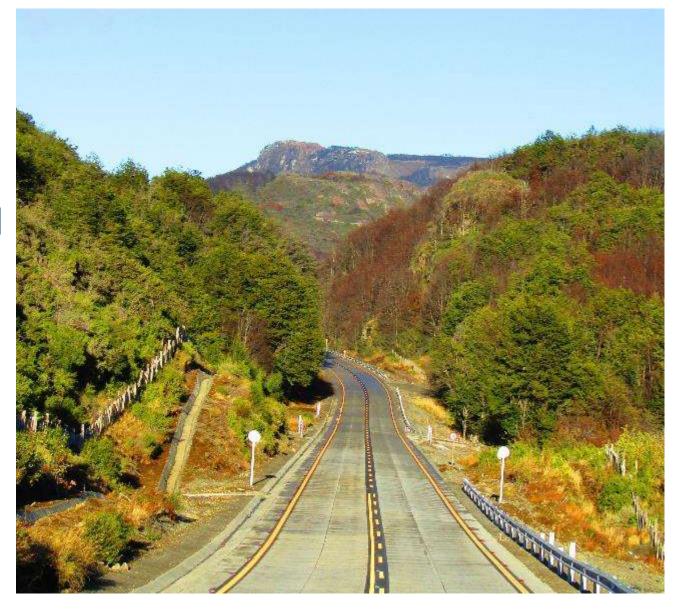


### **Current Roads Operation**

Weak quarantine enforcement of the Carabineros de Chile (National Police):

Excessive operating speed Traffic violations

- Excessive use of roads during long holidays
- Poor emergency response to traffic accidents





### **Current Roads Operation**

# Traffic jams on long holidays



Gran congestión vehicular para cruzar cordón sanitario de la Región Metropolitana

Por Meganoticias + 20 de Mayo de 2020



Semedia Russ: 39 Asia 2020 08 28 PM

### Atochamiento en salida sur de Santiago marca inicio de cordón sanitario en RM y Gran Concepción por fin de semana largo

Según reportes desde la zona de Paine, las detenciones se acumulaban por cerca de 8 kilómetros, lo que se explica no sólo por el flujo vehicular, sino por los controles carreteros que está realizando Carabinecos.









### **Current Roads Operation**

- Sanitary blockades: stations of the health authority, the armed forces and the police, which ensure that no one enters or leaves an area. The only way to pass through one of them is to obtain a permit for a funeral or medical treatment in another city.
- To ensure no one enters or leaves an area, without a permit.

- Health customs: stations of the health authority, the armed forces and the police, where temperature controls are carried out, where travelers do not have to be quarantined and where the health passport is checked.
- Body temperature controls.



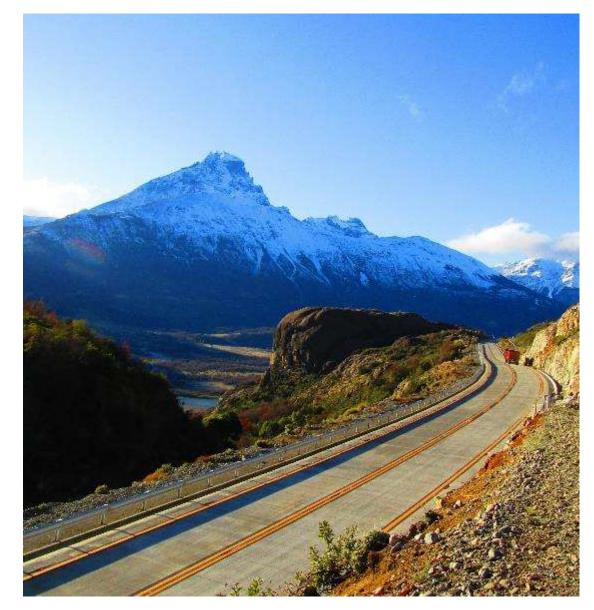
## **How Road Directorate works**





# Road Directorate's adaptation measures

- Teleworking
- Digital signature (mop.febos.cl)
- Digital files (*TransferMop*)
- Organization of professional tasks (tareas.mop.gov.cl)
- Virtual meetings (Webex, Meet, Zoom)
- Webinars







#### **Conclusions**

- Changes in urban and interurban transportation modes (increased use of motorcycles and bicycles)
- Large-scale international (virtual) events allow the sharing of best practices and experiences in road safety (school zones, urban crossings, basic roads, etc.).

 Better enforcement will promote better road safety practices (road casualties' reduction).

 Increase rest areas and provide exclusive lanes for freight transport drivers.

Economic reactivation through roads.



### Thank you for your attention!



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#### **Questions and Answers**

# Moderated by Christos Xenophontos

Rhodes Island DoT (USA)

Chair of PIARC TC 1.1 on Performance of Transport Administrations





#### **Our Speakers today**

- Patrick Malléjacq Secretary General, PIARC
- John Milton, USA Washington State DoT, Chair of PIARC TC 3.1 on Road safety
- Rob McInerney, iRAP
- Jun Takeuchi, Japan Technical Advisor seconded to PIARC
- Mariusz Kieć, Poland Cracow University of Technology
- Jaime Campos Canessa, Chile Dirección de Vialidad

## **Conclusion and Next Steps**





#### **Disclaimer**

Since time is of the essence, it is likely that knowledge and practice that is shared will not have been officially approved by each country's official authorities.

"The ideas and examples shared here are for illustration only. They do not necessarily represent official policy. Ideas presented will be subject to further evaluation and use in deriving recommendations on policy and practice in due course. While care has been taken in the preparation of this material, no responsibility is accepted for any damage that may be caused."

#### **Next steps**

- We publish video recordings and presentations from our webinars
- Further PIARC webinars are planned, in English, Spanish and French
- Wrap-up webinar in English on 29 July

- An in-depth report is scheduled for September
- https://www.piarc.org/en/News-Agenda-PIARC/Coronavirus-PIARC-and-Covid-19

#### PIARC COVID-19 Response Team





















#### **Summary Terms of Reference**

- To explore rapid sharing of knowledge and practice between PIARC members in respect of COVID-19 & associated socio-economic crisis
- To propose and implement short-term actions to support PIARC members and transport professionals in mitigation and response
- To track the course of COVID-19 over time and advise on further actions to be taken by PIARC and others during the crisis and into the recovery
- To advise on medium- and long-term implications of COVID-19 on the roads and transport sector and how these should be tackled and studied

Currently established to 1st December 2020, extendable as required

#### **Current Membership**

- Patrick Mallejacq, Secretary General, PIARC (Chair) (FR)
- Christos Xenophontos, Rhode Island DOT, TC 1.1 Chair (USA)
- José Manuel Blanco Segarra, Ministerio de Transportes, Movilidad Y Agenda Urbana, TC 1.1 Spanish Secretary (ES)
- Jonathan Spear, Atkins Acuity, TC 1.1 WG 2 Leader (UAE/UK)
- Valentina Galasso, Deloitte Consulting, TC 2.4 Chair (IT)
- Yukio Adachi, Hanshin Expressway Engineering Co, TC 1.5 Chair (JP)
- Saverio Palchetti, ANAS S.p.A., TF 3.1 Chair (IT)
- Caroline Evans, Arcadis Australia Pacific, TC 1.4 Chair (AU)
- Martin Ruesch, Rapp Trans Ltd.,TC 2.3 Chair (CH)
- Andrea Peris, Paraguay National Committee (PY), Comm. Commission

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# PIARC Webinar COVID-19 and Road Safety 15 July 2020

Thank you very much. for your attention!

Visit the PIARC & COVID-19 page #PIARCCOVID19