



# Transportation Science Society of the Philippines

c/o National Center for Transportation Studies

University of the Philippines, Diliman, Quezon City, Metro Manila, Philippines

Tel.: (63-2) 8981-8500 local 3554 Email: [tssp.ncts@gmail.com](mailto:tssp.ncts@gmail.com) Website: <http://ncts.upd.edu.ph/tssp>

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## CONFERENCE REPORT

### 27th Annual Conference of the Transportation Science Society of the Philippines (TSSP)

*in cooperation with the*

**Philippine Institute of Civil Engineers (PICE)**

*and the*

**U.P. National Center for Transportation Studies (UP-NCTS)**

*Conference Theme: “Imagineering a Post-Covid Transportation Landscape”*

*RTD Theme: “Public Transport Reforms in Transition: Policy Lessons and Prospects on Competition, Consolidation and Contracting for the Philippine Road-based Public Transport Sector”*

**19 November 2021 (Friday)**

Virtual Conference

## PROGRAM

Conference Proper	
8:30 – 9:13 AM	Acceptance of participants to the virtual conference plenary sessions
9:13 – 9:27 AM	<u>Opening Program:</u> <ul style="list-style-type: none"><li>- Invocation</li><li>- National Anthem</li><li>- Opening Remarks: <b>Dr. Ricardo DG. Sigua</b> President, TSSP</li></ul>
9:27 – 9:30 AM	<u>Conference Program Orientation:</u>  <b>Dr. Jose Regin F. Regidor</b> Chair, Conference Organizing Committee



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9:30 – 11:41 AM	<p><u>Policy Roundtable Discussion:</u>  <b>Theme: “Public Transport Reforms in Transition: Policy Lessons and Prospects on Competition, Consolidation and Contracting for the Philippine Road-based Public Transport Sector”</b></p> <p>Discussants:</p> <ol style="list-style-type: none"> <li>1. RTD Framework - <b>Dr. Noriel Christopher C. Tiglao</b></li> <li>2. Metro Manila Bus Consolidation in the 1970s - <b>Mr. Rene S. Santiago</b></li> <li>3. The Cebu BRT Experience - <b>Mr. Nigel Paul C. Villarete</b></li> <li>4. Local Public Transport Route Plan (LPTRP) - <b>Mr. Joemier D. Pontawe</b></li> <li>5. Bus Competition and EDSA Busway – <b>Mr. Johan G. Martinez</b></li> </ol> <p>Moderator: <b>Dr. Marie Danielle V. Guillen</b></p>	
11:41 AM – 12:19 PM	Open Forum	
12:19 – 1:25 PM	<i>Lunch Break</i>	
1:37 – 3:02 PM	<p><b>Technical Session 1: Public Transportation</b>  [Chair: Dr. Alexis M. Fillone]</p> <ul style="list-style-type: none"> <li>• Impact of the COVID-19 Pandemic to the Trip Characteristics of Transportation Network Vehicle Services (TNVS) in Metro Manila</li> <li>• Service Contracting Program for Public Transportation in the Philippines during the COVID-19 pandemic: Initial Evaluation and Policy Implications</li> <li>• Examining the Implementation of the Public Utility Vehicle Modernization Program (PUVMP) in General Santos City, Philippines: An Industry Perspective</li> <li>• Public Transport Innovations in the Time of Covid-19: Crowdsourcing and Bus Telematics for Promoting Fuel Efficiency and Eco-Driving Practices on the EDSA Busway</li> </ul>	<p><b>Technical Session 2: Maritime and Air Transportation</b>  [Chair: Dr. Anabel A. Abuzo]</p> <ul style="list-style-type: none"> <li>• Factors Affecting Satisfaction in an Inter-Island Multiport System in Leyte-Cebu and Predicting Passenger's Port and Mode Choice using Decision Tree Algorithm</li> <li>• Estimation of Philippine Domestic Maritime Transportation Energy Demand</li> <li>• The Relative Efficiencies of Baseports in the Philippines based on Data Envelopment Analysis: Benchmarks and Target Improvements</li> <li>• Bottom-up Estimation of GHG Emissions from Philippine Domestic Air Transportation</li> </ul>
3:02 – 3:20 PM	Break	



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3:23 – 4:19 PM	<b>Technical Session 3: Transport Planning</b> [Chair: Dr. Jose Regin F. Regidor] <ul style="list-style-type: none"><li>• Estimating the Urban Carrying Capacity of a City</li><li>• Relationship of Income and Number of Transfers to Mode Choice in Metro Manila</li><li>• Estimating the Potential Passenger Demand of a Proposed Aerial Ropeway Transit System along Katipunan Avenue, Quezon City</li></ul>	<b>Technical Session 4: Transport &amp; Technology</b> [Chair: Dr. Hilario Sean O. Palmiano] <ul style="list-style-type: none"><li>• Review on the Transport S&amp;T Projects under the Department of Science and Technology (DOST)</li><li>• Identifying Suitable Locations of Electric Vehicle (EV) Chargers in Quezon City using Geographic Information System (GIS)</li><li>• An Exploratory Study on GIS-based Suitability Analysis of Tertiary Hospitals in Quezon City from the Transportation Perspective</li><li>• Developing an Economic Assessment Tool for the LGUs: Introducing the Transportation Infrastructure Impacts Calculator</li></ul>
4:36 – 4:49 PM	Closing Remarks <ul style="list-style-type: none"><li>- <b>Dr. Karl B. N. Vergel</b> Vice President, TSSP</li></ul>	

## CONFERENCE ATTENDANCE

### Morning Plenary Session (Roundtable Discussion)

Lifetime Members – 14  
Regular Members – 34  
Associate Members – 28  
Corporate Members – 1  
Others – 509

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**Total Participants – 586**

### Afternoon Parallel Technical Sessions

Technical Session 1: Public Transportation – 65-91 **(86)**  
Technical Session 2: Maritime and Air Transportation – 17-21 **(18)**

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**Total – 104 participants**

Technical Session 3: Transport Planning – 49-51 **(50)**  
Technical Session 4: Transport & Technology – 42-46 **(43)**

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**Total – 93 participants**



## CONFERENCE PHOTOS

### 19 November 2021(Friday): Conference Proper (Morning Plenary Session)



1 – Dr. Ricardo DG. Sigua, President of TSSP, giving his opening remarks



2 – Dr. Jose Regin F. Regidor, Conference Organizing Committee Chair & TSSP Secretary, conducting the orientation of the conference program



3 – Dr. Regidor introducing the moderator for the Policy Roundtable Discussion (RTD), Dr. Marie Danielle V. Guillen (Lifetime Member)



4 – Presentation of the RTD Framework by Dr. Noriel Christopher C. Tiglaol (TSSP Board Member)



5 – Mr. Rene S. Santiago (Lifetime Member and Former President of TSSP) presenting the Trifecta of Competition, Ownership and Regulation in PT Reforms



6 – Mr. Nigel Paul C. Villarete (Lifetime Member) presenting the Cebu BRT Experience



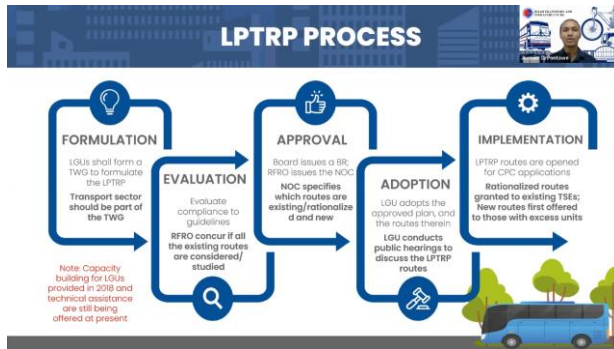


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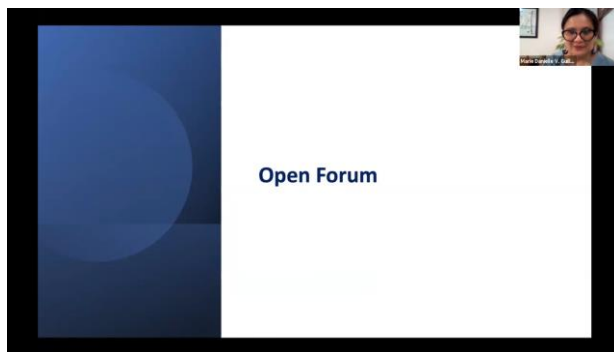
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7 – The Local Public Transport Route Plan (LPTRP) process discussed by Mr. Joemier D. Pontawe (Regular Member)



8 – EDSA Busway presented by Mr. Johan G. Martinez (Regular Member)



9 – Dr. Guillen reading some questions submitted in the Q&A chat box during the open forum



10 – Mr. Santiago answering one of the questions in the open forum



11 – Group photo of the RTD discussants with the moderator, President and Secretary of TSSP



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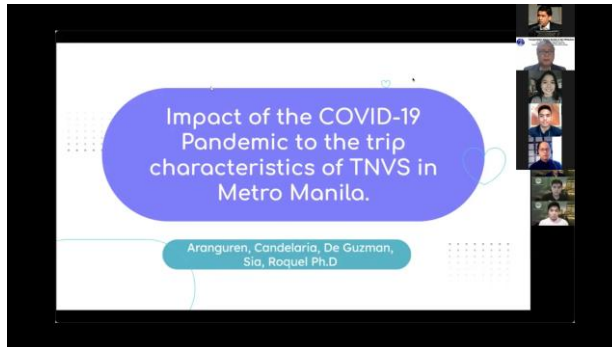
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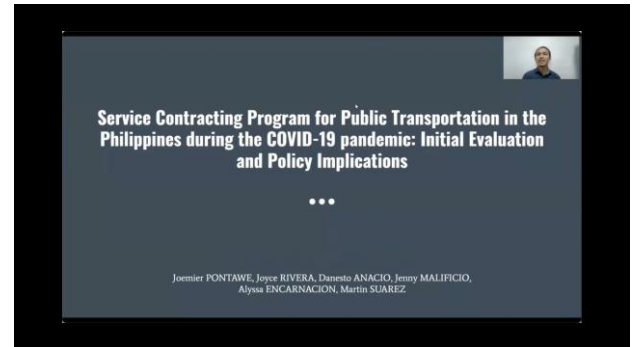
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## 19 November 2021 (Friday): Conference Proper (Afternoon Technical Sessions)

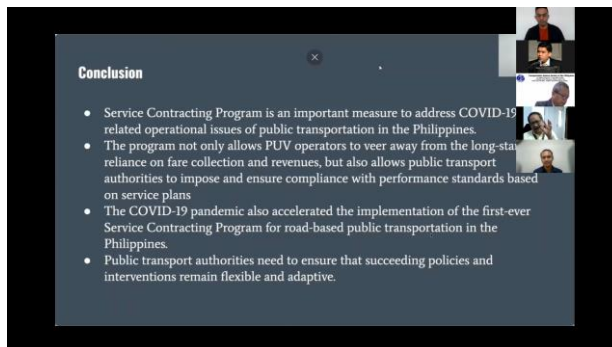
### Technical Session 1: Public Transportation



12 – First paper presented in Technical Session 1 by Aranguren, Candelaria, De Guzman and Sia



13 – Mr. Joemier Pontawe (Regular Member), presenting their paper on service contracting



14 – Mr. Felicisimo Pangilinan Jr., Lifetime Member of TSSP, asking questions during the open forum of Technical Session 1



15 – Third paper presented in Technical Session 1 by Mark Angelo Tacderas (Regular Member), in behalf of his four co-authors.



16 – The last paper for Technical Session 1 presented by Dr. Noriel Christopher C. Tiglao (TSSP Board Member and Regular Member).



17 – Dr. Alexis M. Fillone (Former TSSP President), Chair of Technical Session 1, reading a question submitted in the Q and A chatbox.



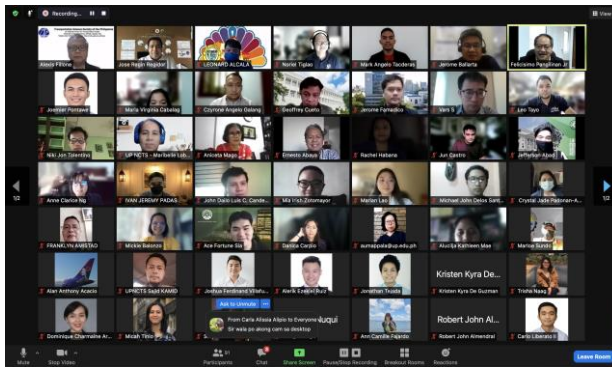


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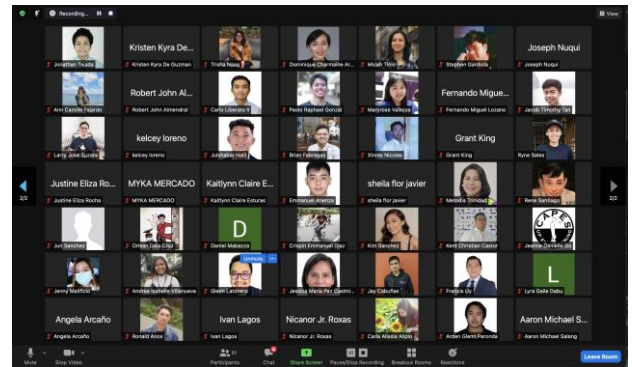
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18 – Group photo of Technical Session 1 participants (1/2)



19 – Group photo of Technical Session 1 participants (2/2)

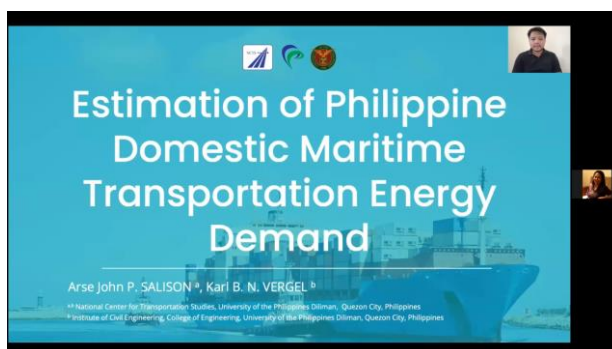
## Technical Session 2: Maritime and Air Transportation



20 – First paper presentation for the second technical session by Merino, Malanguis, Lusares and Mejia.



21 – Mr. Arse John Salison (Associate Member), presenting their paper on port efficiency



22 – The third paper for the Technical Session 2 presented by Mr. Arse John Salison dealing on domestic maritime transport energy demand



23 – Mr. Felix Nathaniel Elamparo (Associate Member) explaining the objectives of their paper dealing on domestic air transport GHG emissions

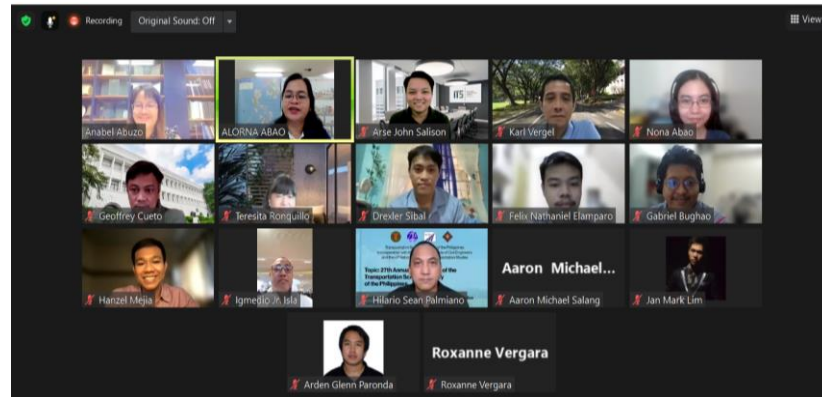


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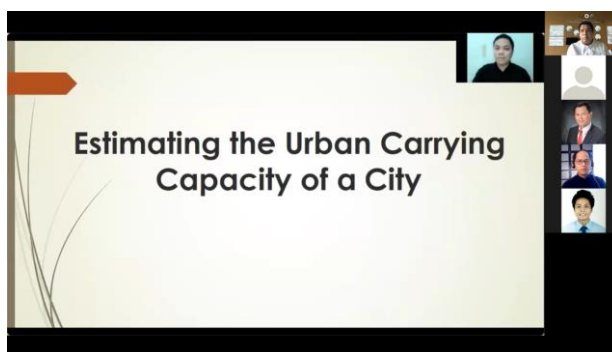
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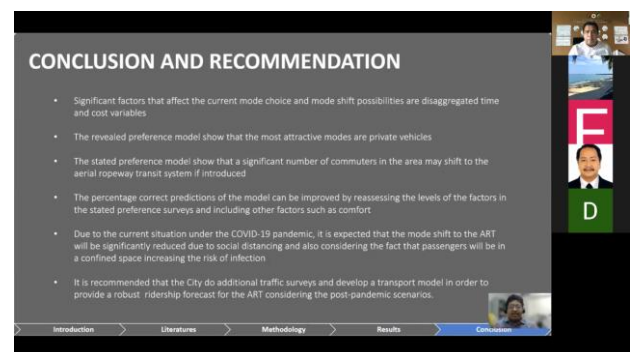


24 – Group photo of the participants of Technical Session 2

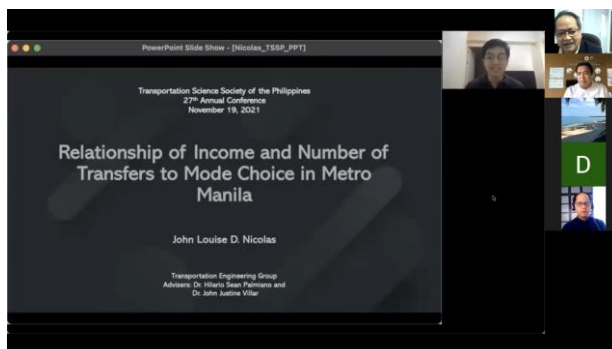
## Technical Session 3: Transport Planning



25 – Dr. Mark De Guzman (Lifetime Member), presenting the first paper for the Technical Session 3 on urban carrying capacity



26 – Conclusion and recommendation of the second paper for Technical Session 3 presented by Mr. Gabriel Bughao



27 – Presentation of last paper of Technical Session 3 by Mr. John Louise Nicolas



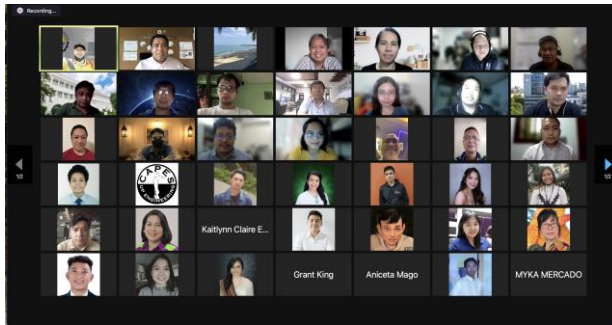


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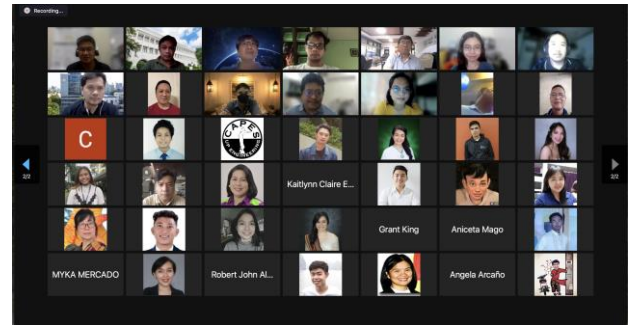
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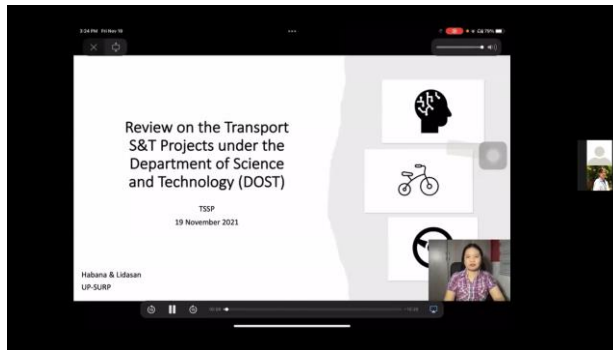


28 – Group photo of Technical Session 3 participants (1/2)

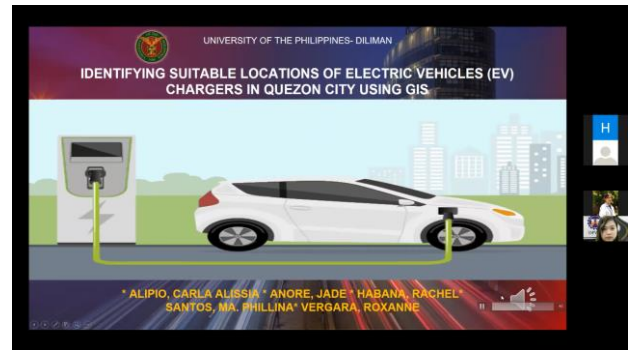


29 – Group photo of Technical Session 3 participants (2/2)

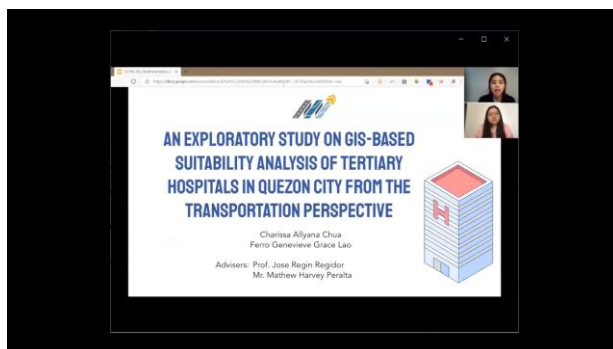
## Technical Session 4: Transport & Technology



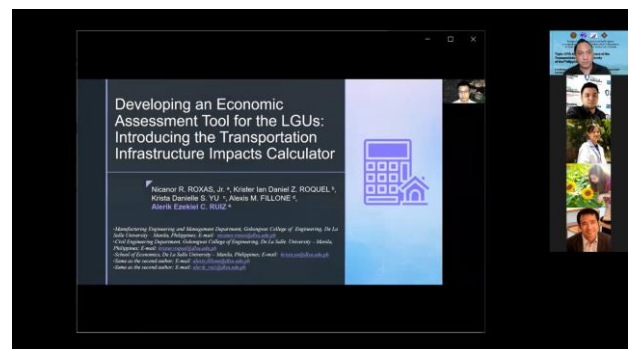
30 – Presentation of the first paper in Technical Session 4 by Ms. Rachel Habana (Regular Member)



31 – Ms. Roxanne Vergara presenting their paper on suitable location of EV charging stations



32 – Third paper presentation on suitability analysis of hospitals by Ms. Charissa Allyana Chua and Ferro Genevieve Grace Lao



33 – Mr. Alerik Ezekiel Ruiz (Associate Member) presenting their paper on transport infrastructure impacts calculator in Technical Session 4



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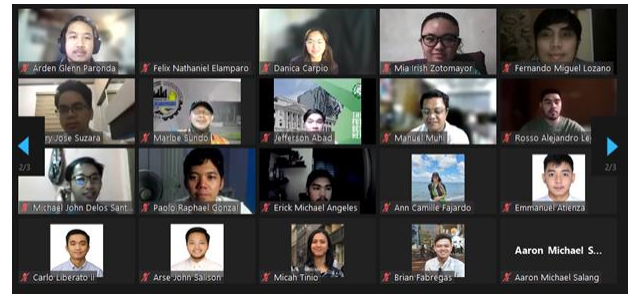
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34 – Group photo of participants of Technical Session 4 (1/2)

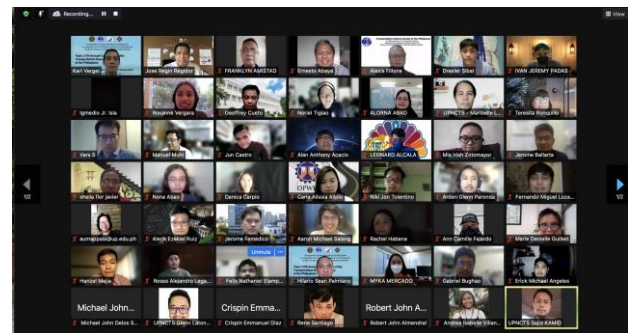


35 – Group photo of participants of Technical Session 4 (2/2)

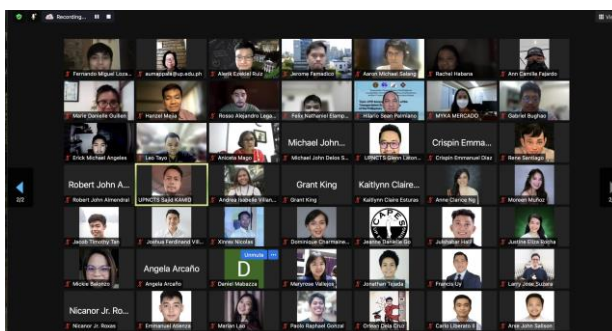
## Closing Session



36 – Dr. Karl B. N. Vergel, TSSP Vice President, delivering his closing remarks for the 27<sup>th</sup> TSSP Annual Conference



37 – Group photo of participants right after the closing remarks (1/2)



38 – Group photo of participants right after the closing remarks (2/2)



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## CONFERENCE POSTER



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and the UP National Center for Transportation Studies

### **Topic: 27th Annual Conference of the Transportation Science Society of the Philippines**

**Conference Theme: *Imagineering a Post-Covid Transportation  
Landscape***

**RTD Theme: *Public Transport Reforms in Transition: Policy Lessons  
and Prospects on Competition, Consolidation and Contracting for  
the Philippine Road-based Public Transport Sector.***

Webinar via Zoom  
November 19, 2021

#### **Registration is free!**

Morning session with the  
roundtable discussion will  
be open to the general public.  
Afternoon technical sessions  
will be for members and invitees  
only (a separate Zoom link will  
be provided).



Registration Link:



<https://tinyurl.com/5f23fdd7>