



Gain insights, track progress, and make data-driven decisions in your projects by using Power BI.



RCI and Trade Innovations Seminar Series No. 14

## RCI Dashboard – Harnessing Power BI for monitoring RCI Operations

28 July 2023 (Friday) | 2:00-3:30 pm (Manila time) via MS Teams

The Regional Cooperation and Integration and Trade Division (CCRC) organized the RCI and Trade Innovations Seminar Series No. 14 on 28 July 2023 from 2:00 to 3:30pm via MS Teams with more than 30 participants across ADB. The session presented Power BI as a powerful business intelligence tool for data visualization and introduced the RCI Dashboard by showing how to tap Power BI in developing similar databases.

### Welcome Remarks.

Cyn-Young Park, Director, Regional Cooperation and Integration and Trade Division (CCRC), CCSD, in her Welcome Remarks, mentioned that the RCI Dashboard was developed to help gather information on RCI operations using information from eOps and harnessing the strength of Power BI. The dashboard, being a living database, will be continuously upgraded and improved which will help make RCI information more accessible and its analysis more efficient. She solicited feedback, suggestions, and even requests from participants will help make the dashboard more useful.

### Overview of Power BI

Raul Gaitmaitan, CCSD Operations Analyst, gave an overview of Power BI highlighting the basic features and use. Raul emphasized that Power BI allows users to create and adjust visualizations based on individual needs. With Power BI, users will be able to look at data from different perspectives and find insights into data relationships that help make better informed decisions. He mentioned that a real time and life application of Power BI is the RCI Dashboard and the creation of the Climate Change and Sustainable Development Department Dashboard which will be available to staff and management.

### Power BI in ADB Projects

Eduardo Angeles, CCRC Consultant, introduced the RCI Dashboard using Power BI noting that it is live and running which is a collection of ten (10) reports focusing on project-level inputs for Operational Priority 7 and uses 60+ measures and over 20 variables in a 21-year time series condensed into responsive and interactive visuals. Unless specified, values in the dashboard correspond to ADB's Financing Commitment, Number of Committed Projects and RCI tagging (with or without RCI component). Its 5 key elements are Filter Pane, Value Switch, Tooltips and Visual Information, Drilldown, and User options (for selected visuals). The dashboard's

primary data sources are eOPS Database and MS Excel from regional departments submitted to RCI. Part of the customization done was to include sub-regional data tagging. More improvements are happening in the coming months.

### **Moderated Q&A**

Aileen Pangilinan, Senior Economics Officer, moderated the session which provided clarifications and additional information:

- Power BI can be access in ADB through the software center; need to request ADB IT support to configure it in your laptop.
- Accurate data is the main considerations to have accurate data generation.
- Updating happens every 4:00 am in order to generate real-time data for the RCI Dashboard.
- It took about 5 months to develop the RCI dashboard for approximately \$50,000.
- It was mentioned that the coverage is past 20 years, how was data analyzed during the ADB shift from counting approvals to commitments in 2017? - We started counting the commitments starting 2017, but prior to that it's all just approvals and then it shifted to commitments. Approvals will be counted as commitments retroactively.
- On the customization, how difficult is it to customize the reports – level of user customization in each report of the dashboard is quite extensive.
- How are you updating the current list which I understand came from a one-off submission from the RDs? – The information in the dashboard comes from two sources, eOps and Excel file. The submissions from the RDs are the Excel files, so that's part of some customization that it did for that part of the report. What we're planning is to request from the RD's at least maybe 2 submissions, a middle of the year and then at the end of the year on the approvals.
- Is there a support in ADB that can help develop similar database? - A staff can develop our BI database, however, since it takes time to generate and create visuals, consultants may be recruited for support in developing the database.
- Does the database capture any cancellations on project commitments (partial or full)? - The tagging is if the project is cancelled or terminated. No tagging for full or partial termination, so it either terminated, cancelled or active.
- How will the sovops work affect the RCI Dashboard? - Sovop will eventually replace eOps. Sovops core team was informed about RCI dashboard development and will be using, so according to them this will all be absorbed under eOps. But what we've done is a good starting ground and all the information will eventually be captured in sovops.
- How are you going to reconcile in the database the project reassignments pre- and post-NOM? - What we will be doing is capturing the processing, the vision and department and also the administering department. We will distinguish between which department is doing the administration and which project is doing the processing, and this will also be available to users.
- There will be a technical manual that can be used as reference should anyone be interested in implementing the process and technical information involved in developing the RCI Dashboard.
- Thank you for a very interesting presentation and answering my questions. May I also share the Education Dashboard that was done in 2017 (Cognos) that is continuously still being updated and improved  
[https://asiandevbank.sharepoint.com/sites/comm\\_edsg/SitePages/Home.aspx](https://asiandevbank.sharepoint.com/sites/comm_edsg/SitePages/Home.aspx)We will

reach-out to RCI team to consult on possibly shifting to a Power BI version that looks more user friendly. Thanks again and congratulations to the RCI Team!

### **Results of the Post-Training Evaluation**

The following are the results of the survey conducted from respondents composed of ADB personnel (staff, consultants, contractors):

- How many years have you been working on Regional Cooperation and Integration (RCI): 37.50% for 1-3 years, 25% for those within 7-10 years and 12.50% for those in 10 or more years, and less than 1 year.
- Seventy-five per cent (75%) strongly agreed that the objectives of the training were achieved, and 25% confirmed their agreement. On the statement that their knowledge/skills/understanding in the subject matter increased as a result of this event, 62.50% strongly agreed and 37.50% agreed. Seventy-five percent (75%) of the respondents strongly agreed that they are confident to be able to immediately apply learnings from this event and 25% agreed too. Of the respondents, 62.50% disagree that they DON'T have enough resources to apply or use what I learned from this event, while 12.50% each for those who strongly disagree, agree and strongly agree. Fifty-seven percent (57%) agree that they will recommend this program to their colleagues while 43% strongly agree to do so.
- Respondents specified parts of the program are most useful to their line of work such as developing a user-friendly database, updating and monitoring of the CAREC project portfolio database, how to navigate the Power BI, the visuals that can be generated from the RCI dashboard, and the practical and frank discussion during the Q&A.
- As to where to apply what was learned during the training, the respondents will apply the learning to the sector data, developing similar database, coming up with several reports, accessing information and report creation, and hopes usage of the dashboard for project monitoring so as not to maintain individual excel files.
- All (100%) respondents indicated that duration is just enough, with 71% noting that Resource Persons are well-informed and 86% indicated that topics discussed were relevant.
- The respondents were satisfied with the training as there were no suggestions provided on how to improve the event.

There were comments given thanking CCRC for sharing ways to make data management in ADB easier to manipulate and analyze, and for introducing Power BI as new way to present information and emphasizing on the use of timely and accurate data in the projects.

## Documentation

- **Session Recording via Stream:** [RCIT ISS No. 14: RCI Dashboard – Harnessing Power BI for monitoring RCI Operations](#)
- **Power Point presentations**
  - [Overview of Power BI](#)
  - [RCI Dashboard v4.2.2](#)
- **Photos**

**RCI and Trade Innovations Seminar Series No. 14**

# WELCOME

**RCI Dashboard – Harnessing Power BI for monitoring RCI Operations**

As people are joining this session, please get started with the items below:

- Set **your name** in MS Teams so people can identify you and so we can share with you the session materials.
- Please **mute** your microphone
- You may **turn on your video** especially during the Q&A.
- Please write your questions and comments **in the chat box** or use **raise hand** icon to share questions/ideas during the Q&A.
- Having technical issues?** Please ask for our TechSupport team in the Chat box.
- Care for your comfort:** Food, drink, quiet environment, pen/paper, headset to block out noise.
- Please help us improve future RCIT sessions by filling up **short survey**
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RCI and Trade Innovations Seminar Series 14: RCI Dashboard: Harnessing Power BI for Monitoring RCI Operations

15:50

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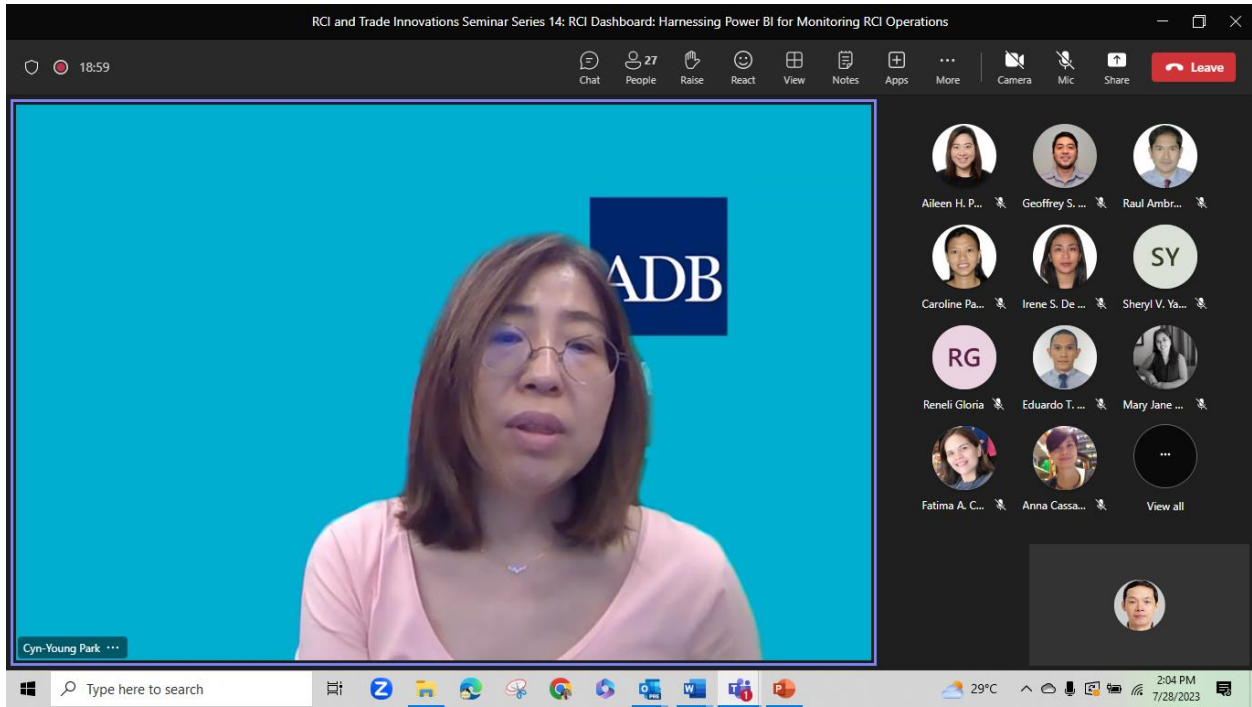
Aileen H. Pangilinan

Cyn-Young Park

Geoffrey S. ... Raul Ambr...  
Caroline Pa... Irene S. De ...  
SY RG  
Sheryl V. Ya... Reneli Gloria  
Eduardo T. ... View all

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20:15

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## What is Power BI

- Power BI is a collection of software services, apps, and connectors.

Power BI

- Power BI can be simple and fast.

Raul Ambrosio F. Gatmaitan

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## Building blocks of Power BI

In Power BI, a **tile** is a single visualization found in a report or on a dashboard. It's the rectangular box that contains each individual visual.

Raul Ambrosio F. Gatmaitan

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27:12

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## RCI Dashboard v4.2.2

**Aileen H. Pangilinan**  
*Senior Economics Officer, CCSD*  
  
**Eduardo Ty Angeles**  
*Staff Consultant*

Eduardo T. Angeles

Raul Ambrosio ... Geoffrey S. ...  
 Cyn-Young... Aileen H. P...  
 Eduardo T. Ang... Mary Jane ...  
 Fatima A. C... View all

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27:32

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## The RCI Dashboard

- Collection of ten (10) reports focusing on project-level inputs for Operational Priority 7
- Uses 60+ measures and over 20 variables in a 21-year time series condensed into responsive and interactive visuals
- Unless specified, values correspond to ADB's Financing Commitment, Number of Committed Projects and RCI tagging (with or without RCI component)
- Developed using Power BI
- Primary Data source: eOPS Database, MS Excel

RCI Dashboard v4.2.2

Eduardo T. Angeles

Raul Ambrosio ... Geoffrey S. ...  
 Cyn-Young... Aileen H. P...  
 Eduardo T. Ang... Mary Jane ...  
 Fatima A. C... View all

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31:54

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### Key Elements

1. Filter Pane
2. Value Switch
3. Tooltips and Visual
4. Drilldown
5. User options

RCI Dashboard v4.2.2

Eduardo T. Angeles

Participants

Invite someone or dial a number

Share invite

In this meeting (11)

Mute all

- Jay H. Presaldo
- Aileen H. Pangilinan Organizer
- Altynay Arapova
- Angela Kristine Botial Escudero
- Anna Cassandra S. Melendez
- Bayarmaa Amarjargal
- Caroline Patacil-Cruz
- Cyn-Young Park
- Dorothy C. Geronimo

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### RCI Dashboard Reports

1. Highlights
2. Coverage
3. Bankwide
4. Region
5. Regional Department
6. Subregional Program
7. Sectors
8. Operational Priorities
9. RCI Reporting

#### ADB ADB Projects with RCI Component (OP7 tagged)

## 2023

- Amount: 81.35bn (26.5%)
- Projects: 2,039 (28.4%)
- Countries Assisted: 41

RCI Dashboard v4.2.2

Eduardo T. Angeles

Participants

- Raul Ambr...
- Cyn-Young...
- Aileen H. P...
- Eduardo T. Ang...
- Mary Jane ...
- Fatima A. C...
- Anna Cassa...
- View all

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RCI Reports ver 4.2.2

Geographical Distribution, ADB Projects with RCI Component (OP7 tagged)  
Region: Central and West Asia East Asia Pacific Regional South Asia Southeast Asia

Project Number	Project Name	Country	Region	Commitment \$
51309-001	Inclusive Finance Development Program (Subprogram 1)	Philippines	Southeast Asia	\$300,000,000
52083-002	Malolos-Clark Railway Project (PFR 1)	Philippines	Southeast Asia	\$1,300,000,000
53047-001	Capital Market-Generated Infrastructure Financing Program (Subprogram 1)	Philippines	Southeast Asia	\$400,000,000
53047-003	Support to Capital Market-Generated Infrastructure Financing Program - Subprogram 2	Philippines	Southeast Asia	\$400,000,000
53353-001	Competitive and Inclusive Agriculture Development Program (Subprogram 1)	Philippines	Southeast Asia	\$400,000,000
54171-003	Second Health System Enhancement to Address and Limit COVID-19 under the Asia Pacific Vaccine Access Facility	Philippines	Southeast Asia	\$650,000,000
<b>Total</b>				<b>\$3,450,000,000</b>

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51:45

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**Meeting chat**

Dorothy C. Geronimo 2:14 PM  
What is the data source being mined by the dashboard? Is it the same source as the Operations DB?  
👍 1

Thank you, therefore eOps is the data source of the Power BI DB.  
👍 1

Thanks.  
It was mentioned that the coverage is past 20 years, how was data analyzed during the ADB shift from counting approvals to commitments in 2017?  
👍 4

Bayarmaa Amarjarqal 2:23 PM

Type a new message

RCI Reports ver 4.2.2

Central and West Asia East Asia Pacific Regional South Asia Southeast Asia

By Country: Pakistan

Country	ADB Commitment	Transport	Public sector	Industry and trade
Pakistan	\$6,125,410,000	\$2,405,100,000	\$2,902,000,000	\$801,300,000
Uzbekistan	\$5,202,125,000			
Alghanistan	\$3,513,593,345			
ADB Commitment	\$26,768,720,852			

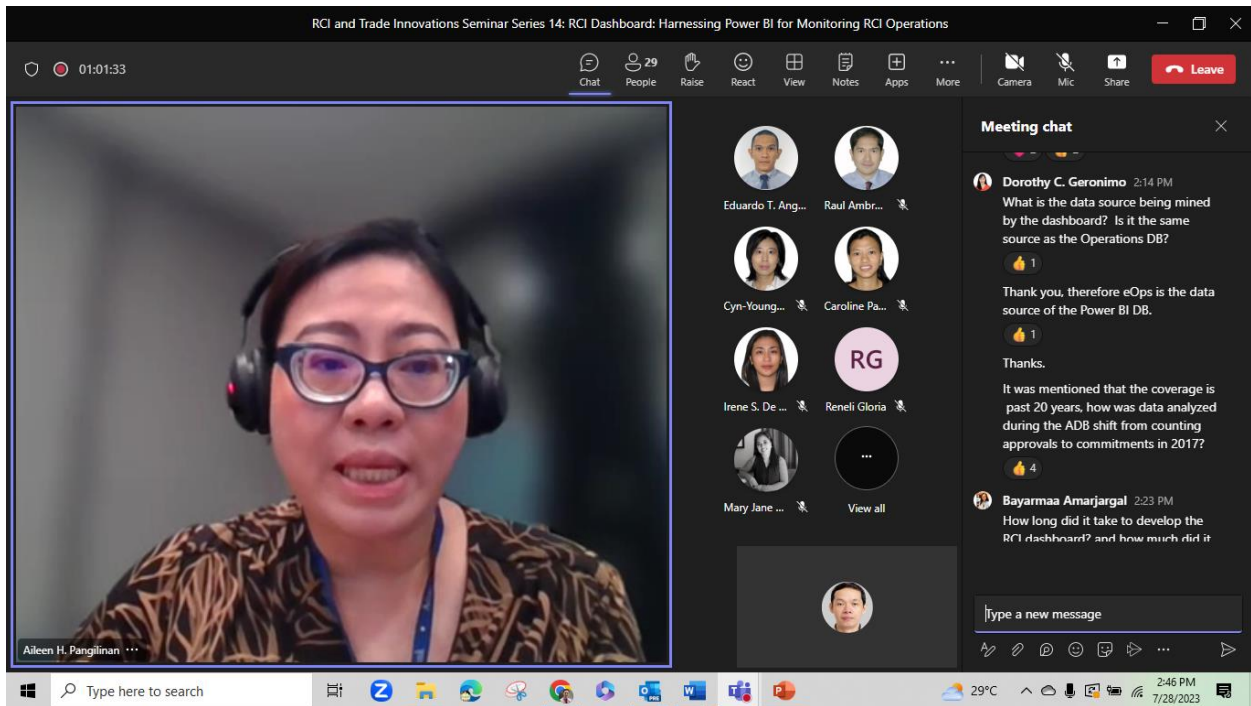
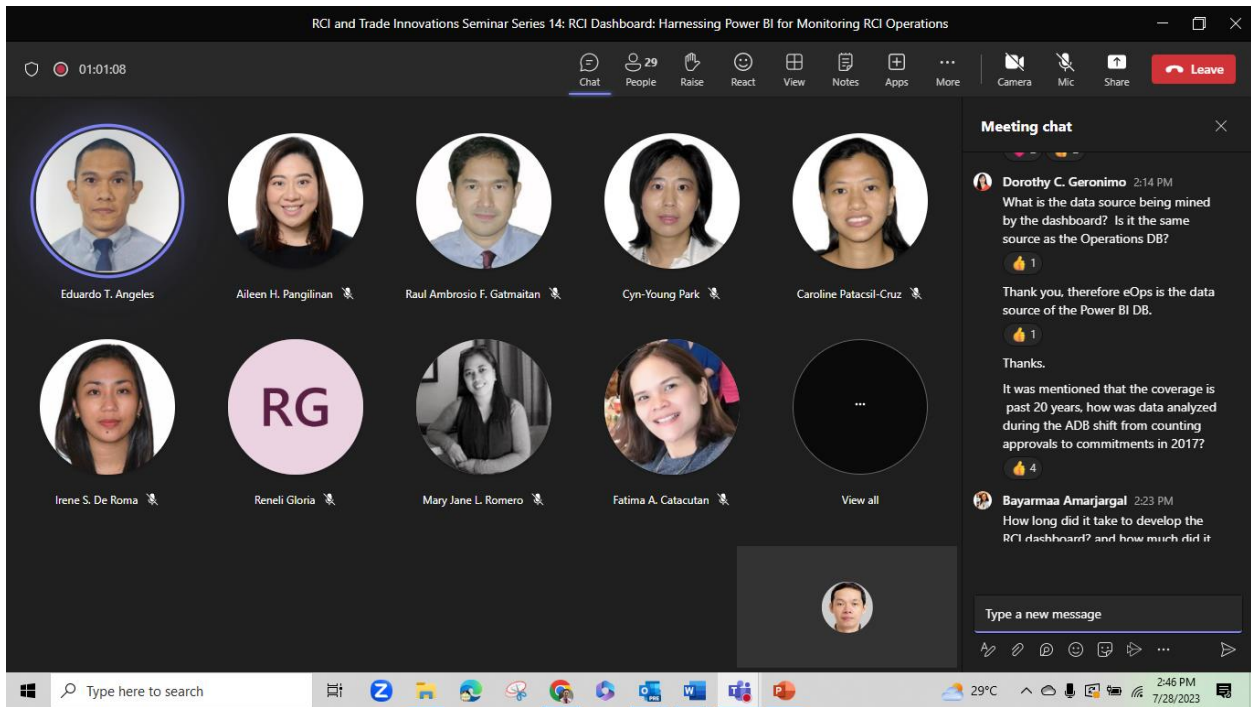
Project Number	Project Name	Country	Region	Commitment \$
56148-001	Building Resilience with Active Countercyclical Expenditures Program	Pakistan	Central and West Asia	\$1,500,000,000
54188-001	COVID-19 Active Response and Expenditure Support Program	Kazakhstan	Central and West Asia	\$1,000,000,000
56149-001	Building Resilience with Active Countercyclical Expenditures Program	Uzbekistan	Central and West Asia	\$500,400,000
49370-002	National Power Grid Strengthening Project	Turkmenistan	Central and West Asia	\$500,000,000
50117-001	Shah Deniz Gas Field Expansion Project	Azerbaijan	Central and West Asia	\$500,000,000
52049-001	Trade and Competitiveness Program (Subprogram 1)	Pakistan	Central and West Asia	\$500,000,000
54160-001	COVID-19 Active Response and Expenditure	Uzbekistan	Central and West Asia	\$500,000,000
<b>Total</b>				<b>\$36,768,720,852</b>

Eduardo T. Angeles

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# Thank you

**RCI Dashboard –  
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monitoring RCI Operations**



We value your feedback. Please help us to improve future RCIT sessions by filling-up the survey question:



Link to SurveyMonkey provided in the chat box [RCI Dashboard - Harnessing Power BI for monitoring RCI operations Survey \(surveymonkey.com\)](#)



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