



DigiNar III: Challenges at the outbreak of COVID-19 and the initiatives taken by NRENs

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Presented in DigiNar-III: Challenges at the outbreak of COVID-19 and the initiatives taken by NRENs, 7 May 2020

Outbreak of the COVID-19

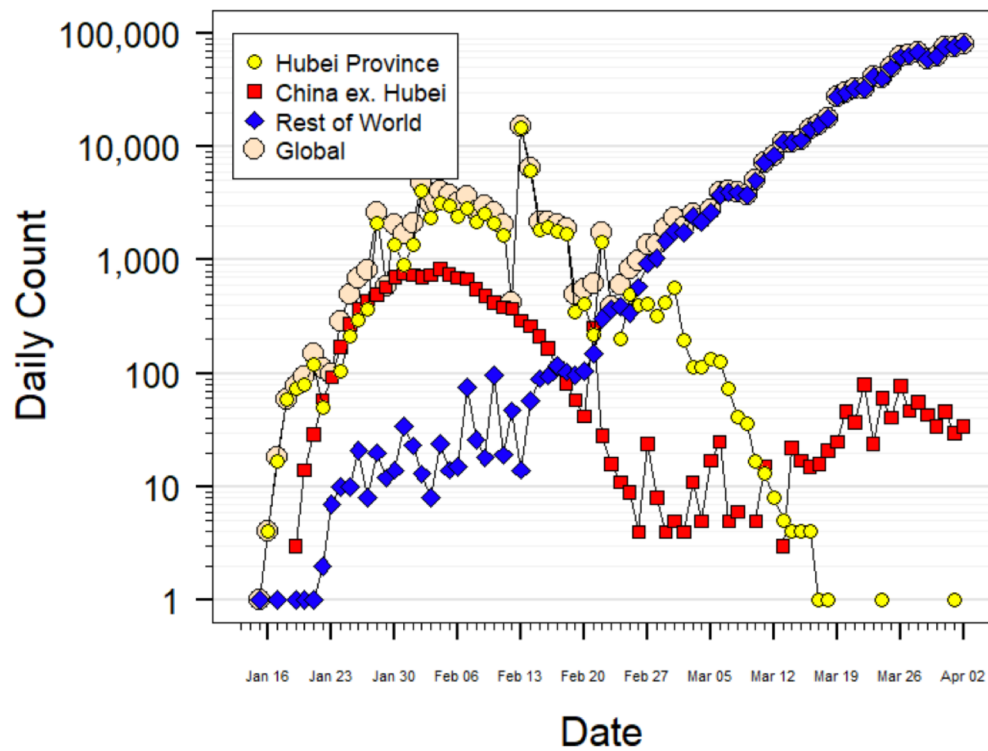
- December 2019
 - The first documented admission of SARS-CoV-2 patient to a hospital on 15-16 December
 - The Wuhan Municipal Health Commission informed the city community about the pneumonia outbreak on 31 December
- January 2020
 - New confirmed cases were first founded outside China
 - China National Health Commission confirmed that the coronavirus can be transmitted between humans (20 January)
 - The government announced a quarantine until further notice, cancelling outgoing flights and trains from Wuhan, and suspending public transportation in Wuhan (22 January)

List of countries and territories that confirmed their first cases

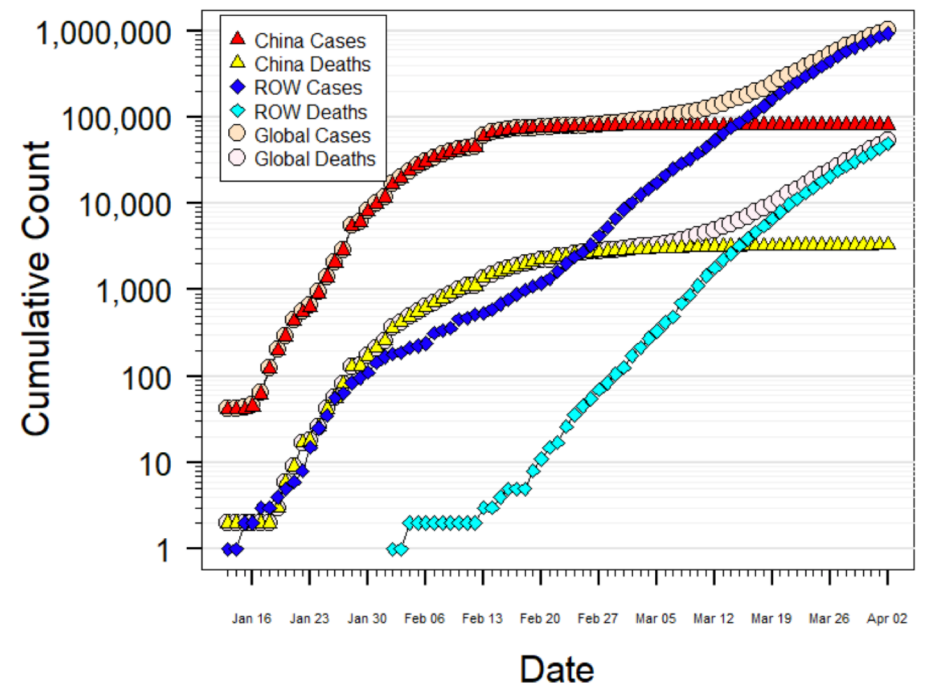
Date	Country or territory
2 January	 China
13 January	 Thailand
16 January	 Japan
20 January	 South Korea •  United States
21 January	 Taiwan
22 January	 Hong Kong •  Macau
23 January	 Singapore •  Vietnam
24 January	 France •  Nepal
25 January	 Australia •  Canada •  Malaysia
27 January	 Cambodia •  Germany •  Sri Lanka
29 January	 Finland •  United Arab Emirates
30 January	 India •  Italy •  Philippines
31 January	 Russia •  Spain •  Sweden •  United Kingdom

Source: https://en.wikipedia.org/wiki/Timeline_of_the_COVID-19_pandemic

COVID-19 daily cases by region



COVID-19 total cases and deaths by region



Source: https://en.wikipedia.org/wiki/Timeline_of_the_COVID-19_pandemic

Reactions and Measures in Thailand

- 3 Jan- began screening passengers arriving from Wuhan at four different airports
- 28 Jan – starts scanning all travelers from China
- 26 Feb – advised travelers to postpone trips to high-risk countries
- 4 Mar – travelers arriving from high-risk countries to self-quarantine and register their addresses
- 17 Mar – [Cabinet approves plans to close schools and universities](#), and postpone Songkran holidays
- 22 Mar – all department stores and markets in Bangkok are closed
- 2 April – announced a nationwide curfew between 10 p.m. and 4 a.m. starting from 3 April to contain the spread of the coronavirus
- 6 April – ban on incoming passenger flights

Challenges

- How to contain the spread of coronavirus?
 - Social distancing
 - Personal protective equipment
 - Lockdown
 - Tracking (i.e., mobile apps for PUI/visitors)
- Fight against COVID-19
 - Policy issue
 - Economic issue
 - Social issue
 - Research in medicine : drug and vaccine
- New Normal



Picture source: <https://www.sanook.com/news/8122774/gallery/>

Challenges & Initiatives by NREN

- Schools and universities have been closed to avoid the spread of COVID19
 - The situation has not been prepared in advance
 - Ongoing classes in universities
 - Each university/institution is on its own decision
 - There are many available platforms and tools (i.e., Zoom, Cisco Webex, Microsoft teams, Vidyo, etc.). However, the instructors and students in universities were not trained to use those tools.
- Offer network services, platform and tools by NREN for
 - Distant/Online Education
 - Online Meeting
 - Video Conferencing
 - Webinar

Thailand Massive Open Online Course



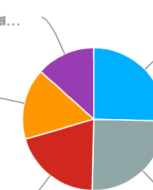
Thai MOOC

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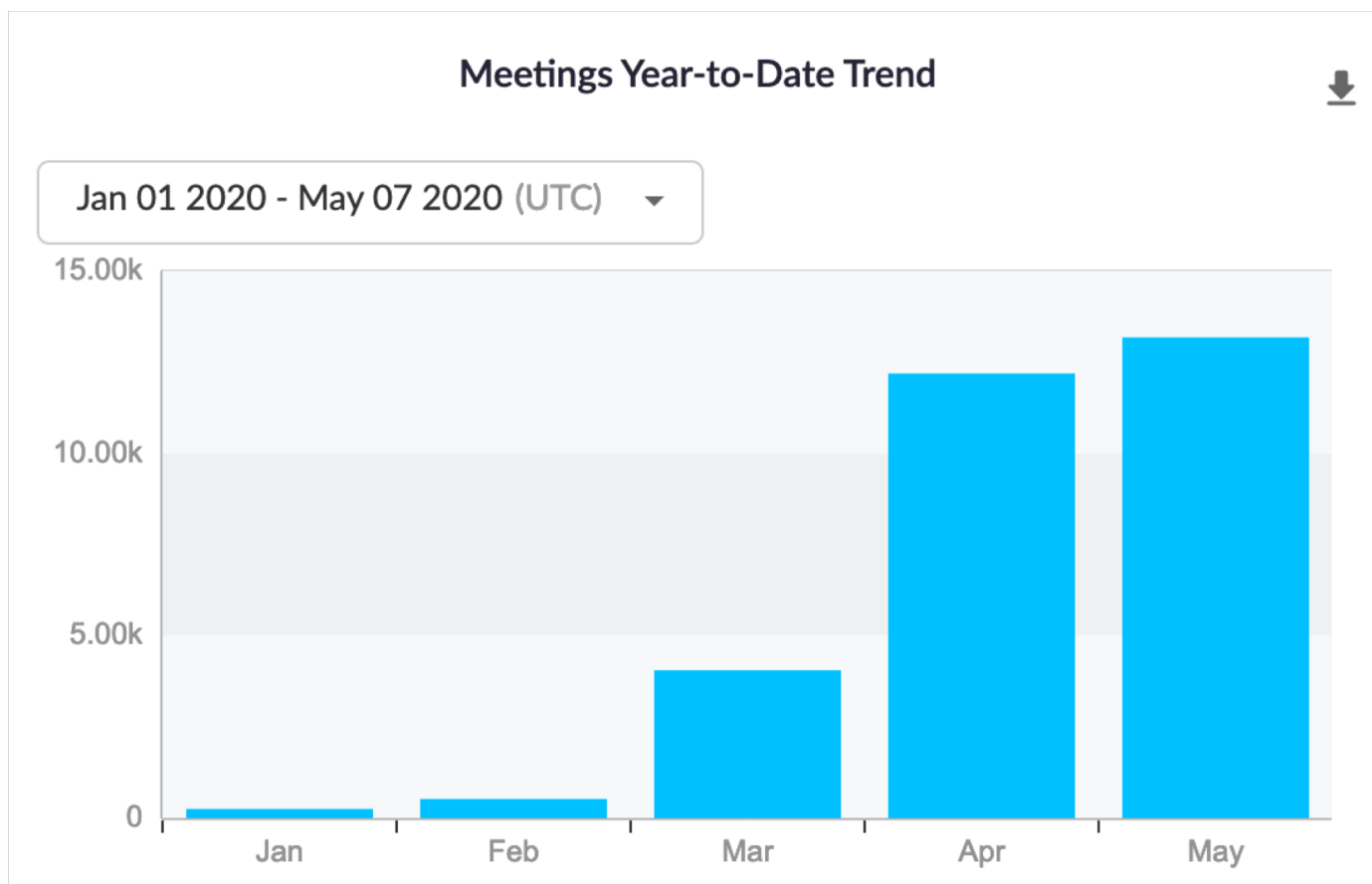
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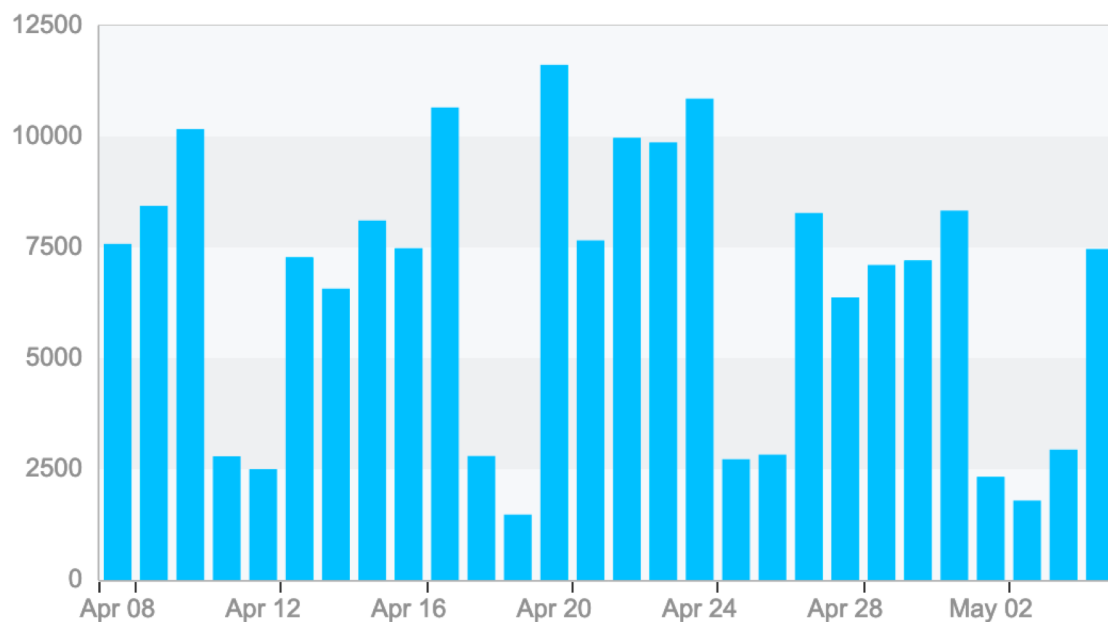
Zoom Usage



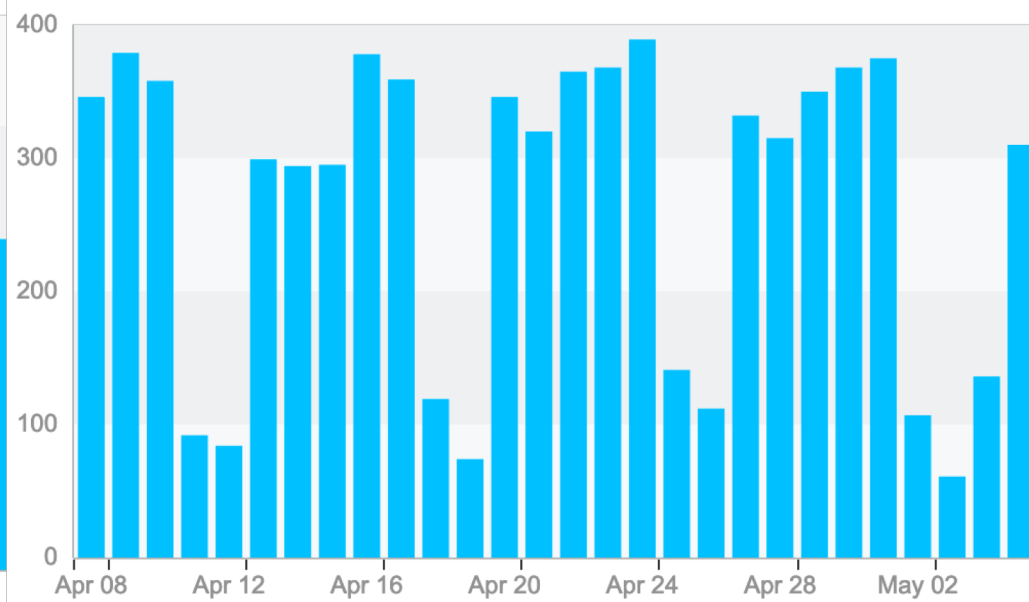
Zoom Usage



Usage By Participants ▾



Usage By Meetings ▾



Thank You