Asia Pacific Internet Engineering Program

AP* Retreat

Bangkok, 26 Feb 2024

APIE

Asia Pacific Internet Engineering Program

- **Community based** education program
- University students and **young people** in the Asia Pacific
- Skills needed to meet the global demand for Internet engineers in industry and academia, including **RENs**.

4 Advisory members & 9 Curriculum Committee members from ..

SOI AITAC WIDE PROJECT APNIC FOUNDATION APNIC

Objectives

1. Understand the **philosophy** and practical **skills** of Internet operation and engineering.

2. Join a **community** and build a **human network** in the **Asia Pacific** region for the Internet operation, engineering, and research for the **future**.

3. Build connections to the **industry** in the Asia Pacific region for their **future career**

APIE

1279 learners

90 economies

As of October 8, 2023

APIE

APIE Online Course #1

Understanding the Internet

4 weeks x **3** hours

APIE Online Course #2

Operating the Internet

5 weeks x **5** hours

APIE Camp

5 days x **7** hours

APIE Internship

APIE e-Workshop
1.5 hours x Bi-weekly Meet-ups

APIE Online Course #3
Internet Governance

APIE Advanced Camp

5 days x **7** hours

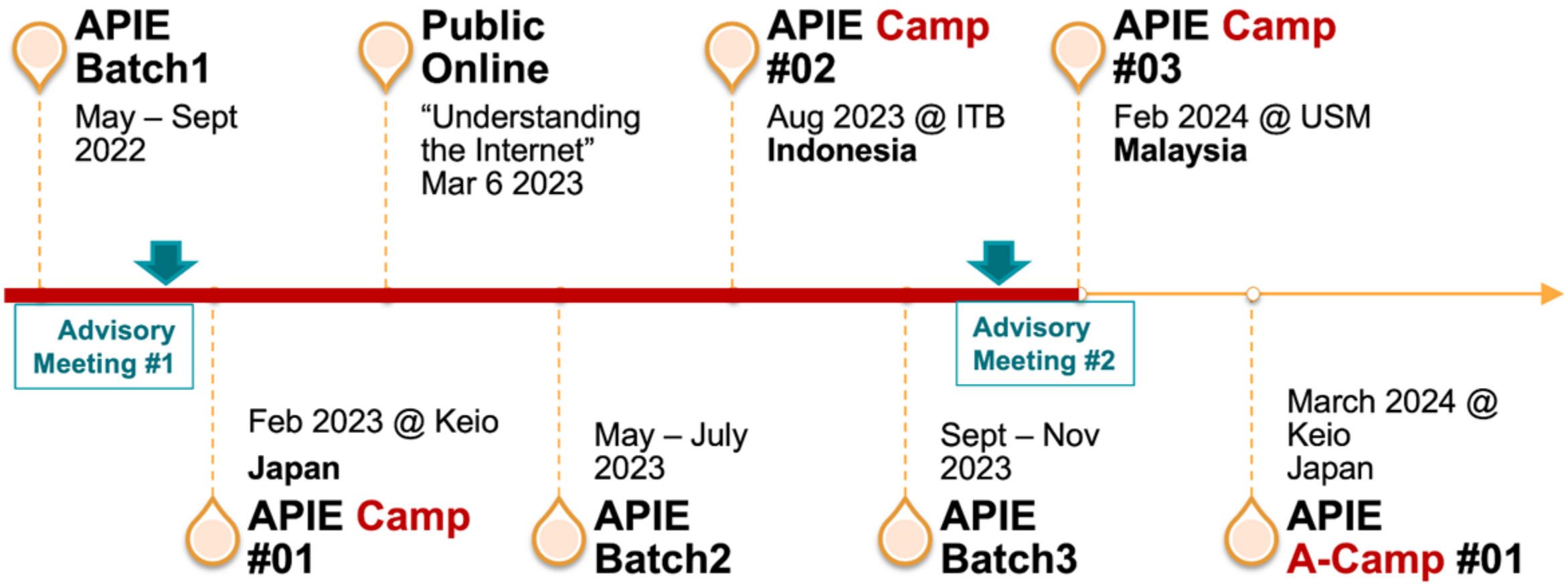
APIE Accomplishments - FIGURES

- Batches: **3**
- Camps: **3 (Keio, ITB, ITB-local, USM, Keio-Advanced)**
- Students enrolled: **555 from 24 universities in 9 economies**
- APIE Badge issued: **381**
- Students joined APIE Camp: **40 (10 local camp)**
- Students joined Internship: **31**
- Public version learners: **775 from 90 countries & economies**
- Guest speakers invited to e-workshop: **14**

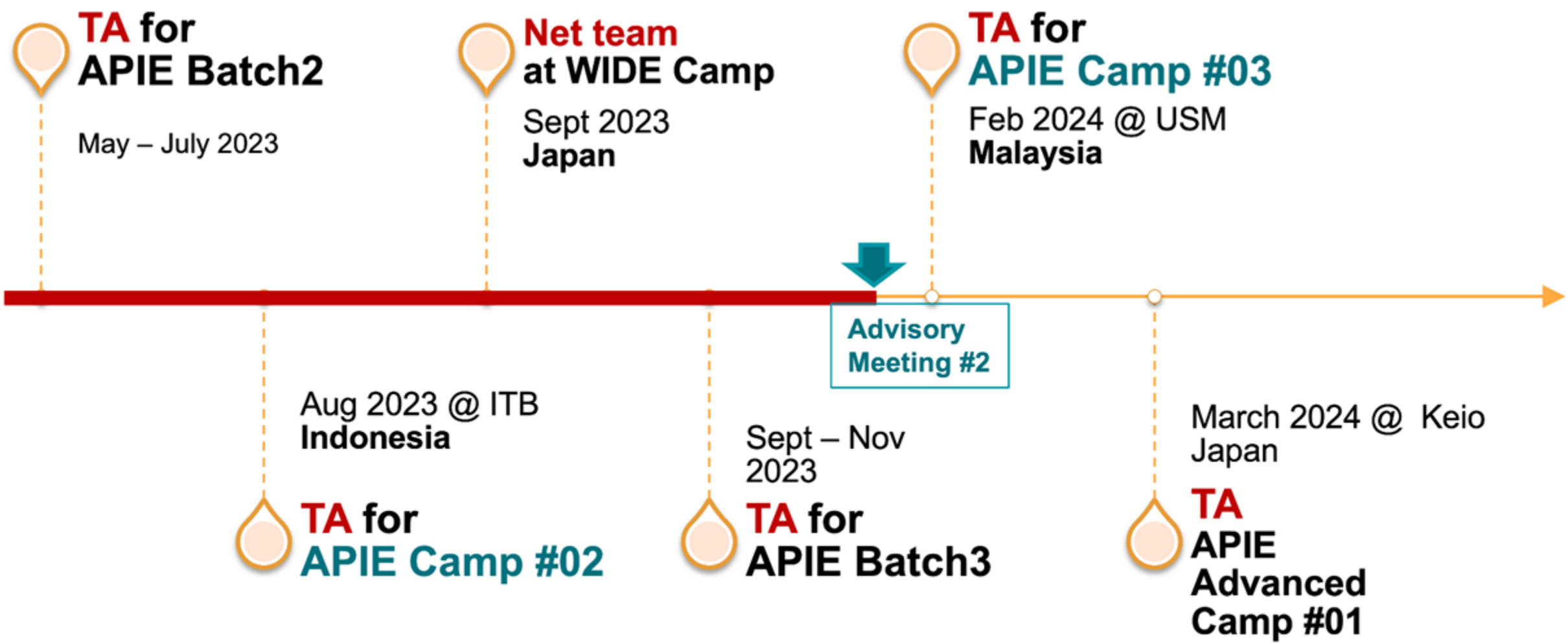
2022-2023 Major Accomplishments

- Course Curriculum Improvement
- APIE camp design & deployment
- Public version released
- Internship program development for APIE graduates
- Online Hands-on improvement
- MoU among WIDE, AITAC and APNIC

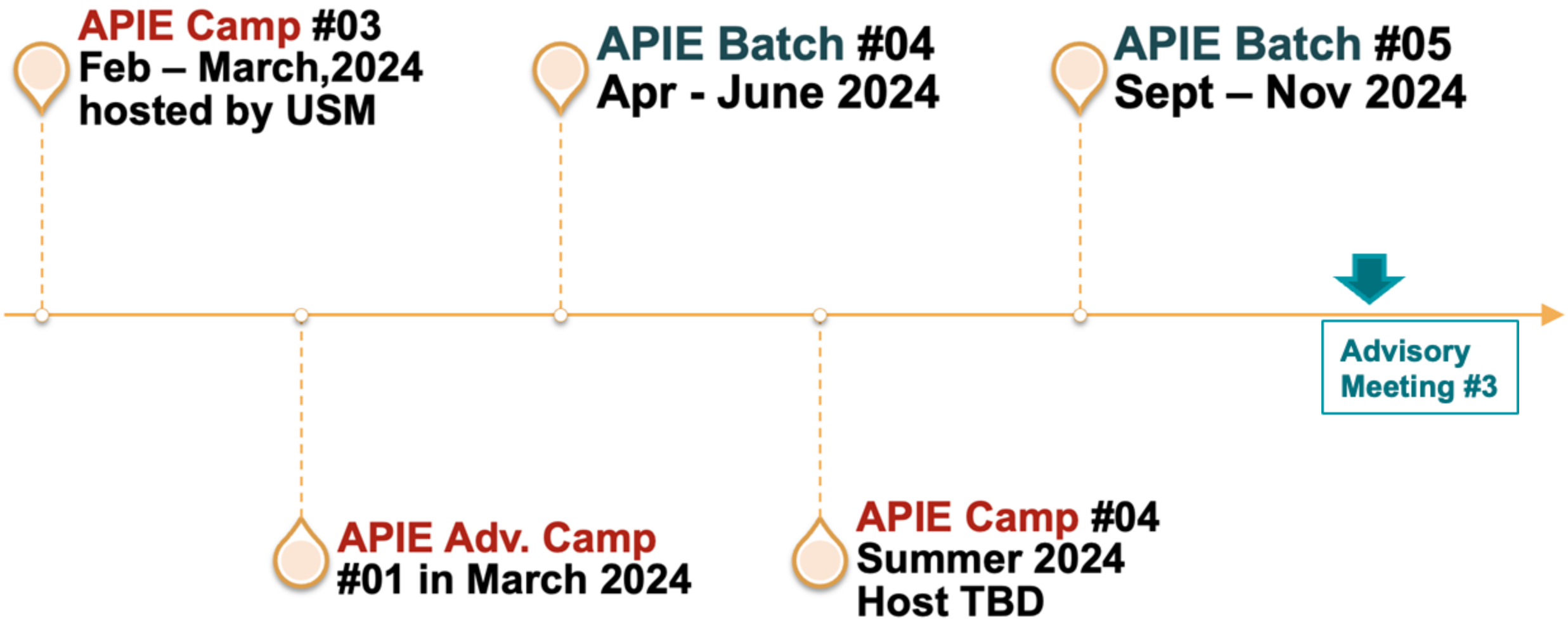
APIE Milestones - Courses & Camps



APIE Milestones - Internships



APIE 2024 Plans



Participants of today's meeting

Name	Affiliation	APIE Role
Jun Murai	Keio University/ WIDE Project	Advisory Board
Che-Hoo Cheng	APNIC	Advisory Board
Kanchana Kanchanasut	Asian Institute of Technology	Advisory Board
Sylvia Cadena	APNIC Foundation	Advisory Board
Keiko Okawa	Keio University / WIDE Project	Advisory Board
Yuji Sekiya	AITAC /WIDE Project /Univ. of Tokyo	Curriculum committee
Seiichi Yamamoto	AITAC/ WIDE Project / Univ. of Tokyo	Curriculum committee
Peter Blee	APNIC	Curriculum committee
Achmad Husni Thamrin	Keio University	Curriculum committee
Achmad Basuki	UB	Curriculum committee
Rahmad Dawood	USK	Curriculum committee
Alwin Sambul	UNSRAT	Curriculum committee
Wan Tat Chee	USM	Curriculum committee
Muhammad Niswar	UNHAS	Curriculum committee
Noriatsu Kudo	Keio University / WIDE project	Curriculum committee

APIE Program Design

APIE Online Course #1

Understanding the Internet

4 weeks x **3** hours

APIE Online Course #2

Operating the Internet

5 weeks x **5** hours

APIE Camp

5 days x **7** hours

APIE Internship

APIE e-Workshop
1.5 hours x Bi-weekly Meet-ups

APIE Online Course #3
Internet Governance (in production)

APIE Advanced Camp

5 days x **7** hours
(March 2024)

APIE Online

Storytelling & Conversation

Project based

#1 Understanding the Internet

- w1: **What** is the Internet?
- w2: **How** is the Internet Working?
- w3: **Application** on the Internet
- w4: Internet Based **Society**

+ Virtual Labs

APNIC Academy & AITAC

#2 Operating the Internet

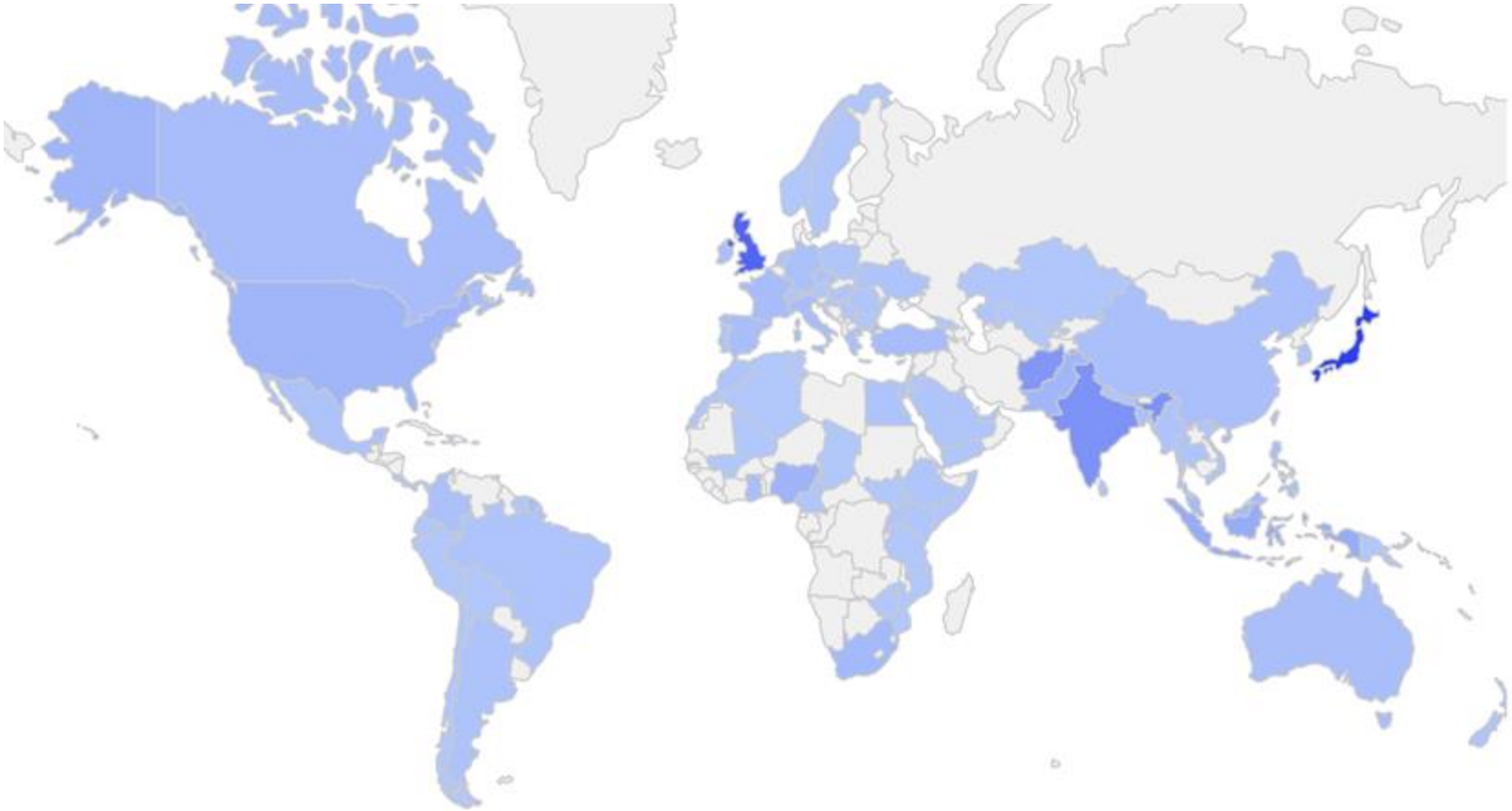
- w1: **Plan** your network
- w2: **Routing** and routers
- w3: **Switching** and physical connectivity
- w4: Managing the **name and address**
- w5: **IPv6** fundamentals


Future Learn
FREE
登録・受講
Discover the inner workings of
the internet, its history, applications,
and global governance protocols.
Online course on FutureLearn
Understanding the Internet
Starts on Feb 27 2023 / Duration : 4 weeks / Weekly Study : 3 hours

APIE

- Understanding the Internet - Public Ver.

Started on March 6, 2023



775 enrolled

90 countries

as of Dec 6, 2023

Understanding the Internet

https://www.futurelearn.com/courses/apie-understanding/2/todo/171045

Operating the Internet

https://www.futurelearn.com/courses/apie-operating/1/todo/128224

APIE E-Workshop

- Objectives
  - Community
  - Career
  - Hands-on
- Bi-Weekly session
  - Saturday 16:00-17:30(UTC+9)
- Contents
  - Guest lectures
  - Hands-on session by AITAC
    - Batch01,02
  - Interop Tokyo Shownet virtual visit (video and VR tour)
  - QA and discussion in breakout room
  - Quiz session by TAs

APIE Camp:
5-day project-based hands-on program

Day1

Network deployment

Day2

Virtualization

Day3

DNS

Day4

Cloud computing & AWS

Day5

Summary & SOC visit

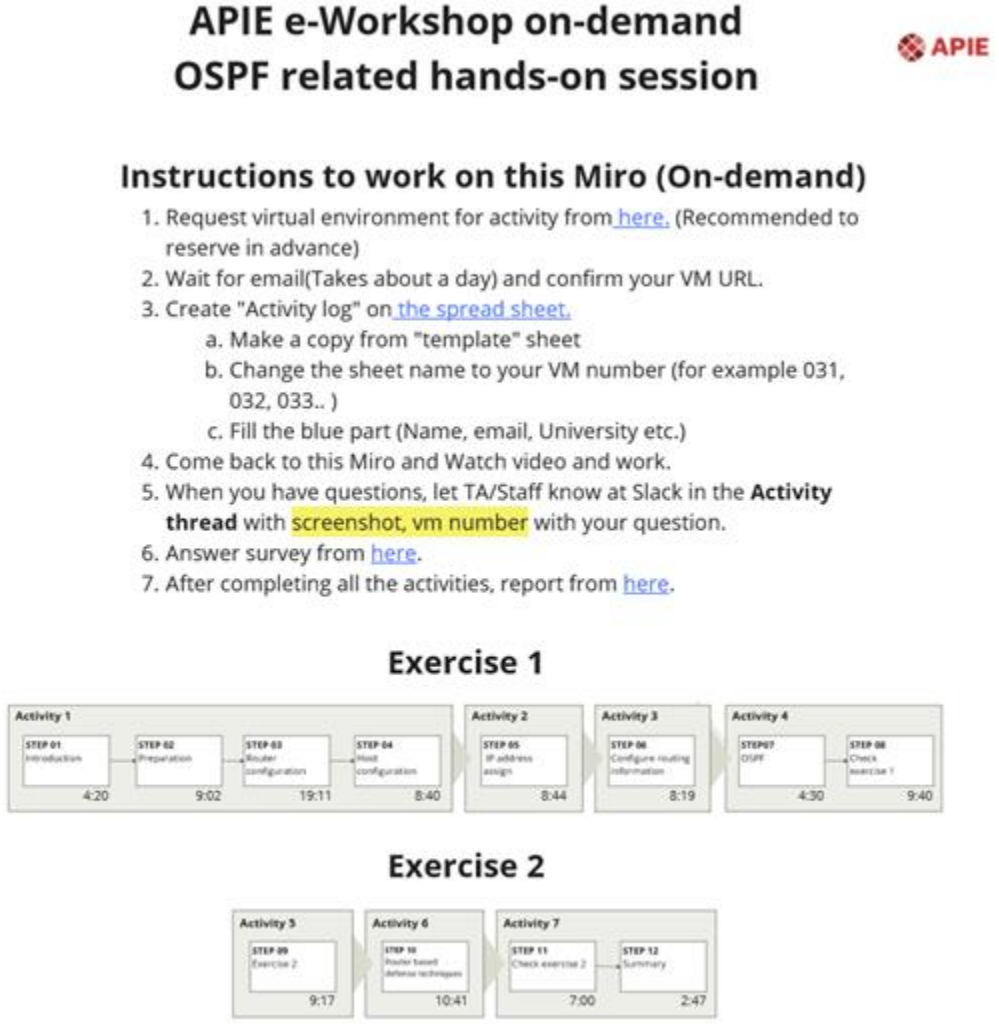
APIE Internship

Stay connected with the community and provide opportunity to use the skills and knowledge from our learning.

- TA Internship for Batch#02/Batch#03
  - 11 interns for Batch#02
  - 8 interns for Batch#03
- Camp TA Internship
  - 6 interns for APIE Camp#02 @ ITB
- WIDE Camp network team Internship
  - 4 interns in September, 2023

Self-paced and **On-demand** hands-on trial
OSPF Live and ondemand session (Part of E-Workshop#03)

- Date
  - 11/5 and 12/2, 2023 (Batch#03)
- Points
  - Combining video clips and virtual lab environment(GNS3) to study at self-paced.
  - Ask questions to TA/Staff and check activity before moving to next step
  - Able to see other student's activity
- Activity and Step
  - Divides an Exercise to Activities and Steps.
    - At the end of each activities, students submit report to TA for checkpoint.
- On-demand
  - Reserve resource and work alone



APIE e-Workshop on-demand

OSPF related hands-on session

APIE

Instructions to work on this Miro (On-demand)

1. Request virtual environment for activity from here. (Recommended to reserve in advance)
2. Wait for email(Takes about a day) and confirm your VM URL.
3. Create "Activity log" on the spread sheet.
   a. Make a copy from "template" sheet
   b. Change the sheet name to your VM number (for example 031, 032, 033..)
   c. Fill the blue part (Name, email, University etc.)
4. Come back to this Miro and Watch video and work.
5. When you have questions, let TA/Staff know at Slack in the **Activity thread** with screenshot, vm number with your question.
6. Answer survey from here.
7. After completing all the activities, report from here.

Exercise 1

Activity 1 | Activity 2 | Activity 3 | Activity 4

4:20 | 9:02 | 19:11 | 8:40 | 8:44 | 8:19 | 4:30 | 9:40

Exercise 2

Activity 5 | Activity 6 | Activity 7

9:17 | 10:41 | 7:00 | 2:47

UB APIE students prepare to deploy IDREN routers and servers

Activity Plan 2024

- APIE Camp @ USM 2024(February 2024)
- APIE Advanced Camp (March 2024)

- APIE Batch 04 (April? 2024)
- mini-internet project
- New online course about “Internet Governance”(March 2024)
- APIE Camp @ Asia 2024
- APIE Batch 05(September 2024)

APIE Internship 2024

We are looking for internship venues and opportunities for APIE graduates

- Company internship
- Event internship
  - WIDE camp
  - APAN
  - APNIC
  - APRICOT
  - etc.

Certificate & Open Badge

SCHOOL ON THE INTERNET

Welcome to Inxignia

Inxignia is a platform that gives you a way to collect, manage, and share your education achievements as digital badges and authenticate them with micro credentials to ensure their authenticity to be used in an e-portfolio to show your competencies to society.