Introduction of APAC FPP

Liu Lujiang

All 9 Active members remain except Sri Lanka

12 User members as below, East Timor may be come back soon

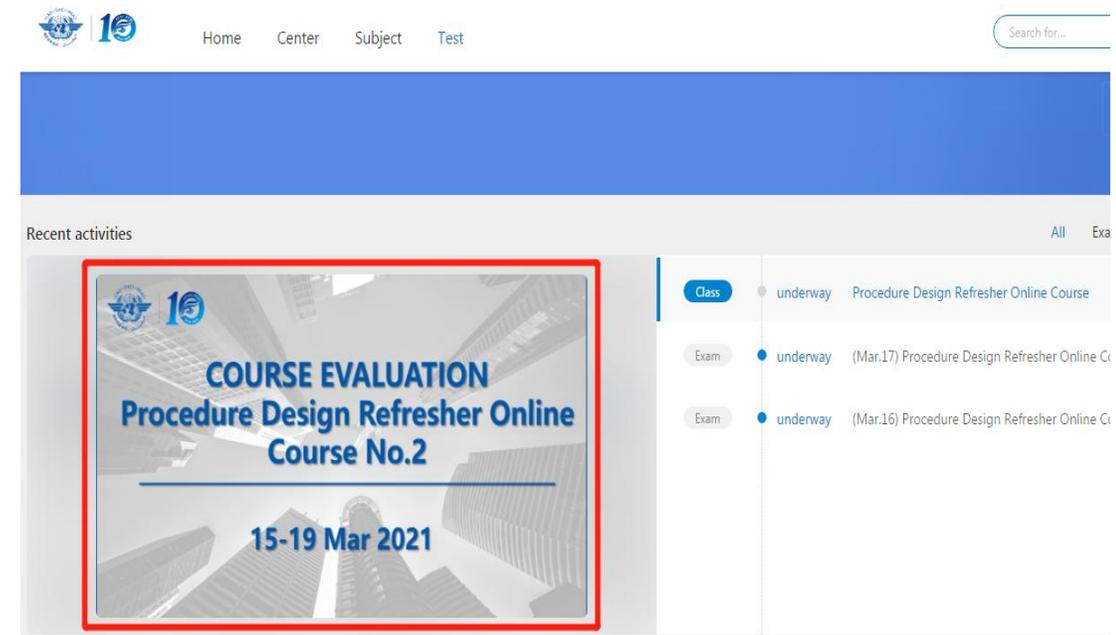| Lao	Malaysia	Cambodia	Myanmar	Pakistan	Sri Lanka
Vietnam	Fiji	Nepal	Maldives	Mongolia	Papua New Guinea

Consulting

The FPP in-house instructors assisted in fight procedures design/ground validation/consulting for **4** states/Administrations which include China mainland, Macao China, Nepal and Fiji in 2021.

Training

6 flight procedure design online training courses/workshop namely, PD **refresher** course, **PBN** PD course, PD **Quality Assurance** Workshop, **RNP-AR** workshop, **PD Seminar** and Pans-Ops PD **Initial** Course were provided to a total of **250 participants** from **24** States.
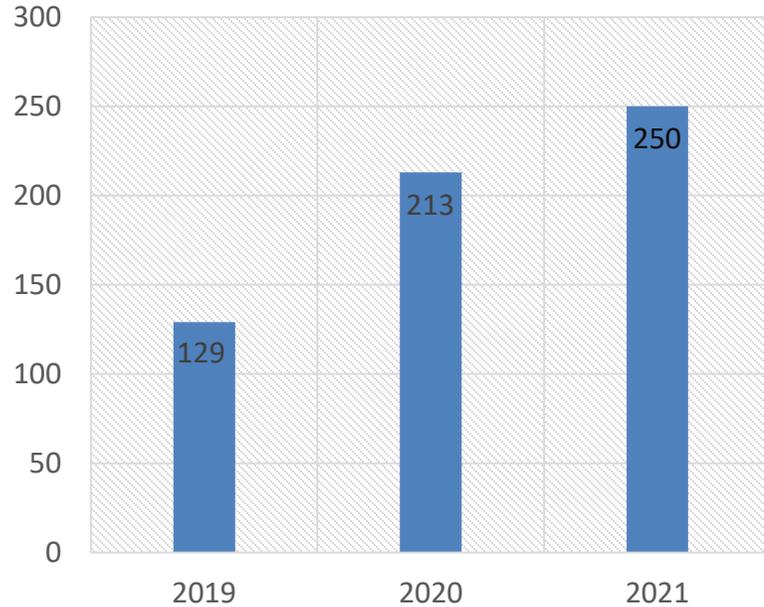
Consulting and training
Quantity Analysis

No. of trainees
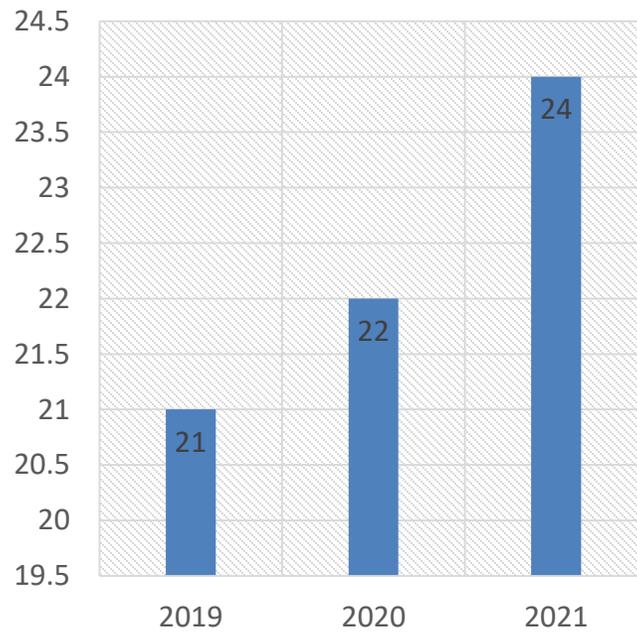
Year	Value
2019	129
2020	213
2021	250

No. of states

Year	Value
2019	21
2020	22
2021	24

Total hours of courses

Year	Value
2020	69
2021	102
2022	141

Consulting and training
Quality Analysis

Satisfaction Survey – extremely satisfied

	Courseware	Instructor	Admin
2020	52%	52%	58%
2021	58%	54%	64%

Legend: ■ 2020 ■ 2021
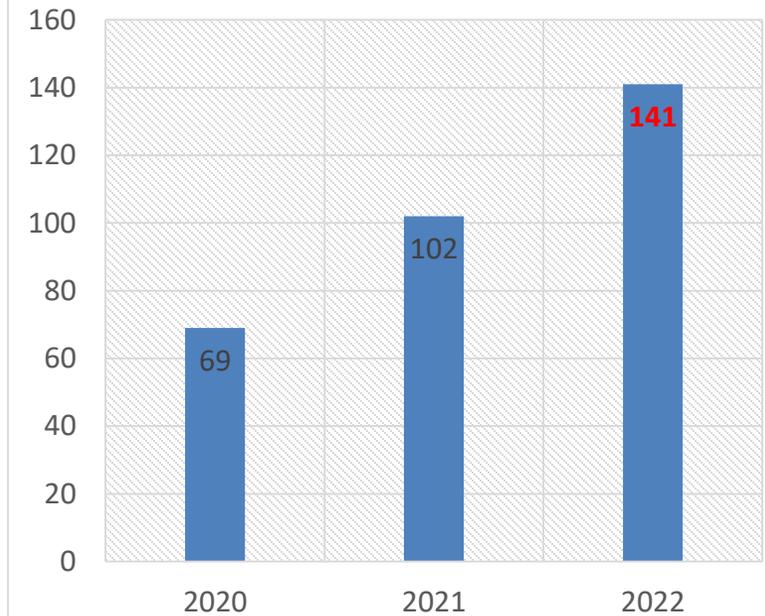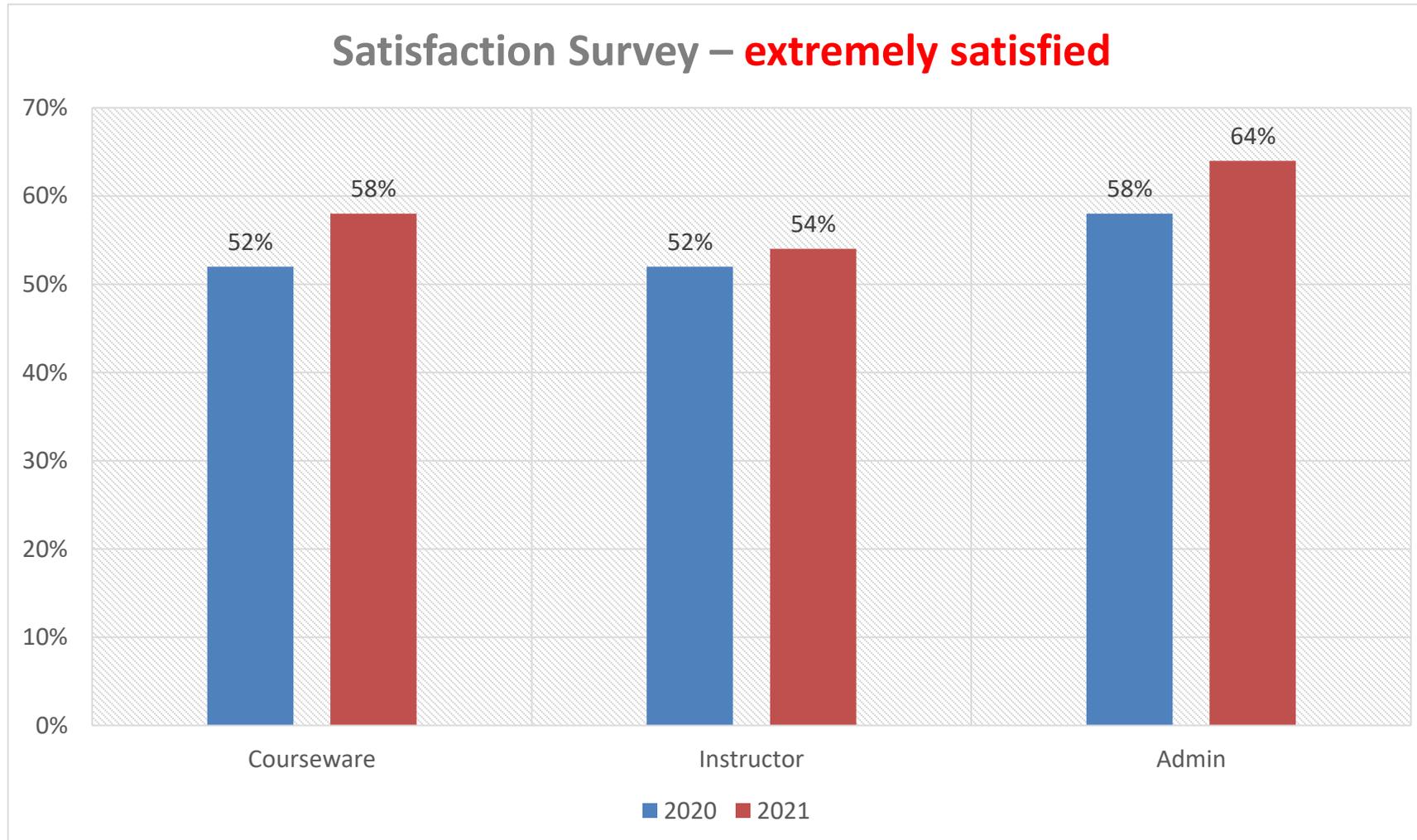
Consulting and training
Quality Analysis

Score for PBN PD course in 2021	Pre-training(No.)	After training(No.)
70-79	18	1
80-89	0	4
90-99	0	11
100	0	2

Consulting and training
Quality Analysis

Job Position

- 18% (Air Traffic Controller)
- 28% (Flight Procedure Designer)
- 9% (Pilot)
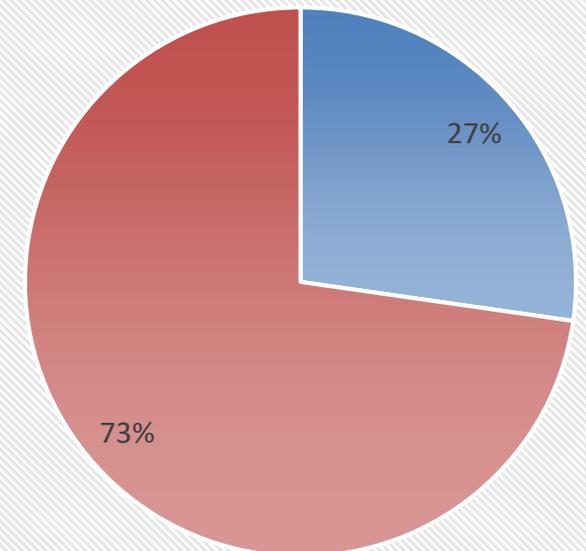- 27% (Regulator)
- 18% (Other)
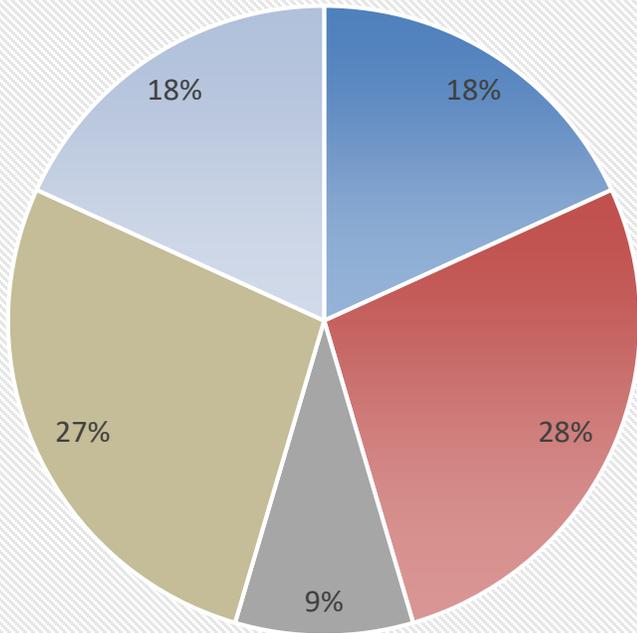
Legend:
- Air Traffic Controller
- Flight Procedure Designer
- Pilot
- Regulator
- Other

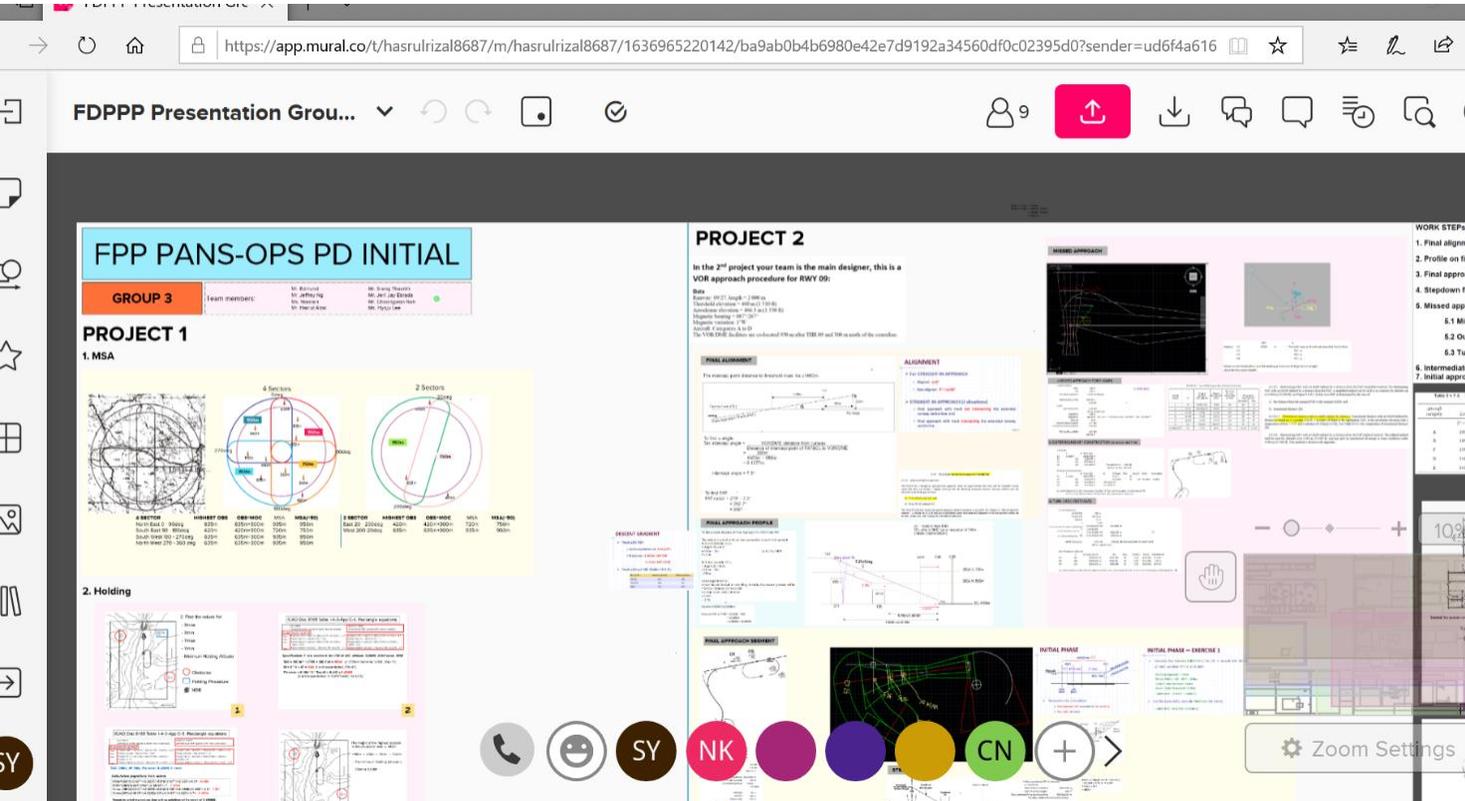### Continued to participate in flight procedure design after Previous training

- 50% NO
- 50% YES
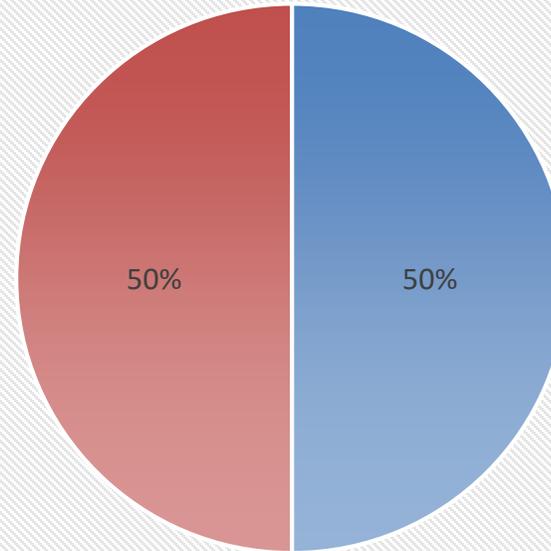
Legend:
- NO
- YES

Plan to participate in the flight procedure design after the training

- 27% NO
- 73% YES

Legend:
- NO
- YES

Software: MS Teams/Mural

Hardware: Large LCD TV/100 megabit broadband network

Consulting and training
Tools Analysis

The Function of E-learning software: Quiz, certificate etc.

✓ Practice has proved that the best way is to **break long-term training into multiple short-term training,** especially for the Pans-Ops PD Initial Course and PBN PD Course because of too much learning content and load for students.

✓ FPP would like to divide to three Modules. The **first module** is about the Foundation skills such as IAS-TAS, Turning area and SIDs. The **second module** is focus on the 2D approach such as NPA Tand RNP APCH. The **third module** is for ILS and Baro-VNAV.

✓ By combining the conventional and PBN courseware, FPP can achieve the purpose of compressing the lecture time but the trainee may have **more time in class for exercise** and **master the skill in shorter time**. The exercise time will be increase to more than **50%** of the training time.

Work Plan of 2022

Meeting/Training Organizing Plan					
	Date	Activities	Location	Participants	Strategic Objectives	Organizer
Training:						
1	14 - 25 Mar	Flight Procedure Design Course- **Module 1** (main topic: Foundation skills & SIDs)	Online /onsite	FPP/APAC States	Expand Value Creation	FPP
2	9 – 20 May	Flight Procedure Design Course- **Module 2** (main topic: 2D approach, NPA& RNP APCH)	Online /onsite	FPP/APAC States	Expand Value Creation	FPP
3	5 - 6 Jul	QA workshop (Whole process for IFP design and flight validation)	Online /onsite workshop	FPP/APAC States	Expand Value Creation	FPP
4	19-30 Sep	Flight Procedure Design Course- **Module 3** (main topic: 3D approach, ILS & Baro-VNAV)	Online/onsite	FPP/APAC States	Expand Value Creation	FPP
5	7-11 Nov	RNP AR refresher course	Online /onsite	FPP/APAC States	Expand Value Creation	FPP
Meeting:						
6	TBD	FPP SCM/14	Fourth quarter	FPP SCM	Expand Value Creation	FPP

Current situation：

Roy has already finished the secondment for APAC FPP since the end of Sep this year.

LIU Lujiang will be extended his current appointment for an additional period of two year from December 2021 to December 2023.

2 flight procedure designers , 1 IT specialist and 1 admin staff through secondment from China at present time.

Potential requirements ：

a) **Short-term**. Secondment Under the ICAO Policy.

b) **Long-term.** After Phase 4, Global recruitment through ICAO TCB contracts seems more logical than secondment through ICAO SEA because FPP is a ICAO TCB programme rather than an ICAO agency. **So the Global recruitment for a flight procedure instructor and an admin staff may be the basic requirements** and feasible solution next phase. But the budget for the payment is a problem.