



# **Experience summary of FPP's previous training**

## MA GANG



International Civil Aviation Organization  
Asia and Pacific Regional Sub-Office  
1<sup>st</sup> Floor, Section C, China Service Mansion  
No. 9, Erwei Road, Shunyi District  
Beijing, China 100621

Ma Gang  
Flight Procedure Designer

Mobile: +86-13661172308 (China)

Tel: +86-10-64557168

Fax: +86-10-64557164

Email: [GMa@icao.int](mailto:GMa@icao.int)



# CONTENT

- **Data Story of FPP**
- **Experience summary**

- Data Story of FPP



- "Big DATA" of FPP
- Data mining
- Inspiration



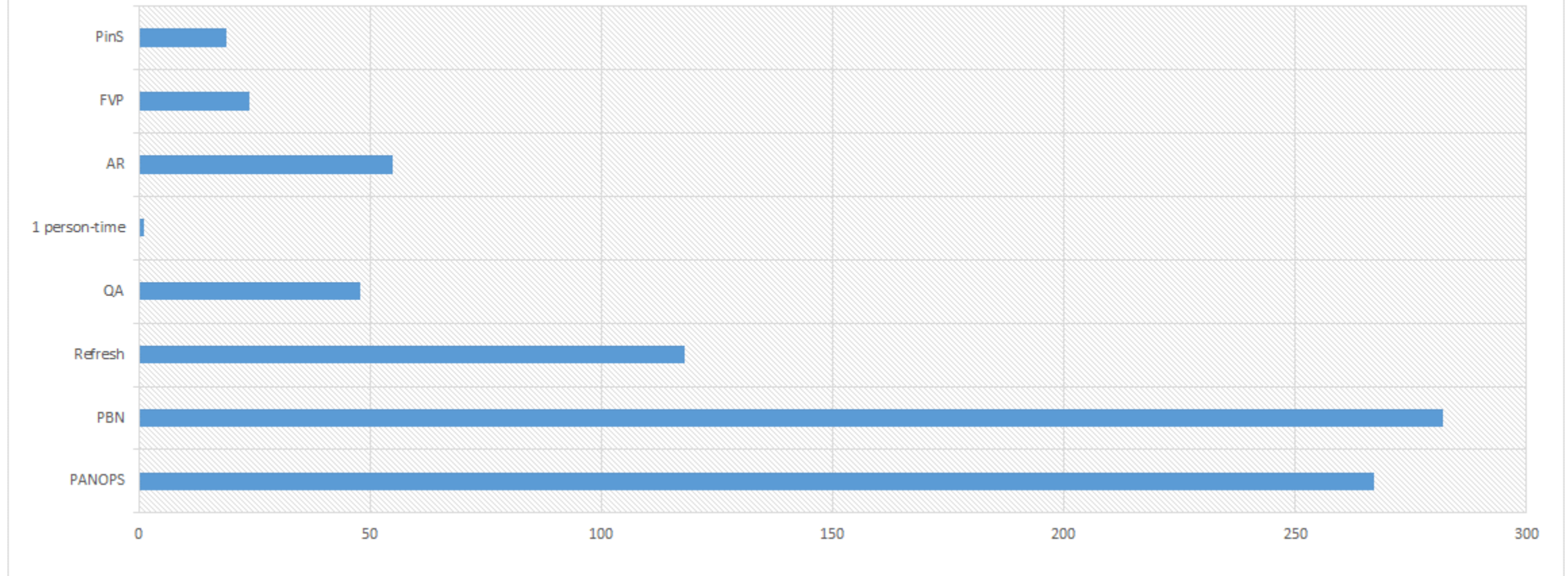
Overview of FPP (Asia-Pacific)

# "BIG DATA" OF FPP



# “BIG DATA” OF FPP’S Training

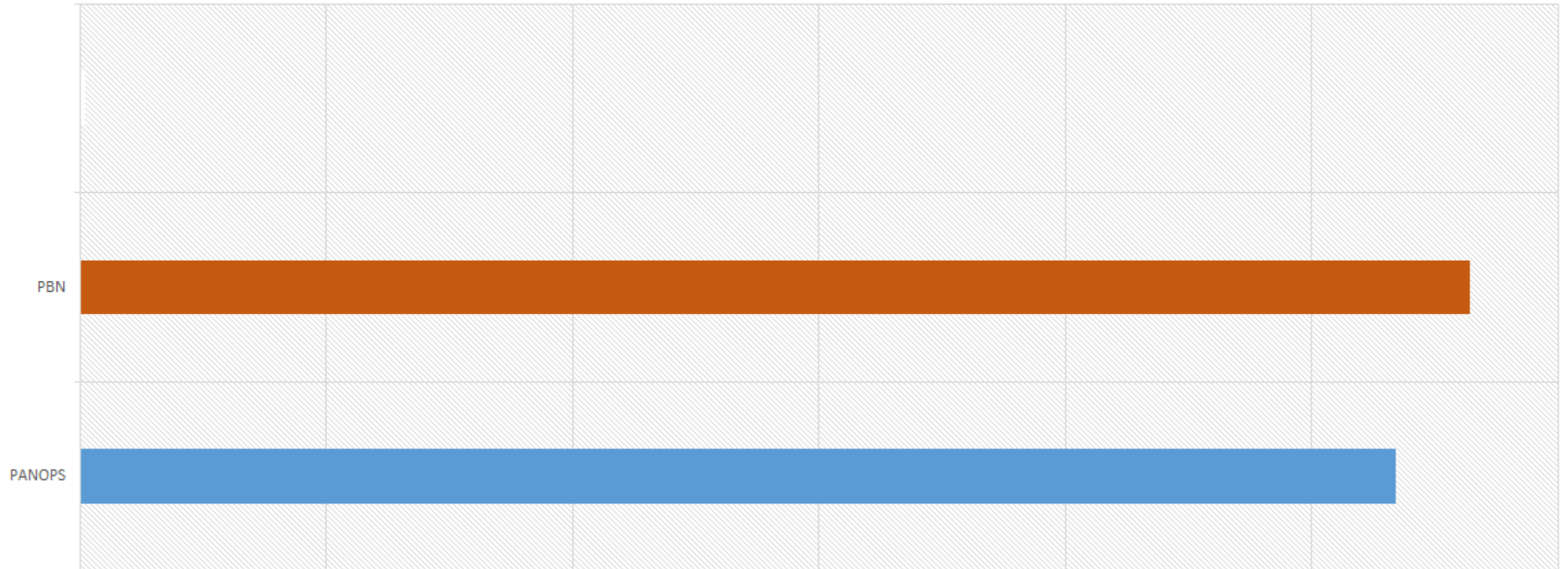
Overview of FPP training





# “BIG DATA” OF FPP’S Training

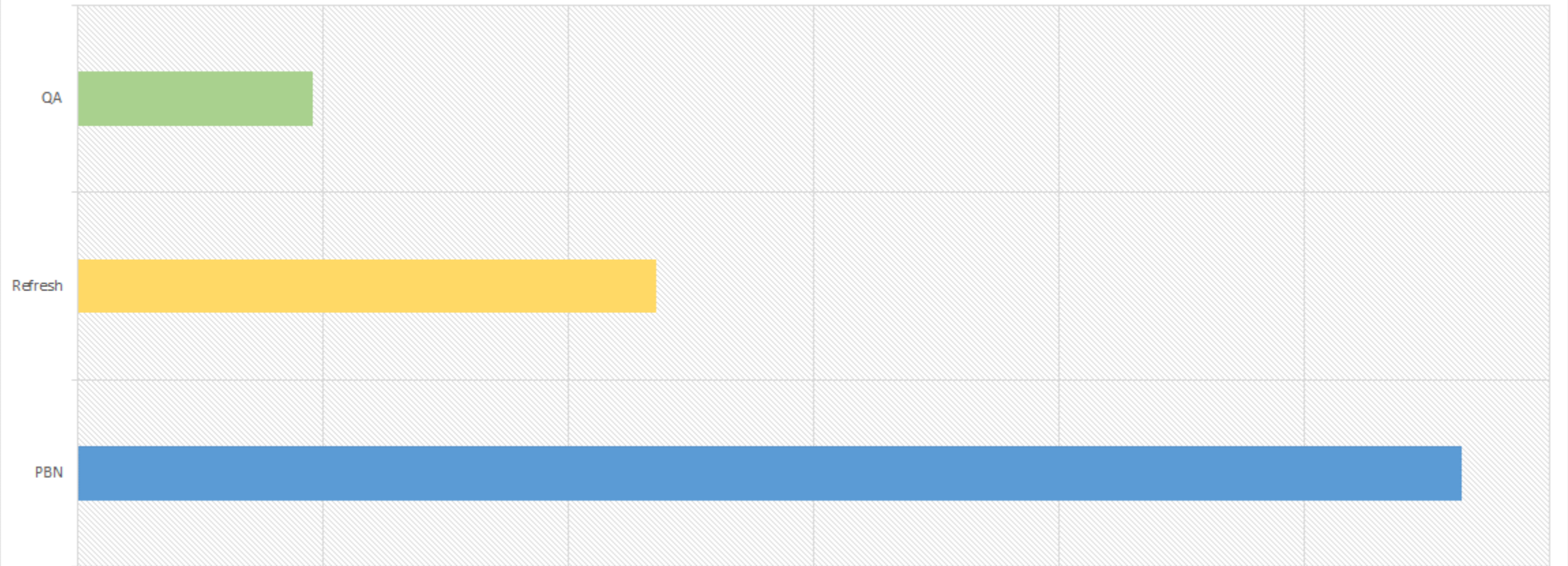
PANOPS + PBN





# “BIG DATA” OF FPP’S Training

QA & Refresh

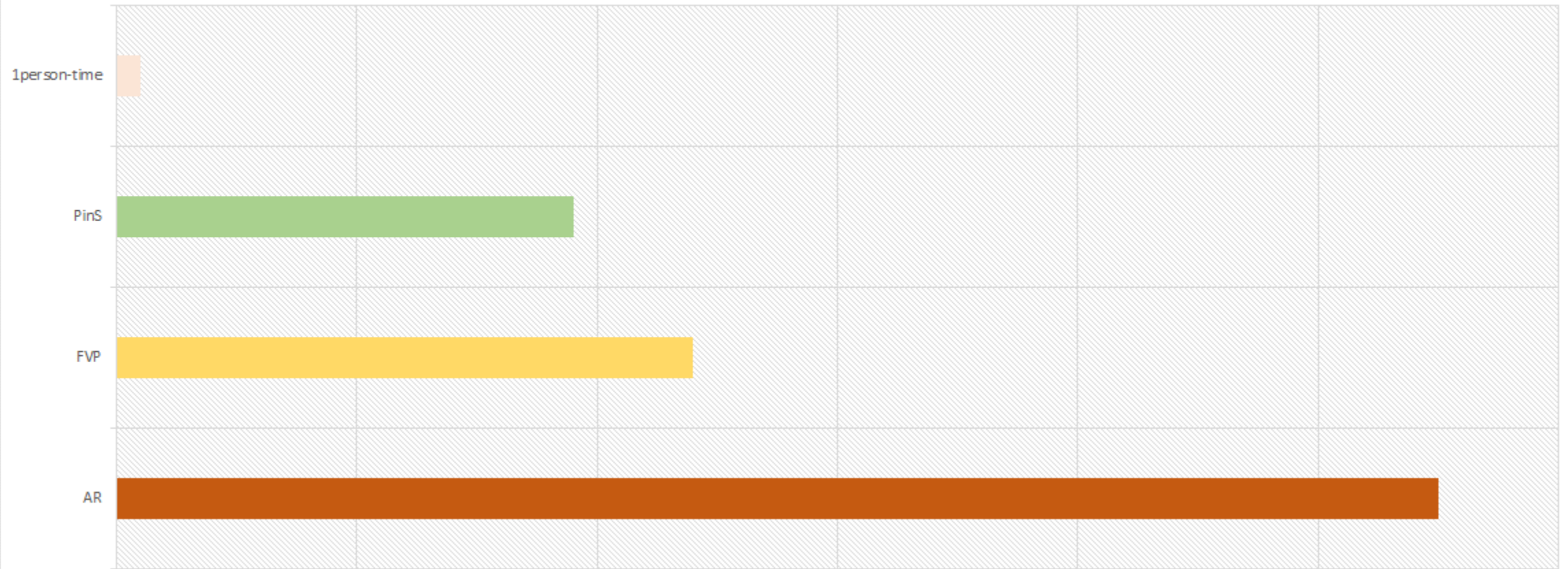






# “BIG DATA” OF FPP’S Previous

PANOPS + PBN



# Instructors

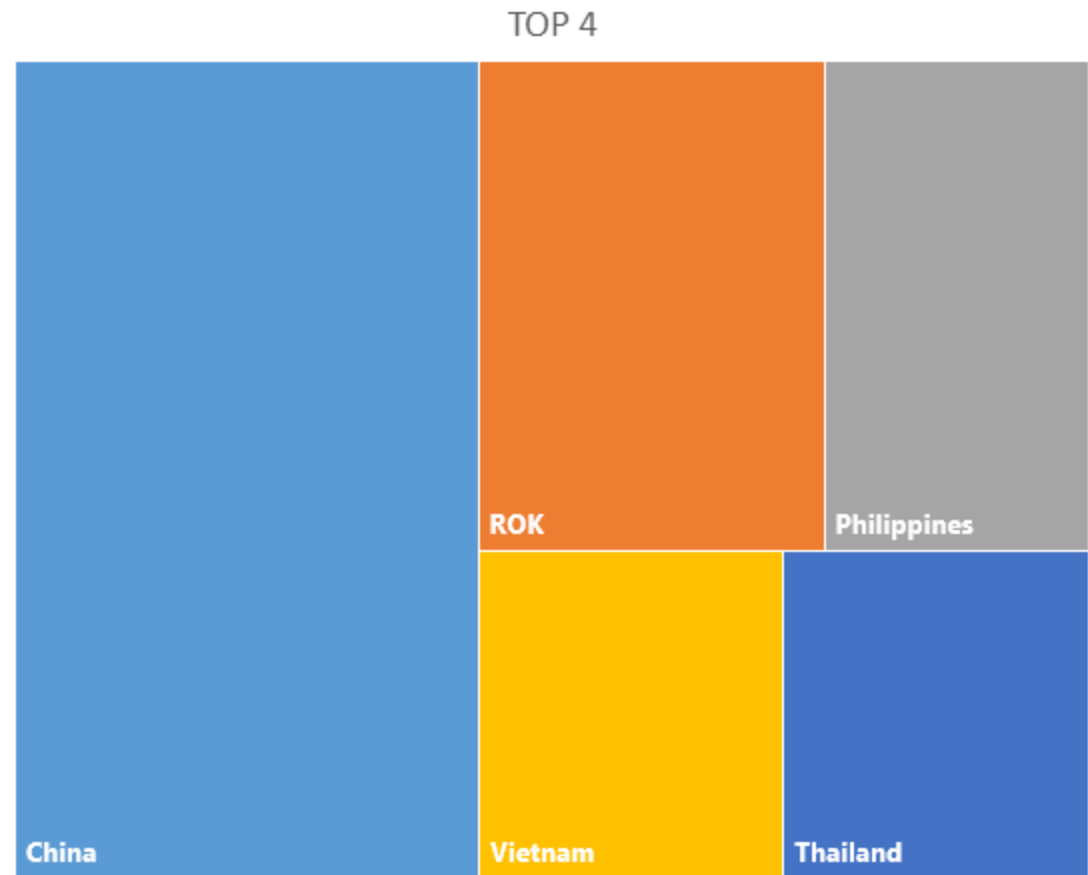
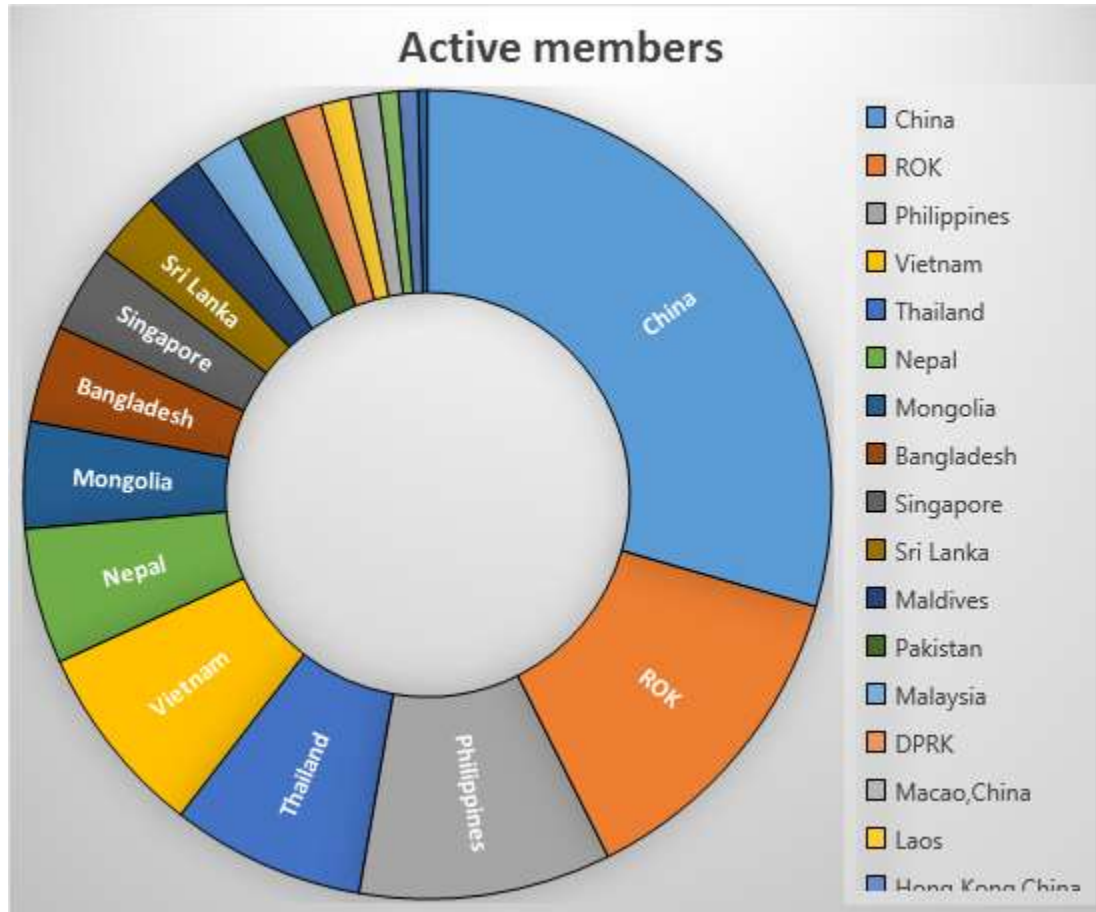




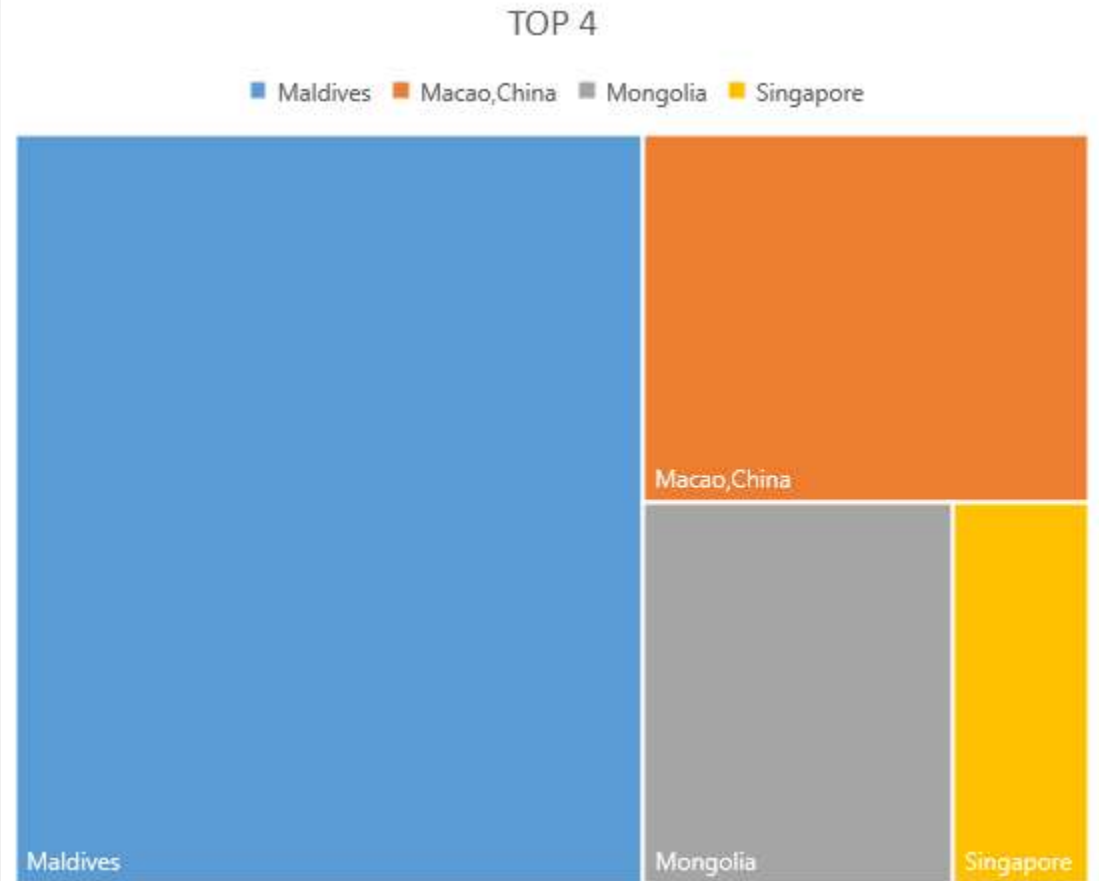
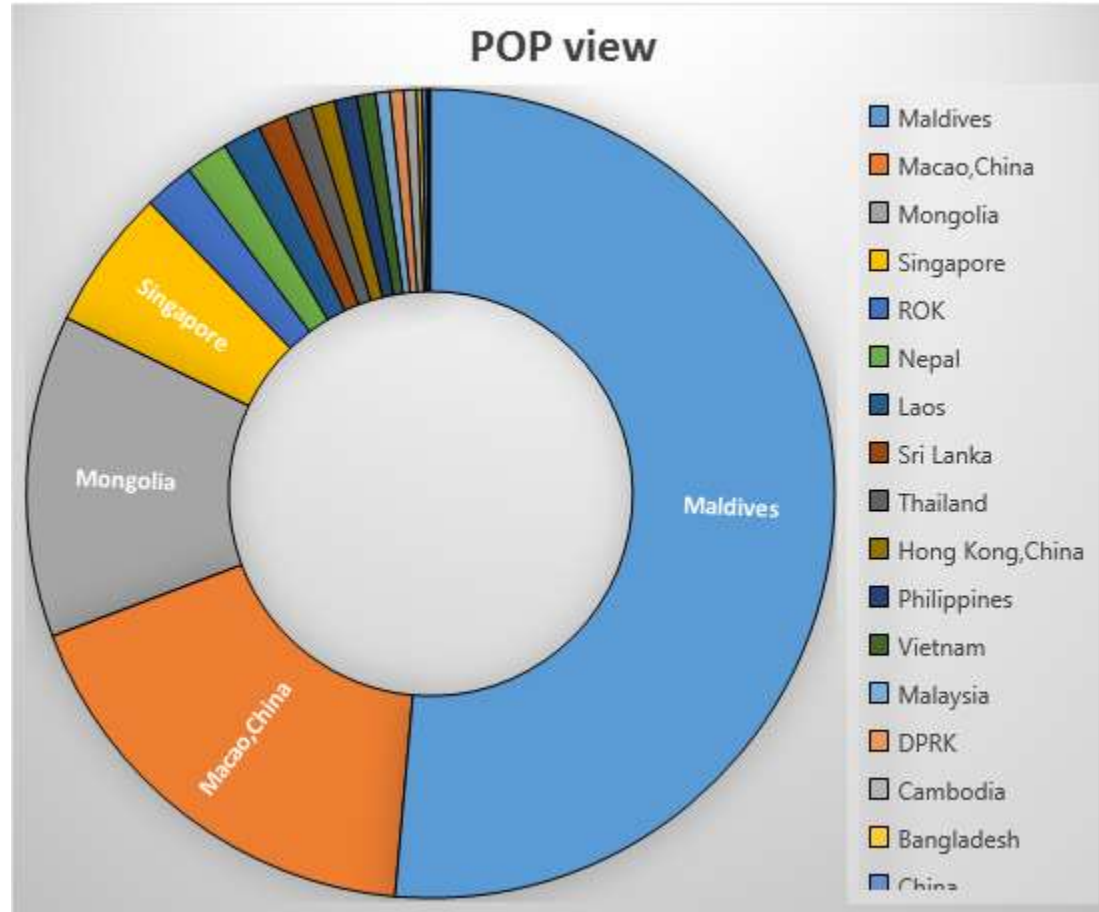
Most active member?

**DATA MINING**

# Active member (PANOPS Course)



# Active member (PANOPS course)





Big data tell us

**INSPIRATION**

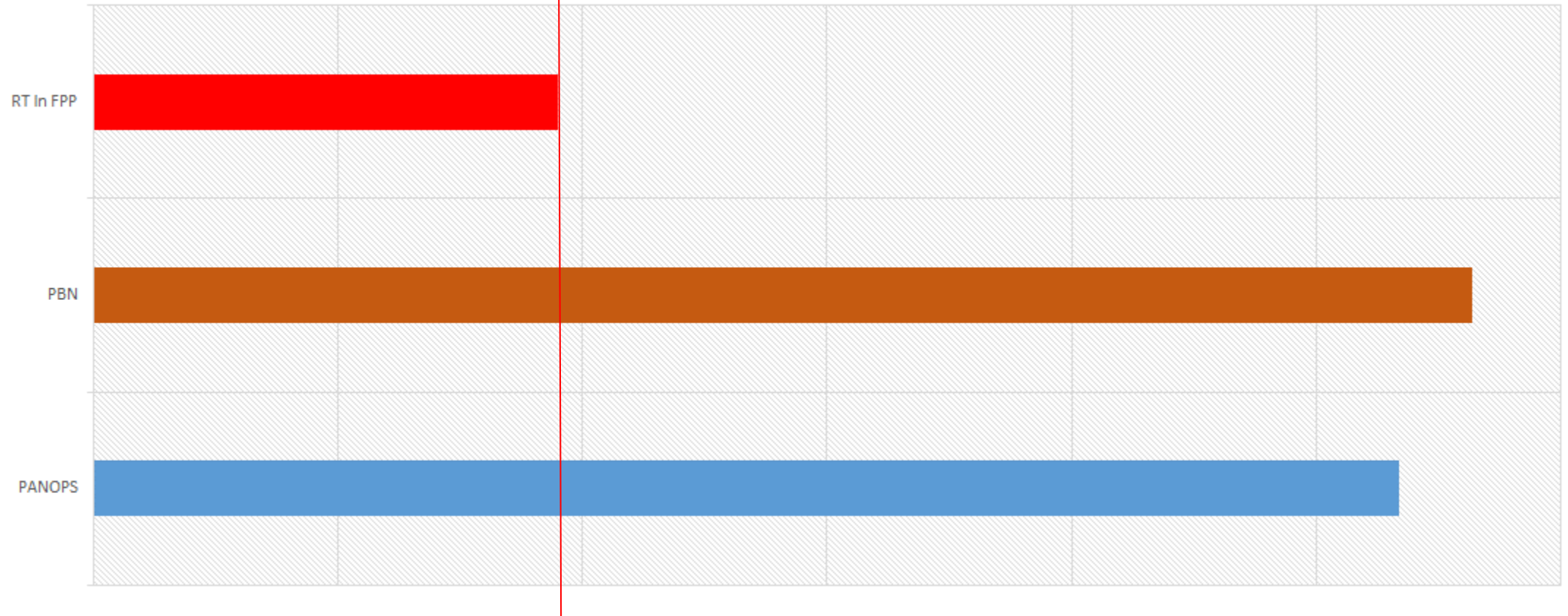
# “TAKE OFF” from FPP





# “TAKE OFF” from FPP

PANOPS + PBN







# NEXT STEP

- Full DOC 8168 training
  - PANOPS + PBN
  - Suitable Duration of Training
- Specialized Workshops
  - VNAV, ILS CAT II/III, CRM, Path terminator

- Experience summary



- Data MGT VS Situation MGT
- Mutual cooperation
- New challenges

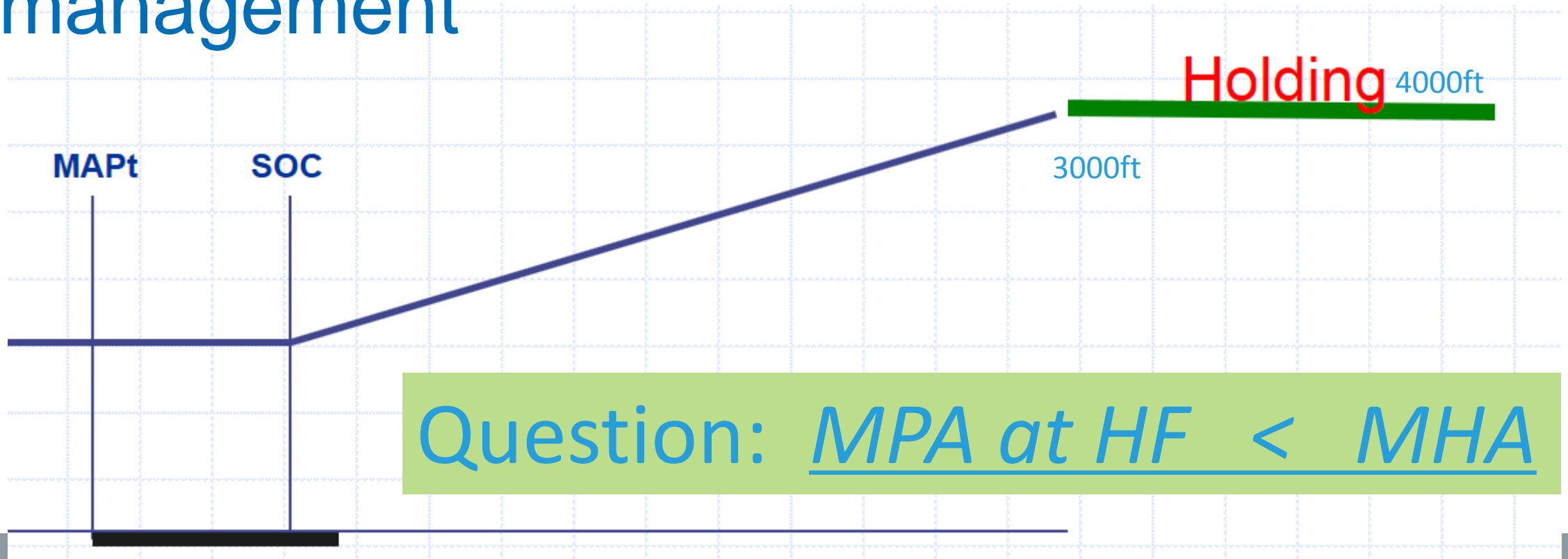


How to design a IFP

# **DATA MGT(MANAGEMENT) VS SITUATION MGT**

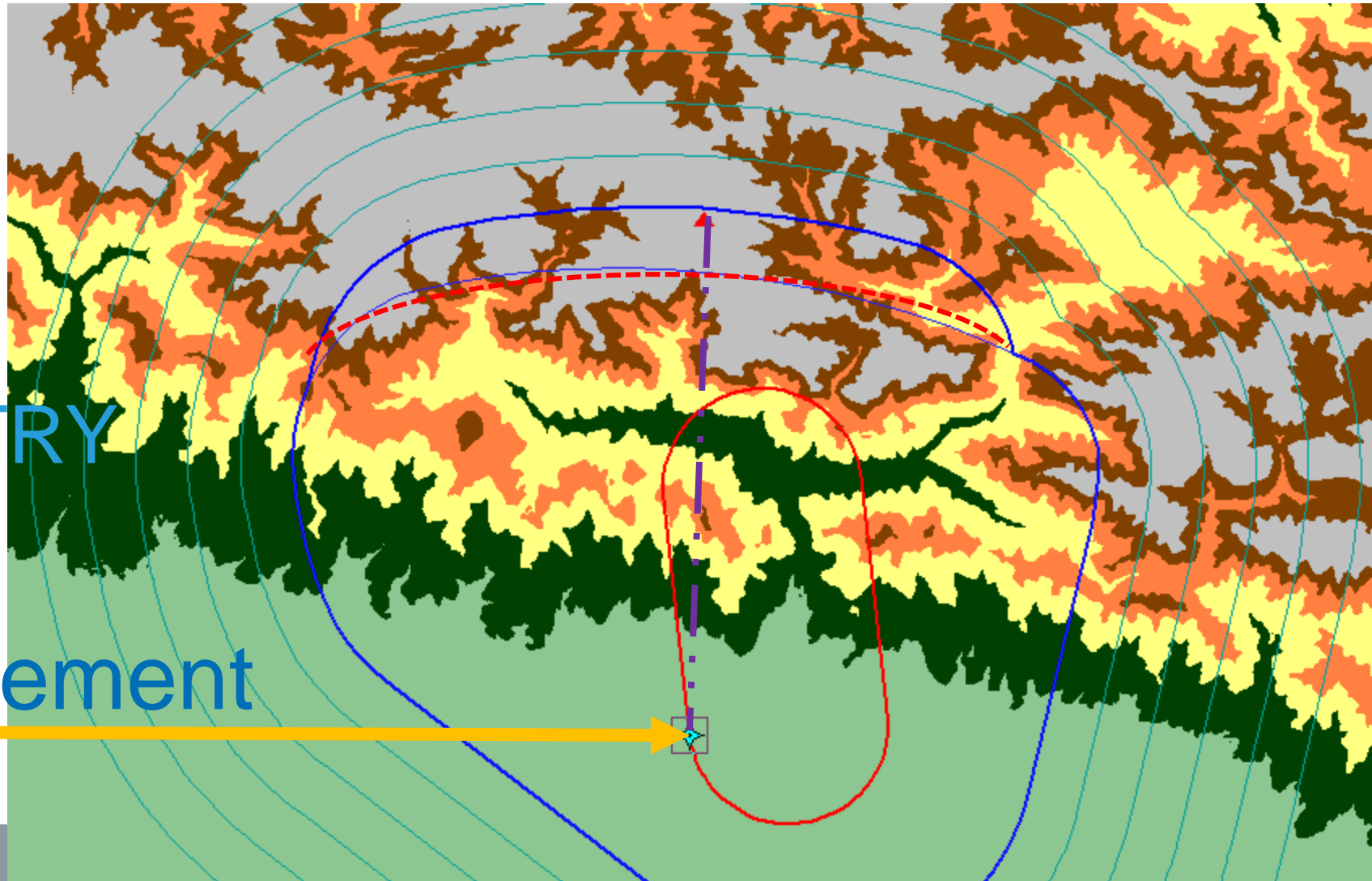
# IFPD Experience summary

- Data management VS Situation management



# IFPD Experience summary

- Situation:
  - MA segment
  - Obs at ENTRY
- Data management





Better ~ Best

# MUTUAL COOPERATION

# Operation Experience summary

- Mutual cooperation

## Cir 336 "RNAV to RNP Instrument Approach Chart Depiction"

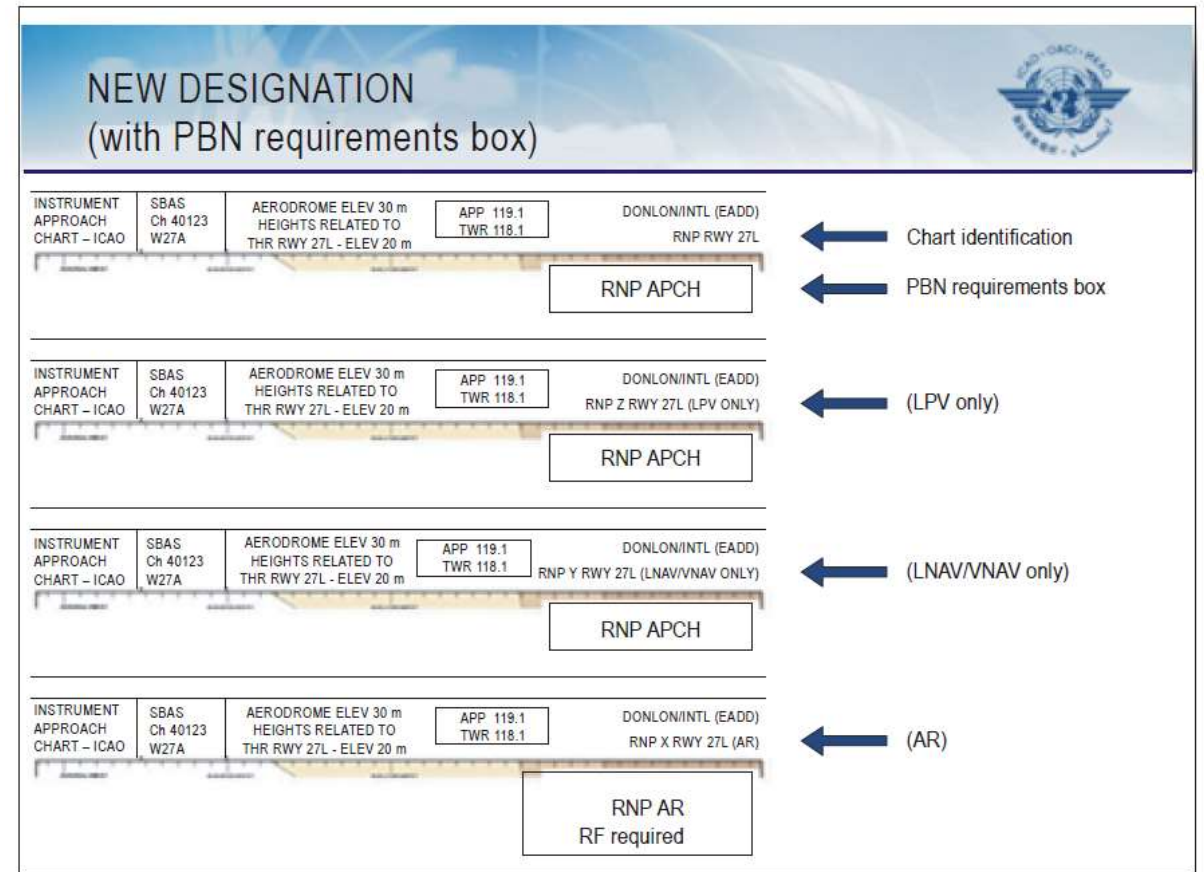


Figure 1-1. New PBN chart designation (with PBN requirements box)

# Operation Experience summary

- mutual cooperation

the Display of MCDU







# Operation Experience summary

mutual cooperation

RNP RWY 23

---

RNP RWY 24 (AR)

RNV XX

RNAV (GPS) RWY 23

---

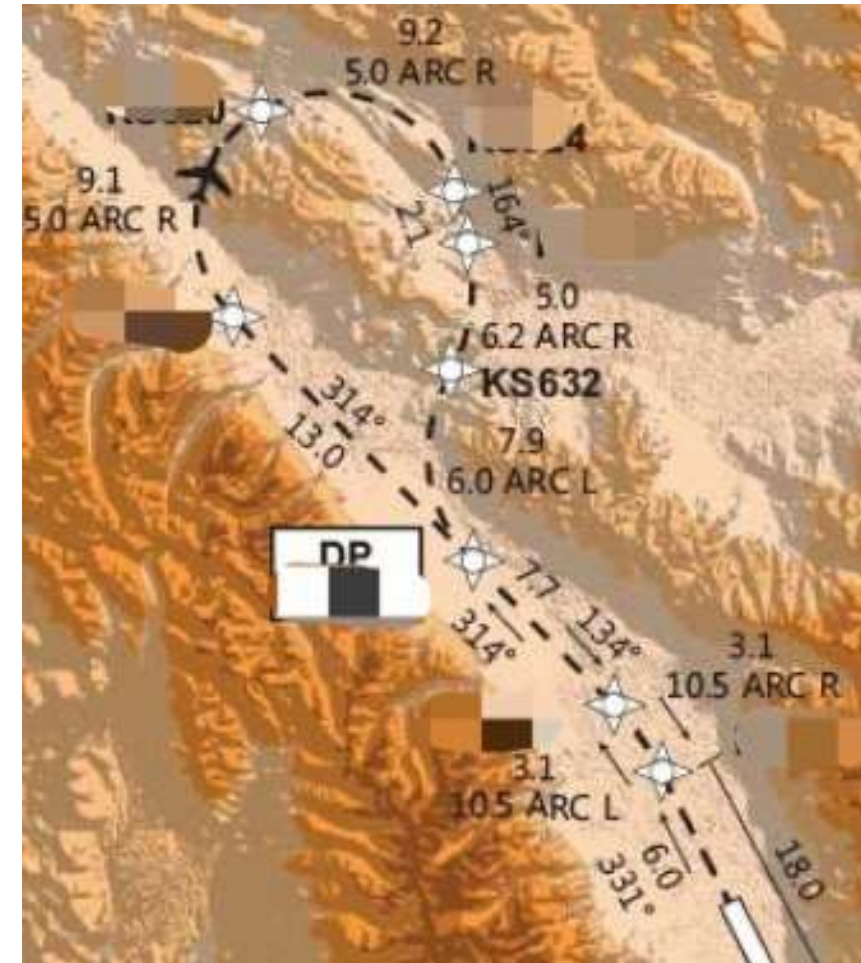
RNAV (RNP) RWY 24

RNV XX

# Operation Experience summary

- Mutual cooperation

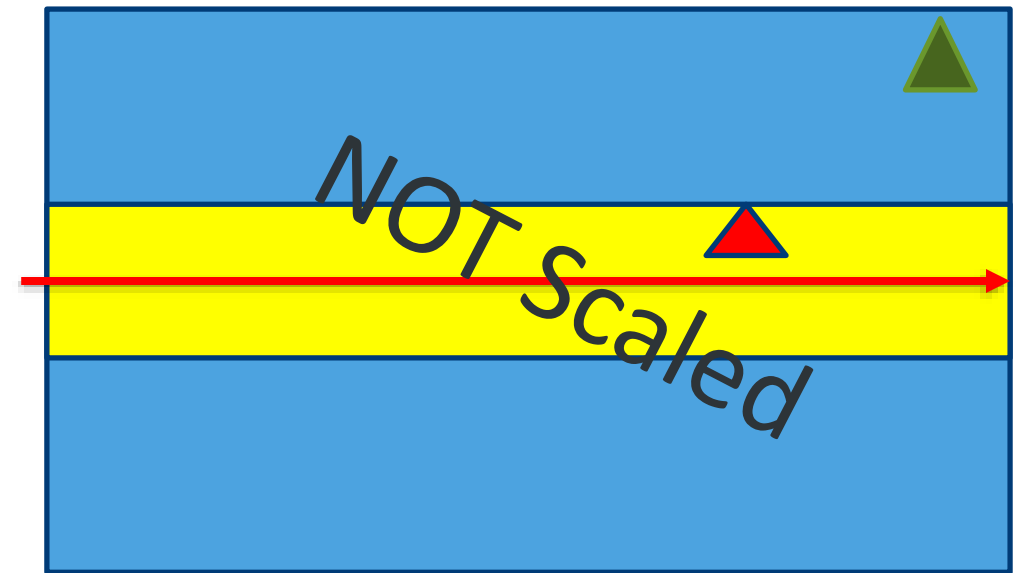
EOSID



# Operation Experience summary

- Mutual cooperation

Protection area for  
EOSID VS IFP





If VPA < 2.5

# NEW CHALLENGES



# Operation Experience summary

- New challenges





# Asia-Pacific Flight Procedure Programme



ICAO

North American  
Central American  
and Caribbean  
(NACC) Office  
Mexico City

South American  
(SAM) Office  
Lima

ICAO  
Headquarters  
Montréal

Western and  
Central African  
(WACAF) Office  
Dakar

European and  
North Atlantic  
(EUR/NAT) Office  
Paris

Middle East  
(MID) Office  
Cairo

Eastern and  
Southern African  
(ESAF) Office  
Nairobi

Asia and Pacific  
(APAC) Sub-office  
Beijing

Asia and Pacific  
(APAC) Office  
Bangkok



THANK YOU