



ICAO

UNITING AVIATION

ASBU ELEMENTS

CNS Technology and Services

Others

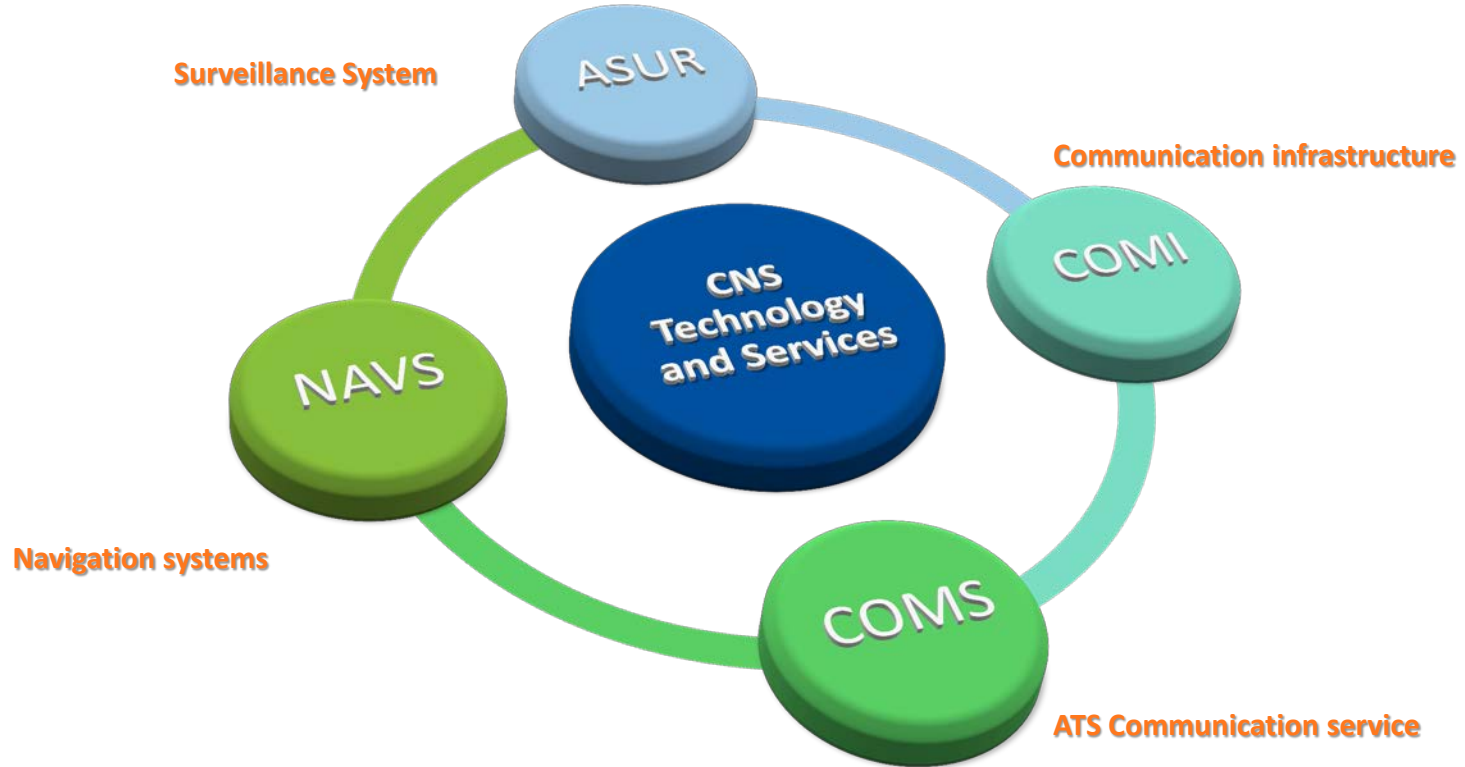


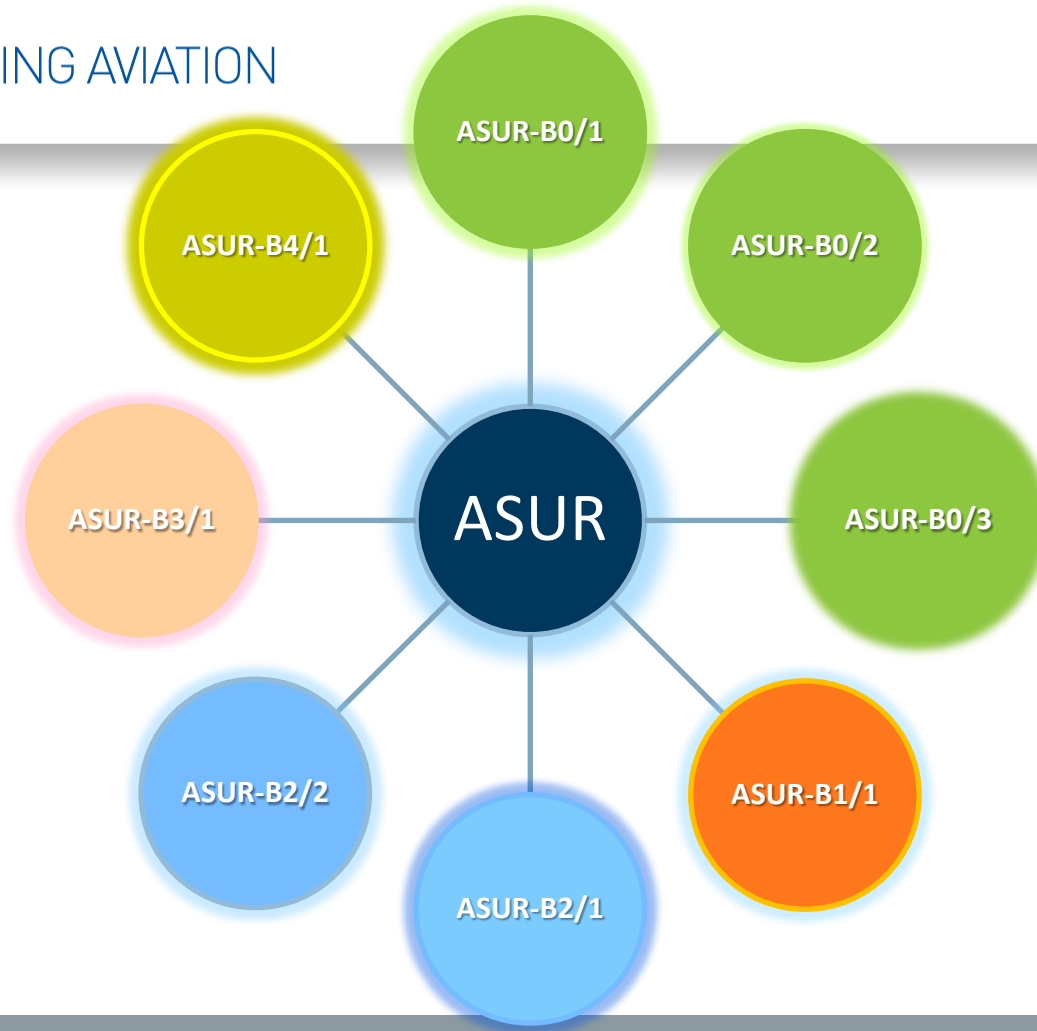
Mayda Alicia Ávila

Regional Officer, Communications, Navigation and Surveillance
International Civil Aviation Organization North American,
Central American and Caribbean Regional Office



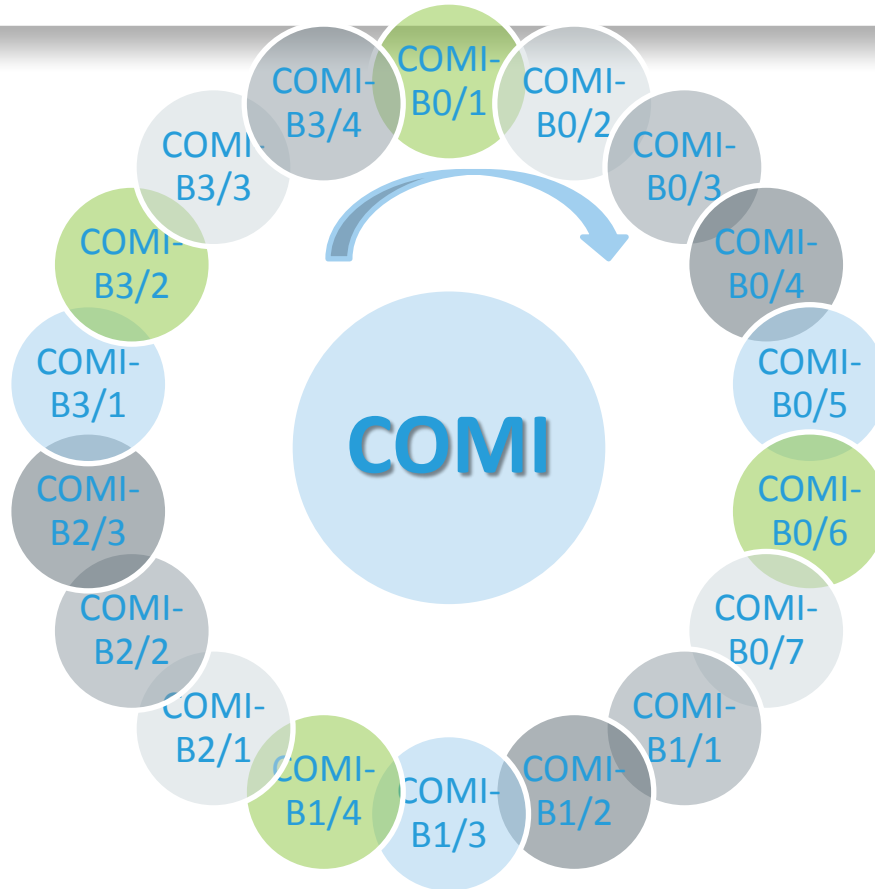
ASBU ELEMENTS







COMI





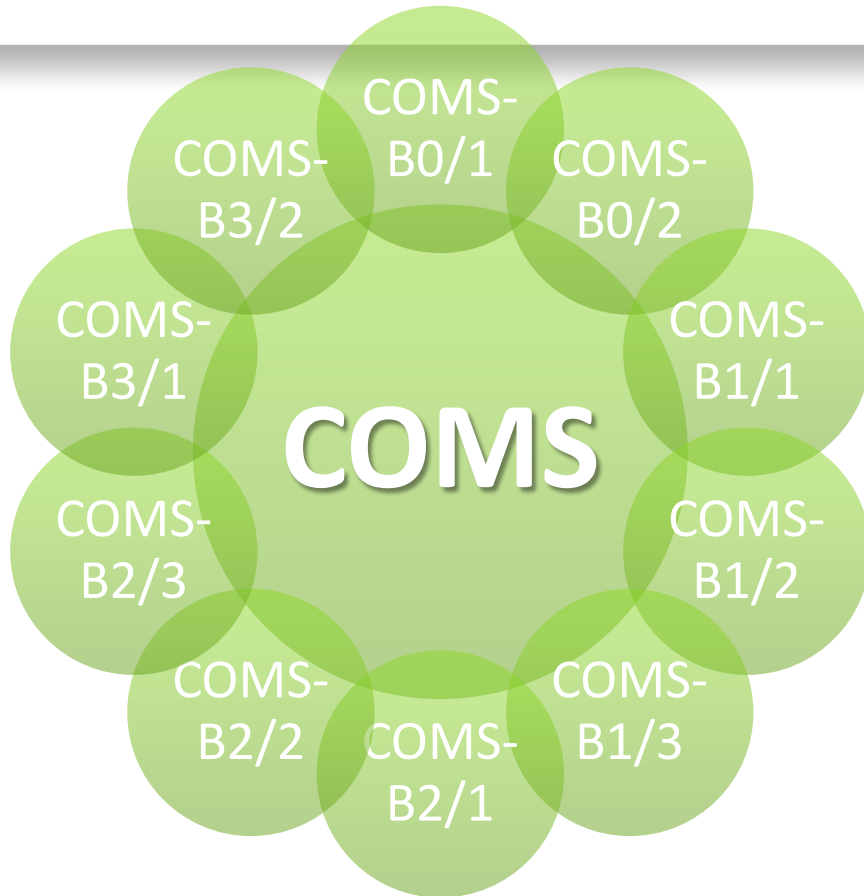
COMI-B1/1

Ground-Ground Aeronautical Telecommunication Network/Internet Protocol Suite (ATN/IPS) Technology

Main Purpose	To provide for a more modern, more efficient, cost-effective, and robust data communications network infrastructure.		
Standardization			
Support Operation:	En -route		
Dependencies and relations:	ASBU-Elements		



COMS



CPDLC Implementation

ADS-C Implementation

PBCS Approved

PBCS Approved and CPDLC

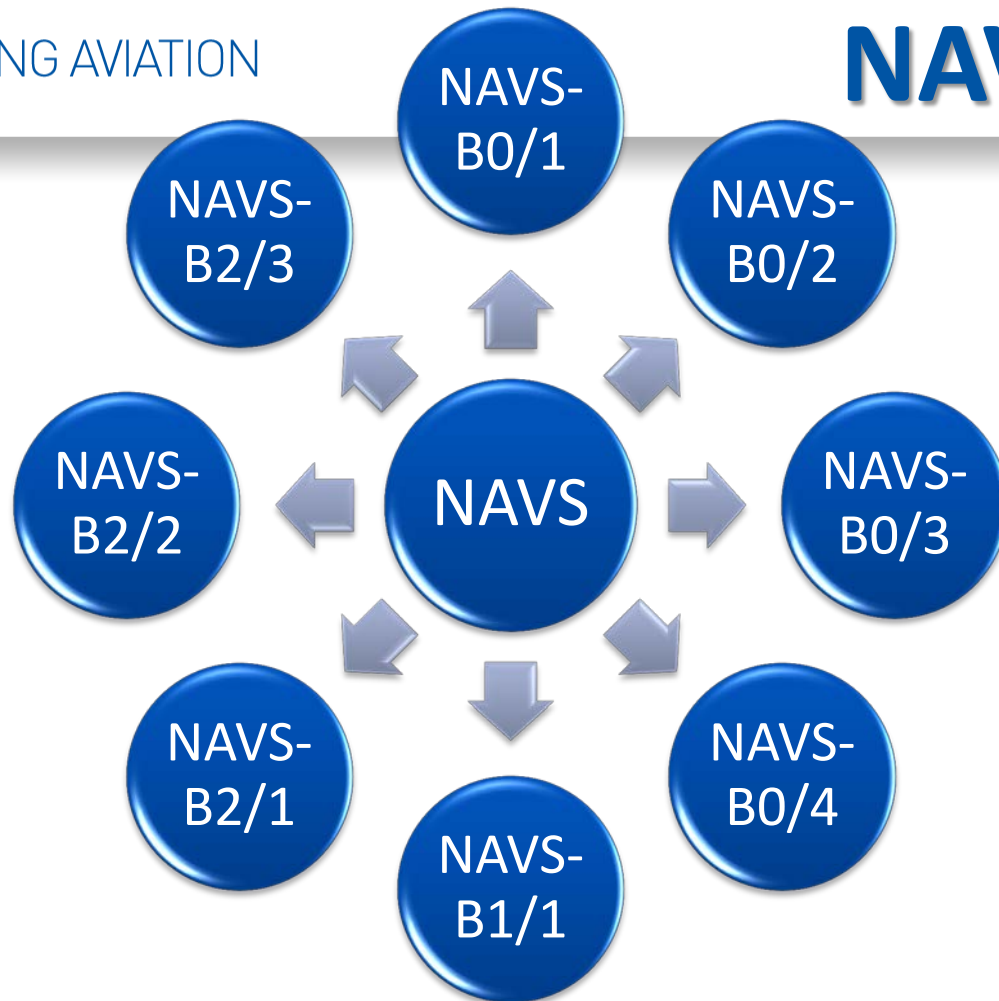
SATVOICE

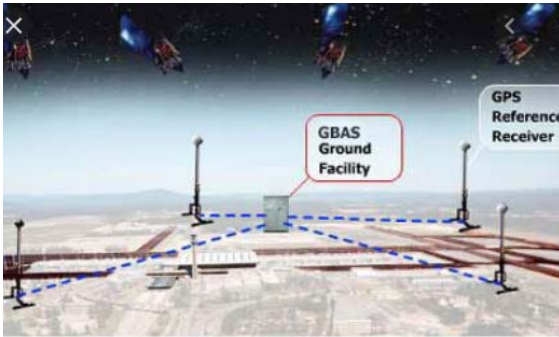
Extended CPDLC

Extended ADS-C



NAVS





NAVS-B0/1 Ground Based Augmentation Systems (GBAS)

NAVS-B0/2 Satellite Based Augmentation Systems (SBAS)

NAVS-B0/3 Aircraft Based Augmentation Systems (ABAS)

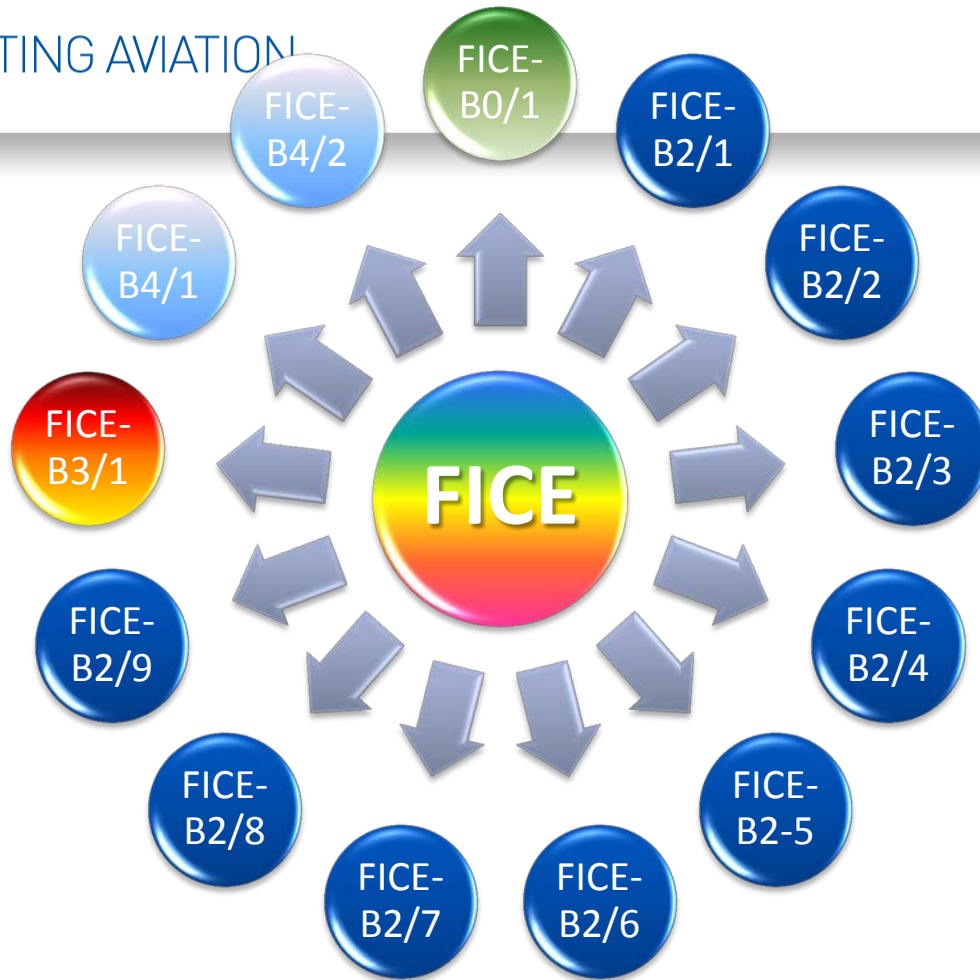
NAVS-B0/4 Navigation Minimal Operating Networks (Nav. MON)

NAVS-B1/1 Extended GBAS

NAVS-B2/1 Dual Frequency Multi Constellation (DF MC) GBAS

NAVS-B2/2 Dual Frequency Multi Constellation (DF MC) SBAS

NAVS-B2/3 Dual Frequency Multi Constellation (DF MC) ABAS





ACTION PLAN WORK

- **Surveillance Task Force** --- ASUR, ACAS, COMS
- **AIDC Task Force** ----- FICE
- **MEVA/TMG** ----- COMI, COMS (Freq)
- **NAVS** --- Pending



- <https://www4.icao.int/ganpportal/ASBU/Element/Pdf?IDs=51&ShowPart1=true>

FICE

FICE-B0/1	Automated basic inter facility data exchange (AIDC)	Information			
FICE-B2/1	Planning Service	Information			
FICE-B2/2	Filing Service	Information			
FICE-B2/3	Trial Service	Information			
FICE-B2/4	Flight Data Request Service	Information			
FICE-B2/5	Notification Service	Information			
FICE-B2/6	Publication Service	Information			
FICE-B2/7	Flight information management service for higher airspace operations	Information			
FICE-B2/8	Flight information management service for low-altitude operations	Information			
FICE-B2/9	Flight information management support for inflight re-planning	Information			
FICE-B3/1	Flight information management services for enhanced trajectory operations	Information			



ICAO

UNITING AVIATION



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