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# SESSION 4

## Challenges and Priorities in Safety Planning





# Overview

- Challenges in safety planning
- Link to GASP goals and targets
- Organizational challenges
- Operational safety risks and HRCs
- Emerging issues
- How these fit into NASP



# Challenges & Priorities

- GASP presents safety-related challenges
- and Priorities
  - deemed of concern to international aviation community
- Derived from analysis of safety data
  - collected from proactive and reactive safety-related activities
  - conducted by ICAO





# Why Identify Challenges?

- Assist ICAO in defining priorities for global action
  - which then serve as basis for GASP goals and targets
- Key steps in safety planning process
  - identify safety-related challenges
  - prioritize areas that require action





# How to Identify Challenges

- Safety data used to identify challenges & define priorities includes
  - accident or incident investigations
  - safety reporting
  - continuing airworthiness reporting
  - operational performance monitoring
  - inspections
  - audits
  - surveys or safety studies
  - reviews





# Special Considerations

- State, region or industry conducts data-driven analysis
  - to identify challenges & determine priorities
- Consider strengths, weaknesses, opportunities and threats
- These provide foundation & context for developing plan



# Special Considerations (2)

- Several factors affect GASP implementation
- These should be considered in analysis and include
  - political
  - legal
  - economic
  - socio-cultural
  - technological factors





# Organizational Challenges

- Organizational challenges are systemic issues
  - impact of organizational culture, and policies and procedures
  - on effectiveness of safety risk controls
- Organizations include entities in State, such as
  - CAA
  - service providers
    - such as air operators, ANSPs and aerodromes







# Organizational Challenges (2)

- Organizations should
  - identify hazards in systemic issues
  - mitigate associated risks to manage safety





# Team Activity #1

- With your closest neighbors...
- Discuss organizational issues in your State and Region
  - What issues do you face at work?
  - What shortcomings exist today or pointed out in audits?
  - What concerns do you have for the coming years?
- Write up some bullet points
- Time allocated: 10 min



# GASP Questionnaire

- Included as part of AN-Conf/13 WP on GASP
- 76 replies received
  - Including 5 International Organizations
- Results pooled and analyzed
- Close-ended questions (Yes/No) transferred directly into database
- Open-ended questions inputted into database
  - then classified based on qualitative analysis



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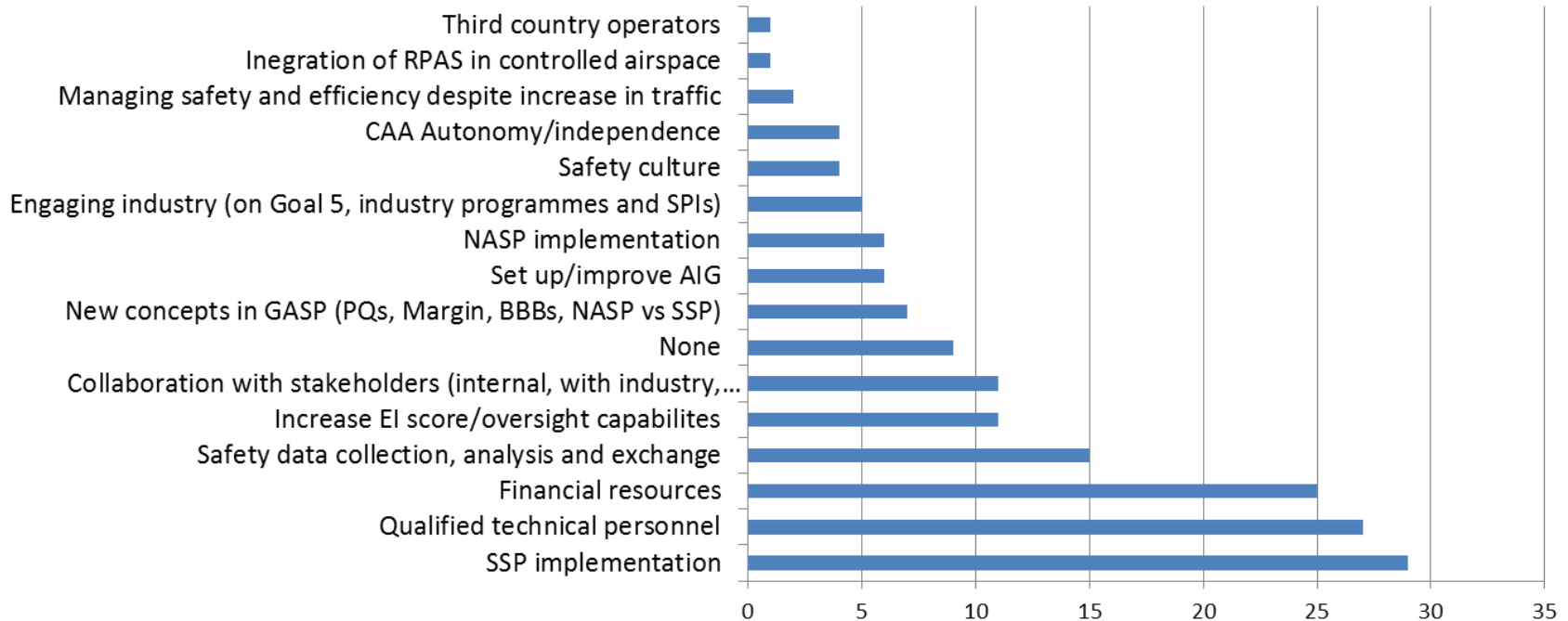
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# GASP Questionnaire Organizational Challenges

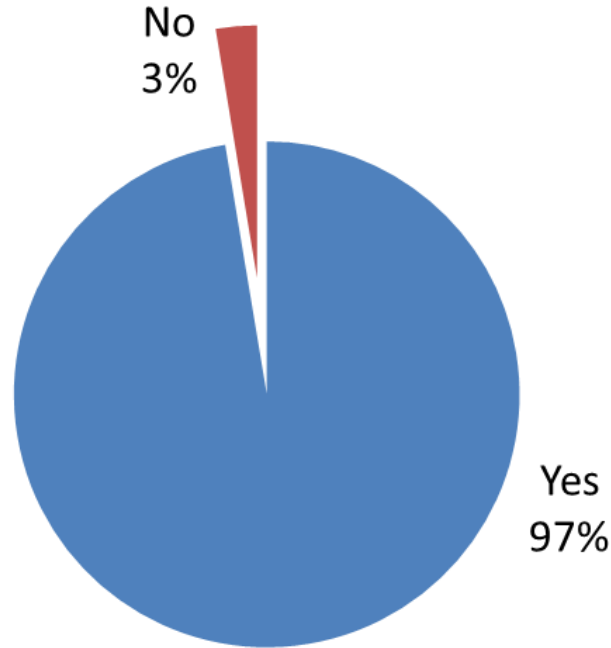


## What are main challenges/obstacles to achieve GASP goals & targets ?





## Does proposed draft GASP assist in addressing ORG challenges?





## Does the proposed draft GASP assist your State/ORG? Specify





# Organizational Challenges in GASP

- Ensuring effective safety oversight
- Ensuring effective safety management
  - as part of SSP







# Operational Safety Risks

- Ops safety risks arise during delivery of service or conduct of activity
  - e.g. operation of aircraft, airports, ATC
- To identify expected performance limitations & hazards, take into consideration
  - operational interactions between people and technology
  - operational context in which aviation activities are carried out



# Operational Safety Risks (2)

- States, regions and industry should conduct regular risk analyses
- Review and analyse available safety data
  - determine ops safety risks >>> include global HRCs
  - and additional ops safety risks
- Assess ops safety risks & prioritize them according to SRM process
  - measure progress



# High Risk Categories of Occurrences

- Previously referred to as “global safety priorities”
- Selection of types of occurrences which are global HRCs is based on
  - actual fatalities
  - high fatality risk per accident
  - or number of accidents and incidents
- Based on results from analysis of safety data
  - collected from proactive and reactive sources of information
  - and from ICAO and other non-governmental organizations
- HRCs need to be addressed to mitigate risk of fatalities





## Team Activity #2

- With your closest neighbors...
- Discuss ops safety risks in your State and Region
  - What safety risks are known in your State or Region?
  - Have there been some “near-misses” in recent years?
  - What do you think could cause the next big accident?
- Write up some bullet points
- Time allocated: 10 min



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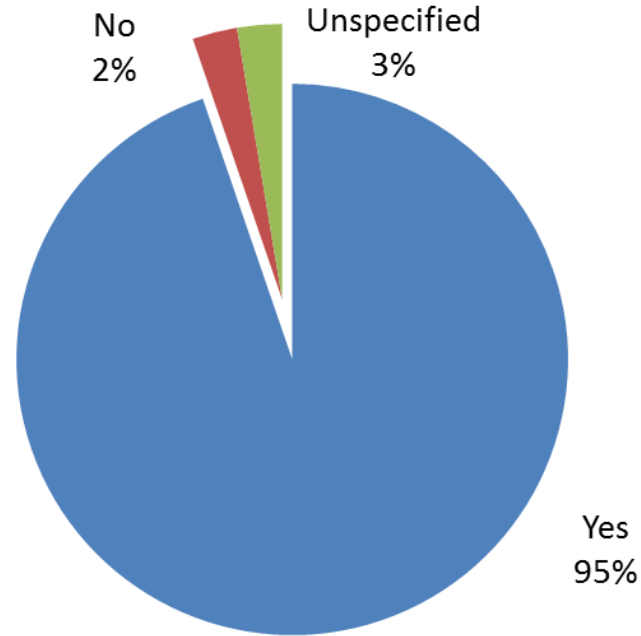
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# GASP Questionnaire Operational Safety Risks

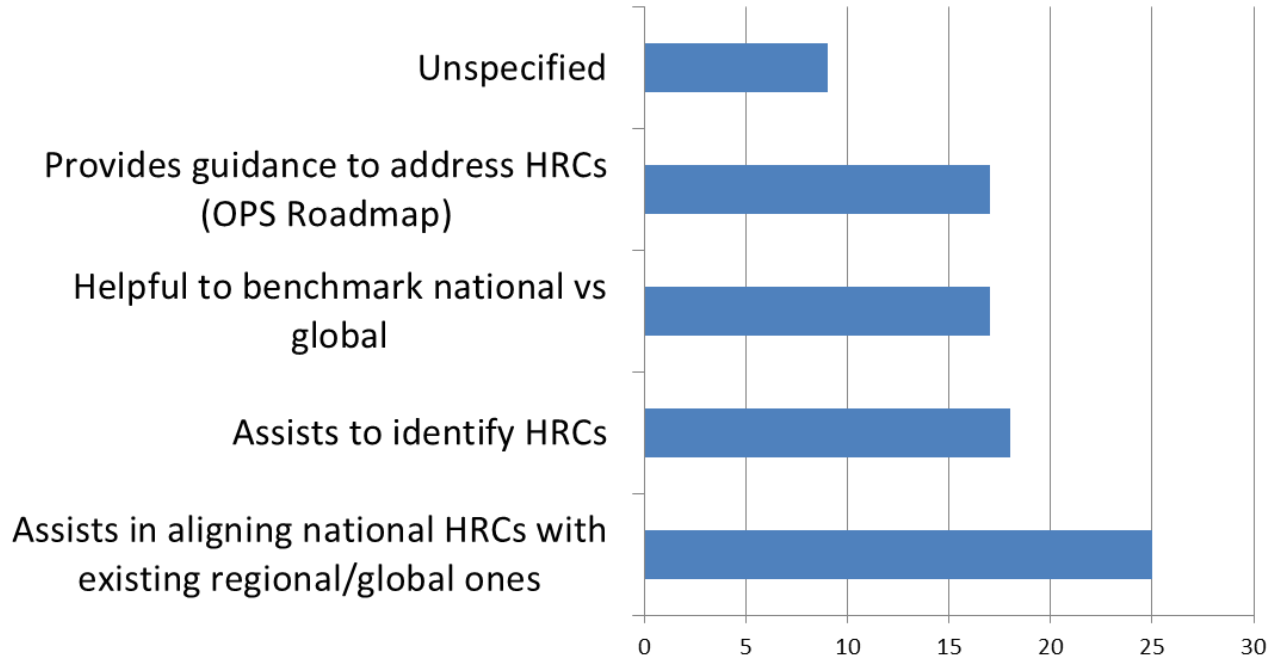


## Does proposed draft GASP assist in addressing OPS safety risks?





## Does proposed draft GASP assist in addressing OPS risks? Specify





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# HRCs for 2020-2022 GASP







# National Operational Safety Risks

- Review & analyze safety data to determine ops safety risks
- Seek assistance from, or delegate data collection/analysis, to
  - another State, RSOOs or other competent States or organizations
- Take into account GASP HRCs & regional ops safety risks (RASG)
- Assessment should be data-driven



# Additional Categories Ops Safety Risks

- In addition to HRC >> Consider remaining risk categories
  - for which sufficient data exists
- ICAO developed dedicated secure site
  - for RASGs to list additional ops safety risks
- Use CAST/ICAO CICTT recommended
  - for consistency of reporting
- [www.icao.int/safety/airnavigation/AIG/Pages/Taxonomy.aspx](http://www.icao.int/safety/airnavigation/AIG/Pages/Taxonomy.aspx)





# Emerging Issues

- Emerging issues include
  - concepts of operations
  - technologies
  - public policies
  - business models
  - ideas
- That might impact safety in future
- For which insufficient data exists
  - to complete typical data driven analysis





## Emerging Issues (2)

- Important to remain vigilant on emerging issues
  - identify potential safety risks
  - collect relevant data
  - proactively develop mitigations
- ICAO developed dedicated secure site
  - for RASGs to list emerging issues
- Use CAST/ICAO CICTT recommended





# Points to Remember

- Organizational issues and ops safety risks are basis of goals and targets
- Identification of safety-related challenges and prioritization of areas that require action are key steps in safety planning process
- Consider strengths, weaknesses, opportunities and threats
- HRCs must be included in NASP
- Importance of monitoring for emerging issues



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