

Agenda Item 6 SSP Implementation Plan Reflecting Project Management Principles

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Module Objective

The objective of this Module is to provide an overview of applying project management principles to manage an SSP implementation plan.



Contents

- Develop a clear Project scope to effectively manage stakeholder expectations and ensures that all of the project's elements are aligned with the objectives.
- Develop Plan and Schedule as critical components of successful time, resources and cost management.
- Identify Stakeholders and introduce communication matrix for a manageable stakeholder engagement process.
- Estimate Time, Cost and build Budget to have a clear understanding on project constraints.

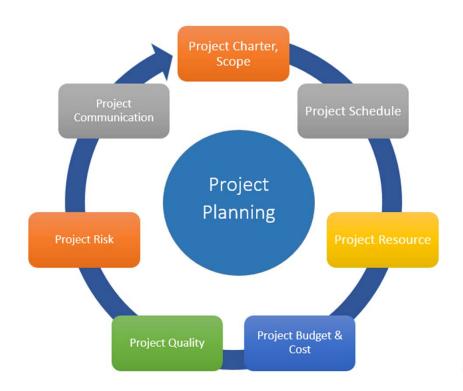




→ A big part of project management is planning out your project in detail.

The purpose of planning is to define:

- what has to be achieved (objectives) by the project
- when it is to be achieved,
- who will be involved,
- what information will be communicated and,
- <u>how</u> the achievement of objectives will be measured.





Selection of a Project

- > It is useful to refer back to the Annex 19 SARPs
- → Projects may be identified using the SSP Gap Analysis, Maturity Assessment Tool or SSP Protocol Questions
- → Select a Project that will address a missing element of the SSP



3.3.4 Hazard identification and safety risk assessment

- 3.3.4.1 States shall establish and maintain a process to identify hazards from collected safety data.
- 3.3.4.2 States shall develop and maintain a process that ensures the assessment of safety risks associated with identified hazards.
 - 3.3.5 Management of safety risks
- 3.3.5.1 States shall establish mechanisms for the resolution of safety issues in accordance with section 8 in Appendix 1.
 - 3.3.5.2 Recommendation.— States should develop and maintain a process to manage safety risks.

ICAO PROTOCOL QUESTIONS

- 1. How does the State determine the conditions under which it will take actions based on safety performance? (GEN 12)
- 2. What mechanisms does the State have in place to monitor safety performance? (GEN 11)
- 3. How does the State select its safety performance indicators (SPIs)? (GEN 10)
- 4. To what extent has the State determined the key State-level risks in its operating environment? (GEN 08)





Step 1: Project Scope

- 1. To what extent has the State determined the key State-level risks in its operating environment? (GEN 08)
- 2. What is the Scope of this Project?



SCOPE

Title	Objective	Inputs to Task	Process	Outputs of exercise
Determine the key State-level safety risks in the aviation operating environment	There is a safety risk management mechanism in the State	 Mechanisms for Collection & processing of safety data & safety information Hazard identification (existing, new or emerging) Assessment of Risks Feeding in safety risks identified by air operators/service provider Prioritisation of risks using a safety risk matrix and tolerability scheme Safety risk management including a safety risk matrix and tolerability scheme Assessing the effectiveness of actions taken 	 Review Inputs, are they agreed? Using identified project and determines what should be included and not. Populate missing components in the Project Scope slide (if needed). 	Comprehensive Project Scope for selected project is defined and understood by every participant.



Project boundaries Within scope (what is

Within scope (what is included in the project)

The project will be confined to the determination of State safety level risks in the State Aviation operating environment.

Out of scope (what is excluded from the project)

- Training personnel to analyse the risk.
- IT infrastructure (software)
- Implementation
- SSP implementation training (assessment of SSP ICS)



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Project deliverables

Tangible items produced by the project.

- ICAO Assessment
- Documentation detailing mechanisms in place
- Data analysis outcomes
- Risk reports
- Working systems including personnel to analyse the data

Success criteria

How you determine that the project deliverables have been completed successfully

- a mechanism in place to ensure that safety risks identified by air operators/service providers are raised at the State level, feeding the SSP and its risk picture
- safety risk matrix and tolerability scheme x
- hazard identification mechanism Project assumptions
- mechanism in place to identify, evaluate and monitor emerging issues

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Assumptions

Information that is not known at the time. Assumptions: Things that are assumed to be true but may not be true is termed as assumptions.

- Data availability (SDCPS)
- Availability of support staff (technical personnel in other areas not SSP)
- Time will be allocated to complete the project.
- Working tools will be available (IT/Software)

Project constraints

- Limitations on the team's options, limits on time, schedule, resources, cost, scope
- Approval processes
- Change management
- Availability of resources (Time constraints, Financials, project leadership, competencies/training)
- Multi projects running at the same time (conflicting priorities)
- Management of priorities
- Projects alignment

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Step 2: Work Break Down Structure

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HIGH LEVEL TASKS

- 1. Create a full time Analyst role
- 2. Establish a Safety Action Group including representatives of each discipline
- 3. Analysis tools for data analysis
- 4. Draft Procedures for Hazard Identification & Risk Assessment
 - a) Survey international data
 - b) MORs
 - c) Voluntary Reports
 - d) Accident & Incident Investigation Reports
 - e) Audit reports
 - f) Ramp Inspections
- 5. Workshops with industry on risk profiles
- 6. Development of SPIs

1. Create a full time Analyst role

- ✓ Determine whether CAA will sacrifice a position or add it
- ✓ Determine where position will exist in structure
- ✓ Line manager write a rationale for additional position
- ✓ Draft job profile
- √ Gain approval
- ✓ Recruitment
- ✓ Training



- 2. Establish a Safety Action Group including representatives of each discipline
- ✓ Construct proposal for SAG and submit to Executives/Management
- ✓ Drafts TORs for SAG including periodicity
- ✓ Determine and appoint Chair of SAG (manager, neutral/ safety related position)
- ✓ Determine and nominate SAG members (Inspector level)
- ✓ Brief SAG members to attend prepared with main industry risk priorities



- 3. Survey available analysis tools for data analysis
- ✓ Analyst tasked to survey tools including benchmarking



- 4. Draft Procedures for Hazard identification and risk assessment
- ✓ Task analyst to draft procedures and consult SSP team, AIG, SAG members
- ✓ Review for consistency with Safety Oversight Policy (if no policy exists, draft Policy)
- ✓ Circulate for comment and evolve to approval



- 4. Draft Procedures for Hazard identification and risk assessment
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- 5. Workshops with internal stakeholders on risk profiles
- ✓ Organise workshops / briefings with internal stakeholders
- ✓ Sector risk profiles developed by RBO team with industry
- ✓ Industry risk profiles developed by RBO team (confidential to organisation)



6. Develop SPIs

- ✓ Determine safety objectives
- ✓ Identify highest risks using international and MOR data
- ✓ Identify main contributors to the highest risks and objectives
- √ Assess whether relevant data is available or needs to be collected
- ✓ Draft SPI dashboard for SAG and the SSP IT approval
- ✓ Regular submission of SPIs to SSP Committee
- ✓ Communication of safety priorities to staff and industry



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Step 3: Stakeholder Management

- Identify relevant stakeholders involved in achieving the project objectives and deliverables
- Document stakeholders' roles against key deliverables using the RACI matrix (responsible, accountable, consulted or informed)
- Develop a stakeholder communication matrix to manage achievement objectives and deliverables.



RACI matrix

TASKS	ASKS Safety Team		Executive	Tech Depts			
Analyst role	С	R	А				
Establish SAG	С	Α	R				
Analysis Survey	R, A	С					
Draft Procedures	R	R	Α	С			
Internal Workshops	R, A			С			
SPI development	R	R	А	С			



Step 4: Estimate Time & Cost And Build Budget

- 1. Think about what it will take to complete this task/deliverable (*Equipment, Labour, Materials, Software, Political assets, Training, Fees, etc*). Use those groups when You identify resources.
- 2. Think about building-in 10 to 15% tolerance in Your estimate to address potential risks
- 3. Estimate wisely, Do not over inflate your cost

Deliverables	Resources/Activities required	Time	Cost
Or Tasks (WBS)		Estimate	Estimate



Step 4: Estimate Time & Cost And Build Budget

Deliverables Or Tasks (WBS)	Resources/Activities required	Time Estimate	Cost Estimate



Step 5: Develop Project Schedule

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JULI	700	JLII		140 4				IAIL		IVIC	JOINE



Step 6: Project Risk Management

RISK	TRIGGER	SEVERITY	PROBA BILITY	MITIGATION		
Pandemic causing low aviation activity reduce CAA revenue	Pandemic	5	5	CAA aware of SSP priority		
Tech difficult to achieve data integration	Technology issues	4	5	May be able to better exploit existing systems		
Skewed risk picture	Technology Reporting trends	5	4	Validation of data		





Thank You!