

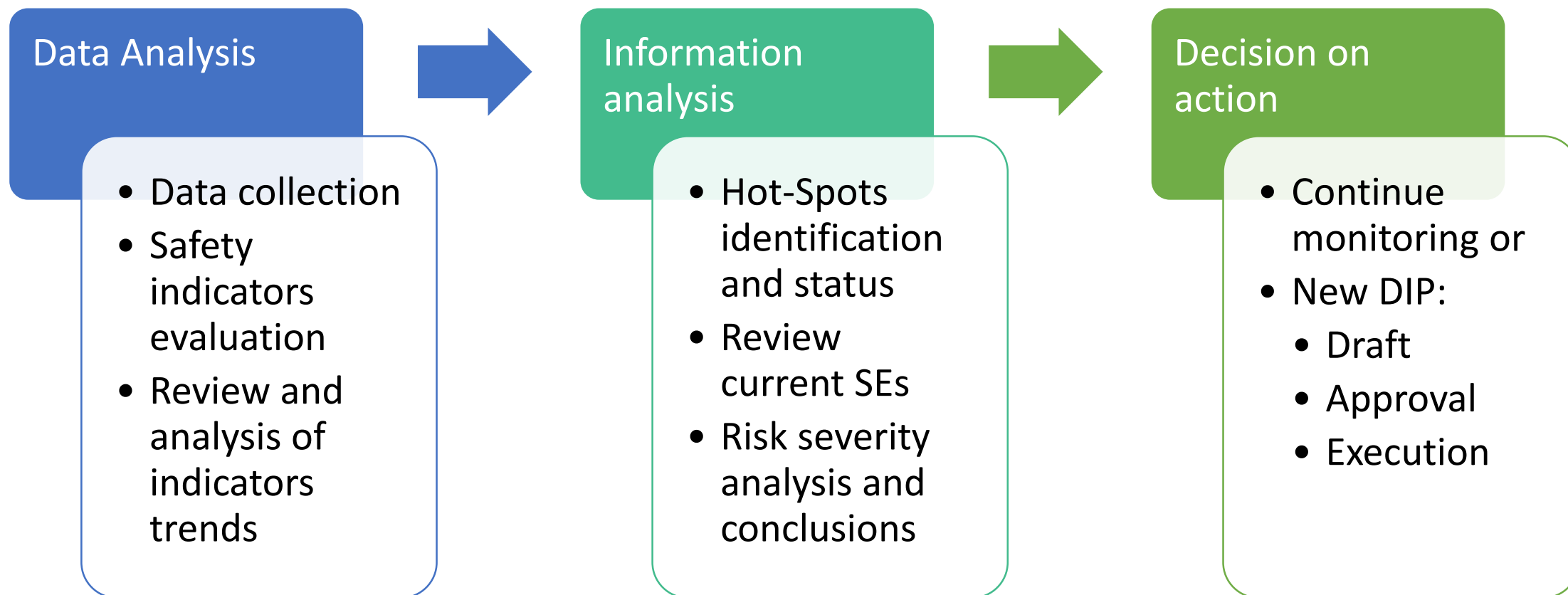
PA-RAST/36 Working Plan

Trinidad and Tobago, 21 to 23 May 2019

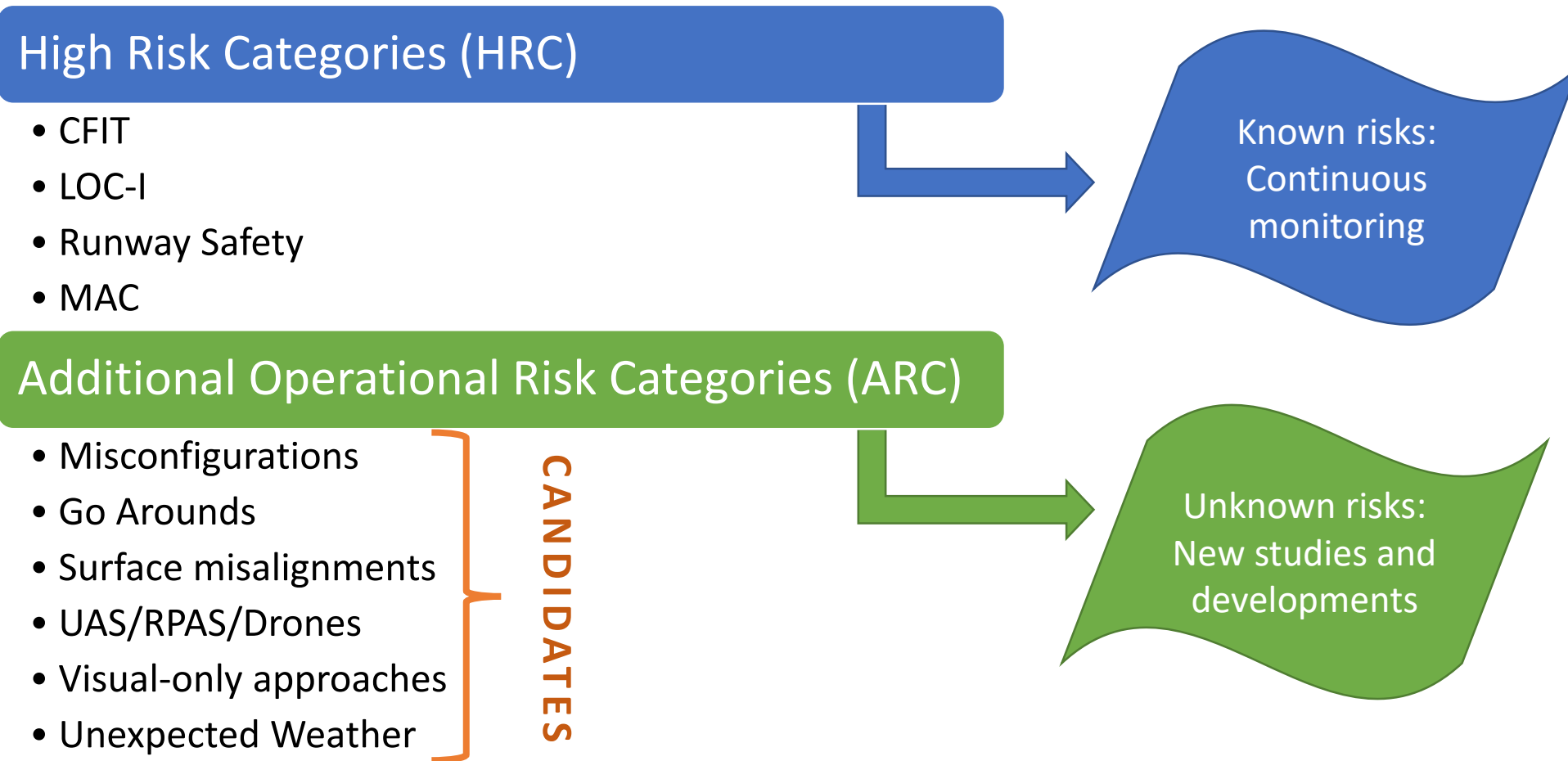
Date: 20-MAY-2019



Overview: The PA-RAST Process



PA-RAST Safety Enhancements Working Plan



Where can we fit each category in the PA-RAST Process?

High Risk Categories (HRC)

- CFIT
- LOC-I
- Runway Safety
- MAC

**For High Risk Categories,
we can run the full process
for constant monitoring**

Decision on action

- Continue monitoring or
- New DIP:
 - Draft
 - Approval
 - Execution

Data Analysis

- Data collection
- Safety indicators evaluation
- Review and analysis of indicators trends

Information analysis

- Hot-Spots identification and status
- Review current SEs
- Risk severity analysis and conclusions

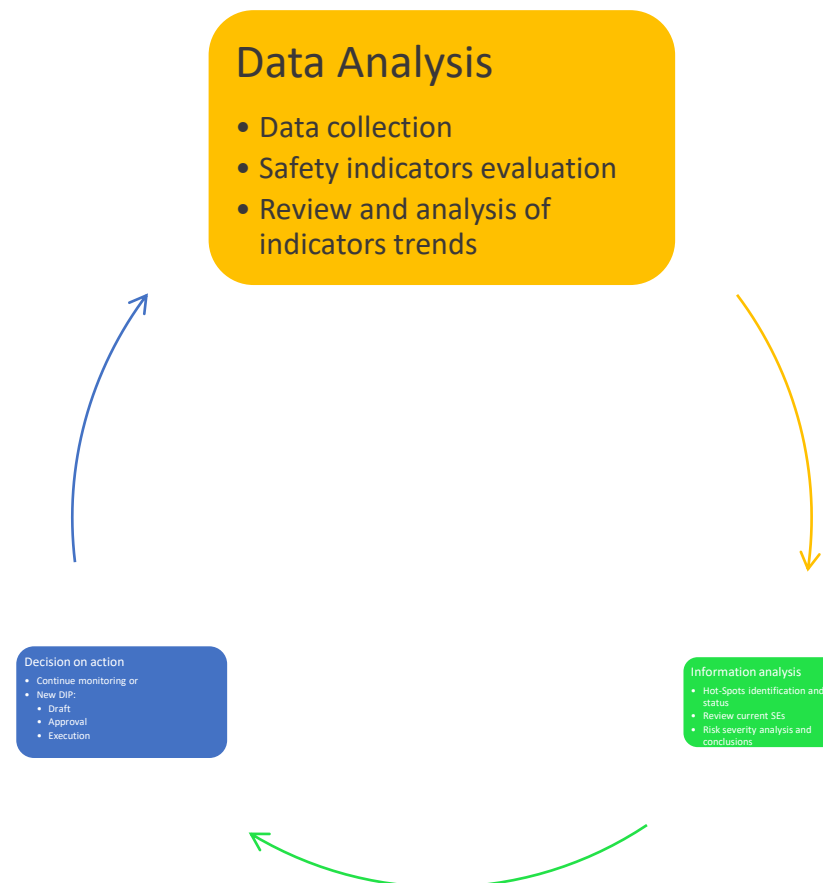


Where can we fit each category in the PA-RAST Process?

Additional Operational Risk Categories (ARC)

- Misconfigurations
- Go Arouns
- Surface misalignments
- UAS/RPAS/Drones
- Visual-only approaches
- Unexpected Weather

For ARC, we must run the first data analysis step: collect data!





The PA-RAST/36 main task:

High Risk Categories (HRC)

- Develop **projects** to deliver:
 - Hot-spots Standard Definition and Prioritization (for each HRC)
 - PA-RAST Definition for HRC SPI Targets and Response Plans
- Apply the PA-RAST **process** to:
 - Monitor HRC SPI Trends
 - Update risk profiles (SPI Targets)
 - Update on current hot-spots

Additional Operational Risk Categories (ARC)

- Select final list of ARC areas to work
- Develop **projects** to:
 - Collect relevant data
 - Define safety indicators
 - Identify patterns, trends or current status of risk
 - Evaluate scenarios with different severity levels



The PA-RAST timetables and agenda organization

PA-RAST Yearly Meeting #1

- HRC Focused
- Other projects status and updates

PA-RAST Yearly Meeting #2

- ARC Focused
- ESC updates to the RAST
- Industry day

PA-RAST Yearly Meeting #3

- HRC Focused
- Other projects status and updates

PA-RAST Yearly Meeting #4

- ARC Focused
- ESC updates to the RAST
- Industry day

JAN ----- FEB ----- MAR ----- APR ----- MAY ----- JUN ----- JUL ----- AUG ----- SEP ----- OCT ----- NOV ----- DEC



2019 PA-RAST timetables and agenda organization

- Dates to be considered when designing deadlines:
 - RASG-PA/10 Plenary: 20 to 21 JUN 2019
 - PA-RAST/37: 20 to 21 AUG 2019
 - RASG-PA/ESC/33: 11 to 12 SEP 2019
 - ICAO 40th General Assembly: 24 SEP to 04 OCT 2019
 - PA-RAST/38: 12 to 14 NOV 2019
- Additional information
 - PA-RAST meets 4x/yr, generally in FEB – MAY – AUG – NOV
 - ESC meets 2x/yr, generally in MAR – SEP
 - Plenary meetings occur in JUN, once every 3 years (same years of ICAO Assemblies)

JAN ----- FEB ----- MAR ----- APR ----- MAY ----- JUN ----- JUL ----- AUG ----- SEP ----- OCT ----- NOV ----- DEC



Meeting instructions

- Meeting participants should follow the agenda, to work on the Project Charters.
- Expected outcomes are:
 - Final list of ARC Projects
 - One project charter for each risk category, HRC and ARC – 10 in total.
 - Drafts for each project charter are provided.
 - Meeting report will adopt a simple format (this very pptx), indicating the status of each project charter:
 - Complete – all conditions and information needed to work are within reach
 - Incomplete – if this is the case, the Team must indicate what further conditions are needed
- At the end, the Team will review the charters, to complete the report.



PA-RAST/36 Meeting Agenda

DAY 1

8:30 – 9:00	Agenda Item 1 Agenda Item 2
9:00 – 10:30	HRC Project: CFIT
10:30 – 10:50	Coffee Break
10:50 – 12:20	HRC Project: Runway Safety
12:20 – 13:30	Lunch Break
13:30 – 15:00	HRC Project: LOC-I
15:00 – 16:00	Progress report / comments
--- END OF DAY 1 ---	

DAY 2

9:00 – 10:30	HRC Project: MAC
10:30 – 10:50	Coffee Break
10:50 – 12:20	ARC Project: Misconfigurations
12:20 – 13:30	Lunch Break
13:30 – 14:30	ARC Project: Surface misalignments
14:30 – 14:50	Coffee Break
14:50 – 15:50	ARC Project: Go-around procedures
15:50 – 16:50	ARC Project: UAS/RPAS/Drones
--- END OF DAY 2 ---	

DAY 3

9:00 – 10:00	ARC Project: Visual appr. to IFR
10:00 – 11:00	ARC Project: Unexpected weather
11:00 – 11:20	Coffee Break
11:20 – 12:50	Meeting report Other business
12:50 – 13:00	Final words
--- END OF DAY 3 ---	

PA-RAST/36 Report

Trinidad and Tobago, 21-23 May 2019

Final notes and conclusions from the meeting





List of participants

- Floyd Abang (IATA)
- Gabriel Acosta (IATA)*
- Fabricio Duarte (ALTA)
- Virgino de Castro (ALTA)
- Benoit Doussy (ATR)
- Diana Martinez (IFALPA)
- David Zwegers (AIRBUS)
- Ross Godwin (BOEING)
- Frazier Rodrigues (COCESNA)
- Heather Henderson (NAV Canada)
- Raj Narwani (Trinidad and Tobago)
- Kingsley Herreira (Trinidad and Tobago)
- Shannon Wright (Canada)
- Crystal Fergusson (United States of America)
- Kimberly Fowler (United States of America)
- Daniel Soares (Brazil)*
- Javier Puente (ICAO-SAM)

(*) Co-Chairs



Work classification

- Following the conclusions of the ESC/32, report on projects should indicate a corresponding classification in three different fronts:

A - Safety Data and Information Analysis

B - ESC Specific Projects

C - PA-RAST Management



1. Final list of PA-RAST Projects

- HRCs :: Monitoring known risk

- [A1] CFIT
- [A2] LOC-I
- [A3] Runway Safety
- [A4] MAC

- ARCs :: Evaluation of unknown risk

- [A5] Aircraft misconfigurations
- [A6] Post Go-Around outcomes
- [A7] Surface misalignments
- [A8] UAS/RPAS/Drone Airspace Integration
- [A9] Severe weather events
- ~~[A9] Visual approaches~~

← DELETED: ESC specific project



Reporting format

- The following slides contain the PA-RAST Project Management Dashboard, designed to follow up the PA-RAST work progress.
- The format is not rigid, but should contain the necessary information for the decision-making process of the ESC.
- The top three fields are:
 - Project remarks
 - Project resources
 - Meeting remarks
- The bottom graph represents the list of deliverables:
 - Stages of execution / partial objectives
 - Deadlines – in terms of meetings or month/year

Please modify, review, criticize and complement the information. Add more slides as needed!!

A1. Controlled Flight Into Terrain



Project charter status

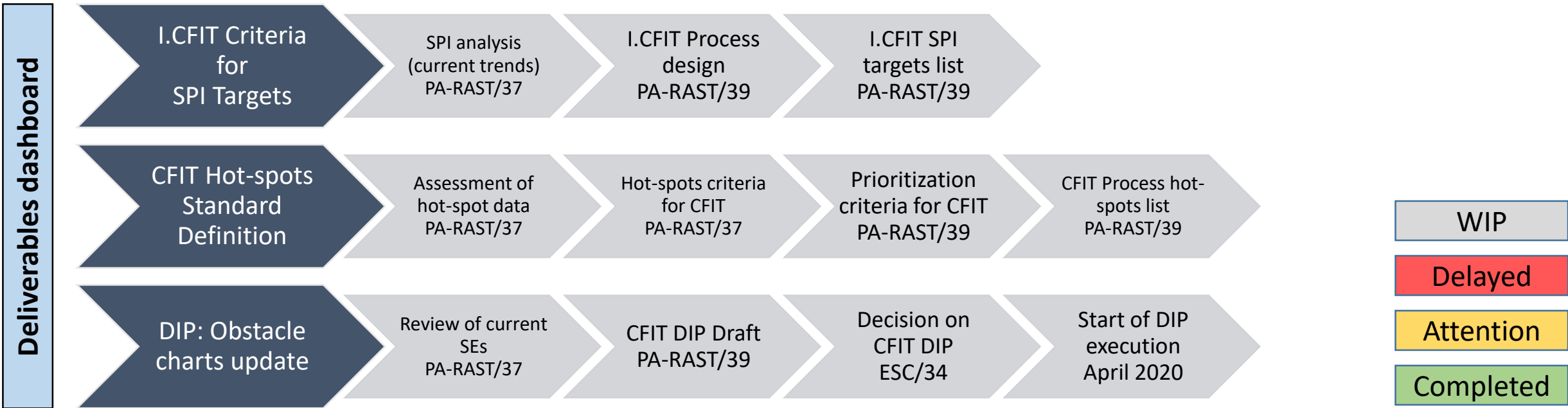
- Completed
- - Development starts on PA-RAST/37
- - Deliverables: 2 Guidance Materials; 1 DIP

Resources

- Leader: USA
- Team: BOEING; ALTA; IATA; BCAST; IFALPA; ICAO

PA-RAST/36 Remarks

- Indicator: EGPWS/TAWS alerts
- Additional data: aggregate data on crew reports (if available) and CST studies (e.g. crew tolerance to alarms)



A2. Loss of Control – In Flight

Project charter status

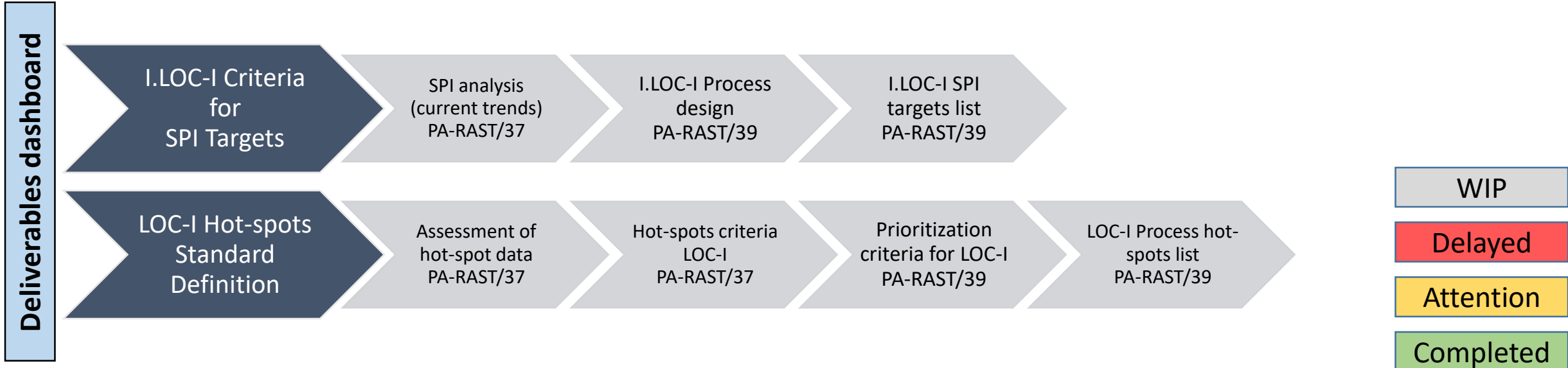
- Completed
- - Development starts on PA-RAST/37
- - Deliverables: 2 Guidance Materials

Resources

- Leader: BOEING
- Team: USA; ALTA; IATA; BCAST; IFALPA; ICAO

PA-RAST/36 Remarks

- Indicators: Bank angle, sync rate, AoA
- Additional data: training initiatives results
- Go-around related events are directed to the ARC project



A3. Runway Safety



Project charter status

- Completed
- - Development starts on PA-RAST/37
- - Deliverables: 2 Guidance Materials

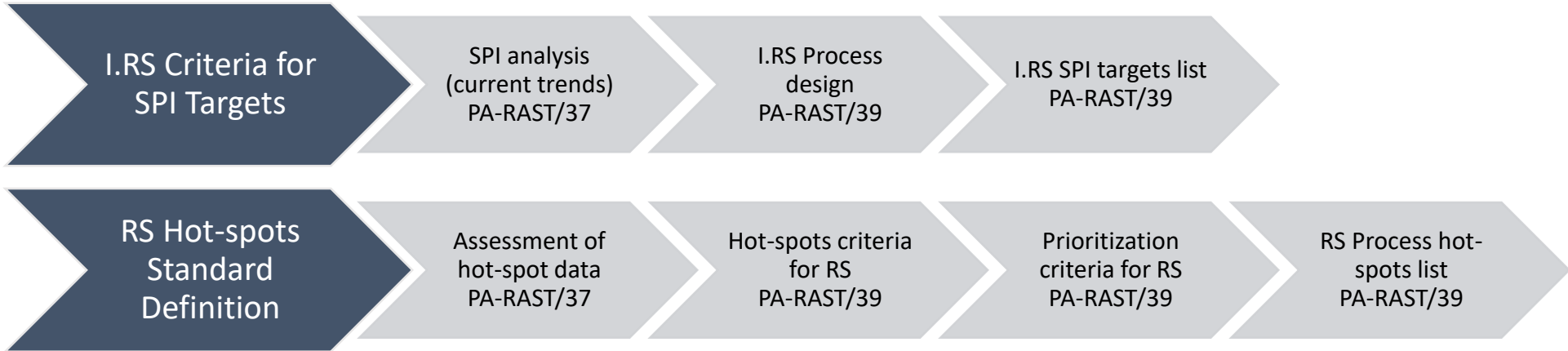
Resources

- Leader: ALTA
- Team: USA; BOEING; IATA; BCAST; IFALPA; ICAO

PA-RAST/36 Remarks

- Indicator: Unstable, tailwind approaches
- SRVSOP/ACSA integration: Runway Condition Reporting
- Runway incursion data will be collected
- Standardized markings will be evaluated

Deliverables dashboard



- WIP
- Delayed
- Attention
- Completed

A4. Mid-Air Collision



Project charter status

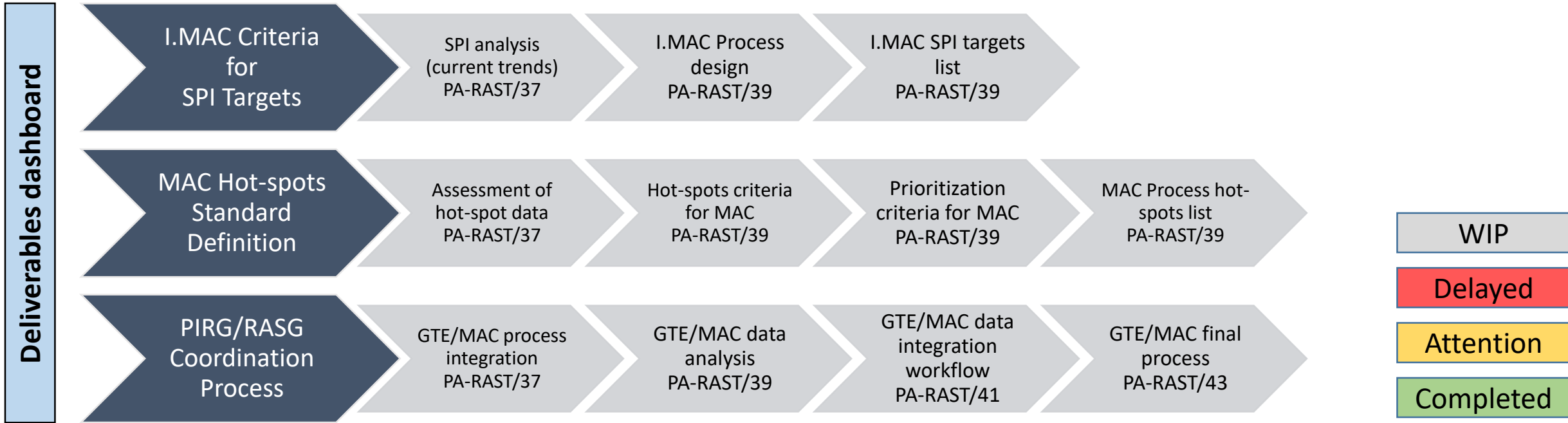
- Completed
- - Development starts on PA-RAST/37
- - Deliverables: 2 Guidance Materials; 1 PIRG/RASG Established Process (data sharing)

Resources

- Leader: IATA
- Team: USA; BOEING; ALTA; BCAST; IFALPA; ICAO

PA-RAST/36 Remarks

- Indicator: TCAS-RA events
- GREPECAS: LHD data integration
- Hot-spot criteria to be developed in coordination with the GTE (expected to consume time)



A5. Aircraft misconfigurations



Project charter status

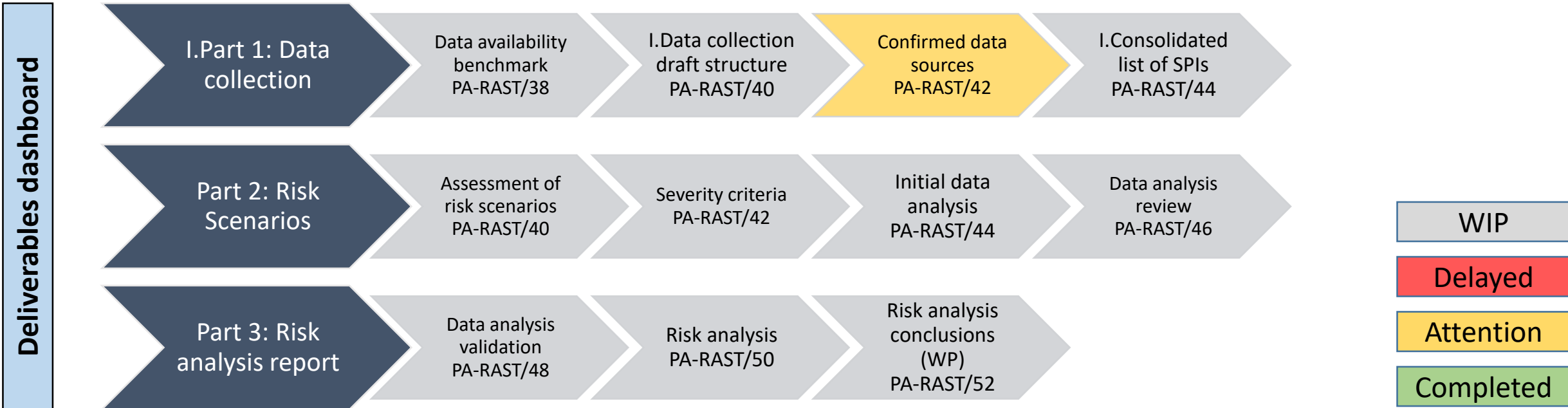
- Completed
- - Development starts on PA-RAST/38

Resources

- Leader: BOEING
- Team: Airbus, IATA, (TBD)

PA-RAST/36 Remarks

- Data collection is main priority (needs attention)
- Data quality assessment to be done by PA-RAST/40
- Final decision on a safety case by PA-RAST/42



A6. Post Go-Around outcomes

Project charter status

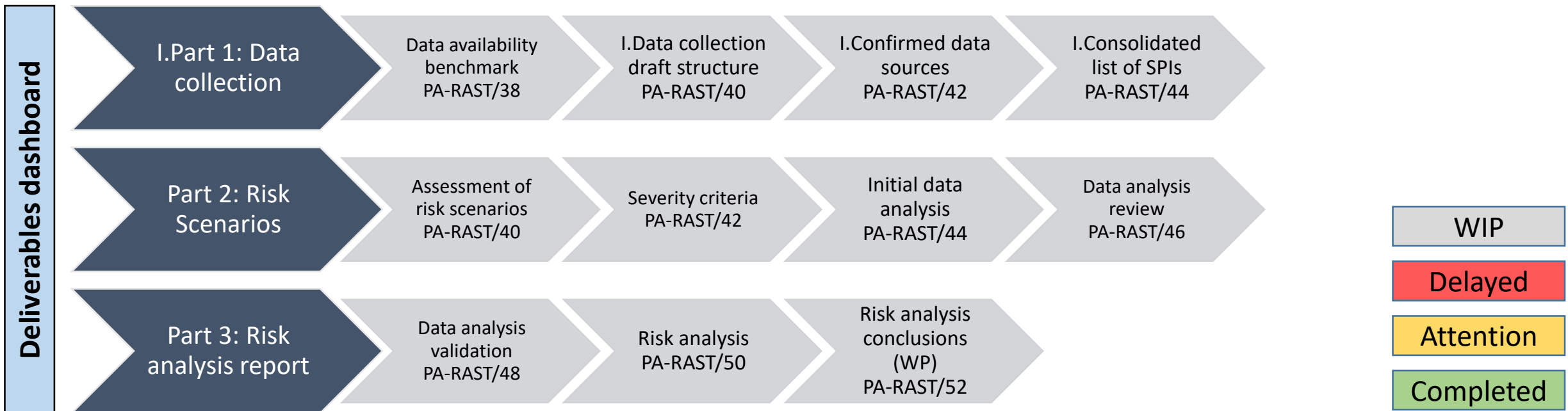
- Completed
- - Development starts on PA-RAST/38
- - Possible extra deliverable: PIRG/RASG data sharing

Resources

- Leader: BOEING
- Team: **IFALPA, USA, BCAST**
- **(complement as needed)**

PA-RAST/36 Remarks

- Data availability is good but not structured yet
- GREPECAS coordination opportunity (ATCO procedures, pressure, etc.)



A7. Surface misalignments



Project charter status

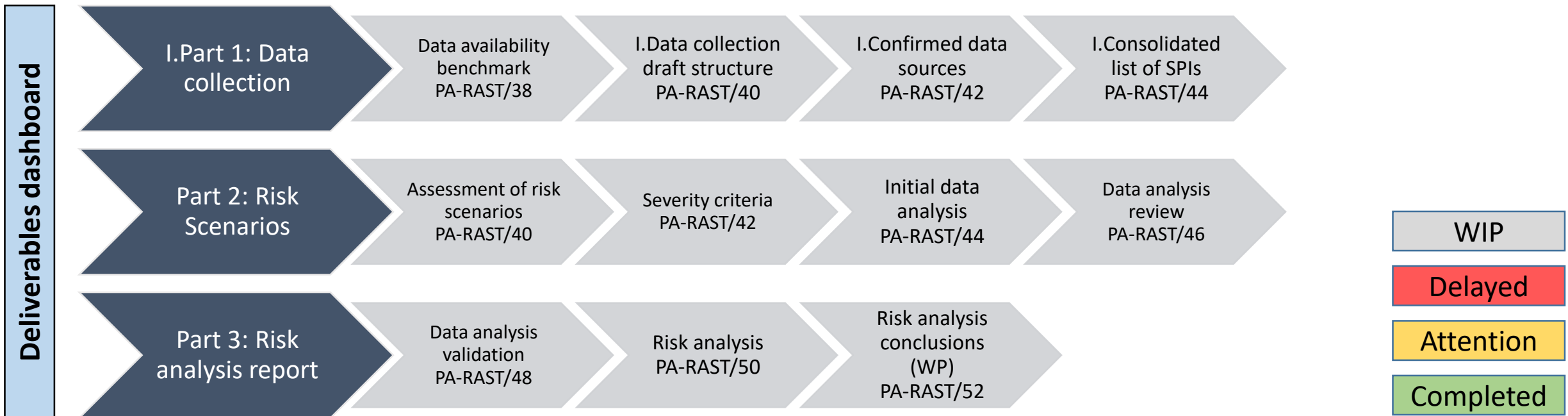
- Completed
- - Development starts on PA-RAST/38
- - Possible extra deliverable: PIRG/RASG data sharing

Resources

- Leader: IATA
- Team: IFALPA, NAV Canada, CAST, Costa Rica, Trinidad and Tobago, USA, Brazil

PA-RAST/36 Remarks

- Data availability is good (IATA Steades, CAST, NAV Canada, etc.)
- Several cases are available
- GREPECAS coordination opportunity



A8. UAS/RPAS/Drone Airspace Integration



Project charter status

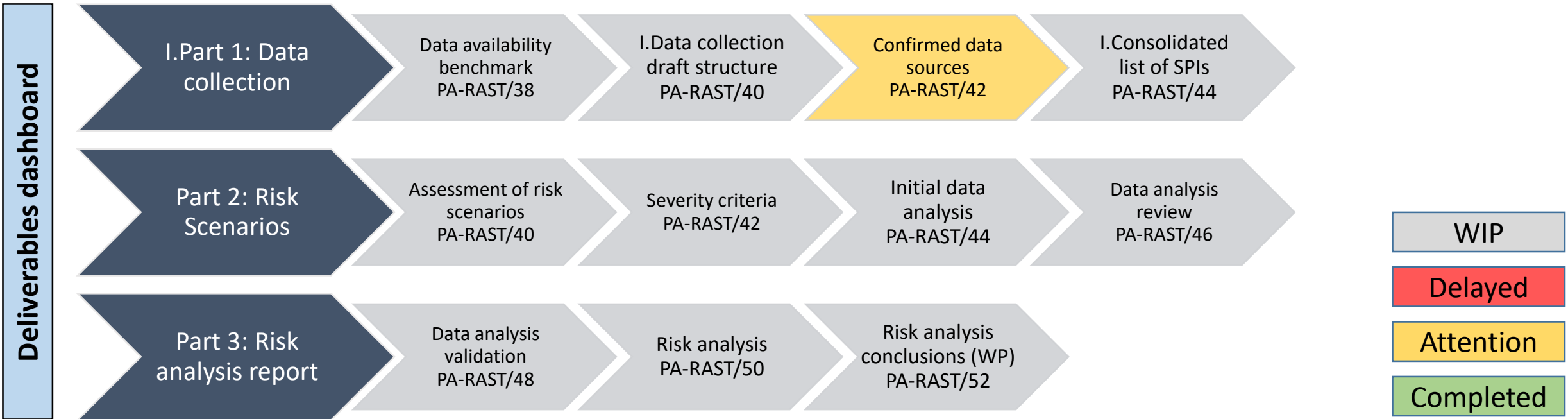
- Completed
- - Development starts on PA-RAST/38

Resources

- Leader: IATA
- Team: Brazil, Trinidad and Tobago, USA, Boeing

PA-RAST/36 Remarks

- Main objective is to build data: reports database data to be provided (BCAST, UAST, etc.)
- Coordination with ICAO and CANSO
- Will take time to have mature data
- IATA Drone Study as starting point



A9. Severe weather events



Project charter status

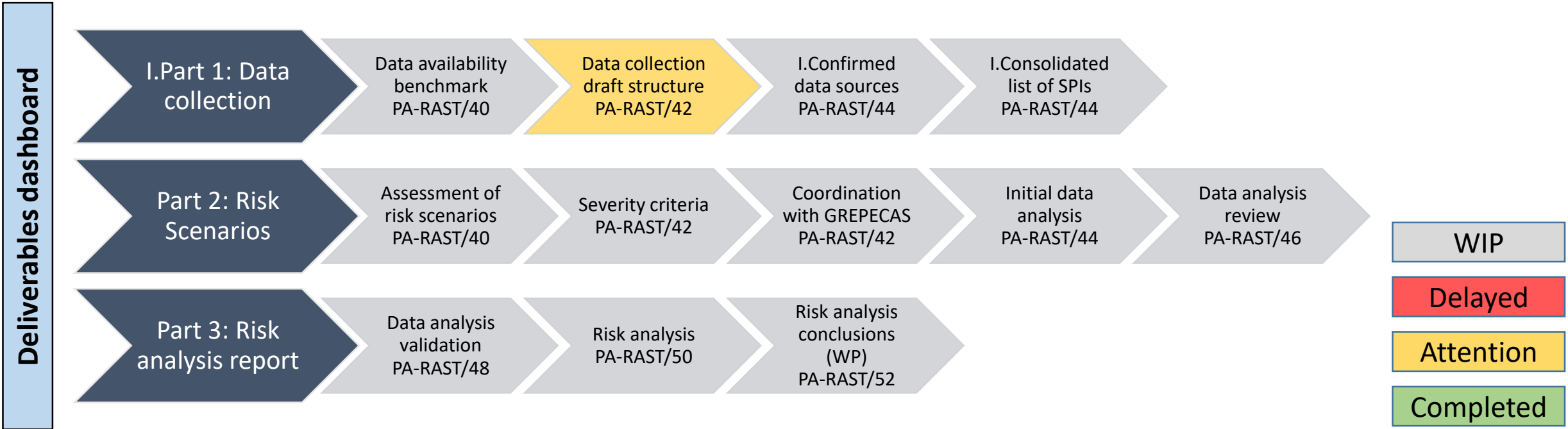
- Completed
- - Development starts on PA-RAST/40

Resources

- Leader: IATA
- Team: **USA**

PA-RAST/36 Remarks

- Data collection is main priority (needs attention)
- Decision on data and safety case to be done by PA-RAST/42
- Coordination with ICAO-SAM Office



A9. Visual approaches with PBN

Project charter status

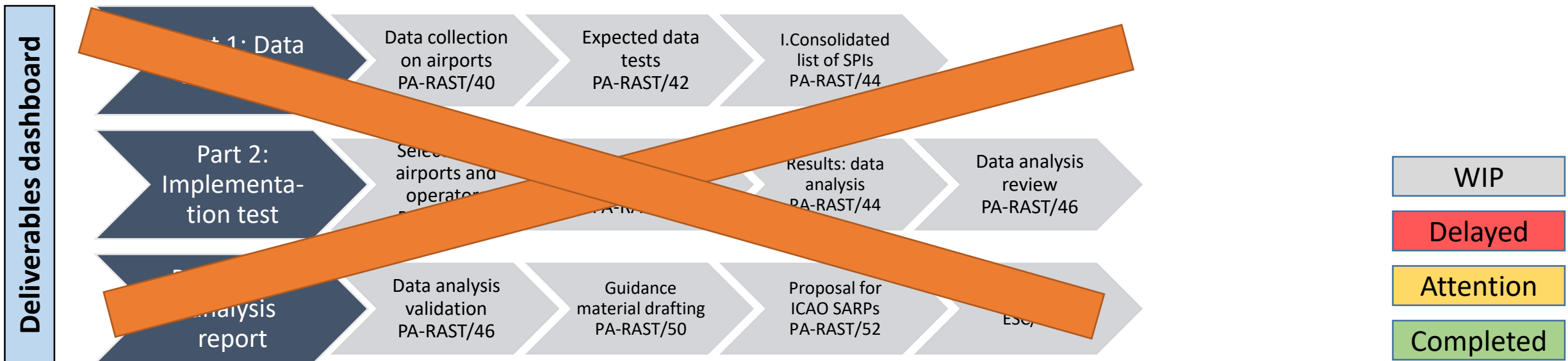
- Incomplete:
- - Remains as ESC Specific Project

Resources

- Leader: ATR
- Team: BCAST, TBD
- (complement as needed)

PA-RAST/36 Remarks

- PA-RAST will only evaluate existing data
- By PA-RAST/40 the team will evaluate the need to get involved in the Project, based on safety case.





2. Review status of Other Projects

- [B1] ANConf/13 evaluation of conclusions related to the RASG-PA
 - Long term impact stemming from the ANConf valid conclusions
 - RASGs mandate and ToRs
 - Coordination with other groups (PIRG, RSOO, RAIO, etc.)
- [B2] CST Implementation Guidance Material
 - Directed to States Authorities, to foster the establishment of their CST
 - Examples from RASG-PA, US-CAST, Canada's SSP, BCAST, Equador, Argentina and others
- [B3] GoTeams Process for the PA-RAST
 - Relates to the localized priority identification (from data analysis on terminals, airports, etc.)
 - Direct interaction of the RASG-PA with local stakeholders to implement safety solutions



3. Review status of PA-RAST Administrative Projects

- [C1] Past Work Evaluation
 - Covers the period: 2008-2018
 - Website update with completed/delivered work
 - Assessment of a non-binding relation between the positive outcomes with safety indicators (fatality risk, etc.) progression over the period
- [C2] Internal Administration
 - Processes to support the ESC Decision Making
 - Internal KPIs (deadlines, resources allocation and availability, etc.)
 - Information registry (terms of reference, procedural handbook, confidentiality, participants control, etc.)



B1. ANConf/13 evaluation of conclusions for A40

Project charter status

- Completed

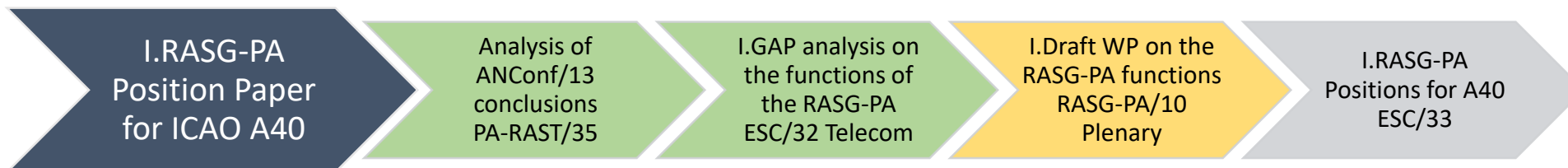
Resources

- Leader: ICAO-SAM
- Team: ICAO-NACC, Brazil, Canada, Costa Rica

PA-RAST/36 Remarks

- Just updates, will end by ESC/33.

Deliverables dashboard



WIP

Delayed

Attention

Completed



B2. CST Guidance Material

Project charter status

- Completed

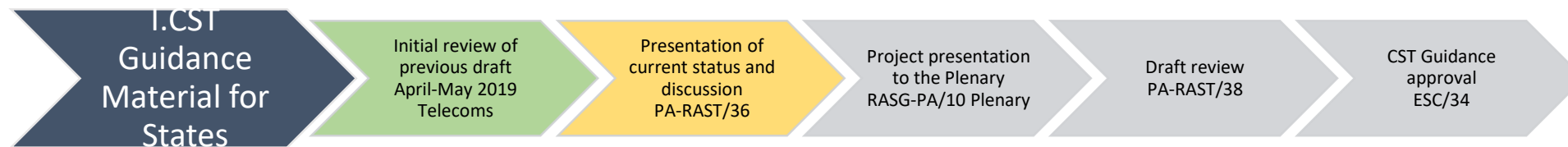
Resources

- Leader: USA
- Team: ICAO-SAM, ICAO-NACC, Brazil, Canada, IATA, ANAC

PA-RAST/36 Remarks

- Discussion continues on a presentation to be done at the Plenary

Deliverables dashboard



WIP

Delayed

Attention

Completed



B3. PA-RAST Go-Teams Process

Project charter status

- **Completed**

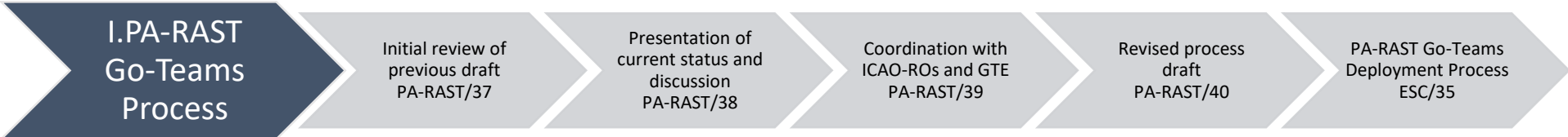
Resources

- Leader: PA-RAST Co-chairs
- Team: ICAO-SAM, ICAO-NACC, Canada, IATA, USA

PA-RAST/36 Remarks

- Work to wait for HRC development

Deliverables dashboard



WIP

Delayed

Attention

Completed



C1. Past Work Evaluation

Project charter status

- **Completed**

Resources

- Leader: IATA
- Team: ICAO-SAM, ICAO-NACC, USA, IATA, Brazil

PA-RAST/36 Remarks

- ICAO-SAM has not finished updating the website
- Assessment of relative level of success may take more time than planned

Deliverables dashboard



WIP

Delayed

Attention

Completed



C2. PA-RAST Working Plan Organization

Project charter status

- **Completed**

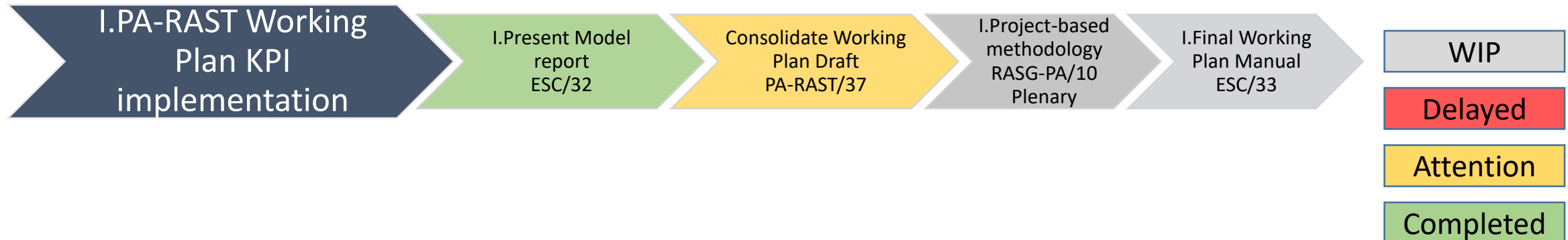
Resources

- Leader: Brazil
- Team: ICAO-SAM, ICAO-NACC, IATA

PA-RAST/36 Remarks

- This project is to ensure proper use of Project Methodology with associated KPIs

Deliverables dashboard





Final remarks

- Very Special Thanks to Trinidad and Tobago for hosting the meeting with an ever increasing support!
- Thank you!