IDCA: An Introduction

Ravi Rajamani
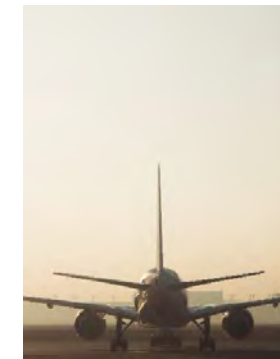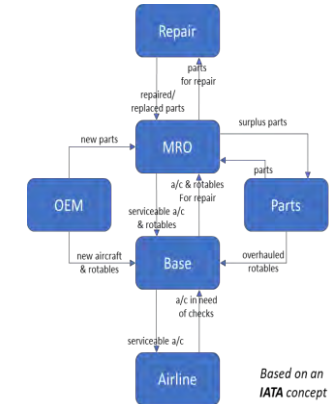
President, Independent Data Consortium for Aviation

MRO-Asia Pacific, Singapore, September 2023
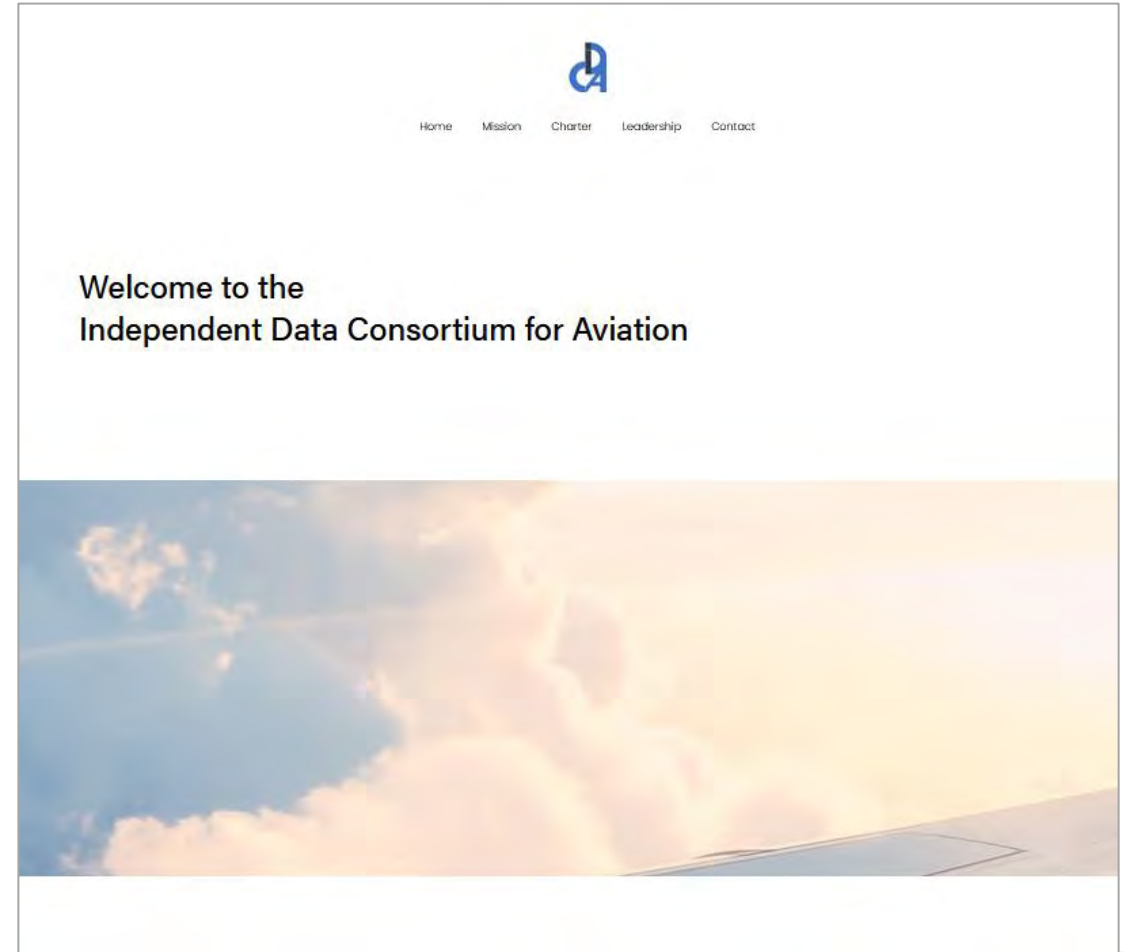
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Some Common Pain Points

- Can I track parts (including all regulatory documentation) from birth to disposal?

- How do I quickly locate and procure parts for getting my plane back in the air after an Aircraft on Ground (AOG) situation?

- If I'm have an issue with equipment many others fly, how can we pool all our data to diagnose the problem quickly and get to the root cause?

- How confident am I that an aircraft operating in a region experience conflict and isolated from the world still has genuine airworthy parts?

- Are there any fake parts installed on my aircraft?

Independent Data Consortium for Aviation Started to Address These!

- IDCA started in 2022, after about a year of preparation.

- Mark Roboff (IDCA incorporator), Leon Gommans, and Ravi Rajamani developed the first set of governance policies for the IDCA.

- These follow the academic work done by Leon Gommans and others related to the use of federated systems for sharing and managing data and data ownership.

- IDCA is **not** envisioned to be a service provider to the industry. It is set up to develop rules and policies for data sharing.

- Currently IDCA has representations from every sector of aviation, including independent third-party software companies.

- The goal is to develop **data-governance standards** for sharing data fairly and equitably in a non-proprietary / pre-competitive manner.

Welcome to the
Independent Data Consortium for Aviation

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IDCA Leadership

IDCA Board of Directors

Jeff Smith
IDCA Board Chairman

Leader, Digital Product Programs, Parker Aerospace

Bio

Mark Roboff
IDCA Board Treasurer

Co-Founder & CEO, SkyThread

Bio

Fabrice Villaume
Head, Digital Services Biz Growth & Leader, Digital Alliance (with Delta & GE), Airbus

Bio

Olivier Savin
VP, Digital Customer Sales Support & Services, Safran Group

Bio

Zachary Jakaitas
Head, Data Governance, Connected Aviation Solutions, Collins Aerospace

Bio

Derk Nieuwenhuijze
VP Digital, Marketing & Communication, AFI-KLM Engineering & Maintenance

Bio

Jan de Wall
Head, Loan & Exchange, AOG Services,Lufthansa Technik

Bio

IDCA Boad Advisors

William Voss, FRAeS
President and Independent Consultant, William R. Voss, LLC

Bio

Chris Markou, PhD
Head, Technical Operations, IATA

Bio

IDCA Leadership Council

Ravi Rajamani, PhD, FSAE, FIMechE
President

Bio

Leon Gommans, PhD
Vice President

Bio

Identify (and Base) Policies on Industry-Relevant Use Cases

Currently working on five use cases

- Parts tracking from birth to disposal

- Aircraft on Ground (AOG) servicing

- Diagnosing technical problems common to all operators

- Preserving mandatory aircraft safety data even in areas experiencing conflict

- Lease ownership transfer
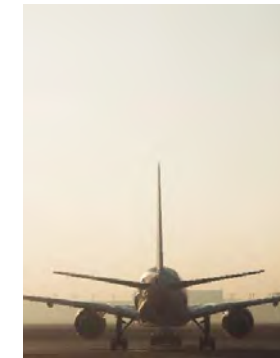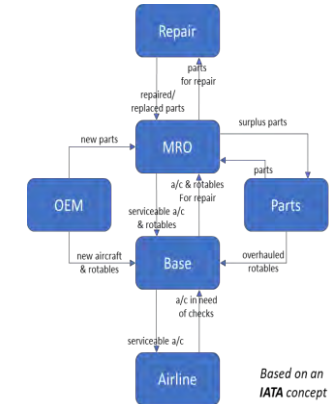
Four Issue Papers Have Already Been Published

- These are: Parts tracking, Data analytics, AOG servicing, and Airworthiness in areas of conflict

- The idea is to develop standards via actual use cases that the industry cares about.

- Currently, we are working on three fundamental data groups:
  - Parts
  - Analytics
  - Ownership-related

- While some issues are unique, many of the governance policies will be common across these data groups, making the entire job a little easier.

Current Status, Next Steps, and How You Can Contribute
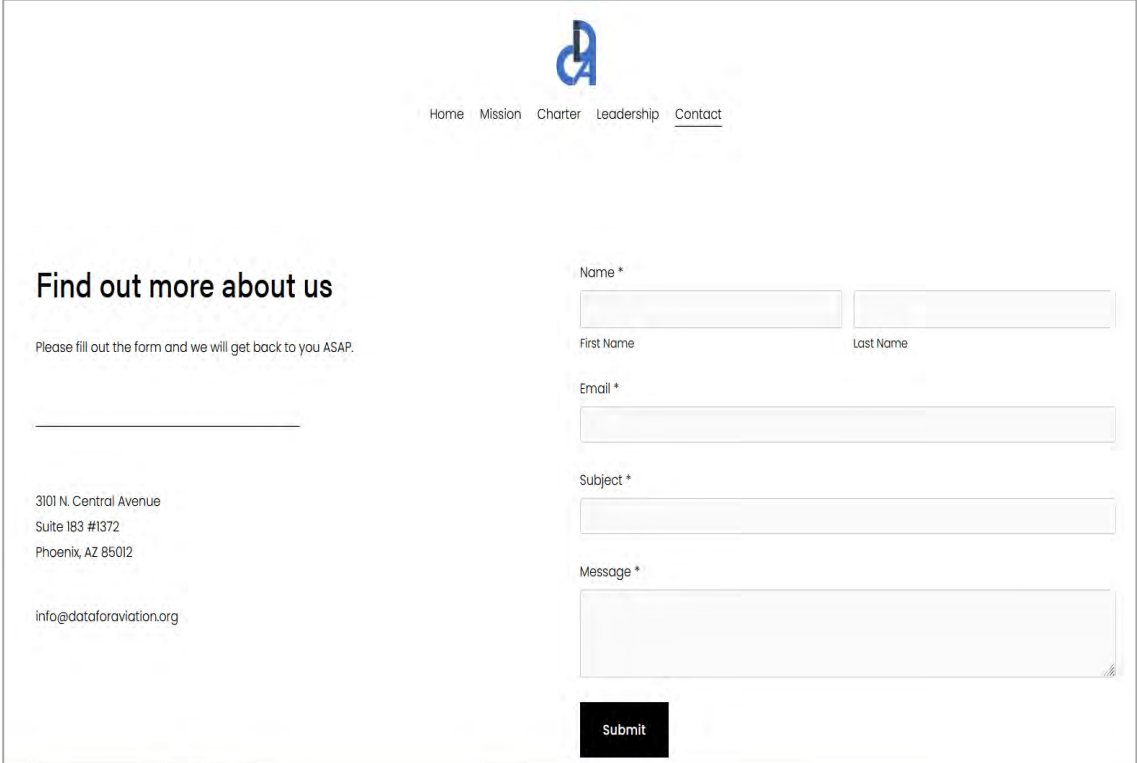
Current Status

- Parts Tracking and Data Analytics working groups (WG) have started working and meeting regularly (every two weeks).
- The entire general body of IDCA meets every two weeks to disseminate information to all members.
- The Board of Directors meets each month to ensure IDCA oversight.

Next Steps

- Continue work on WGs.
- Complete the ownership issue paper.
- Establish ownership WG and begin work.
- Continue working on to publicize IDCA across the industry to get more members.
- Publish other relevant issue papers.

How Can You Contribute?

- Visit our website & contact us.
- Reach out to any of us personally.
- **Become a member!**

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THANKS