SKYTHREAD

IATA MCC Presentation

5 OCTOBER 2022

ENABLING TRUST IN THE AVIATION ECOSYSTEM

https://www.skythread.aero/

Agenda

1. Problem Space
2. Architecture
3. Storyline
4. IDCA Founding Principles
5. IDCA Organizational Structure

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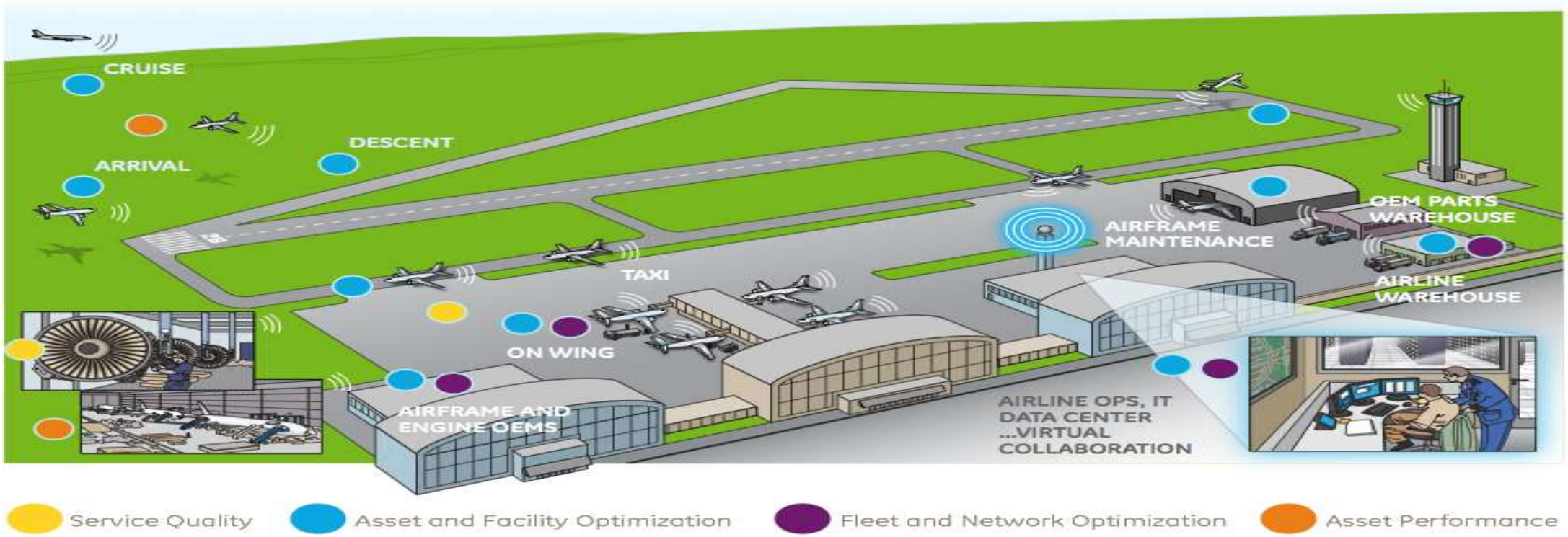
The problem space (1/2)

How to create a federated view of the life of an Aircraft while systems are siloed?



SkyThread is a blockchain data exchange network delivering trust in "Data for the Life of the Aircraft."
Our customers are the Maintenance and Overhaul Ecosystem of the Skies

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The problem space (2/2)

The current paradigm in the aviation industry is based on centralized, proprietary data stores, creating silos that inhibit value creation, and players that do not interact transparently with each other :

- **Many manual tasks** between the different stakeholders of the MRO value chain in aviation industry
- **Difficulty to build history, traceability** and provenance of parts due to complex multi-tiered transactions
- **Lack of visibility** about the **configuration** and status of the Aircraft and its components when transiting from one to another actor.
- **Lack of trust** between Stakeholders (dozen of companies contribute to the maintenance and operation of a single aircraft) that makes data exchanges and lifecycle tracking very difficult and time consuming)

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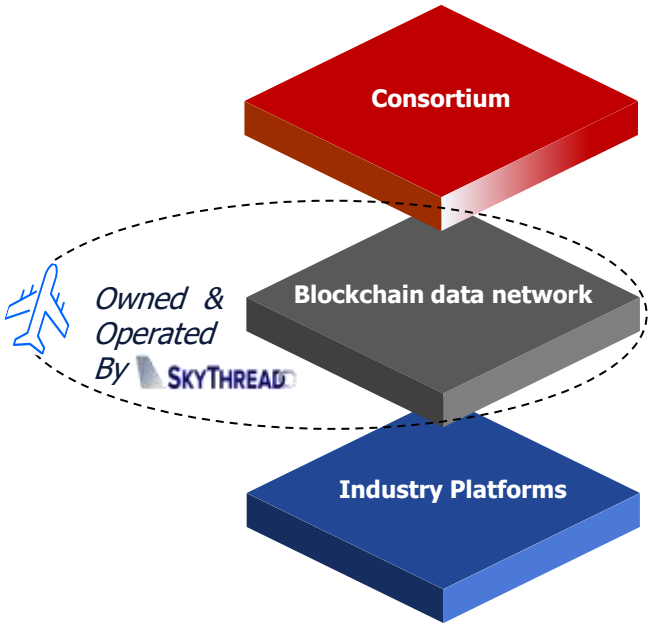
The solution is all about trust

Co-existing business model by design



Industry Consortium (IDCA): Set TRUSTed standards and rules for the industry to enhance collaboration

Blockchain data exchange network: delivering TRUST for lifecycle event tracking for parts / assets / planes

Industry Platforms: leverage the TRUSTed data for delivering Business value

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Demonstration Setup

CSV upload

Querying thru UI

SkyThread Digital Thread Storyline

Physical Part Life

Digital Thread

New

Birth PART

Tier 1 OEM

Request to source spare part

Pool provider

Fulfill order, ship PART

Tier 1 OEM

Ship PART to 145

Airline/Aircraft MRO

Install PART

Remove PART

Airline/Aircraft MRO

Issue PART for install

Ship PART

Airline/Aircraft MRO

Pool Provider

Receive PART in inventory

Pool Provider

Receive PART at 145

145 component repair station

Repair PART

ship PART

145 component repair station

Move PART in inventory

Pool Provider

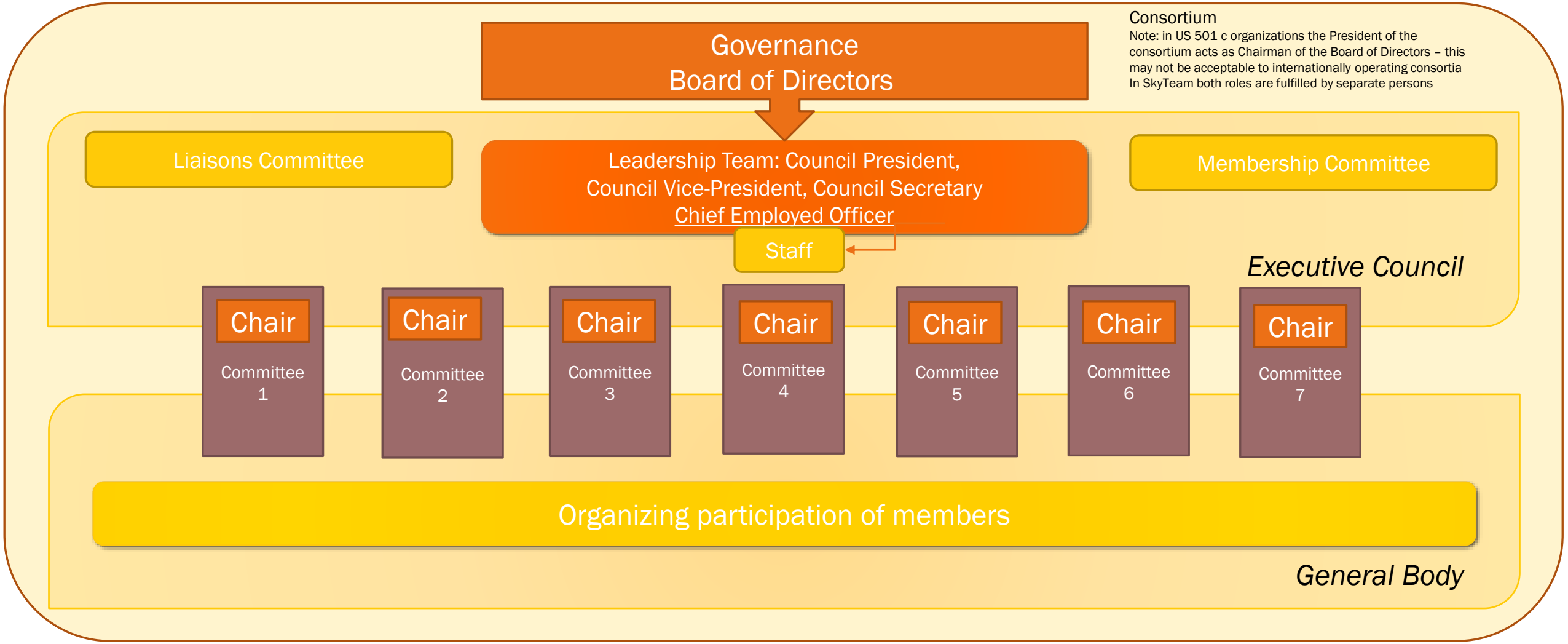
IDCA Problem Landscape

- Each aviation entity collects data considered to be under sovereign control by the entity.
- Data sharing is typically arranged via bilateral agreements involving lawyers and patience.
- There are no easy avenues to share helpful information across organizational boundaries for value creation.
- Centrally owned platforms face reluctance from data owners
- Data infrastructure is duplicated across different entities for little or no gain in security and efficiency
- Data integrity is compromised by manual and duplicate handling

IDCA Enables

- Precompetitive data can be shared in a fair and trustworthy way serving a common benefit
- Consortium rules drive economic fairness and mitigate member risk
- Common rules of engagement accelerate the establishment of data sharing agreements between members. Note: members can still compete based on independent agreements
- Appropriate fleet-wide and industry-wide information can be shared on an anonymous basis for universal gain
- Consortium-based standards development increase efficiency and productivity by providing data sharing archetypes & model agreements
- IDCA will provide input to state of art international R&D by advancing the automation and security of data exchange technologies and methodologies

IDCA Org Structure



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Thank you

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