Some Context...

QUIET SUPERSONIC FLIGHT

AIR TRAFFIC

ELECTRIC PROPULSION

URBAN AIR MOBILITY
Mission First
Digital Transformation (DT) at NASA

The transformation of NASA’s activities, processes, competencies, capabilities, and/or products to maximize mission success by fully leveraging evolving digital technologies.

<table>
<thead>
<tr>
<th>TRADITIONAL</th>
<th>DIGITIZED</th>
<th>TRANSFORMED</th>
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<tr>
<td>ENTERTAINMENT</td>
<td>NAVIGATION</td>
<td>TRANSPORTATION</td>
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NASA DT Literature Review – Recommendations from Literature

• Undertake digital transformation to retain competitive advantages and realize full efficiency

• Align a digital transformation roadmap with the priorities of leadership and organizational investments

• Cultivate a culture of continuous improvement across digital transformation initiatives
Aeronautics Knowledge Management Steering Group

**Mission**
The KMSG seeks to improve knowledge access and transfer, support mission-focused learning, and create and enhance consistency and coherence.

**Vision**
NASA Aeronautics employs exceptional knowledge, state of the art learning, and advanced technological agility to benefit the nation and humanity.
Knowledge Management Approaches

Technology

Facilitation

- People
- Process
- Tools
KM through a DT lens...

More
- Sharing
- Experiments
- Participation
- Governance
- Data-centric

Less
- Control
- Structure
- Direction
- Specifications
- Final products
From here to there...
Adapt from other disciplines

Human Centered Design
- Empathize first
- Iterate with stakeholders

Agile Development
- Develop Minimally Viable Product
- Gather user stories
- Build for scale
Understand the environment
Reduce clutter and organize data
Build a framework
Test and iterate
Initial Results

Knowledge Access and Transfer
- Intranet structured to scale for Aero workforce

Mission Focused Learning
- Prototyping and datafication of collaborative workshops

Consistency and Coherence
- Identifying and prioritizing critical information
- Building lexicon and reference data
EXPLORE FLIGHT
WE'RE WITH YOU WHEN YOU FLY