

Some Context...





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.

TRADITIONAL DIGITIZED TRANSFORMED

ENTERTAINMENT

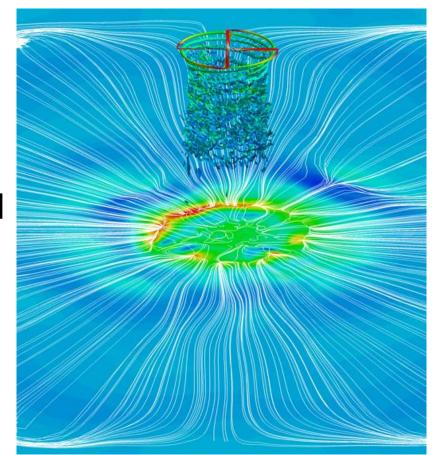
NAVIGATION

TRANSPORTATION



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...



- 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





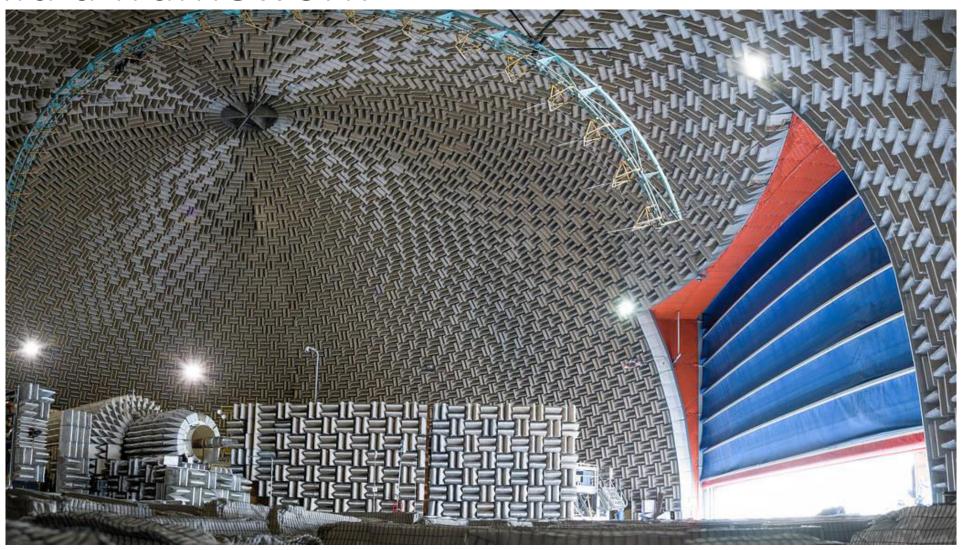


Reduce clutter and organize data





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









