

Engineering Systems and Employee Satisfaction

Ben Nimmergut

GLOBAL PRODUCT DATA
INTEROPERABILITY
S U M M I T
2021



Ben Nimmergut | Introduction

Global Product Data Interoperability Summit | 2021

- Vice President, Engineering Functions
- Boeing Commercial Airplanes



Introduction

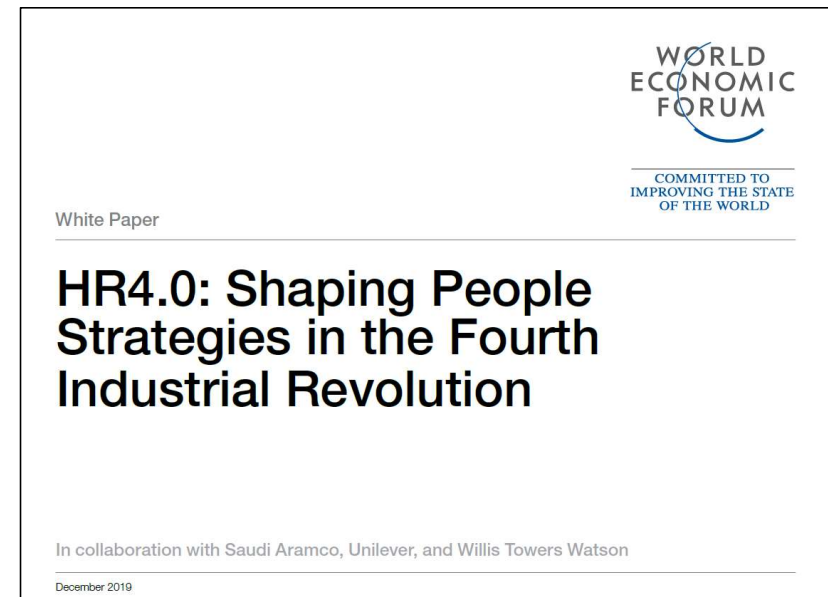
Global Product Data Interoperability Summit | 2021

- **What brings you Joy at work?**
- **What factors influence your experience at work?**
- **My belief is how:**
 - teams share data,
 - the efficiency and process of how teams input data into our business systems, and
 - the tools that are used -
- all influence and contribute to their experience & satisfaction

Introduction

Global Product Data Interoperability Summit | 2021

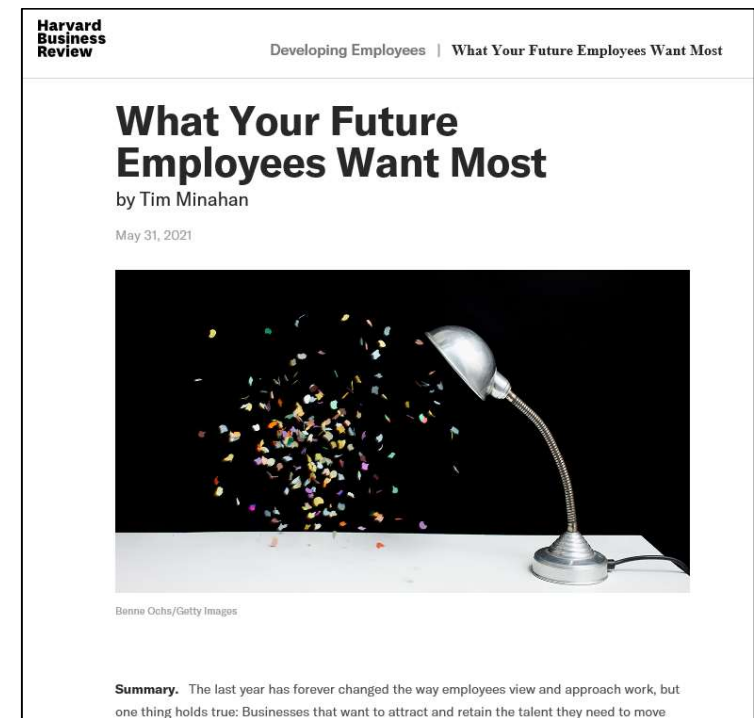
- Four critical dimensions of the employee experience are: 1) connection with colleagues and trust in leadership; 2) individual growth and reward opportunities; 3) meaningful work that aligns with employees' values and contributes to a higher purpose; and 4) **occurring in an environment that supports productivity and performance.**
- World Economic Forum, HR4.0: Shaping People Strategies in the Fourth Industrial Revolution
 - *Willis Towers Watson, Becoming Digital: Defining and Powering Digital Ambitions in the New Work Ecosystem - Pathways to digital enablement, 2019a.*



Introduction

Global Product Data Interoperability Summit | 2021

- Research Findings on the Future of Talent Management
 1. Employee overwhelmingly expect flexible options
 2. Employees want to work with a diverse team
 3. Employees want to re-imagine how productivity is measured
 - **86% of employees would prefer being measured on outcomes over output**
- *Tim Minahan, What Your Future Employees Want Most, Harvard Business Review, May 2021*



GLOBAL REACH



**\$58.2 Billion in
2020 revenues**



**Products and
services support
to customers in
more than 150
countries**



**Contracts with
more than 12,000
suppliers
globally**



**More than
140,000
employees in
more than 65
countries**

WHAT WE DO TODAY

Connect and protect people globally



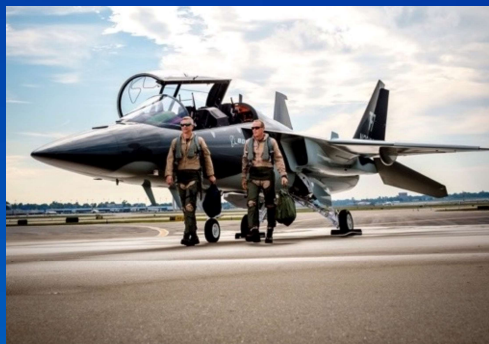
COMMERCIAL AIRPLANES

Boeing 7-series family of
airplanes leads the industry



DEFENSE, SPACE & SECURITY

One of the world's largest
defense contractors and a major
service provider to NASA



GLOBAL SERVICES

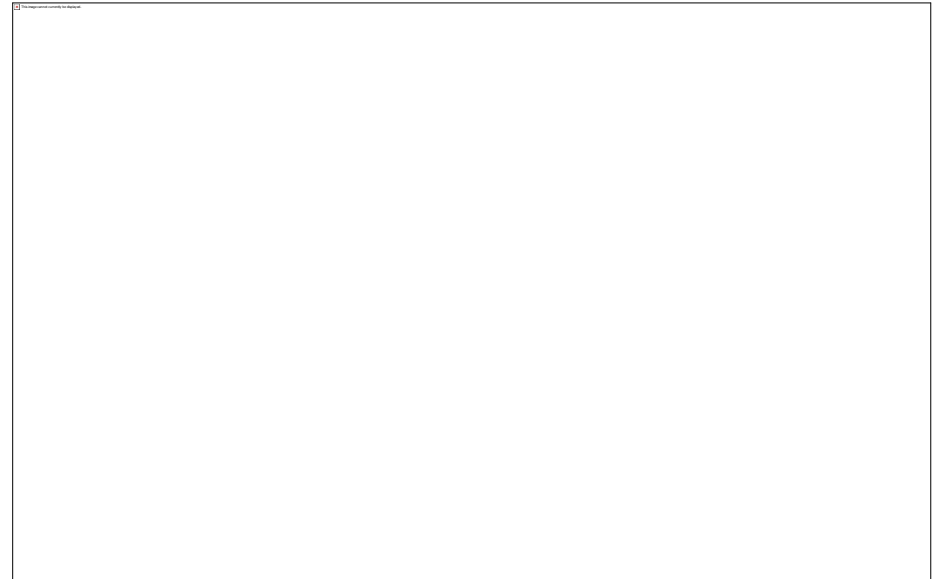
A dedicated services business
focused on the needs of
global commercial, defense
and space customers



T-7A Red Hawk Story

Global Product Data Interoperability Summit | 2021

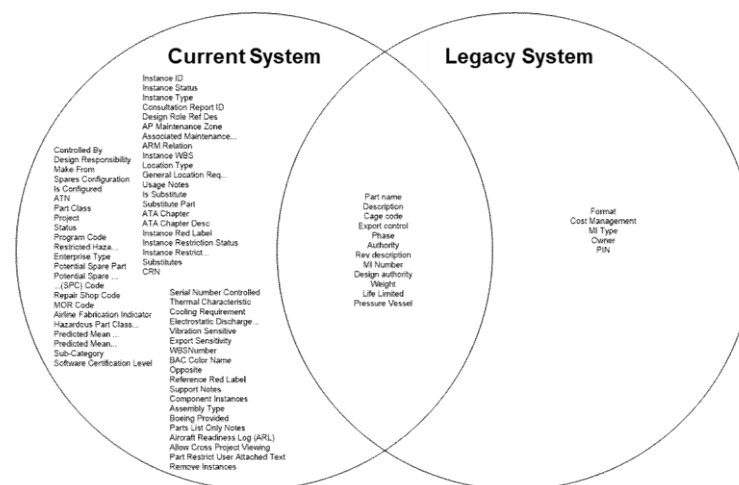
- **Digital Design & Manufacturing**
- **75% increase improvement in first-time engineering quality**
- **The forward and aft fuselage sections were joined in 95% less time than traditionally design sections**



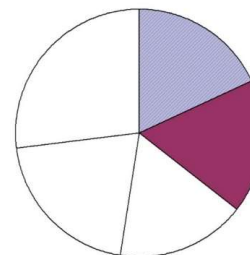
Data Creation

Global Product Data Interoperability Summit | 2021

- Our design work also involves inputting data & part attributes into our data management systems
- With new systems, with new integrated functionality, we have seen a part attribute increase of over 4X
- However, with a view towards efficiency, in some cases we have decreased the time needed to input data anywhere from 30-60%



Installation Process



Engineering Systems & Employee Satisfaction

Global Product Data Interoperability Summit | 2021

- Is there a future where our data management, systems, collaboration tools are a ***competitive advantage?***
- Is there a future where people want to do work not just for what they are designing or building, but for ***how they do their work?***
- Could the engineering systems, data entry processes, collaboration tools influence your ***experience in a positive way?***



