

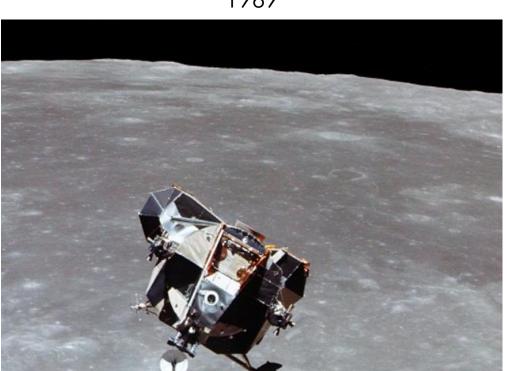
Moore's Law: The number of transistors on microchips doubles every two years Our World in Data Moore's law describes the empirical regularity that the number of transistors on integrated circuits doubles approximately every two years. This advancement is important for other aspects of technological progress in computing – such as processing speed or the price of computers. Transistor count 50.000.000.000 doubles every two years 10.000.000.000 5,000,000,000 1.000.000.000 10,000 500,000,000 5,000 100,000,000 50,000,000 1,000 10.000.000 5,000,000 Moore's Law, this phenomenon 1,000,000 suggests that computational progress 500,000 TI Explorer's 32-bit ARM700 will become significantly faster, ARM 3 smaller, and more efficient over time. 100,000 50,000 10,000 5,000 Intel 4004 1.000

Data source: Wikipedia (wikipedia.org/wiki/Transistor_count)

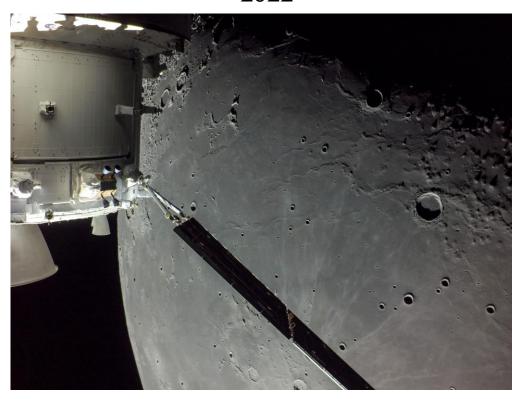
Year in which the microchip was first introduced

https://en.wikipedia.org/wiki/Moore%27s law

Apollo 11 1969



Artemis-I 2022



53 years of technological advancement

Can you tell the difference?

Hubble 2008

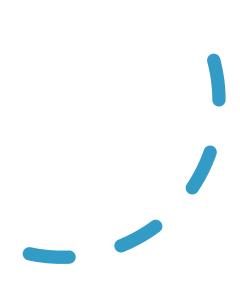


14 years of technological advancement

Can you tell the difference?

Webb 2022





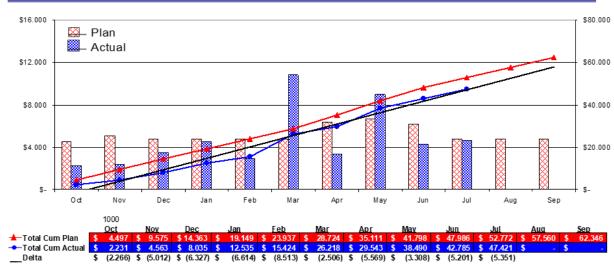


FY08 Cost Status Actuals Thru July 08 – Procurement Only

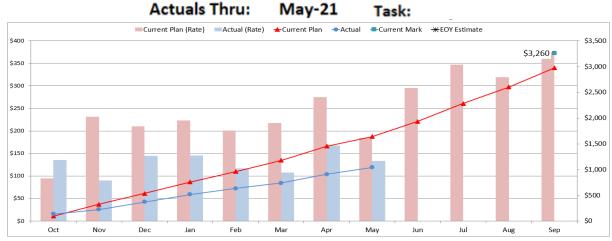
Cost Performance Charts 2008

Cost Performance Charts

2021



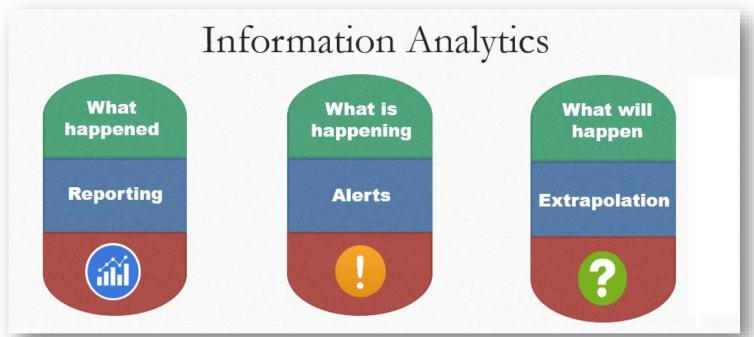
FY21 Cost Status



Total Feb Carryout Baseline Plan 94 326 536 760 961 1,179 1,454 1,638 1,934 2,281 2,601 2,976 283 **Current Plan** 326 536 1,179 1,454 1,638 1,934 2,281 2,601 135 225 370 515 739 1,040 (100)(439)

13 years in between

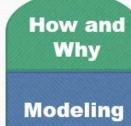
Can you tell the difference?





Data-Driven Decision making = Value













Source:

Analytics at Work: Smarter Decisions, Better Results

by Thomas H. Davenport, Jeanne G. Harris, Robert Morison



Advisory: Power BI Pro Now Available to All NASA End Users



As of Friday, November 18, Power BI Pro is now available to all NASA end users at no cost!



Distribution Date:	
Teo	
Subject	Advisory: Power Bt Pro New Available to All NASA End Users
What's Happening	As of Friday, November 18, Power Bi Pro is now available to all RASA end special no cost! You can request Power BI Pro via the NASA Access Management System (NAMS) by completing the Fower BI Pro License (ntitlement request. Requests will be automatically approved, as long as you have a NASA mulbox.
Background:	Power BI Fro is a suite of trustness intelligence (BI) software services, apps, and connectors that let you easily connect your data sources, visualize, and share. Power BI can turn your unrelated sources of data into coherent, visually immersive, and interactive insights. With Power BI Peu, you can discover select is important and share that with anyone or everyone you want.

National Aeronautics and Space Administration

Office of the Administrator Mary W. Jackson NASA Headquarters Washington, DC 20546-0001



TO: Officials-in-Charge of Headquarters Offices

Directors, NASA Centers

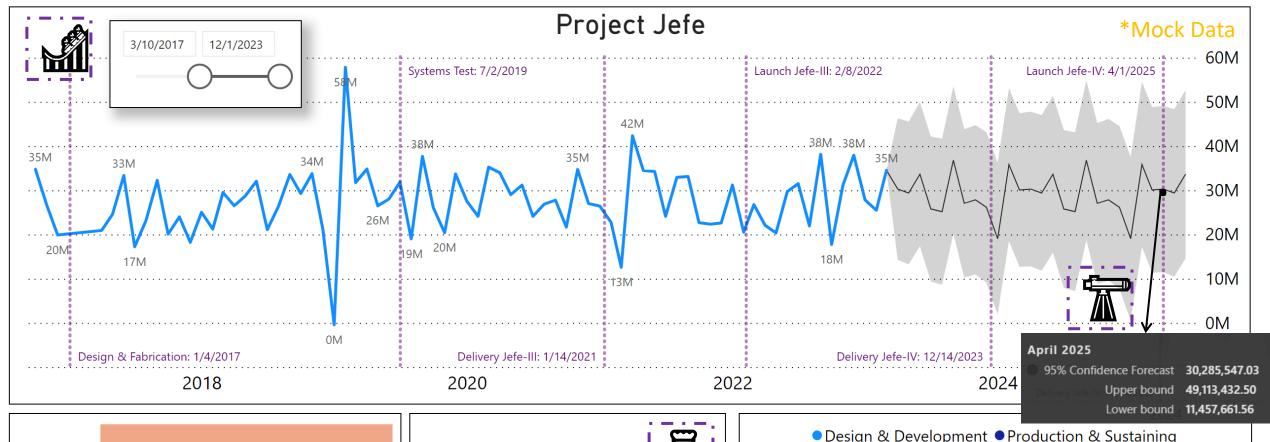
NASA Acquisition Workforce

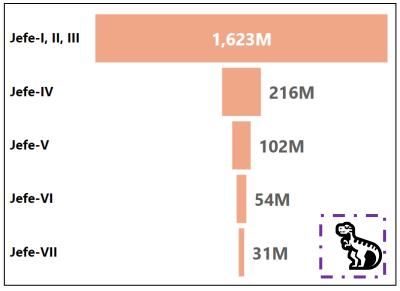
FROM: Deputy Administrator and Chief Acquisition Officer

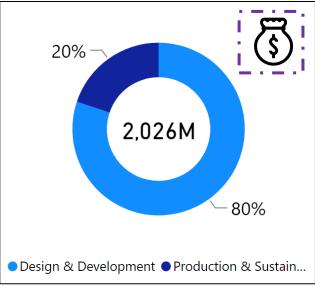
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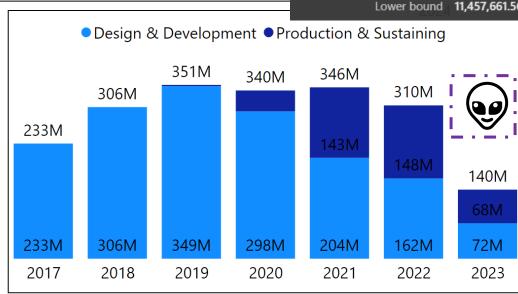
SUBJECT: NASA Chief Acquisition Officer's Intent

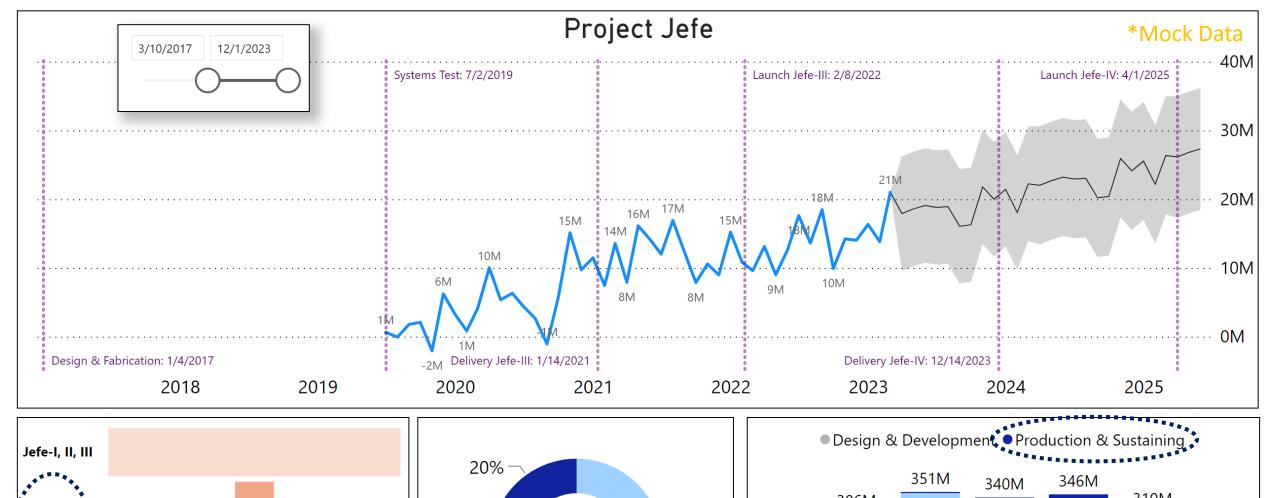
• Empowering the Project Management Workforce: We will develop and foster communities of practice within the procurement, project management, and PP&C disciplines. These communities of practice will develop and share best practices, lessons learned, data access, and tool implementation techniques. We will also invest in software and tools so that practitioners from disparate parts of the Agency can easily access shared repositories of project information, handbooks and guidance documents, and data. These workforce networks must foster an understanding of NASA's policies, best practices, and planning tools and must aid in easing and streamlining our acquisition workforce's execution and oversight of hardware and services.

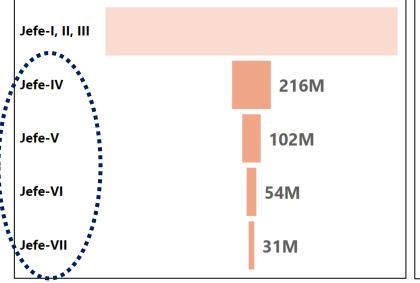


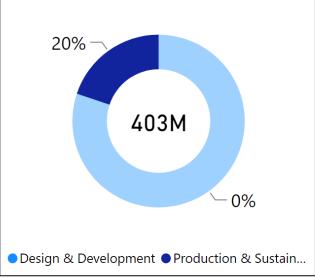


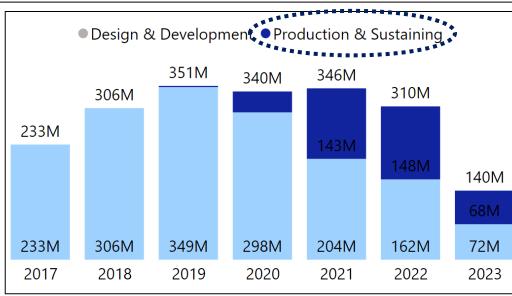












Get Insights Feature





Top Benefits

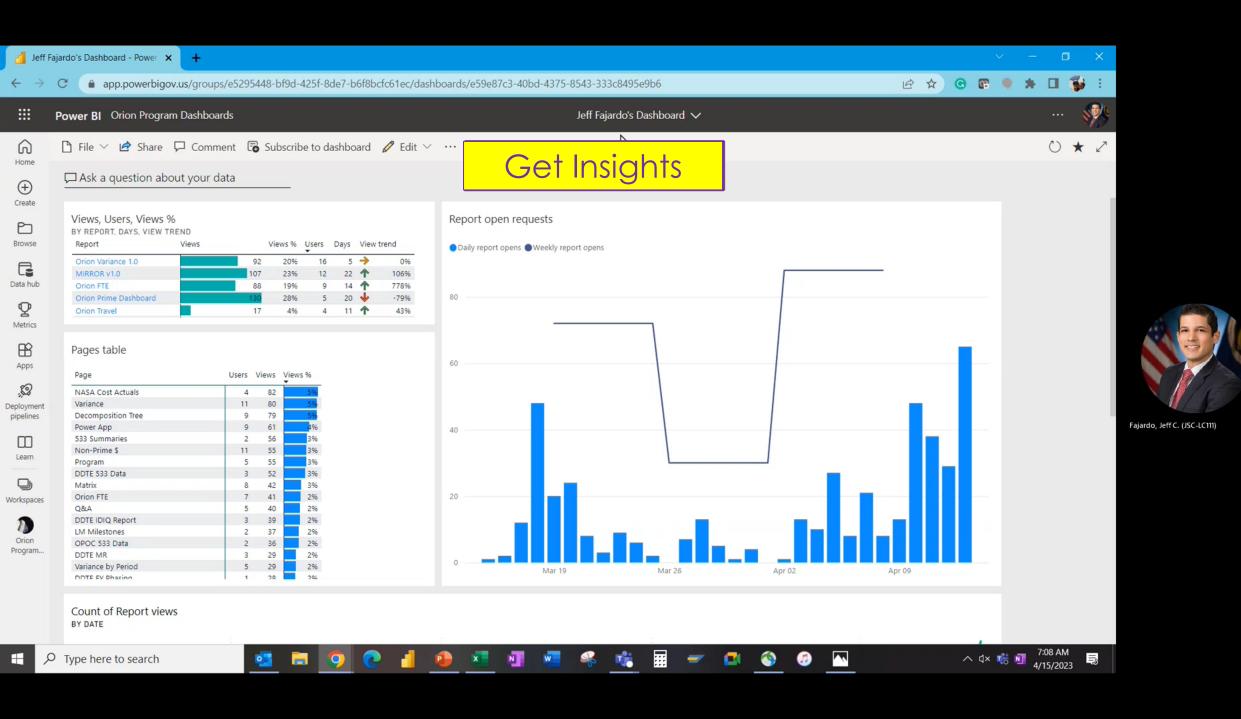
Automation leading to time saving:

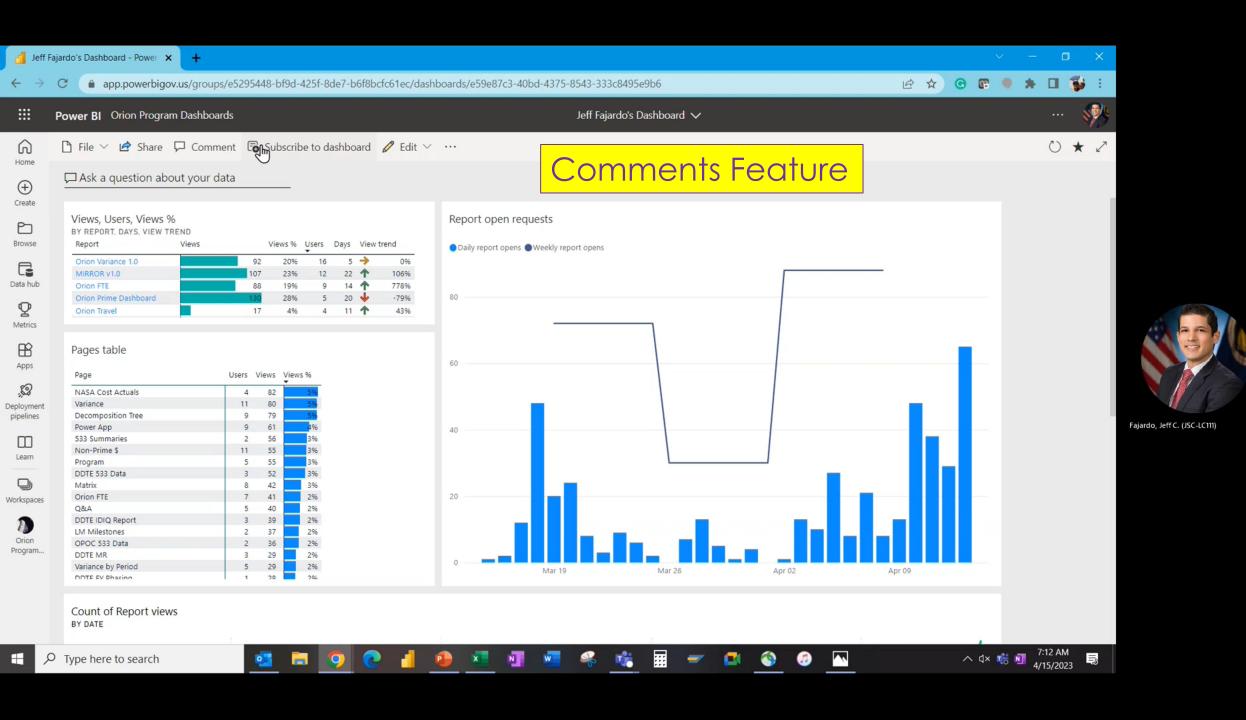
- Monthly Cost Performance Chart Production Time Savings:
 - 9 CAMs x 5 hours per month = 45 hours per month, 540 hours per year
 - From 45 hours per month to 1 min per month
 - From 540 hours per year to 12 mins per year

Enhanced and Faster Data Analysis for Deeper Insights

- Advanced Analytics at the click of a button
- Artificial Intelligence Visuals: ask a question about your data

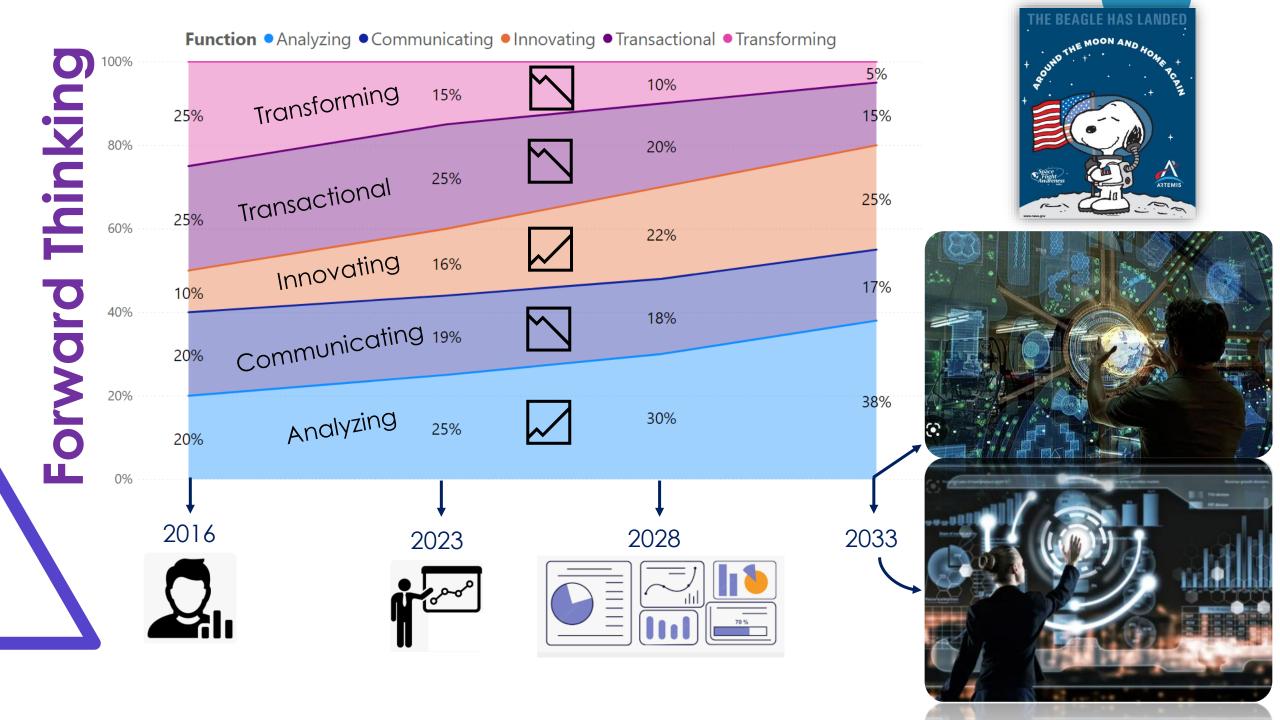






Primary Functions of an Analyst (in my experience)

- Transforming taking raw data and turning it into a finished product.
- Transactional conducting activities in systems.
- Analyzing discovering and interpreting meaningful information and insights from a data set.
- Communicating email, IM, phone, meetings, and presentations.
- Innovating creating something new that adds value to the organization. Includes learning.



- 1. Stimulate Innovation specifically to reduce time spent in transforming and transactional functions.
- 2. Fuel Analytical Value Creation specifically in Information and Insight Analytics.
 - What are the "knobs" that can be turned?
 - What algorithms will aid optimal data-driven decision making?
- 3. Combine Cost, Schedule, and associated risks into all encompassing accurate Scenario-based Predictor.
- 4. Machine Learning. "Hindcasting".
- 5. Human learning. Natural Language Analysis/Coding. What's the next big thing?