

Innovation and the Drive of Human Productivity

All Things M365

May 15, 2024

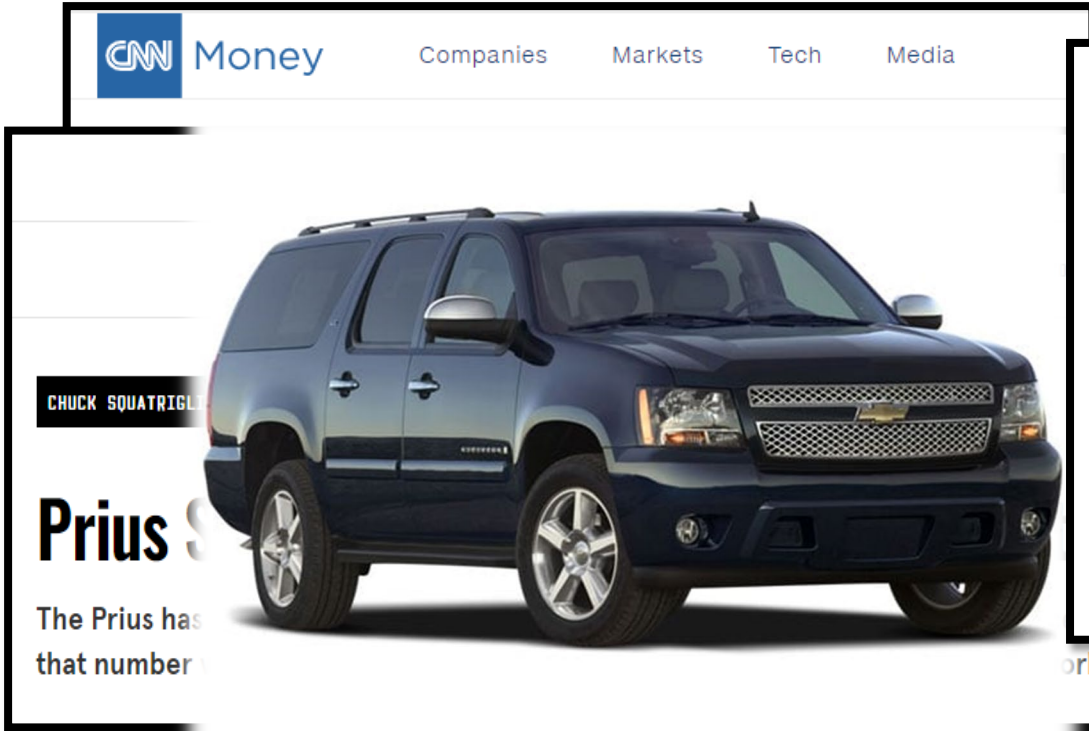
Keith Briggs

Enterprise Architecture & Innovation Director

Innovation Itself Becomes the Catalyst

Influence of Need

Need Drives Change



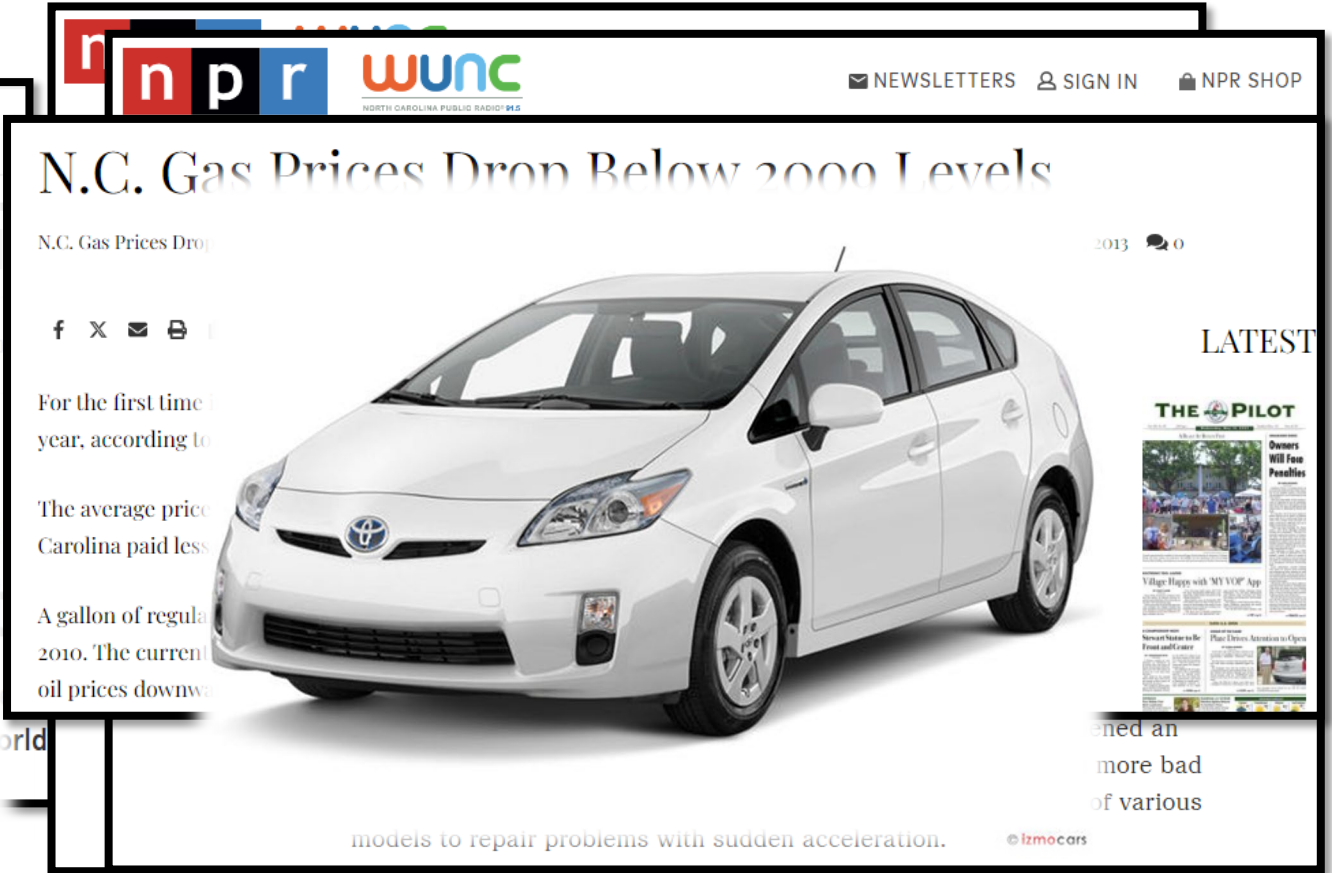
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N.C. Gas Prices Drop Below 2000 Levels

N.C. Gas Prices Drop

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For the first time in a year, according to

The average price in Carolina paid less

A gallon of regular 2010. The current oil prices downw

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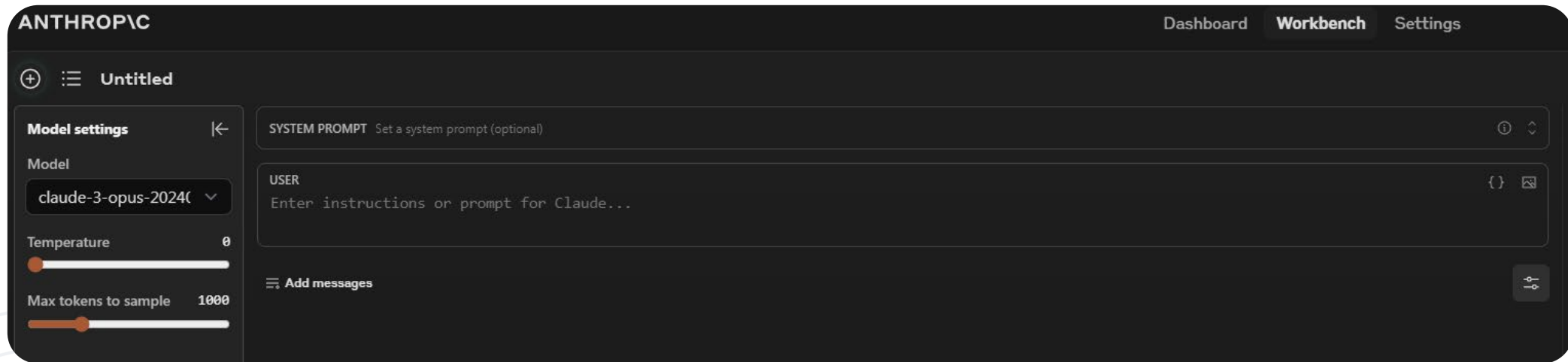
models to repair problems with sudden acceleration.

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2010

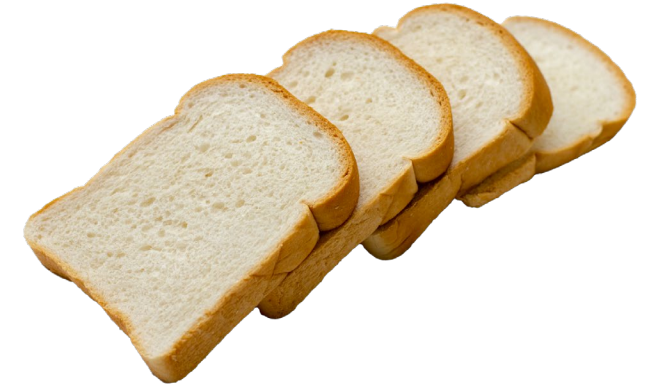
Innovation and Human Productivity

Advancements in technology, processes, and mindset propel us towards greater efficiency, effectiveness, and success. This conversation delves into the ways in which innovation inspires creativity, fosters collaboration, and empowers individuals and organizations to achieve more, pushing our boundaries of what is achievable. Through our dynamic interplay of ingenuity and adaptation, innovation becomes the catalyst that fuels our relentless pursuit of productivity, ultimately shaping a future where possibilities are limitless, and achievements are boundless – Prompt Generated through AI



Greatest Thing Since Sliced Bread

Epitome of Innovation? After 14,000 years, why?



Revolutionized Convenience - Revolutionized consumption

Standardization of Quality - Introduced a level of consistency and quality control

Increased Hygiene - Introduced hygienic packaging that protected the bread from contamination and prolonged its shelf life. This innovation addressed concerns about food safety and hygiene, particularly in urban areas where bread was often handled by multiple people before reaching consumers (Challenges foster new innovations)

Widespread Adoption – First introduced in 1928, sliced bread became so common-place in American households that during a 1943 wartime conservation effort, sliced bread was banned creating a nationwide crisis. The ban, so unpopular, was quickly lifted after just two months

Cultural Impact - Sliced bread became ingrained in popular culture as a symbol of modernity and progress. Its widespread acceptance and adoption reflected society's embrace of technological advancements and innovations that improve everyday life

Influence on Other Industries -The success of sliced bread served as a model for innovation in other industries, inspiring manufacturers to develop new products that prioritize convenience and consumer satisfaction

Overall, sliced bread is considered one of the most innovative ideas because it transformed a staple food item into a convenient, standardized product that revolutionized the way people consumed bread

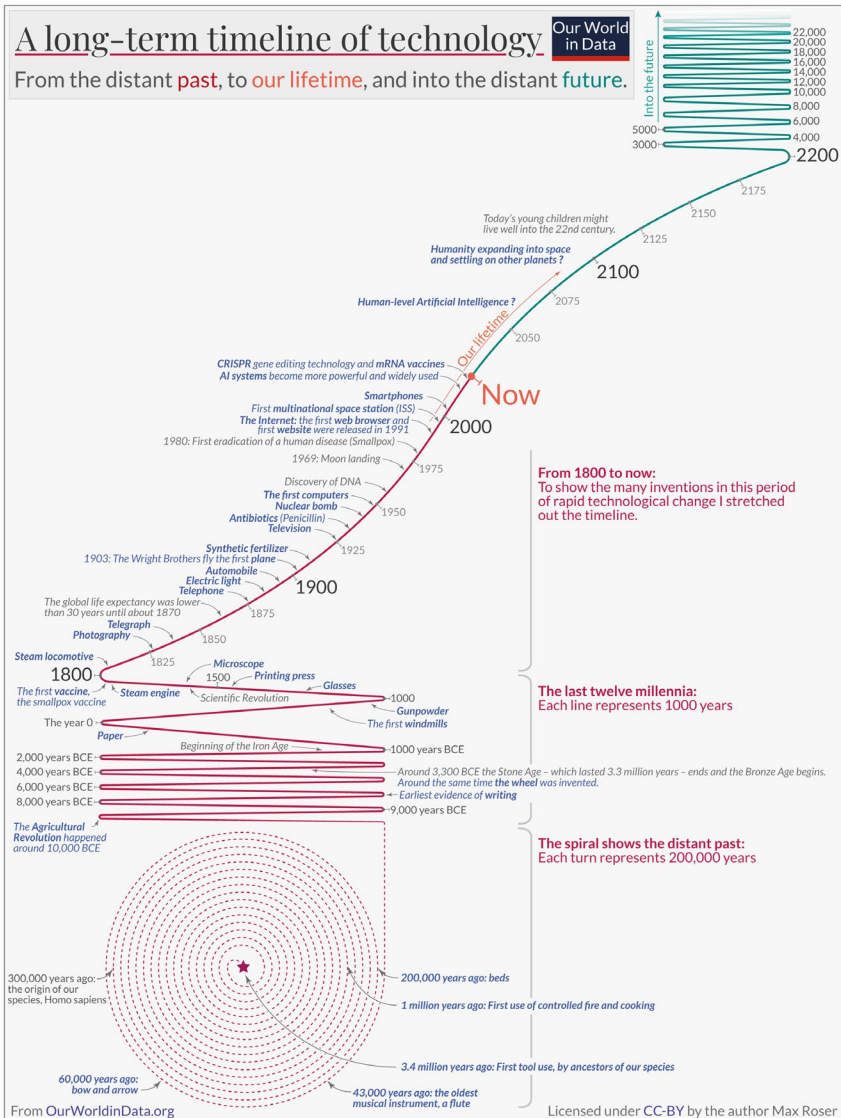
Influence of Innovation

Driving Demand



Advancements in Technology

The Engine of Progress



Technology advancement refers to the **development and improvement** of tools, machines, and systems that enable humans to **accomplish tasks more efficiently** or effectively

Innovation is considered a **driving force** behind progress and growth

Innovation can **drive further innovation** by sparking competition, encouraging continuous improvement, and the development of new products and services

200 Years ago – Steam engine

1,000 Years ago - Gunpowder

10K Years ago – Agriculture

200K Years ago – Creation of a “bed”

1 Million Years ago – Controlled use of fire

3.4 Million Years ago – First known Tool use by humanoid species

Cultivating a Progressive Mindset

Fostering Innovation Culture

Culture can play a significant role in innovation by **influencing the behavior** of individuals within an organization. A culture that **values change, experimentation, and risk-taking** can **foster innovation** and **increase productivity**, while a culture that resists change and prefers to maintain the status quo is less likely to do so

Known Innovative Workplace Cultures

Apple – Strive for perfection

Pixar – Culture of listening, receiving feedback to grow (Creativity Inc.)

Microsoft – Fosters creativity through continuous learning

P&G – Creativity is a daily operation

Tesla – Constantly seek supreme ideas



Empowering Individuals and Organizations

The Human Element of Innovation

Employees should feel **comfortable sharing** their own ideas, and they should also be **willing to consider** the ideas of others

Openness is essential for fostering an environment where innovation can flourish, and continuous learning takes place

Employees can support innovation is by **encouraging collaboration**, and be **willing to collaborate**

Leaders **empower employees**, and **become champions** of workplace ideas

Fostering of a **safe and supportive environment** that encourages change, taking risks, and sharing of ideas freely

Kaizen (Toyota Production System) The basic notion behind kaizen is that a continuous stream of hands-on improvements translates into substantial productivity and quality gains over time – The Toyota Way



Pushing Boundaries

Innovation as the Catalyst for Growth

Each innovation can lead to subsequent innovations through a variety of interconnected mechanisms and pathways

Inspiration and Iteration - Innovations often inspire others to build upon existing ideas. When one innovation demonstrates a new possibility or approach, it can inspire others to iterate on that idea, leading to further refinements or entirely new innovations

Feedback Loop of Improvement - Innovations generate feedback from users, stakeholders, and the market, which can lead to further improvements or entirely new iterations. This feedback loop helps drive continuous innovation by identifying areas for enhancement or addressing unmet needs

Serendipity and Unexpected Discoveries - Sometimes, innovations arise unexpectedly through serendipitous discoveries or unintended consequences. These unexpected breakthroughs can open up new avenues for exploration and innovation

Cultural Shifts - Innovations can catalyze cultural shifts, influencing values, norms, and behaviors. These shifts may create new demands or opportunities for innovation in response to evolving needs and preferences.

Overall, innovations have a ripple effect, stimulating further innovation through inspiration, adaptation, collaboration, feedback, and the emergence of new opportunities and challenges. This dynamic process fuels ongoing progress and drives continuous advancement across the organization

Shaping a Limitless Future

The Endless Possibilities of Workplace Innovation

Business and Process Automation

Business and process automation is an effective way to streamline manual processes through innovative, technological solutions

The solutions work to augment human labor to reduce the amount of manual (and tedious) work employees must complete each day, giving valuable time back

As new technologies emerges, greater opportunities to innovate takes place

We can stay on top of opportunities (and even get ahead) by learning more about workplace solutions even if you are not currently part of a function or program that typically uses them. As tools and solutions hit the market, consider how these solutions can help improve your job function

Areas with endless possible innovation –

- Workflow Automation
- Artificial Intelligence
- Robotic Process Automation
- Chatbot and Virtual Assistants
- Collaboration Platforms
- Intelligent Automation (combination of AI and RPA)



What is Artificial Intelligence

Have You Heard Of ChatGPT?

AI is not new; however, Generative AI is a “transformative” event.

The power of innovation often emerges from a combination of **awareness** and **adoption** of new ideas, fueled by human interaction and the influential networks through personal engagement.

Think of this event as having a **much bigger** impact than the modern mobile phone. (iPhone 2007)

ChatGPT

- Two months after release, **100,000,000** monthly **active** users
- Fastest adopted WebApp in history
- Direct access to generative AI capabilities to the masses



Influence of Artificial Intelligence

Driving Innovation in Other Industries

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OpenAI funding moonshot demand 'insatiable'

BY DYLAN SLOAN
April 22, 2024 at 3:20 PM EDT

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AI's Massive Power Consumption Demands Innovative Energy Solutions

By [Haley Zaremba](#) - Jan 22, 2024, 4:00 PM CST

- ▶ **Artificial Intelligence, including systems like GPT-3, consumes massive amounts of electricity, comparable to entire nations, and is expected to use 3.5% of global electricity by 2030.**
- ▶ **OpenAI's CEO Sam Altman highlights the urgent need for energy breakthroughs, particularly in carbon-free energy production like fusion, to meet AI's growing power requirements.**
- ▶ **While AI's energy consumption poses environmental concerns, it also plays a crucial role in renewable energy forecasting, smart grids, and other decarbonization efforts.**

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Haley Zaremba is a writer and journalist based in Mexico City. She has extensive experience writing and editing environmental features, travel pieces, local news in the...
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