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**Unlock Hyperproductivity with
Bard and Google AI**

+

Revisiting Google Cloud Next 23'

September 26, 2023



Welcome!

Over the next 40 minutes, we will discuss:

- How to get the most out of Bard and Gen AI
- Integrating Gen AI with your Google Solutions
- Recap Google Cloud Next 23'
- Have a couple Q&A sessions with our presenter

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Google Workspace

Google Cloud



With the expertise, agility, and commitment you can only get from a partner that is solely 100% Google-focused, Promevo is with you every step of the way, enabling your organization to have the best Google life experience possible.

We **Sell**, We **Service**, and We **Build** Google Products



Google Cloud

Google Workspace



- **14-Year Google Partnership**
- **Dedicated** Customer Success Team and **Google-Certified** Technical Support Teams
- Ability to drive **license and GCP consumption discounts**
- Custom IT Solutions across **Application, Cloud, and Data Services**
- **Centralized Billing** for all your Google Products and Services
- Proprietary **Google Workspace management platform**

Partnering to Drive Innovation



Meet Our Presenter



John Pettit

CTO/CIO

Promevo

<https://www.linkedin.com/in/johnpettit1/>

Unlock Hyperproductivity with Bard & Google AI

Presented by: **John Pettit, CTO/ CIO**
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The Inflection Point



Inflection Points

Agriculture - Freed up time for other activities, such as trade and innovation. This led to a significant increase in productivity.

Industrial Revolution - This increased productivity by allowing humans to produce more goods and services in a shorter amount of time.

Computers - Computers have made it possible to automate many tasks, which has freed up time for humans to focus on more creative and strategic work.

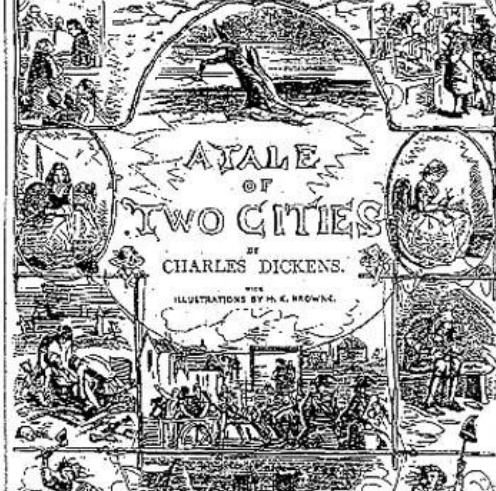
Internet - The internet has made it possible to access information and communicate with others more easily, which has made it easier for people to collaborate and share ideas.

Large Language Models & Generative AI

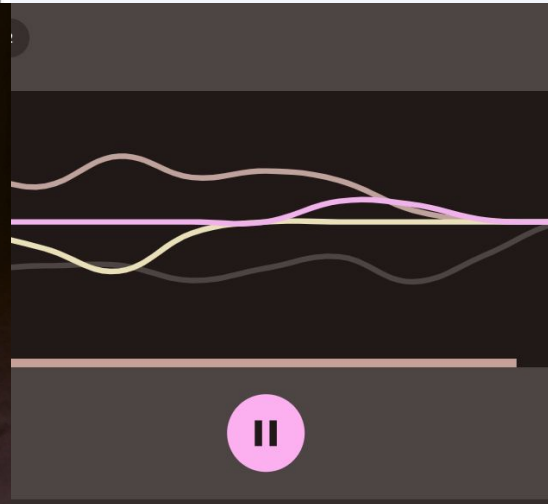


GenAI Capabilities

- Generative AI is a type of artificial intelligence that can create new content, such as **text**, **images**, **music**, **videos**, and **code**.
- Generative AI is powered by large language models (LLMs), which are trained on massive datasets of images, text and code.
- LLMs can learn to generate new content that is similar to the content they were trained on.



```
hat sends data from a Google Sheet selected Range to VertexAI with a prompt to  
View  
ript code that sends data from a Google Sheet selected Range to VertexAI with a prompt to  
VertexAI(sheet, range, prompt) {  
  let range of cells from the spreadsheet.  
  let range = sheet.getRange(range).getValues();  
  let request = {  
    data: {  
      values: range, // object from the selected range of cells.  
    },  
    prompt: {  
      text: 'Explain the data.',  
      textFormat: 'PLAINTEXT',  
    },  
  };  
  let response = await vertexAI.predict(request);  
  return response.data[0].text;  
}
```



How to Get the Most Out of Bard / GenAI



How to Begin

Generate Text

Use Bard to generate ideas for blog posts, articles, or other creative content

Write emails or letters.

LLMs do great job of composing content in any style or tone when prompted with specific contextual clues or samples.

Don't be afraid to iterate.

Summarize Information

Use Bard to summarize long articles or documents.

With the added benefit of being able to iterate on questions about the content or the summaries.

Speeds up research and analysis.

Simplifies finding tasks and follow ups in long emails.

Translate between languages.

Automate Tasks

Use Bard to automate tasks by giving it instructions that you would normally give to a human assistant.

Generate reports & summarize delimited data sets.

Create a automation script in any language like Appscript to speed up repetitive tasks or integrate data.

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The New Speed of Productivity



What does the data show?

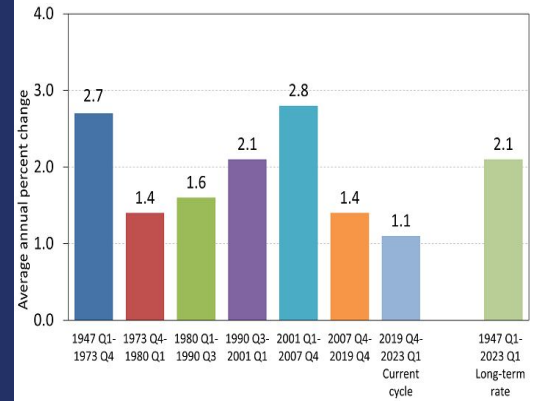
One study, conducted by researchers at MIT, found that ChatGPT can **increase productivity by 37%** for tasks like writing cover letters, delicate emails, and cost-benefit analyses. The study also found that ChatGPT can improve the **quality of work by 18%**.

<https://www.forbes.com/sites/richardnieva/2023/07/13/chatgpt-mit-study-productivity/?sh=5e0a7c1f59bf>

Another study, conducted by researchers at Stanford University, found that access to AI assistance **increased agent productivity by 14%**, with the biggest impact on less experienced workers.

<https://hai.stanford.edu/news/will-generative-ai-make-you-more-productive-work-yes-only-if-youre-not-already-great-your-job>

Productivity change in the nonfarm business sector, 1947 Q1 - 2023 Q1



Source: U.S. Bureau of Labor Statistics

Last updated: 06/01/2023



Integrating GenAI



Google Solutions

Vertex AI

The Vertex AI API allows you to interact with Google's generative AI models, such as Imagen and PaLM.

You can use the API to generate text, translate languages, write different kinds of creative content, and answer your questions in an informative way.

Duet AI for GCP

[Duet AI for Google Cloud](#) offers code recommendations in real time, suggests full function and code blocks, and identifies vulnerabilities and errors in the code—while suggesting fixes.

Assistance can be accessed via a chat interface, Cloud Shell Editor, or Cloud Code IDE extensions for VSCode and JetBrains IDEs.

Duet AI for Google Workspace

[Duet AI for Google Workspace](#) is a new AI-powered feature that is currently in beta. It is designed to help users write more efficiently and effectively in Google Docs, Sheets, and Slides.

Duet for Workspace uses a variety of AI techniques to help users with their writing, including:

- Automatic text suggestions
- Grammar correction
- Style suggestions
- Research assistance



Questions?

POLL TIME



Revisiting Google Cloud Next 23'

Next 23'

Key Takeaways from Google Cloud Next 23'

- Gen AI was a big focus with many new offerings across Vertex AI and Duet AI.
 - Duet AI is generally available for Google Workspace and in preview for Google Cloud, Looker, and Big Query Studio
- Google is implementing new features for data analytics, databases, and machine learning.
- These announcements make it easier for businesses to build and deploy generative AI applications, analyze data, and run machine learning models.

Collaboration Cloud: Google Workspace

- Duet AI for Google Workspace is now available with a free trial, offering assistance in presentations, video calls, and email writing.
- Google Meet's Duet AI enhances video quality, captures real-time notes, and offers a "take notes for me" feature for better meeting productivity.
- Gmail and Google Chat also integrate Duet AI for quicker, more personalized replies and improved team collaboration.



Data Analytics and BI

- Duet AI is in preview across various data analytics products, including Looker and BigQuery Studio.
- The Looker semantic layer is now open to Tableau in preview and to Microsoft Power BI in general availability.
- Looker Studio users gain native access to Alteryx Designer Cloud, enhanced cloud connectivity, and integration with Alteryx, Sisu Data to facilitate data preparation and analysis.
- BigLake provides cross-cloud materialized views and joins in BigQuery Omni, while Spark integration on Google Distributed Cloud supports on-premises data residency requirements.

Generative AI

- Duet for Workspace, Vertex AI Search and Conversation are generally available.
- Duet AI in Google Cloud is in preview.
- Vertex AI Model Garden adds new models like Meta's Llama 2 and Code Llama.
- PaLM 2 foundation model now supports 38 languages.
- Codey chat and code generation model offers up to 25% quality improvement.
- Imagen image generation model brings improved visual appeal, image editing, captioning, and visual question answering.

Machine Learning

- New model inference capabilities added to BigQuery.
- BigQuery introduces vector and semantic search for model tuning.
- Access thousands of datasets from various providers directly within BigQuery. Additionally, Cloud Spanner Data Boost allows analysis of Spanner data with minimal impact on transactional workloads, while Memorystore for Redis Cluster is available in preview.



Databases

- AlloyDB AI is in preview via downloadable AlloyDB Omni.
- AlloyDB Omni transitions from technology preview to public preview, available across various platforms.
- Duet AI aids in automating Oracle to PostgreSQL code conversion in Database Migration Service, while Cloud Spanner utilizes AI for generating natural language data code. Oracle support in Database Migration Service with Cloud SQL for PostgreSQL as the target is now generally available

Security Cloud

- Duet AI in Mandiant Threat Intelligence preview summarizes threat tactics used against organizations.
- Chronicle Security Operations' Duet AI in preview simplifies threat detection and investigation.
- Security Command Center's Duet AI offers instant security analysis, while Mandiant Hunt for Chronicle provides ongoing threat hunting.
- Security Command Center introduces agentless vulnerability scanning, customizable posture findings, and enhanced Sensitive Data Protection, with Confidential Computing on 4th Gen Intel Xeon Scalable CPUs in private preview.



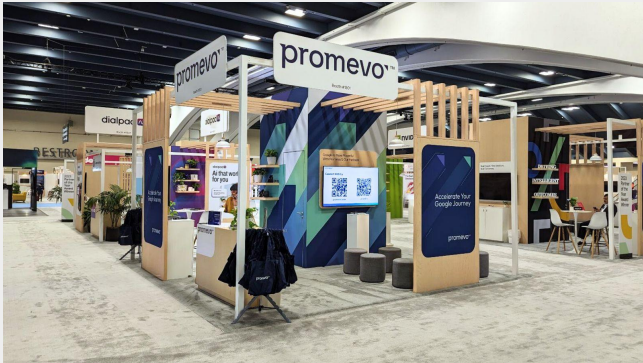
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Read our recap of Google Cloud Next 2023 [here](#).

Upcoming Webinars



BrainStorm

How to Get the Most Out of Your Workspace Tools

Oct. 10th

[Register Here](#)

Google Workspace

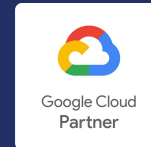


Duet AI

Supercharge your Productivity with Duet AI for Google Workspace

Oct. 17th

[Register Here](#)



Google Cloud
Building Scalable Applications With Serverless Architecture

Oct. 30th

[Register Here](#)



Questions?

