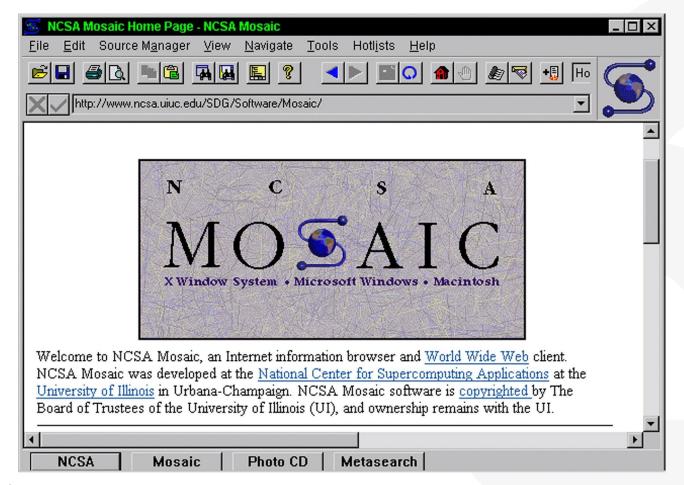


# Lessons learned from Al in enterprise

Rajen Sheth, Vice President of Product, Cloud Al & ML

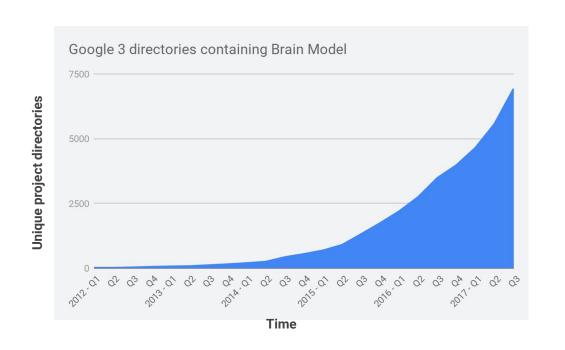


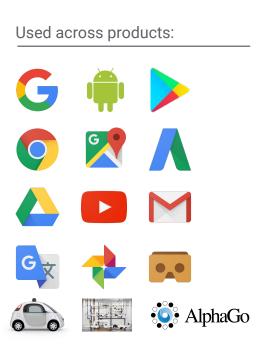
Google Cloud

# Over the next decade every business will be transformed through Al



## Al has transformed nearly every Google product







## Domains with the most practical advancement

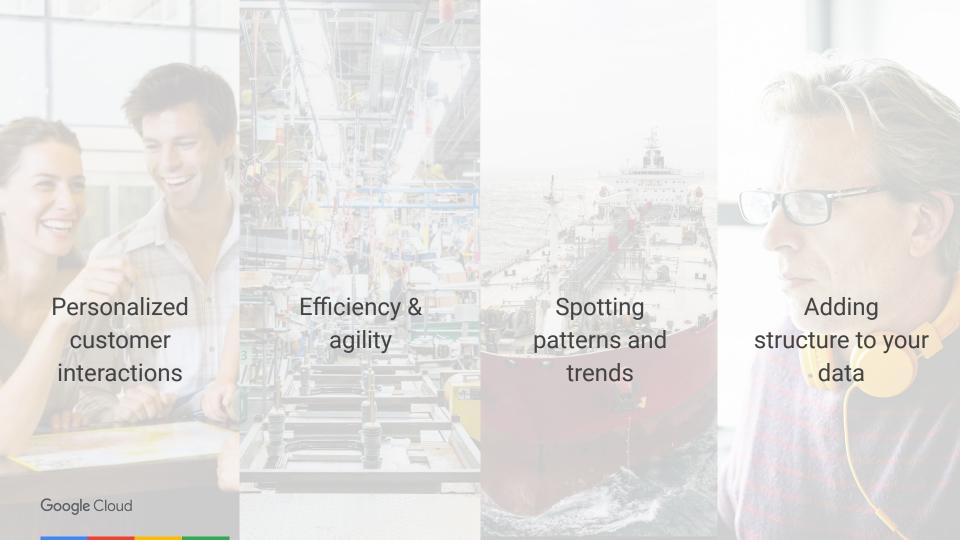
Vision

Conversation

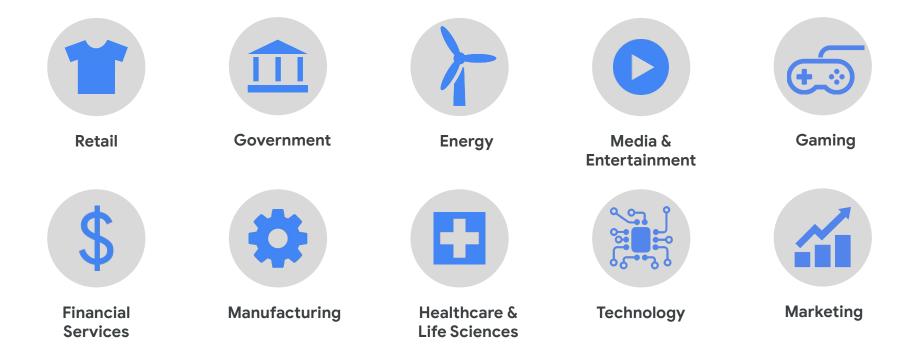
Language

Structured Data





# Major benefit to many industries





## Businesses are still nascent in their Al journey

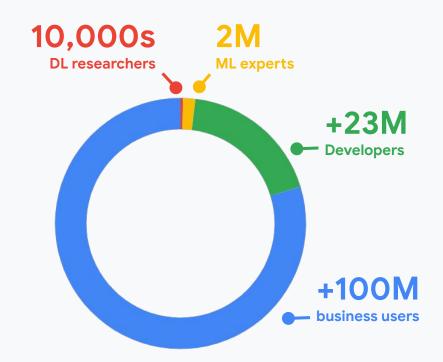
I know I should use AI, but why?

I know why I need AI, but how?

I know why and how, but what tools?

# Who can actually use Al today?

Very few people can create custom ML models today





# Some other major challenges with Al

Trust

Can I trust AI, and what are the implications?

Deployment and integration

Is it mission critical, or is it just cool?

Can I trust AI, and what are the implications?

Data is scarce or hard to use

**Data** 



## Solving the talent and data gap: AutoML

Controller: proposes ML models

Train & evaluate models

20K

times

69%

97%

54%

Iterate to find the

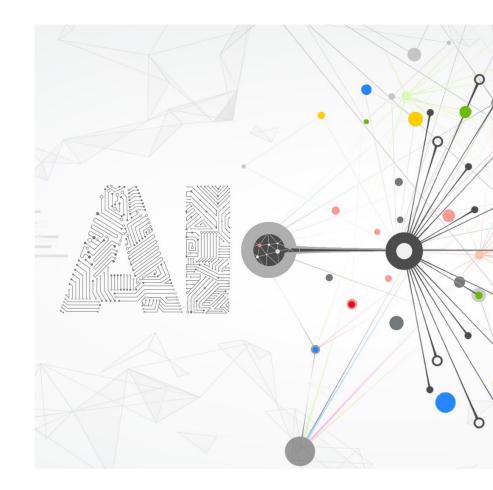
most accurate model Solving the talent gap: Teach the world

# kaggle

# **Changing workforce**

Bias in the data

Impact of the use of Al





# **Google Al Principles**

#### Al should:

- 1 be socially beneficial
- avoid creating or reinforcing unfair bias
- 3 be built and tested for safety
- 4 be accountable to people
- 5 incorporate privacy design principles
- uphold high standards of scientific excellence
- be made available for uses that accord with these principles

# Applications we will not pursue:

- 1 likely to cause overall harm
- 2 principal purpose to direct injury
- surveillance violating internationally accepted norms
- purpose contravenes international law and human rights



# Lessons learned in building Al for businesses



# Start with your key business objectives



# Sometimes the simplest uses are most powerful



**Predictive search** 

# **Bloomberg**



# Focus on the user experience, not the technology



**Google Photos** 



# Al open up new user interaction models



**Google Assistant** 





# Al is a team sport













# Think big, and get there a piece at a time

