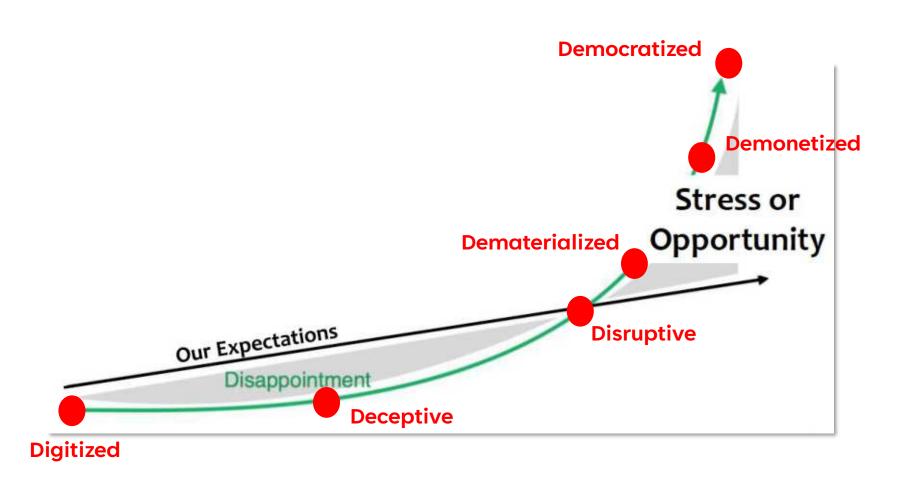






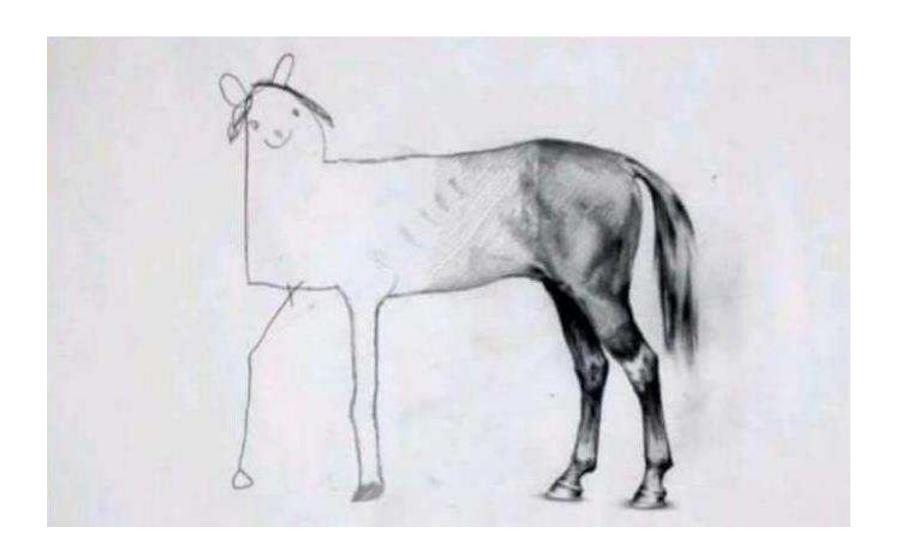
"You cant control the wind, but you can harness the power of the wind to steer your boat in the right direction"

Understanding exponentials & the doubling effect

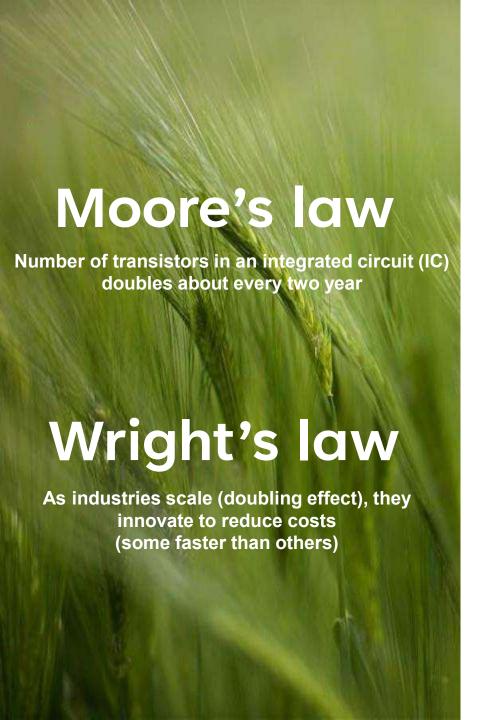


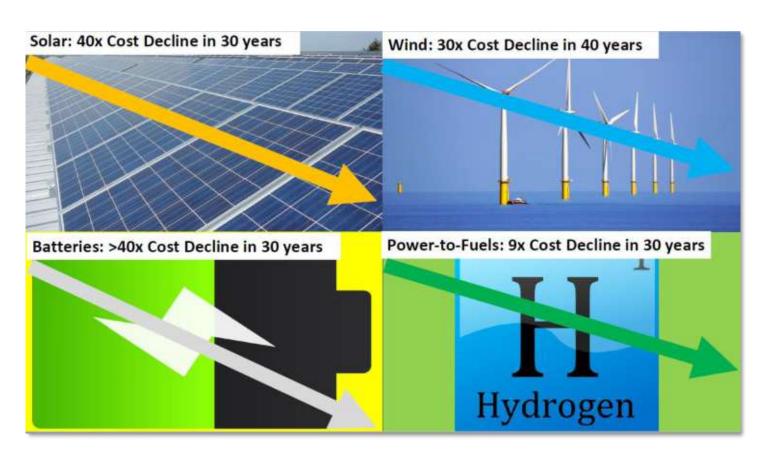
6 D'S
of Exponential
framework

Things may change faster than we realize

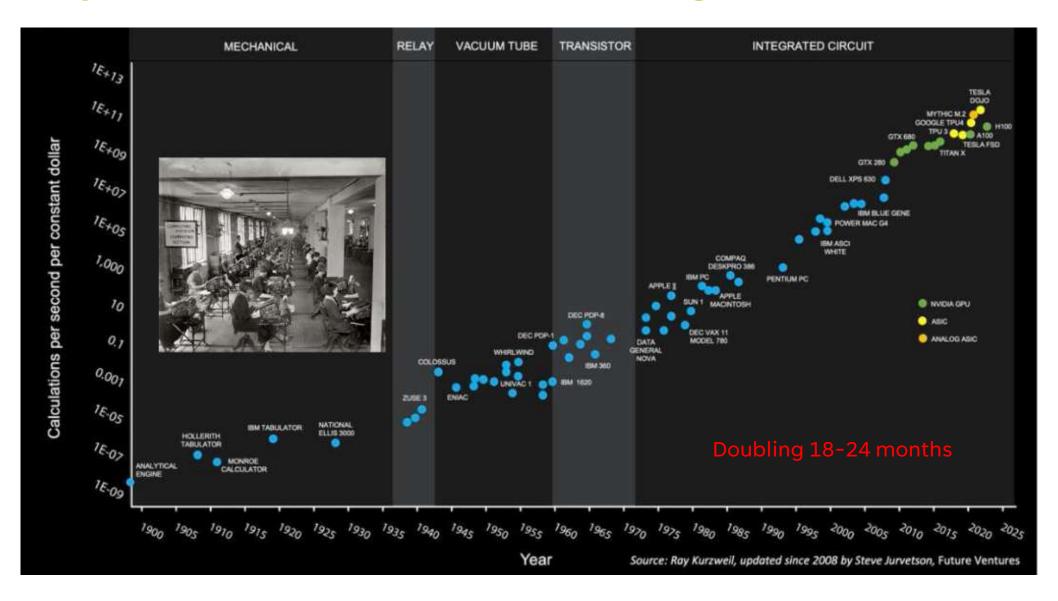




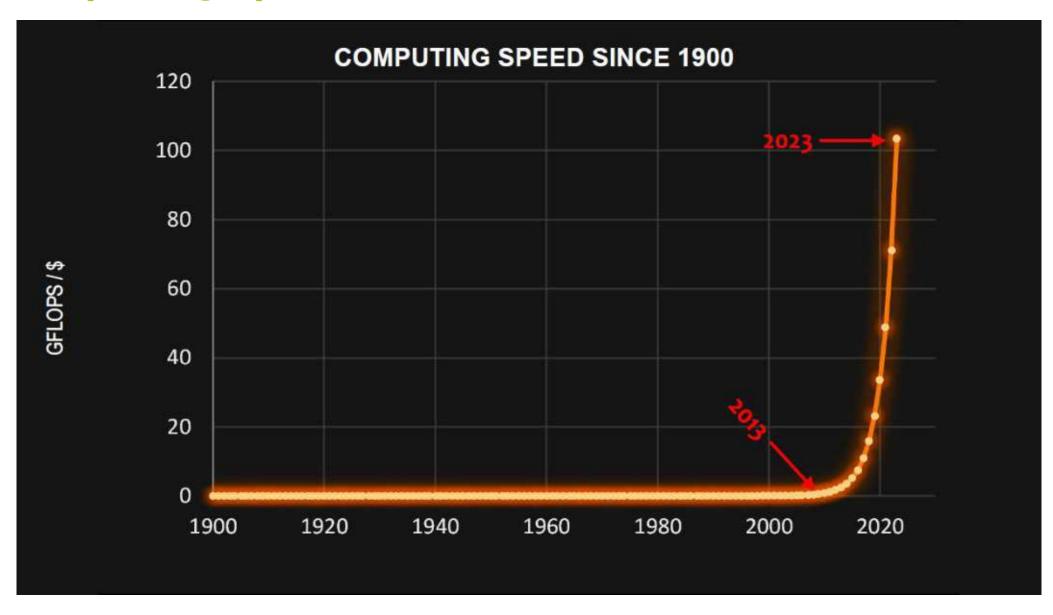




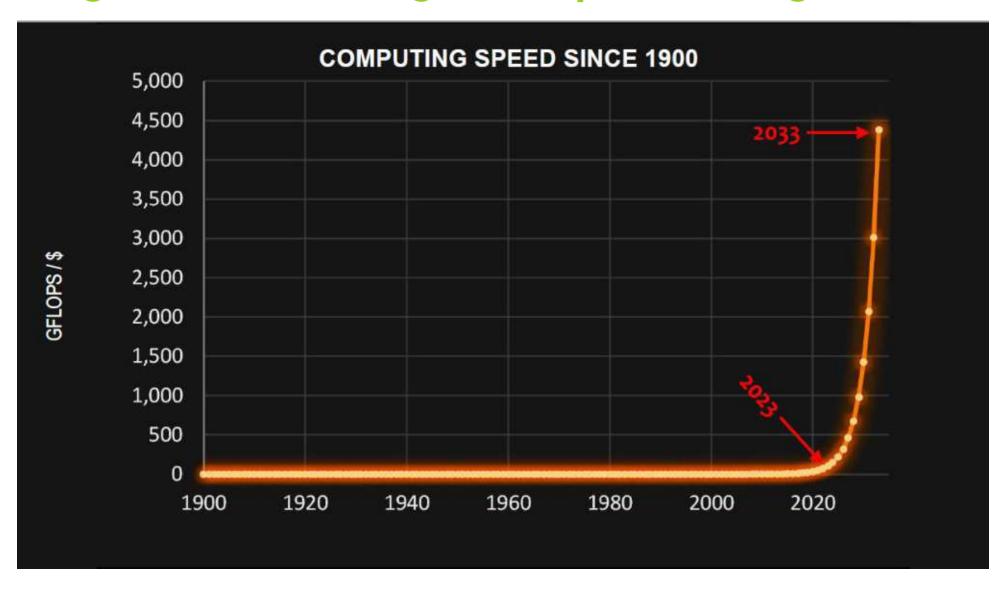
125 yeas of Moore's Law and Wright's Law



Computing speed until now...



Future growth following the exponential growth curve



Are Quantum Computers really that fast?



Google Sycamore (Quantum Computer)



IBM Summit (Traditional Supercomputer)

Are Quantum Computers really that fa

1 577 000 000 times faster!



Google Sycamore (Quantum Computer)

10 000 years

IBM Summit (Traditional Supercomputer)

This is still experimental.. Right? 2021: Ready for production

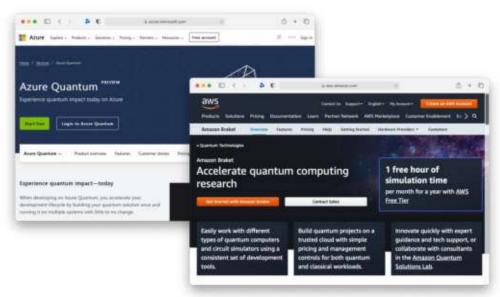
2018: Prototype



Operational temperature: Absolute Zero



Operational temperature: Room-temperature



Quantum-as-a-Service





It's fundamentally simple

Derived Works

License Must Be Technology-Neutral

License Must Not Be Specific to a Product

Free Redistribution

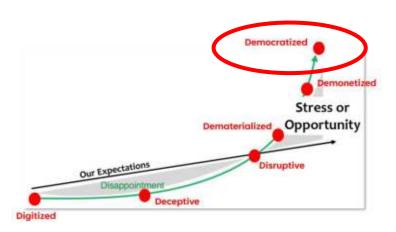
No Discrimination Against Persons or Groups

Source Code

No Discrimination Against Fields of Endeavor

Integrity of The Author's Source Code

License Must Not Restrict Other Software



Let's look back at the code and communities builds on GitHub 2020 Your Al pair programmer

Based data collection range of October 2019 – September 2020

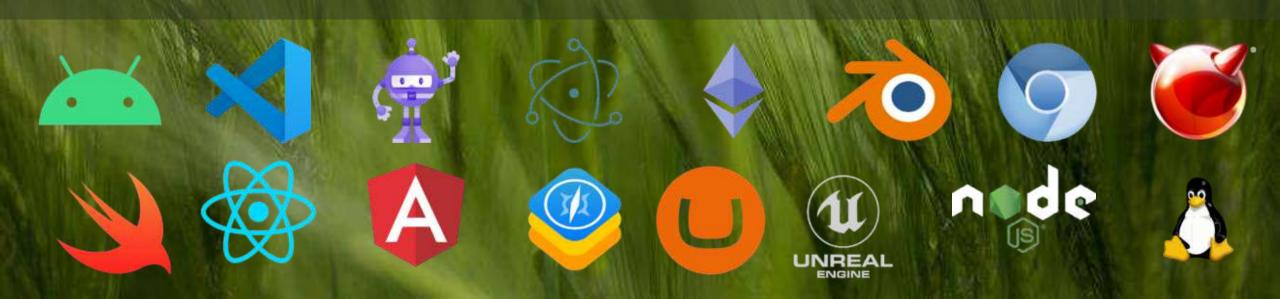




⊞ GitHub Copilot



EVERYONE DOES IT







Openness

We believe in Open Source, Open Standards, and Open APIs. Our solutions provide more choices and flexibility by using such open technologies.



Co-innovation

No single company can keep pace with the power and speed of communities that openly co-innovate. We believe that sharing creates value.

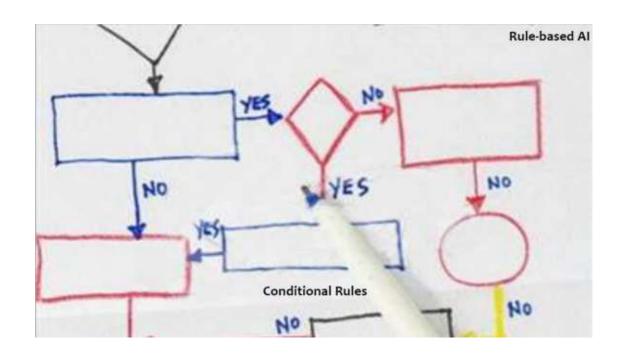


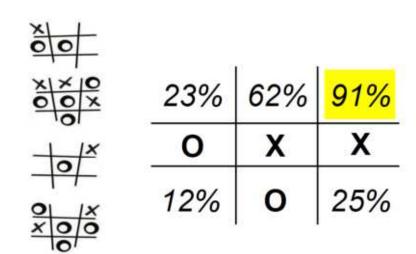
Trust

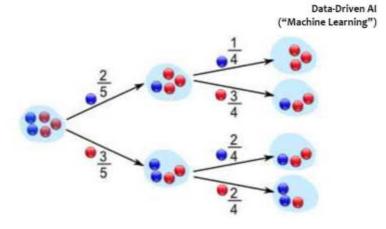
Open Source software requires qualities such as security, data protection, and accessibility to be able to be used in enterprise scenarios.



Rule based AI vs Data driven AI "machine learning"

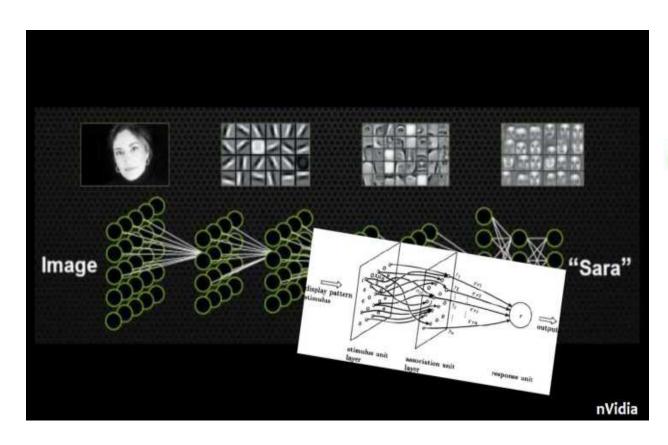


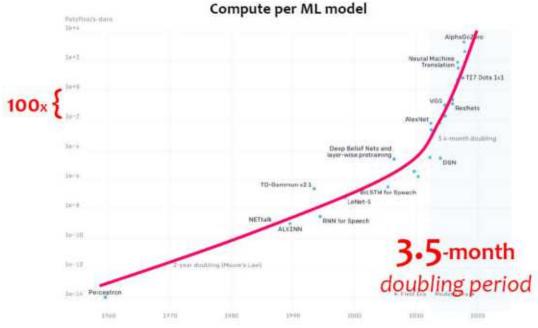




Conditional Probabilities

Deep learning and doubling period





Impact of Cloud





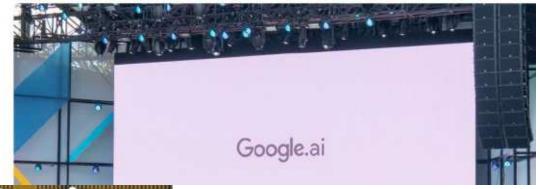
It's happening: Google's AI is building more AIs

We've reached Al inception, but Google CEO Sundar Pichai still wants to "go deeper."

Sci-Tech



by Katie Collins May 17, 2017 10:52 AM PDT



This Al Learned the Design of a Million Algorithms to Help Build New Als Faster

By Jason Dorrier - Jan 31, 2022 • 10,607



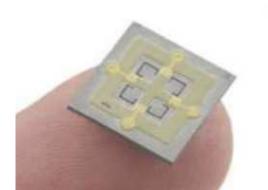


Data collection

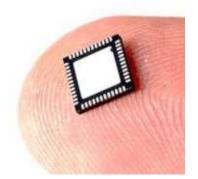


Data collection





Sensors produce **FUEL**



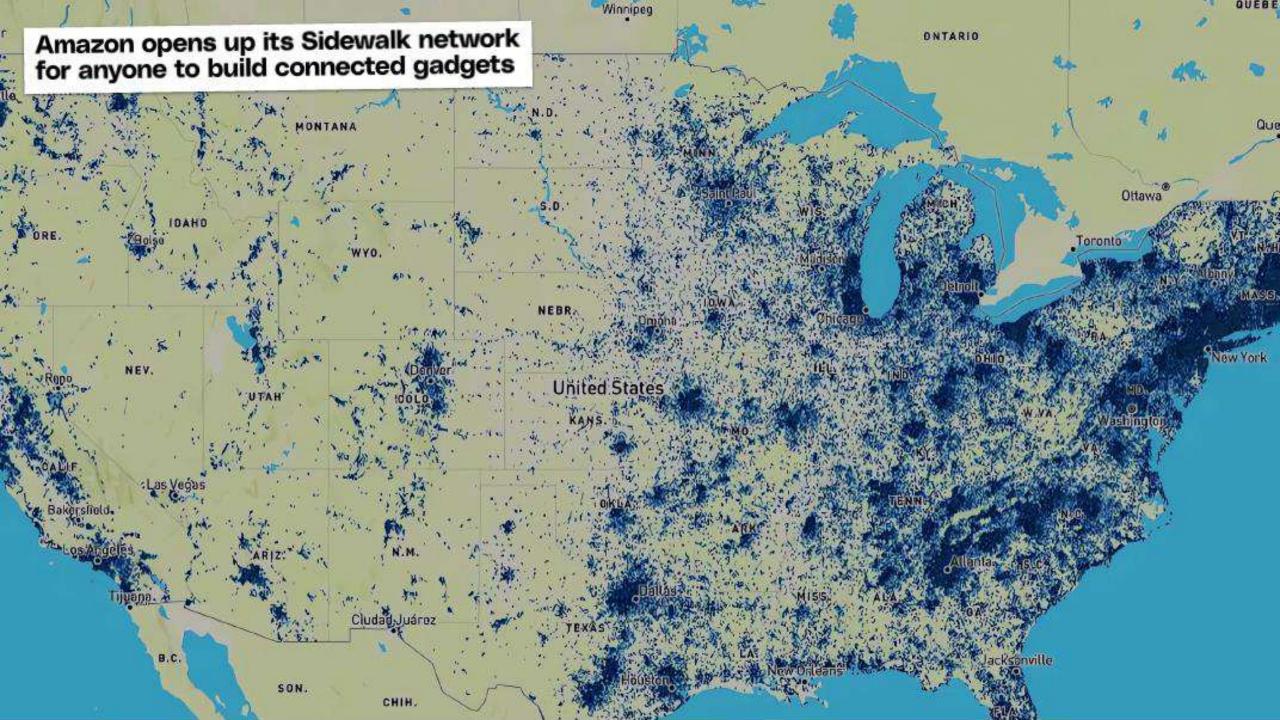
facebook



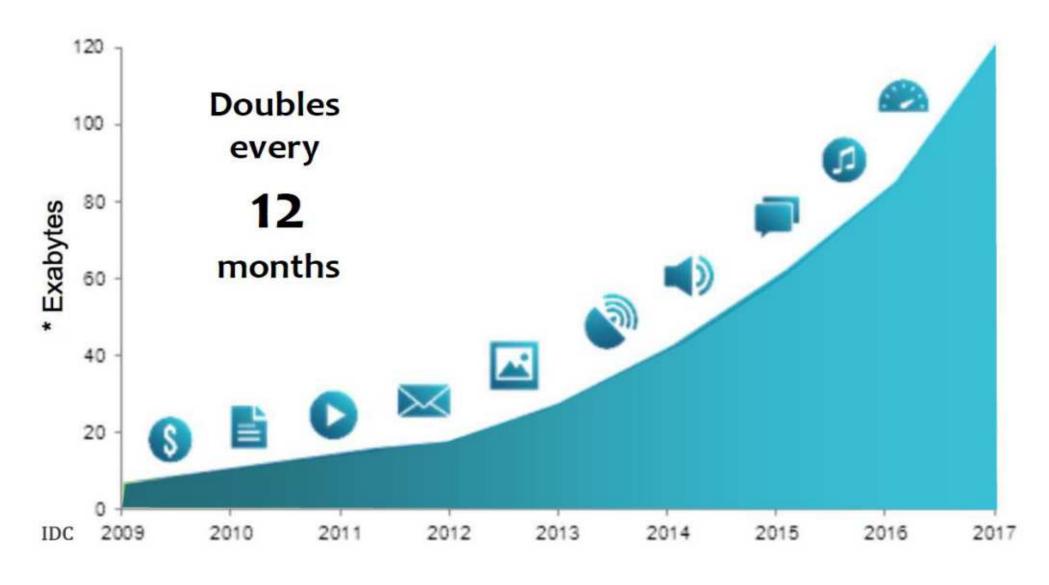
Tesla is collecting insane amount of data from its Full Self-Driving test fleet







Data is also goring exponentially!

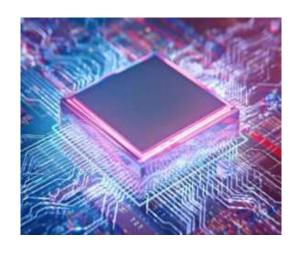






"You cant control the wind, but you can harness the power of the wind to steer your boat in the right direction"

KEY TRENDS WHICH WILL CONTINUE DO EXPONENTIALLY GROW



Compute power is exponentially growing and reducing in cost



Code is not a differentiator



Data is growing exponentially and is the key asset and fuel for AI



Deep learning is exponentially growing and driven by both compute capacity and data growth

MAKE SURE THAT YOUR SAIL IS READY FOR HARNESSING THE POWER OF THE WIND



PROACTIVE CHANGE MENTALITY



FASTER
TECHNOLOGY
ADAPTATION



SOURCE PLATFORMS



DATA IS KEY AND DATA IS THE TRUE ASSET

