

THE UNIVERSITY OF HONG KONG

Professor Amy Shuen

AI Artificial Intelligence and Global Dynamic Capabilities

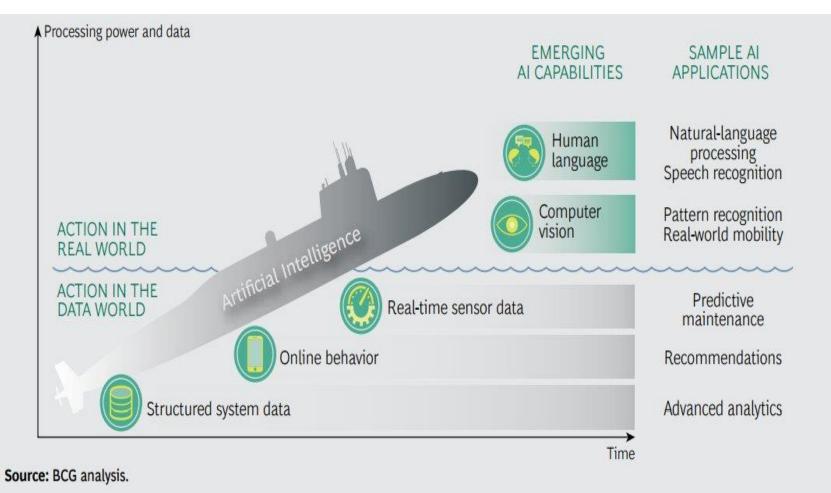
The new Al rules for success Innovation in Al Business Models Global Dynamic Capabilities Framework

What's Next

The New AI Rules for Success



The AI Breakthroughs: Language and Vision

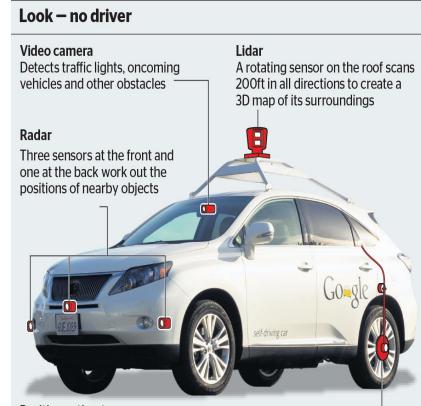


Alibaba: Chinese photoestimating AI handles 12 claims in 6 seconds

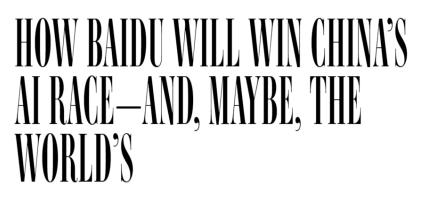
By John Huetter on June 28, 2017 Business Practices | Education | Insurance | International | Market Trends | Technology



Self-Driving Autonomous Cars

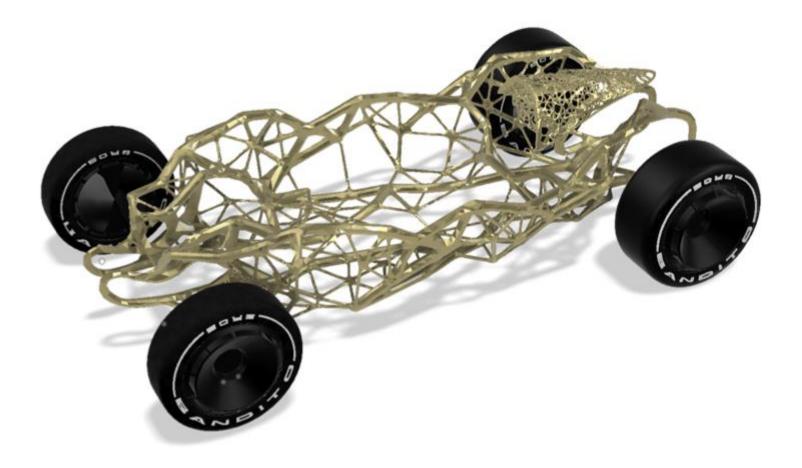


Position estimator A sensor on the left rear wheel measures the car's movements — so that its position can be mapped with accuracy





Al-generated Formula One Car



Children Health Advice 24/7

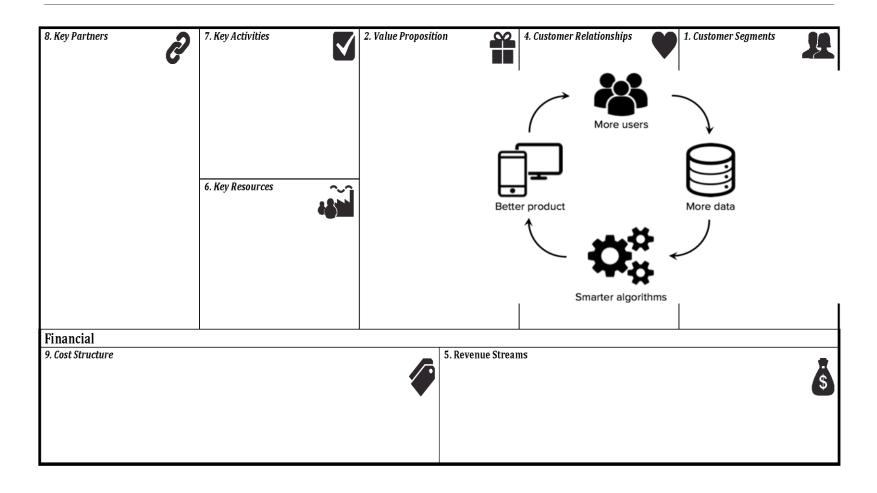


The Integrated AI Business Model

The Business Model Canvas

Designed For:	Designed By:	On:
		Iteration

Business Plan in a Sentence: (Company Name) is developing (definition) to help (target audience) (solve a problem).



Three Types of Games

- Positive Sum: economic, financial or social rewards are <u>created</u> as a result of playing the game.
- Zero Sum: the total rewards available from playing the game are independent of the process of play.
- Negative Sum: economic, financial or social rewards are <u>destroyed</u> as a result of playing the game.

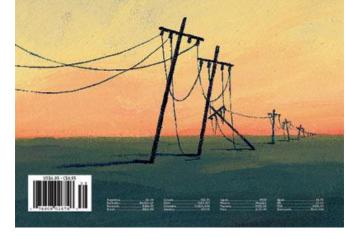




INSIDE THIS ISSUE: TECHNOLOGY QUARTERLY

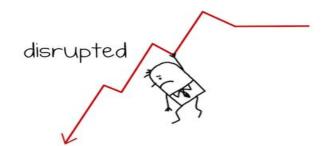


How the internet killed the phone business



Disruption





Zero Sum Game

Winners

Losers



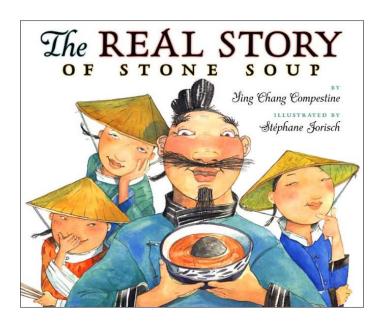


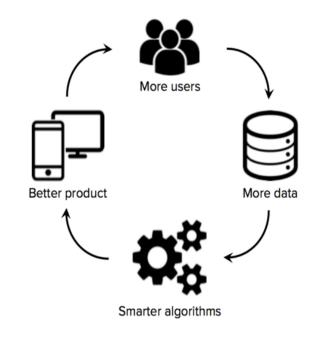
A billion thanks. 25 times over.

The App Store has reached 25 billion downloads. Thanks for getting us there.



The AI-enabled Global Digital Stone Soup—millions of co-creators...

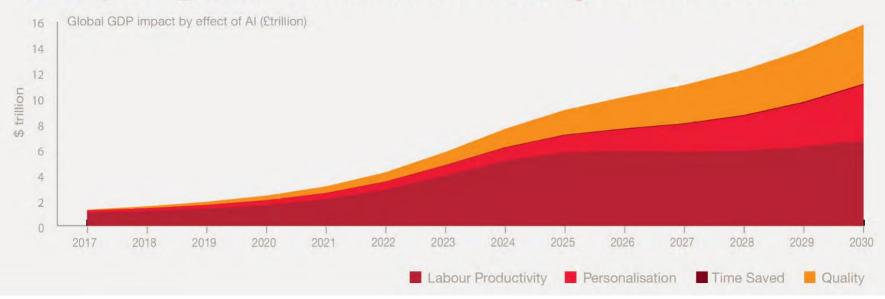




 Positive Sum: economic, financial or social rewards are <u>created</u> as a result of playing the game.

AI will add \$16 T to the global economy in better products, services & efficiency

Sizing the prize – Where will the value gains come from?



China – a perfect storm for innovation



Mass market of early adopters

Chinese consumers are impatient and sophisticated mobile gadget enthusiasts always ready to try out new tech

700+ million mobile internet users

Huge China market spans super-rich elite consumers and third-world mass market, mirrors global market

China market size and diversity challenge its highly competitive tech companies to adapt, creating world-class competition

Chinese consumers are relatively forgiving of mistakes, allowing firms to experiment and learn, accelerating innovation



"I have a hard time thinking of an industry we cannot transform with AI."

Andrew Ng, former chief scientist at Baidu, and Google Brain, the company's deep learning project



How China "out-innovates" the world

Facial recognition in the real world



China has a large centralized database of ID card photos that can drive unprecedented real-world applications of facial recognition technologies, including scanning for criminals across surveillance camera networks

Baidu, which cracked a 20+ year kidnapping case using facial recognition, is trialing a system that identifies people before picking up train tickets.

Beijing-based Face++, which analyzes the distances between 83 points on a face, is being employed by Alipay and Didi to verify ID for payments and to verify drivers, and has a \$1 billion valuation

Other projects include scanners in coffee shops that identify customers and buying habits to staff, as well as security systems for female dormitories Clip slide

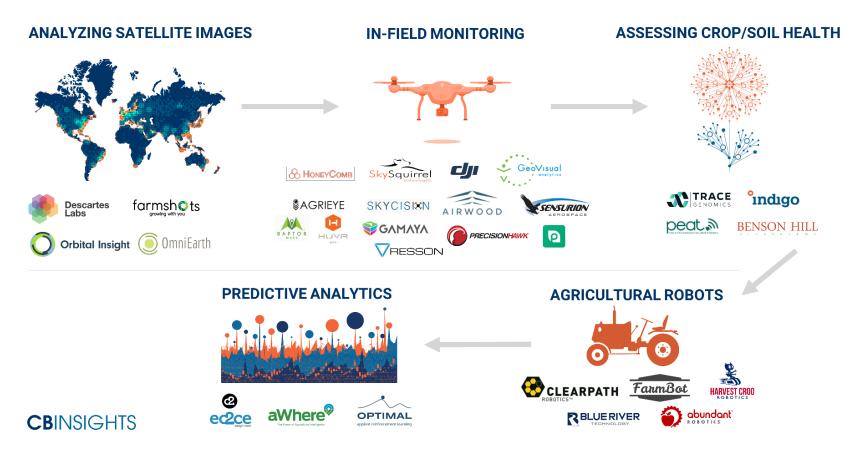
Infervision uses AI to detect cancer



Clip slide

Beijing-based Infervision uses sophisticated image recognition to detect early-stage lung cancer in CT scans that humans may miss. Infervision has installed programs in 20 hospitals across China, and is expanding to the US and Japan and developing programs to help doctors analyze images of the heart, brain and stomach.

5 USE CASES OF AI + ROBOTICS IN AGRICULTURE



3 Top AI Labs: Tencent a waking giant

Tencent 腾讯





Making up lost ground, over the past year Tencent has established AI labs in Shenzhen and Seattle, poached Baidu big data head Zhang Tong, and partnered with AI university labs like one at HKUST providing funding and data in return for access to research and talent

Despite losing AI kingpin Andrew Ng in March, Baidu has invested more than \$1 billion with over 1,700 people dedicated to the field, as well as a joint lab with the government's NDRC. Baidu is an established global leader in voice recognition

Didi, the \$50 billion ride-hailing service that last year acquired Uber in China, will drive AI frontiers through its recently opened AI lab in Mountain View focused on self-driving cars, Clip slide

What's Next

