ACCELERATE DSM

Leading through AI

Produced by
SQUARE ONE DSM

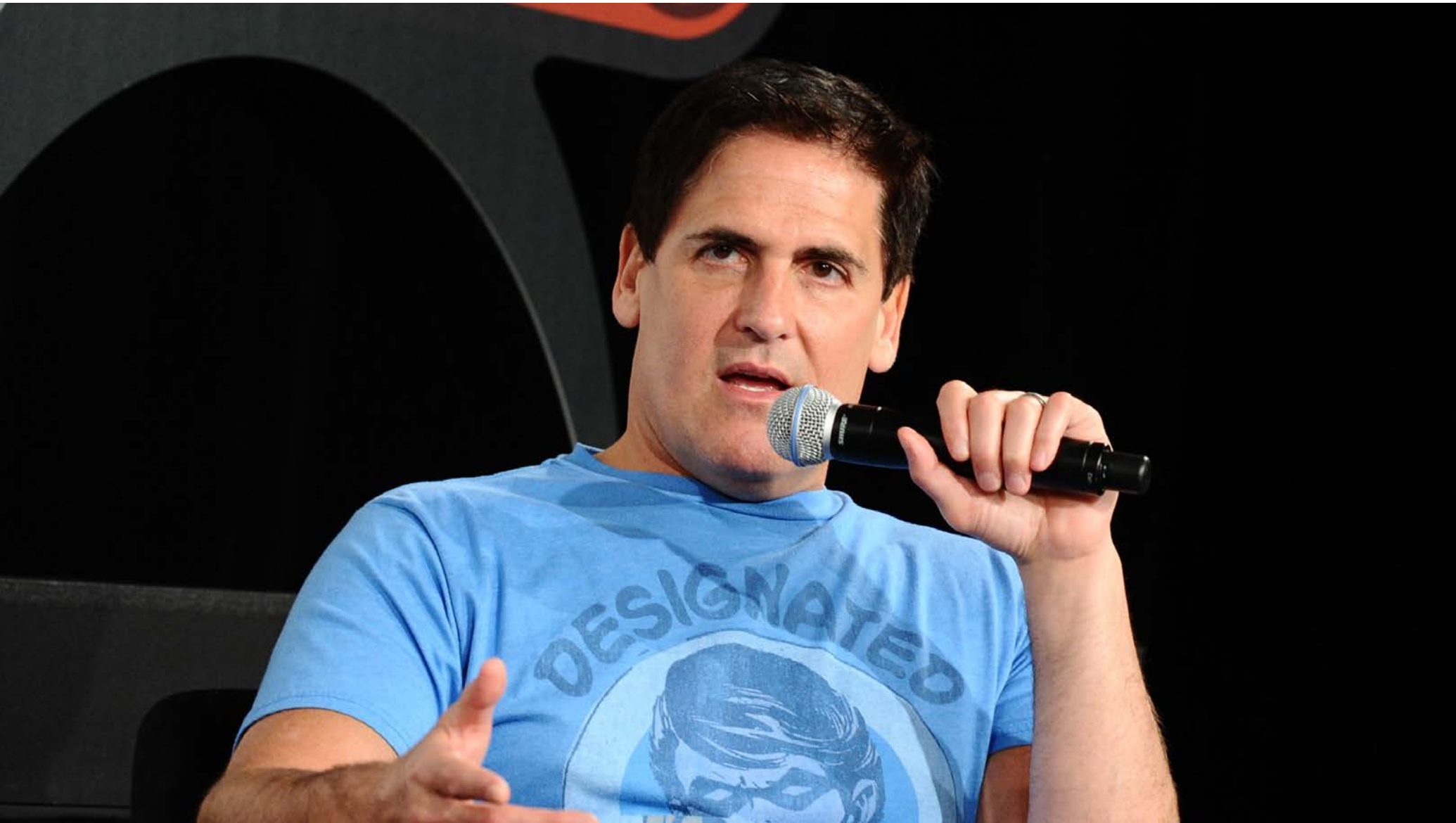An Initiative of
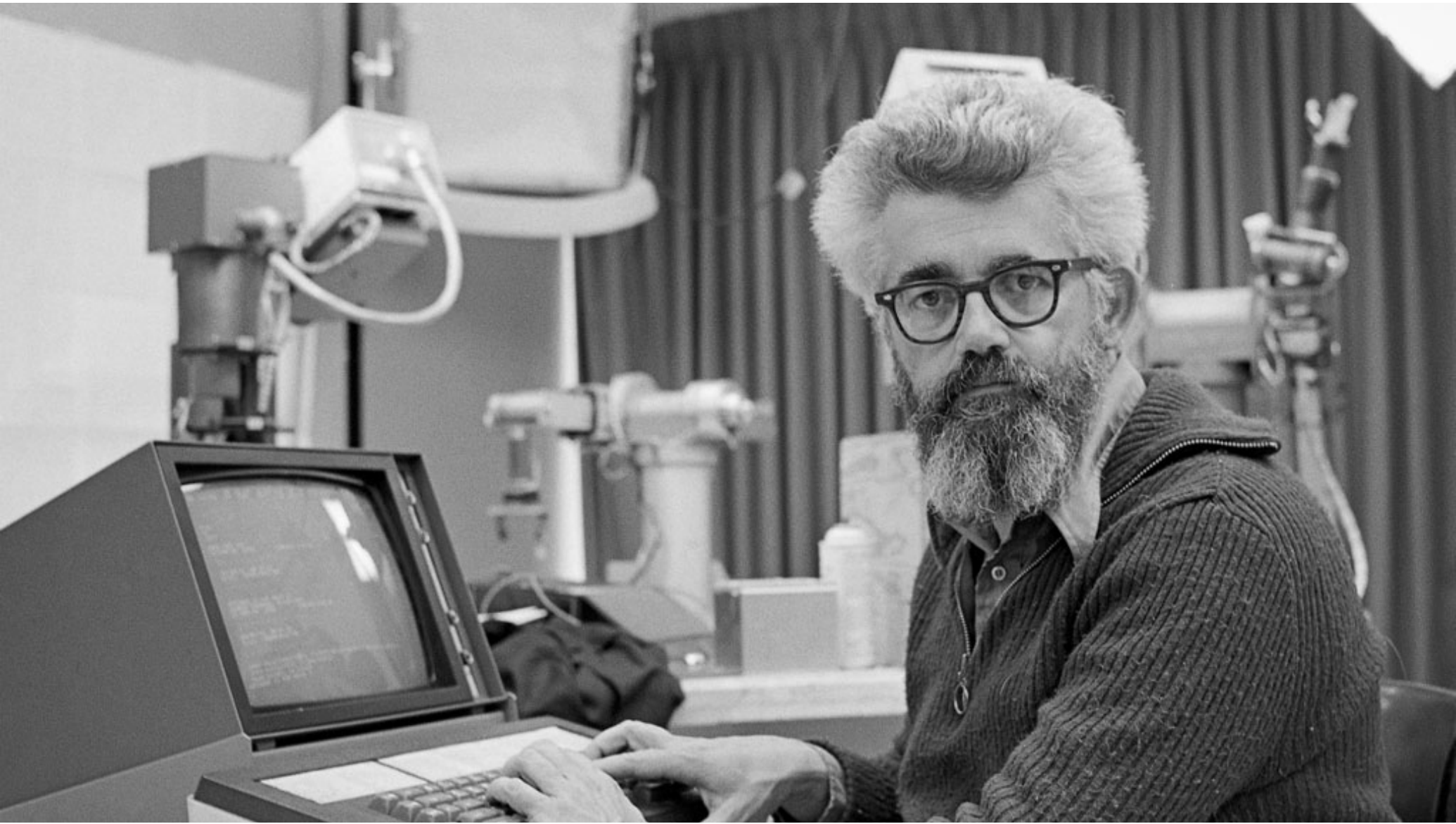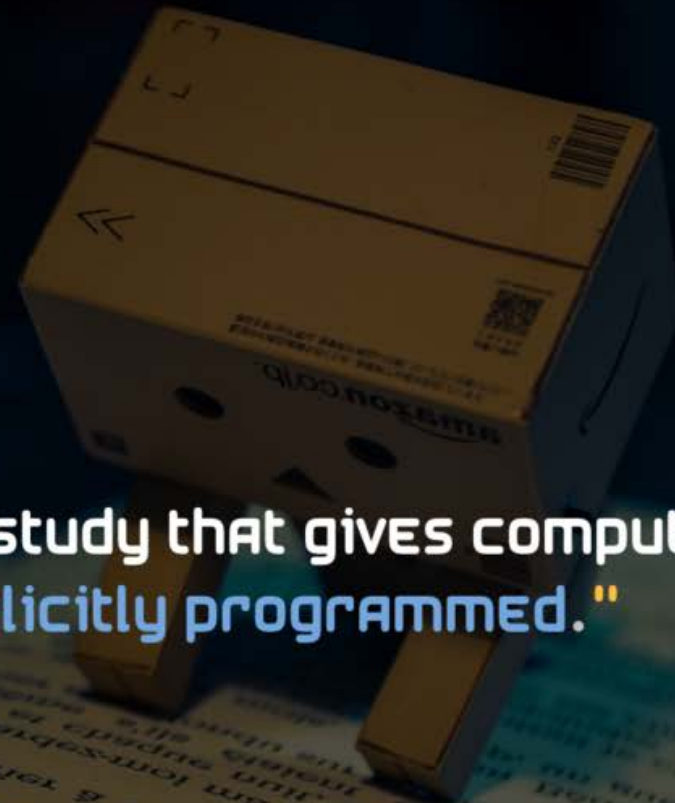GREATER DES MOINES
PARTNERSHIP

accelerateDSM.com

machine learning

"machine learning is the field of study that gives computers the ability to learn without being explicitly programmed."

Attributed to Arthur l. Samuel
circa 1959

The breakthrough in deep learning is to model the brain, not the world using neural networks. This eliminates the need for humans to write the rules for the algorithm.
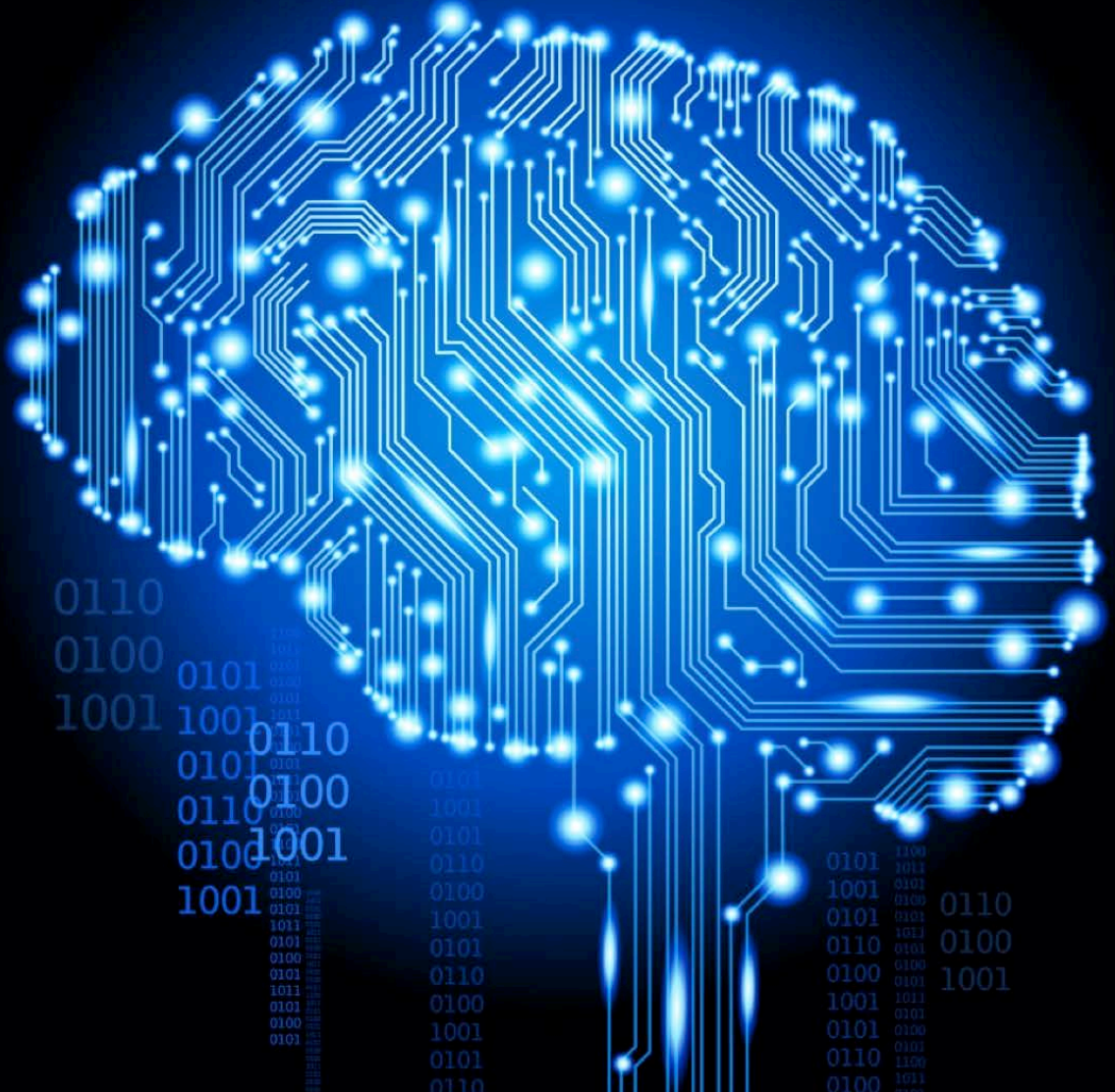
ARTIFICIAL INTELLIGENCE
Early artificial intelligence stirs excitement.
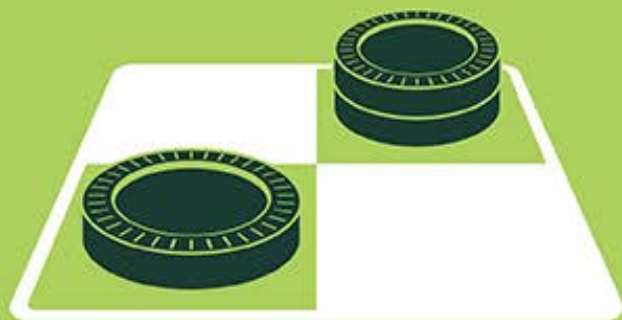
MACHINE LEARNING
Machine learning begins to flourish.

DEEP LEARNING
Deep learning breakthroughs drive AI boom.

1950's 1960's 1970's 1980's 1990's 2000's 2010's

Source: What's the Difference Between Artificial Intelligence, Machine Learning, and Deep Learning. Michael Copeland

ARPANET

ETHERNET

WORLD-WIDE-WEB

ebay
Java
LYCOS
AOL.

iTunes
facebook

bing

tumblr.

?

INTERNET

FTP & TCP/IP

Netscape
YAHOO!
amazon.com

Google
myspace.com
napster

WordPress
Skype
YouTube
Twitter

Pinterest
Instagram

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1969 1973 1976 1982 1990 1994 1995 1998 1999 2003 2004 2005 2007 2009 2010 2012 2014
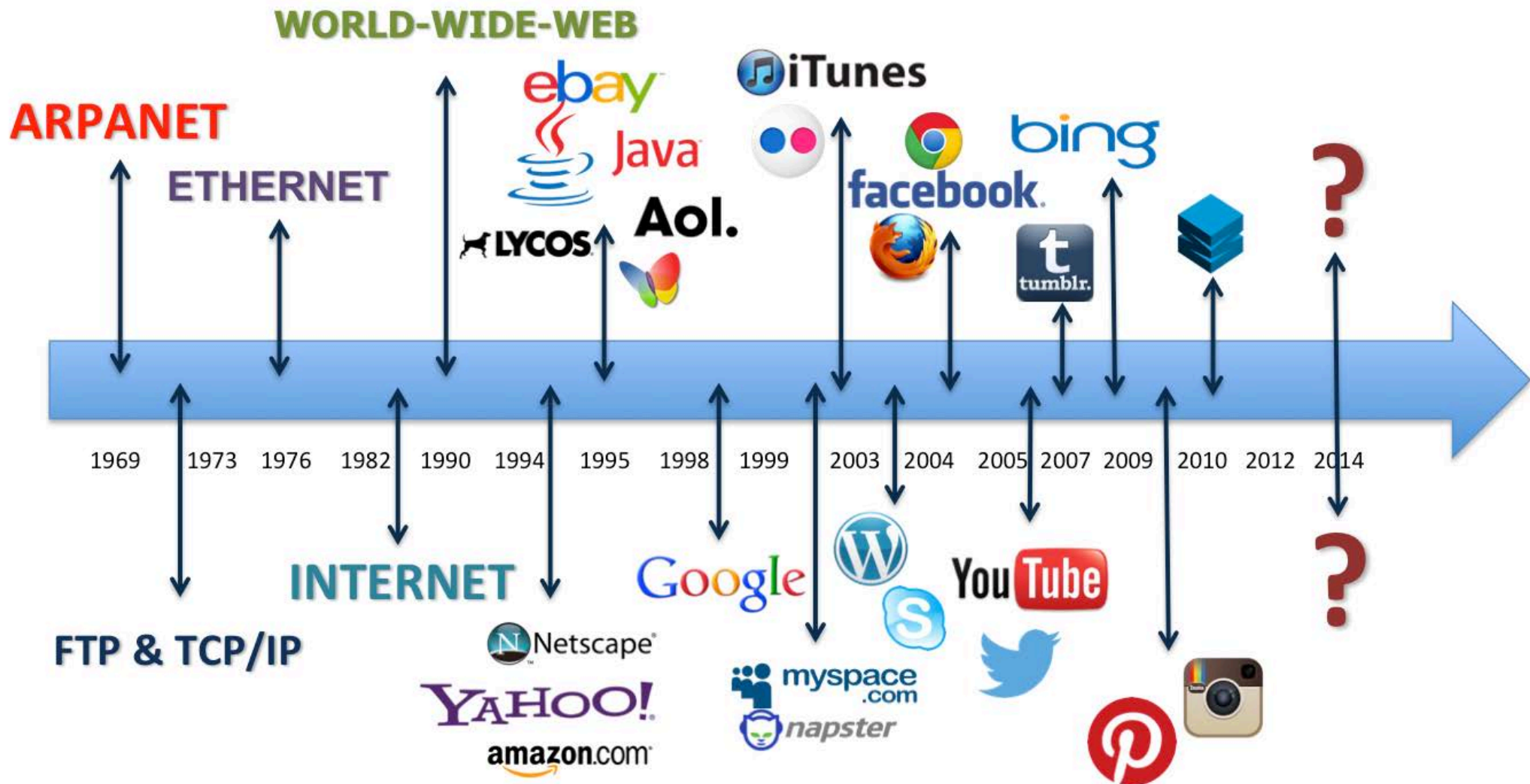
Deep learning is changing the world now

We are at the beginning of the
Fourth Industrial Revolution
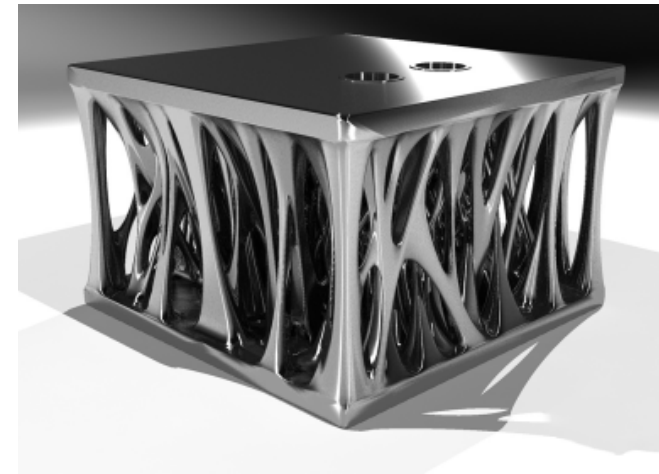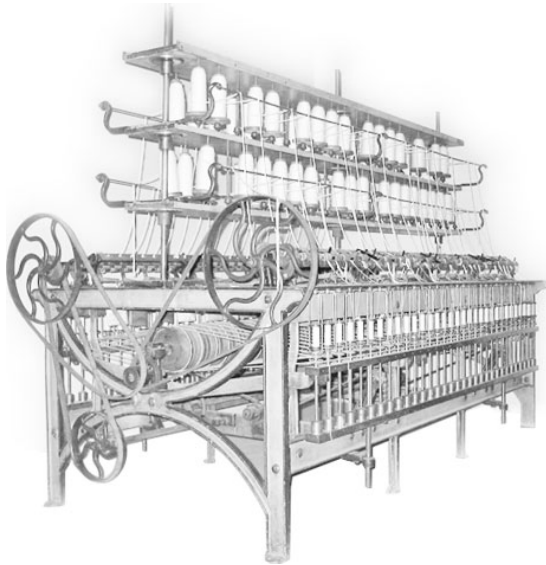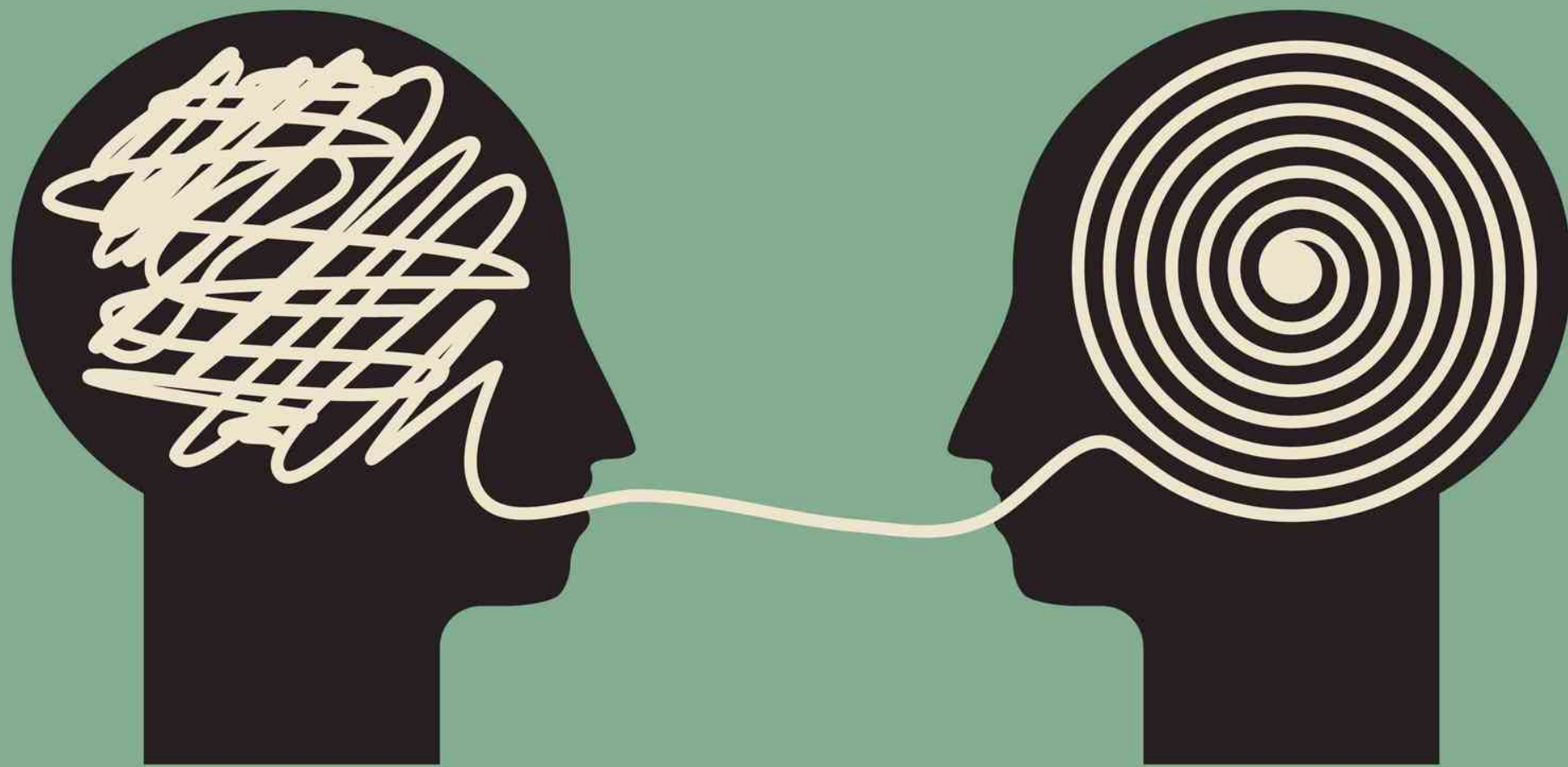
Reasoning

Knowledge

Communication

Perception

The revolution has already begun…

Show me the money!

7x increase in AI investment

Source: The fourth industrial revolution: a primer on Artificial Intelligence (AI)
David Kelnar: Investment Director & Head of Research at MMC Ventures

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AI startups in the UK

Funding:
'Angel': <$500K   'Seed': $500K—$2M   'Early Stage': >$2M—$8M   'Growth': >$8M—c.$100M

B2B
B2C

TECHNOLOGIES

Funding: Angel | Seed | Early Stage | Growth

Analytics/Optimisation
Satalia | Mindi | Peak

Autonomous Systems
Accelerated Dynamics | FiveAI
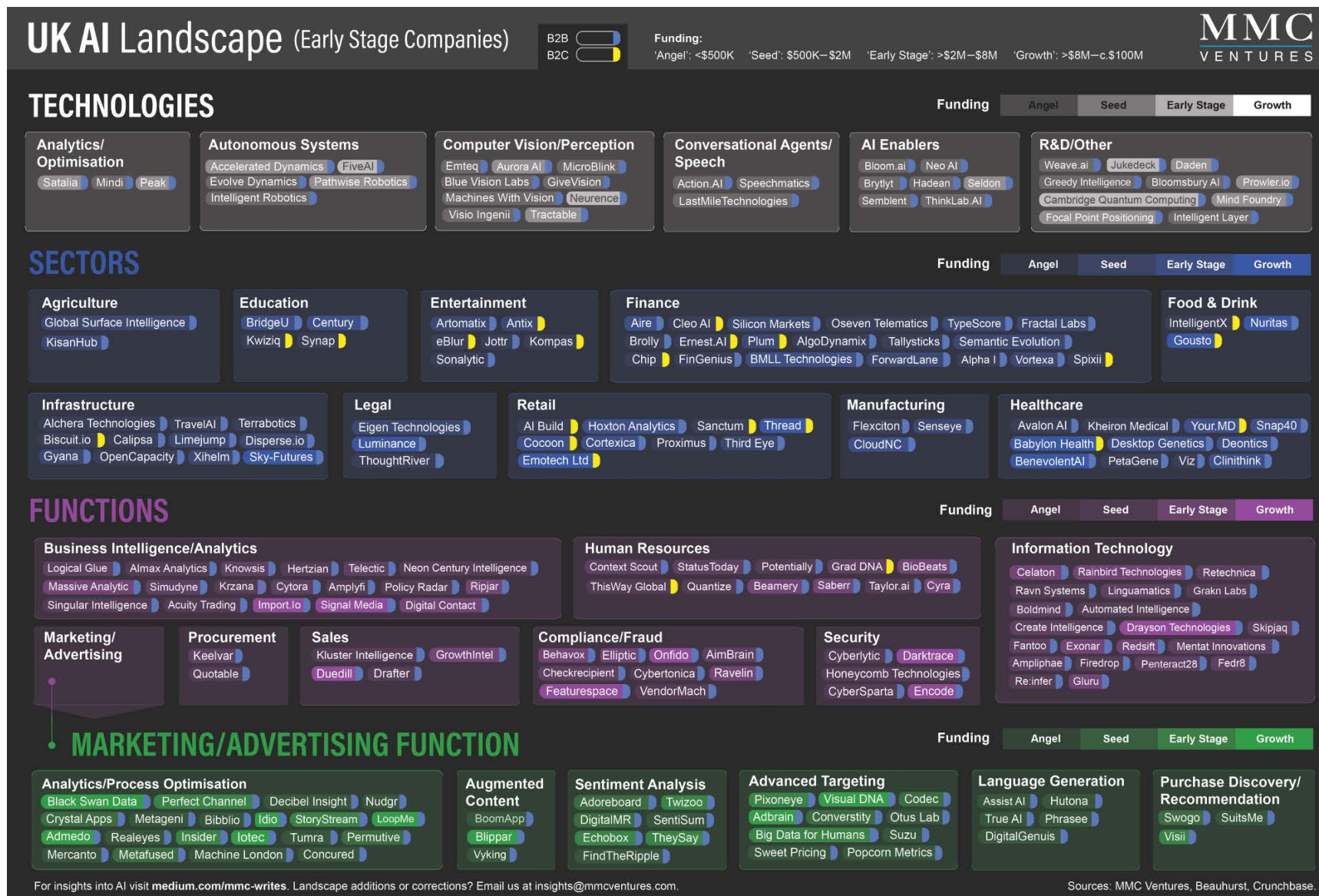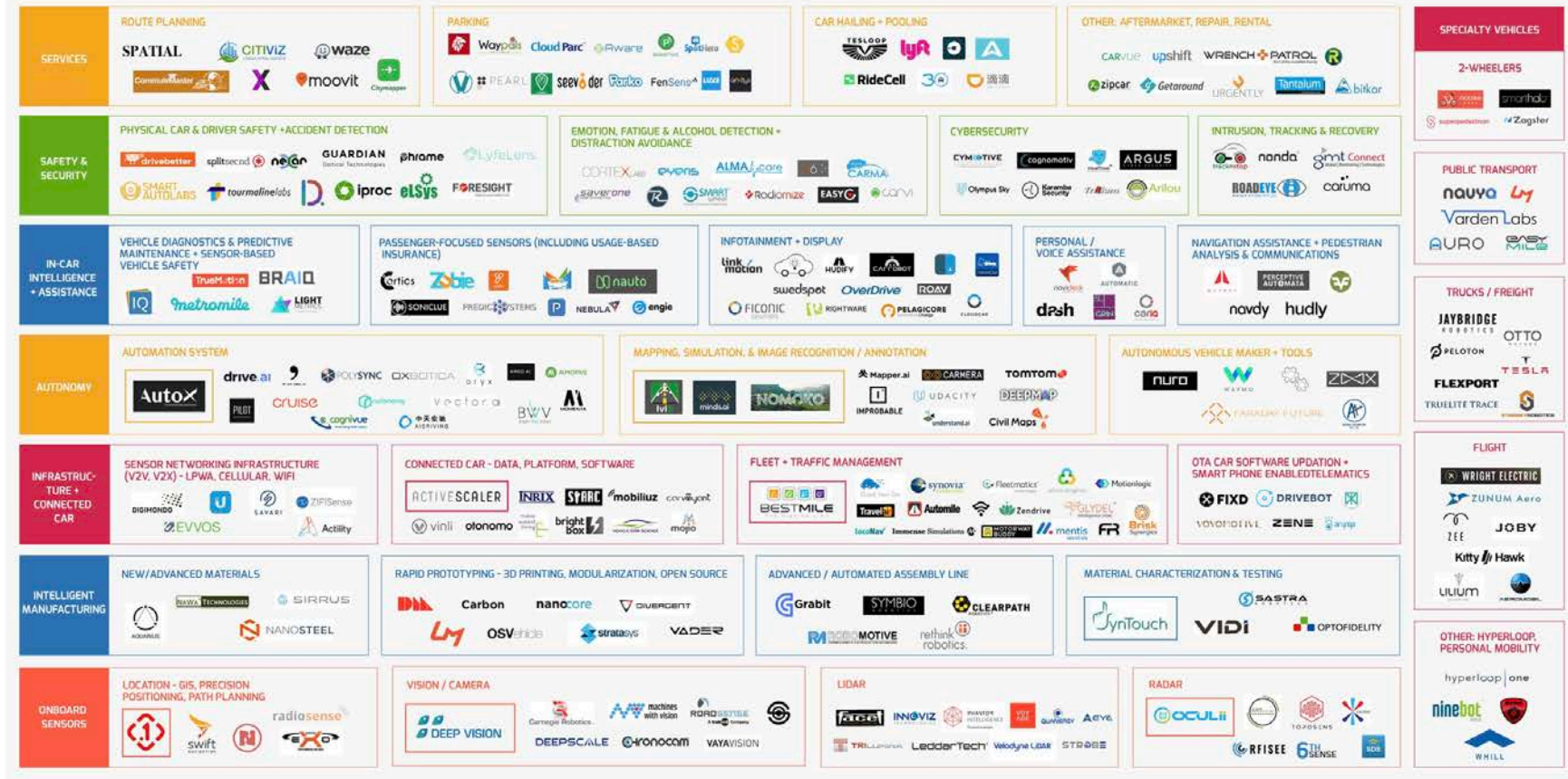Evolve Dynamics | Pathwise Robotics
Intelligent Robotics

Computer Vision/Perception
Emteq | Aurora AI | MicroBlink
Blue Vision Labs | GiveVision
Machines With Vision | Neurence
Visio Ingenii | Tractable

Conversational Agents/Speech
Action.AI | Speechmatics
LastMileTechnologies

AI Enablers
Bloom.ai | Neo AI
Brytlyt | Hadean | Seldon
Semblent | ThinkLab.AI

R&D/Other
Weave.ai | Jukedeck | Daden
Greedy Intelligence | Bloomsbury AI | Prowler.io
Cambridge Quantum Computing | Mind Foundry
Focal Point Positioning | Intelligent Layer

SECTORS

Funding: Angel | Seed | Early Stage | Growth

Agriculture
Global Surface Intelligence
KisanHub

Education
BridgeU | Century
Kwiziq | Synap

Entertainment
Artomatix | Antix
eBlur | Jottr | Kompas
Sonalytic

Finance
Aire | Cleo AI | Silicon Markets | Oseven Telematics | TypeScore | Fractal Labs
Brolly | Ernest.AI | Plum | AlgoDynamix | Tallysticks | Semantic Evolution
Chip | FinGenius | BMLL Technologies | ForwardLane | Alpha I | Vortexa | Spixii

Food & Drink
IntelligentX | Nuritas
Gousto

Infrastructure
Alchera Technologies | TravelAI | Terrabotics
Biscuit.io | Calipsa | Limejump | Disperse.io
Gyana | OpenCapacity | Xihelm | Sky-Futures

Legal
Eigen Technologies
Luminance
ThoughtRiver

Retail
AI Build | Hoxton Analytics | Sanctum | Thread
Cocoon | Cortexica | Proximus | Third Eye
Emotech Ltd

Manufacturing
Flexciton | Senseye
CloudNC

Healthcare
Avalon AI | Kheiron Medical | Your.MD | Snap40
Babylon Health | Desktop Genetics | Deontics
BenevolentAI | PetaGene | Viz | Clinithink

FUNCTIONS

Funding: Angel | Seed | Early Stage | Growth

Business Intelligence/Analytics
Logical Glue | Almax Analytics | Knowlis | Hertzian | Telectic | Neon Century Intelligence
Massive Analytic | Simudyne | Krzana | Cytora | Amplyfi | Policy Radar | Ripjar
Singular Intelligence | Acuity Trading | Import.Io | Signal Media | Digital Contact

Human Resources
Context Scout | StatusToday | Potentially | Grad DNA | BioBeats
ThisWay Global | Quantize | Beamery | Saberr | Taylor.ai | Cyra

Information Technology
Celation | Rainbird Technologies | Retechnica
Ravn Systems | Linguamatics | Grakn Labs
Boldmind | Automated Intelligence
Create Intelligence | Drayson Technologies | Skipjaq
Fantoo | Exonar | Redsift | Mentat Innovations
Ampliphae | Firedrop | Penteract28 | Fedr8
Re:infer | Gluru

Marketing/Advertising
Keelvar
Quotable

Procurement

Sales
Kluster Intelligence | GrowthIntel
Duedill | Drafter

Compliance/Fraud
Behavox | Elliptic | Onfido | AimBrain
Checkrecipient | Cybertonica | Ravelin
Featurespace | VendorMach

Security
Cyberlytic | Darktrace
Honeycomb Technologies
CyberSparta | Encode

MARKETING/ADVERTISING FUNCTION

Funding: Angel | Seed | Early Stage | Growth

Analytics/Process Optimisation
Black Swan Data | Perfect Channel | Decibel Insight | Nudgr
Crystal Apps | Metageni | Bibblio | Idio | StoryStream | LoopMe
Admedo | Realeyes | Insider | Iotec | Tumra | Permutive
Mercanto | Metafused | Machine London | Concured

Augmented Content
BoomApp
Blippar
Vyking

Sentiment Analysis
Adoreboard | Twizoo
DigitalMR | SentiSum
Echobox | TheySay
FindTheRipple

Advanced Targeting
Pixoneye | Visual DNA | Codec
Adbrain | Converstity | Otus Lab
Big Data for Humans | Suzu
Sweet Pricing | Popcorn Metrics

Language Generation
Assist AI | Hutona
True AI | Phrasee
DigitalGenius

Purchase Discovery/Recommendation
Swogo | SuitsMe
Visii

For insights into AI visit **medium.com/mmc-writes**. Landscape additions or corrections? Email us at insights@mmcventures.com.

Sources: MMC Ventures, Beauhurst, Crunchbase.

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AI Transportation startups

THE FUTURE OF TRANSPORTATION STACK — COMET LABS

Source: VC firm Comet Labs

DECIDING WHAT **NOT TO DO** IS AS **IMPORTANT** AS DECIDING **WHAT TO DO**

- Steve Jobs
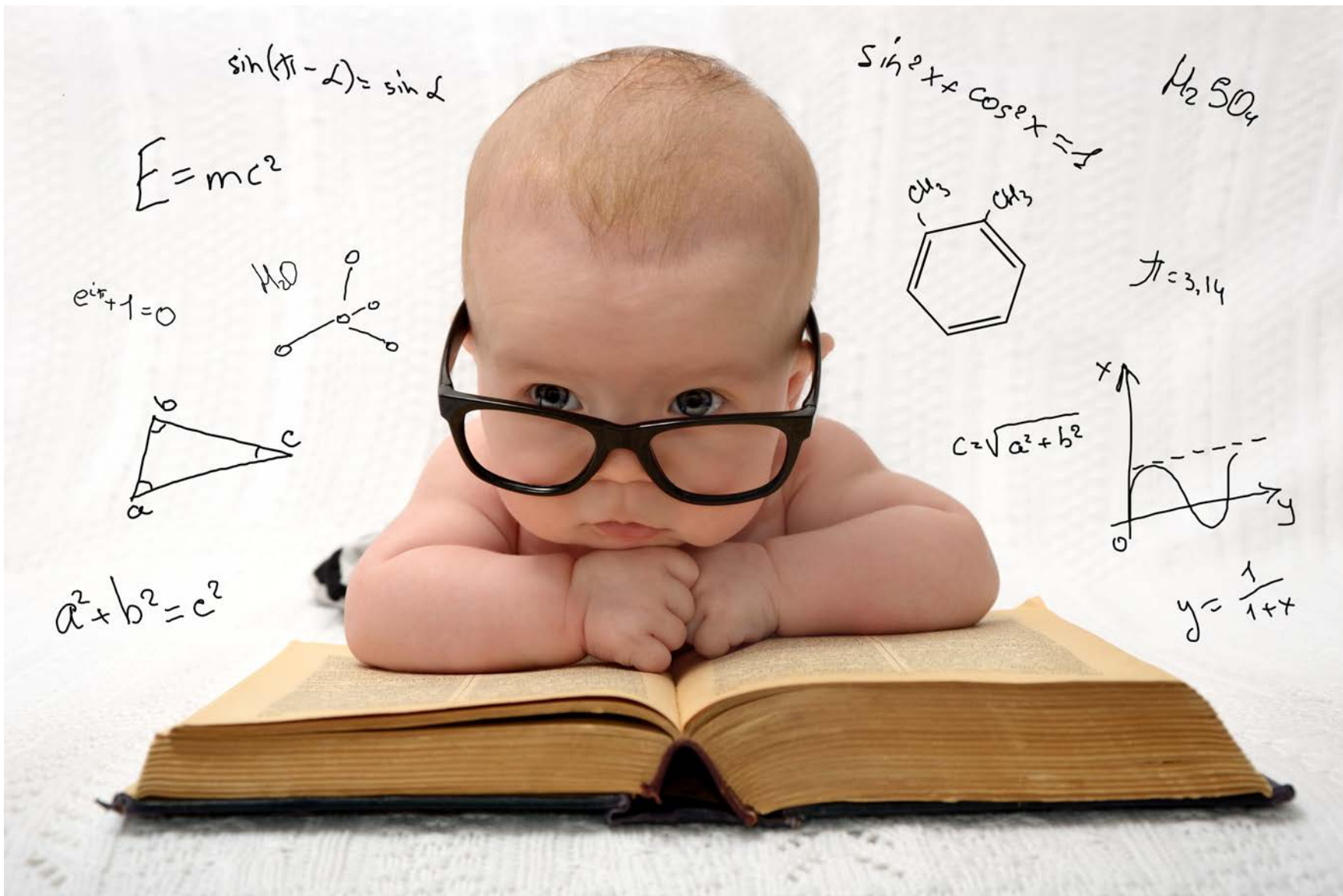
The developers of the Internet did not anticipate many of the Internet's uses.

Consequently, they did not make much money on the Internet.

Google did not invent AI, but it is benefiting from AI's implementation in the world of search.

And it is making a lot of money on AI!

Solve a problem for a specific market

Des Moines can be a center of excellence for AI implementation

ACCELERATE DSM

Leading through AI

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