

Our Global Al Business and Journey in Canada

Naoko Yoshizawa

Corporate Executive Officer

EVP, Vice Head of Digital Services Business

Al Business

Fujitsu Limited

CEO, Fujitsu Intelligence Technology

Human Centric Innovation

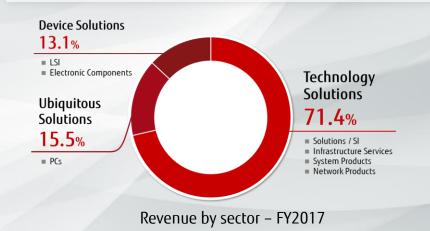
Digital Co-creation

Fujitsu at a glance



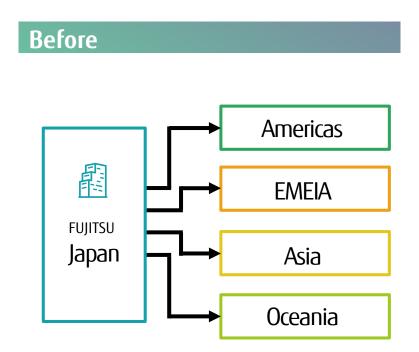
- Headquarters: Tokyo, Japan
- Established: 1935
- President: Tatsuya Tanaka
- Principal Business Areas:
 Technology Solutions
 Ubiquitous Solutions
 Device Solutions
- Employees: 140,000 worldwide

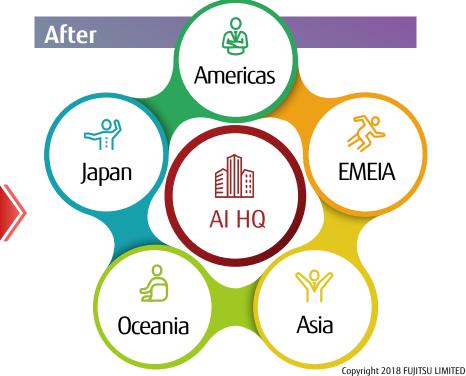
- Revenue:4,098.3 billion yen (\$36 bn USD)
- Operating profit:182.4 billion yen (\$1.6 bn USD)



New Approach to Global Business Formation for Al Business Unit







FUJITSU Intelligence Technology





CEO

Naoko Yoshizawa

Start of operations

November 1st 2018

Location

355 Burrard Street, Vancouver, BC (Marine Building)



Our Missions





Stay at world-class speed

Lead our partnerships and technology strategies from a global perspective in North America, forefront of AI business and R&D



Expand AI business to all regions

Harness and leverage regional use cases and AI offerings, and commercialize globally as market-leading solutions.



Co-creation × Talents × Technology = De-facto solution

Through talent acquisition and co-creation with ecosystem, widely permeate Fujitsu's strong technologies and create industry best-of-breed solutions

Why Canada?





Government tech & innovation policy Canadian & BC governments support and promote innovation and advanced technology R&D aggressively.



Advanced research laboratories and talents State-of-the-art research laboratories and talent in Data Science, Al and the Quantum fields.



Rich & diverse start-up ecosystem

Large number of tech start-ups
available for co-creation partnerships.

Fujitsu invested in 1QBit.



Sustainable business environment and multi-national technology ecosystem Examples: Microsoft, Boeing, Amazon already established in the market.



Competitive business cost structure Advantageous environment with reasonable rent/tax/labor expenses.



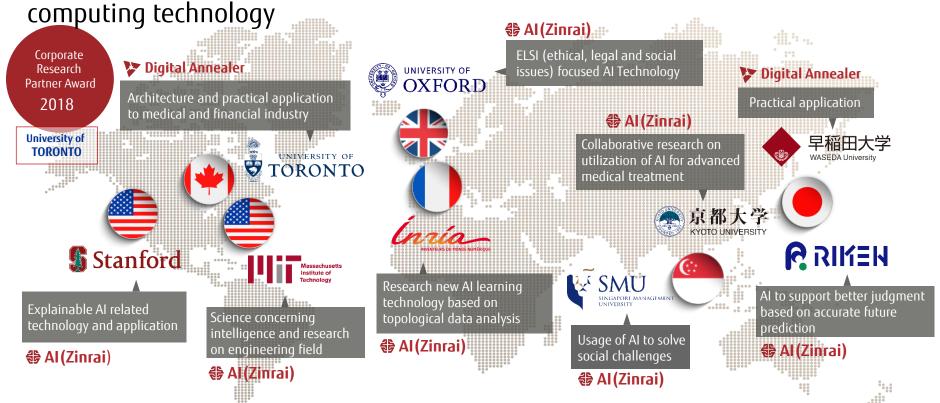
Largest business opportunities

Mass market in North America. Largest in the world. Investment in AI by one company is 17X greater than Japan.

Technology Research Formation



Co-Creation with world-class research laboratories with AI and Quantum inspired



Driving Strategy and Coordination of Global AI Business FUJITSU



FUJITSU

Intelligence Technology





FUJITSU's AI: Zinrai

(zinrai: being agile and intense)

Support people's judgment and actions

Dynamically driving digital transformation of companies and society



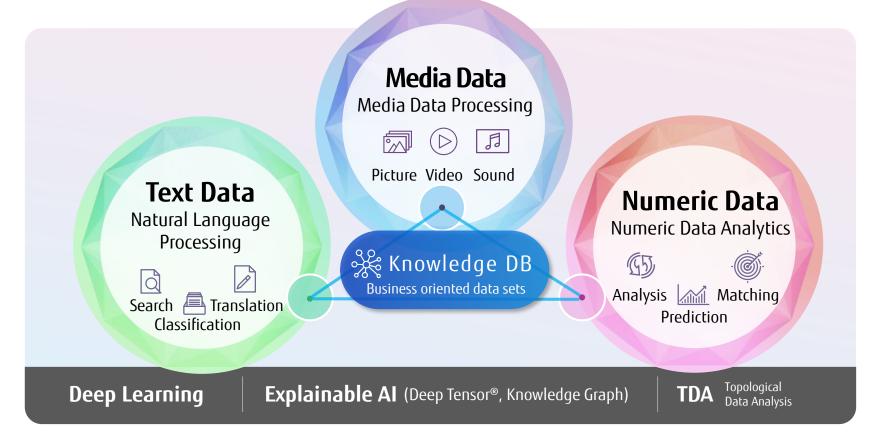
Human-Centric Al



Continuously evolving Al

Al technologies for diverse data domains





New Values provided by Zinrai



























Digital Annealer

FUĴĬTSU

New computing architecture inspired by quantum phenomena to instantly solve combinatorial optimization problems.



Still under research ...

- Difficult to maintain quantum state
- Constraints on connection and expansion



Real-World Application



- Digital Circuit enables miniaturization and stable operation
- Easy mapping of complex problems enabled by fully connected architecture

Solving problems in society which are difficult to solve by conventional method





Find the most similar molecule from a vast amount of compounds by comparing these structures instantly



Reduce planning time of cancer treatment with massive beam patterns from days to minutes



Reduce traffic congestion by optimizing each vehicle's non-overlapping route in entire city



Cluster 500 assets instantly based on their correlation



Reduce 45% of parts picking distance by route and layout optimization

2nd Gen Digital Annealer : Available in December



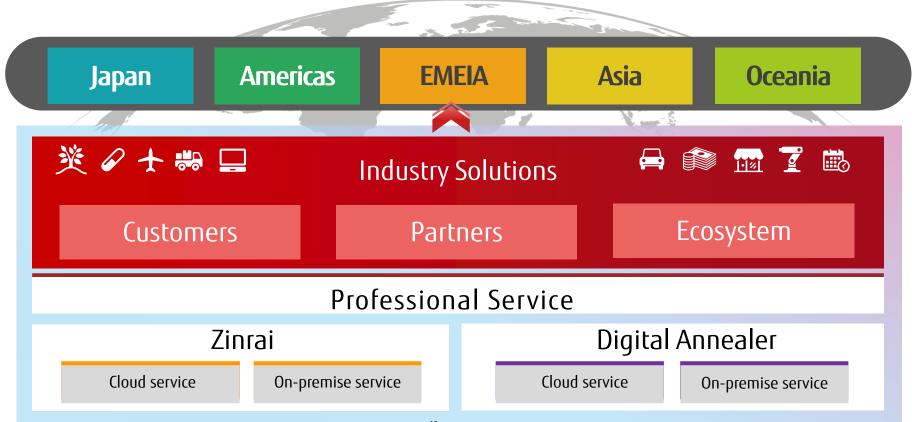
- 100 times faster than 1st generation
- Massive coverage and scalability

 1million bits through a combined software partitioning and multiple DAUs in FY2019



Co-Created Solutions for Global Market





Case Study

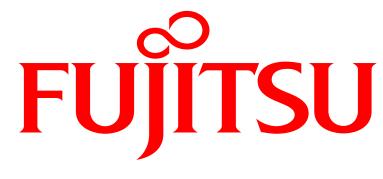
<u>ProteinQure</u>

Accelerate drug discovery through development of stable structural analysis technology for middle molecules

With Digital Annealer, the research of middle molecules candidate with lower risk of side effects was reduced from half a year time to few days.







shaping tomorrow with you