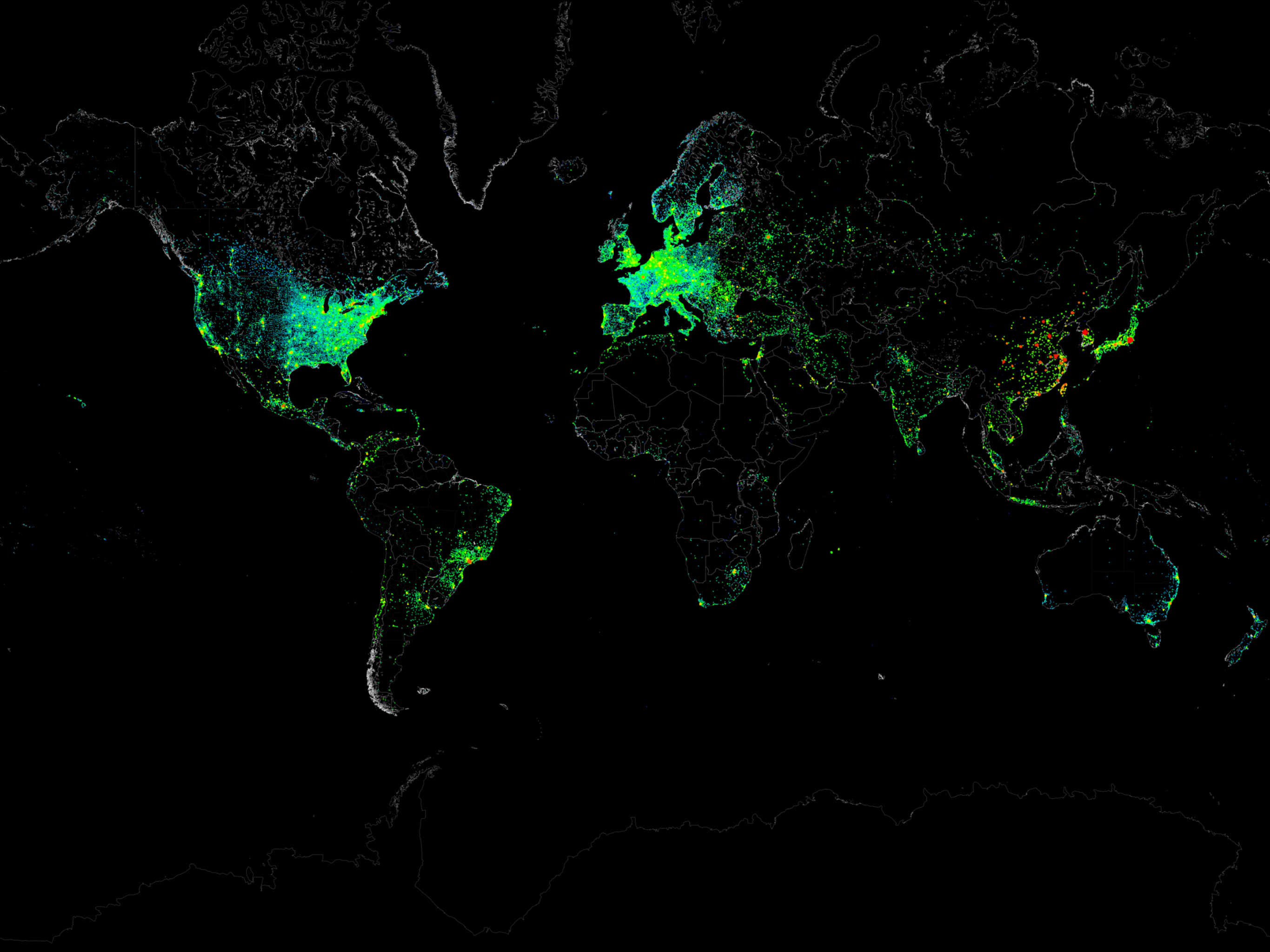



Application of Data Science in business

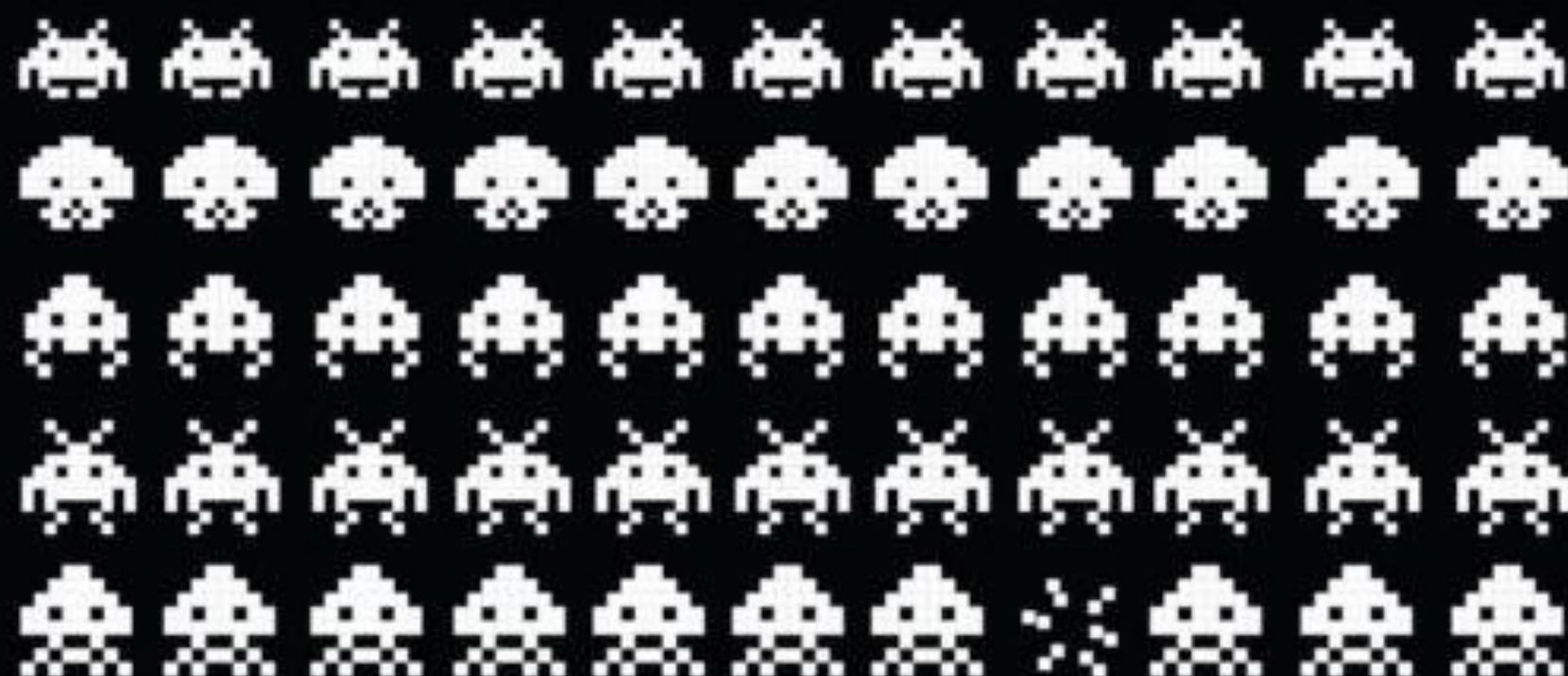
Damir Bacalja, IBM



SCORE
10

HI-SCORE
0000

LIVES 






```
while not isInOrder(deck):  
    shuffle(deck)
```







TERMINAL BURCHARDKAI

HHLA

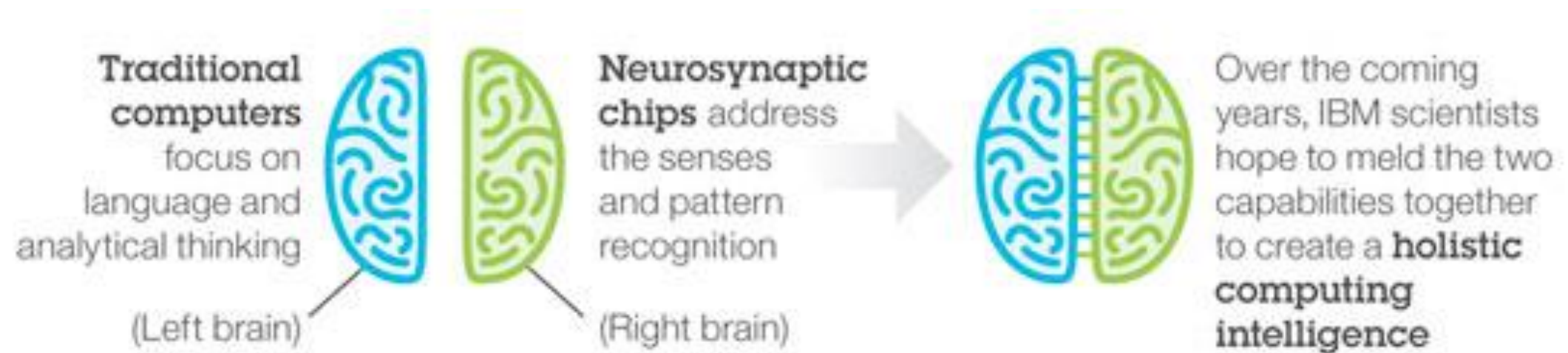
SWL 13T3.2-15M

SWL 5T1.6-11M

Hapag-Lloyd

HOUSTON EXPRESS
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IMO 9284281





“To underscore this divergence between the brain and today’s computers, note that a ‘human-scale’ simulation with 100 trillion synapses required 96 Blue Gene/Q racks of the Lawrence Livermore National Lab Sequoia supercomputer ... would require 12GW... human brain consumes merely 20W.”

– Dharmendra Modha, IBM Fellow

Brain inspired chip - SyNAPSE chip



Programmable
neurons

1 million



Programmable
synapses

256 million



Neurosynaptic
cores

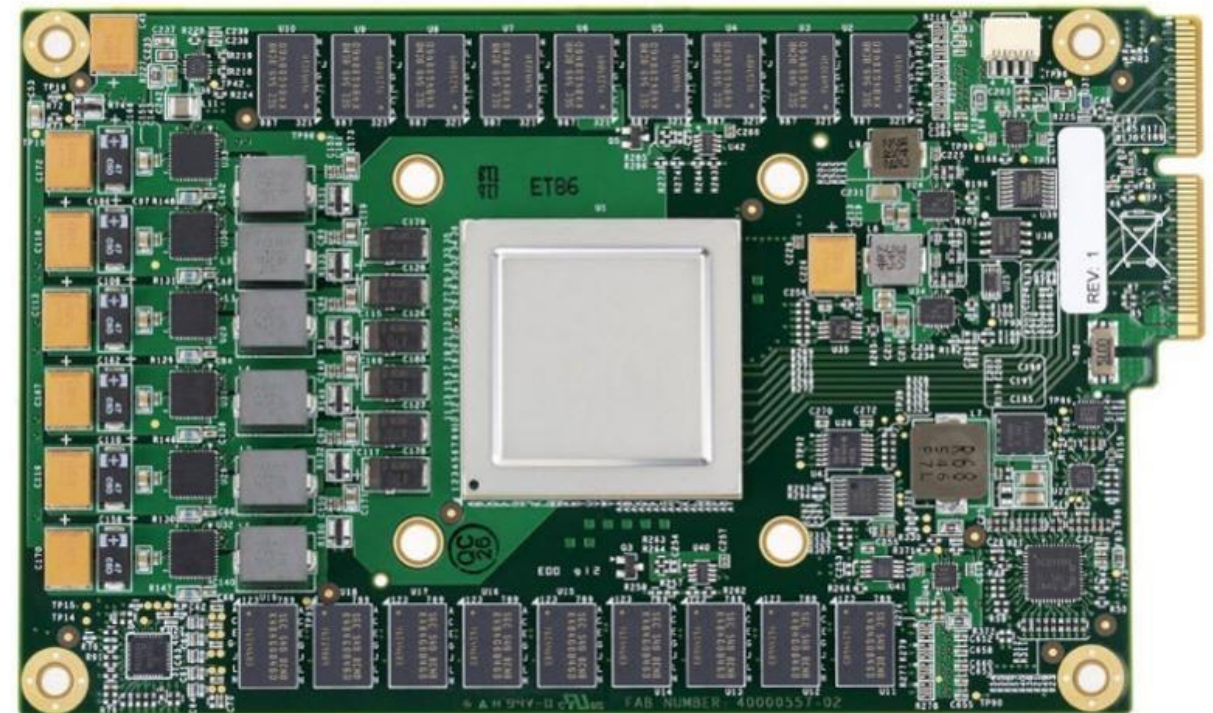
4,096

Tensor Processing Unit (TPU)

Custom ASIC, 1st generation only for inference phase, 2nd generation (May 2017) can be used for both training and inference of ML models

Improved cost-performance compared to GPUs

I



IBM Quantum Experience

IBM Q is an industry-first initiative to build commercially available universal quantum computers for business and science.

Cooled to 0.015K

5 qubits

Join the network:

www.research.ibm.com/ibm-q/

