PEARCODE

DATA ALIVE FOR ETERNITY

16/03/2023





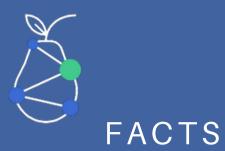












Explosion of data flows Sovereignty challenged Expansion of the number of DCs. Unchecked carbon emissions Energy costs and expenses rising sharply.

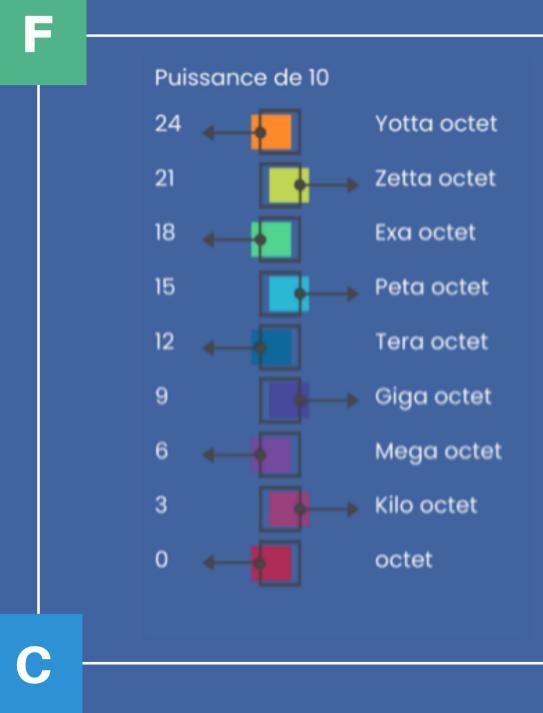
NUMBERS

The annual global data production is 150 Zb and doubles every 2.5 years.

The cost of data storage today is US\$ 400 billion but it is also 400 million tons of CO2 produced and 400 TWh consumed

PEARCODE

Analysis



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OPPORTUNITIES

70% of data volume is cold data The world produces more than 150 Zb/year

Cold storage optimises data management by reducing the need for high performance primary storage, and by limiting the risk of data loss.





BENEFITS

Technology





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Information density 215 petabytes / gram 1 million times higher







Cybersecurity



BENEFITS

Technology





>1000 years





Zero carbon footprint Zero energy consumption



BENEFITS

Technology





Reduction of storage costs



Duplicable and easily industrialised

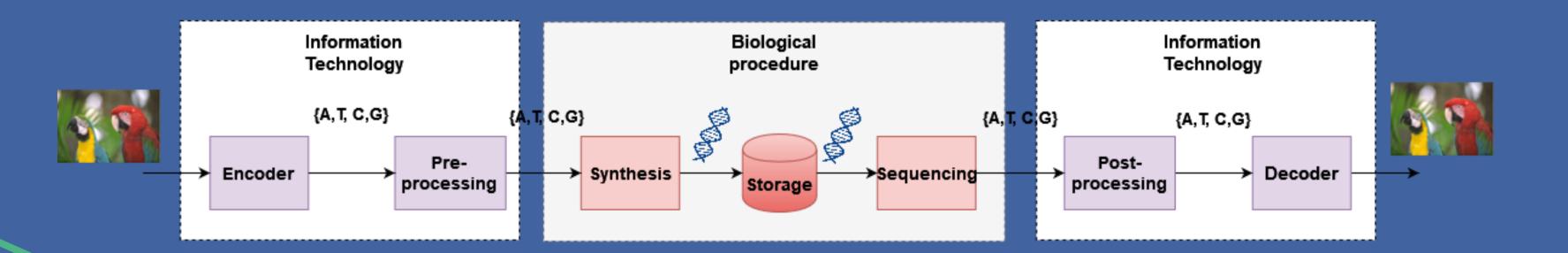


technology

Technology

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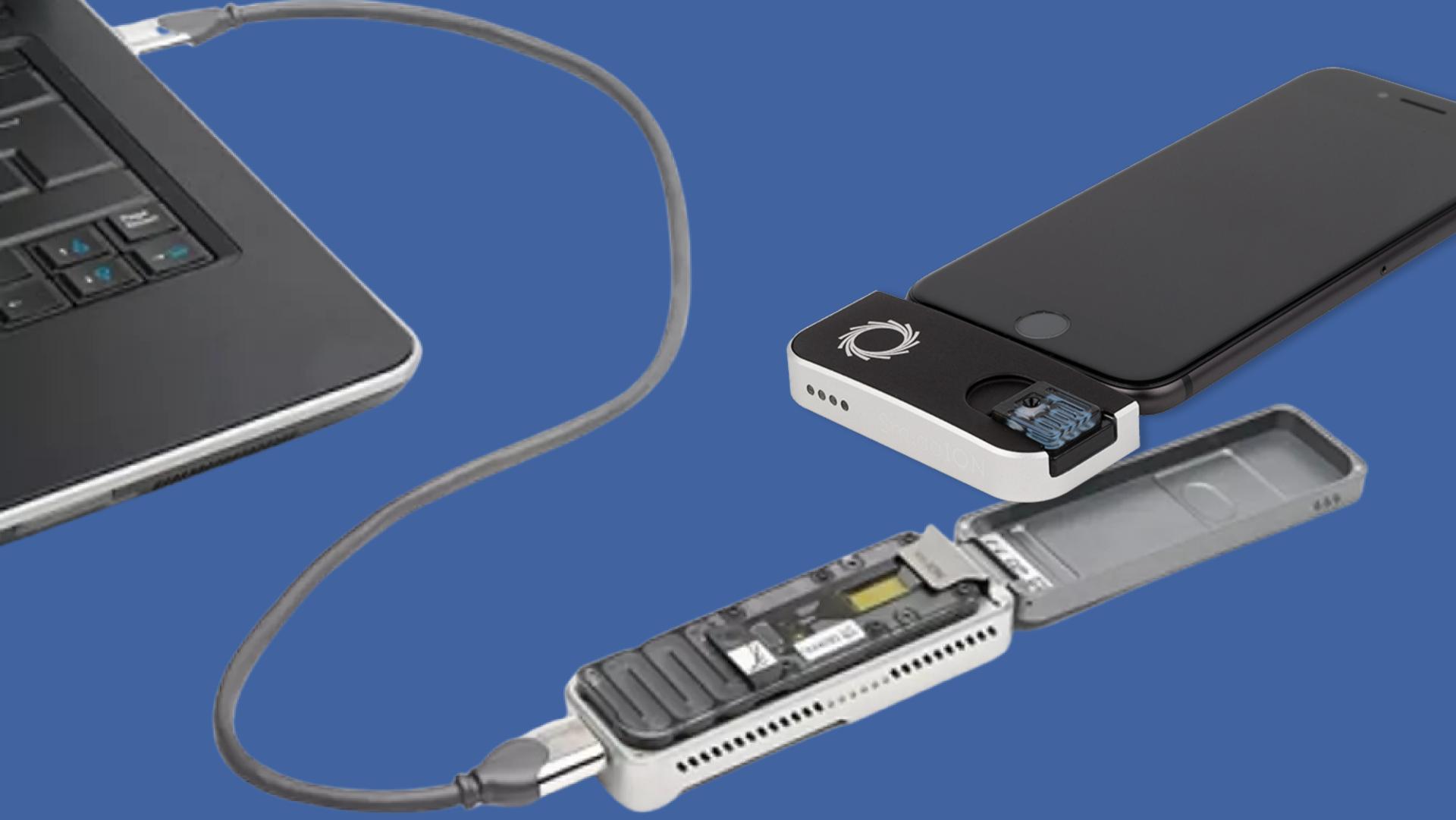
binary





ATT GTT GG AG ACA CC AGT TG AC T GGA TAG AG AC CGG GA CAC AG GA T CCG AGC CG GG GCT AG GAC CA GA G GGT ATG GA CA CCG AG AGA GA CC A TTG GAG CG GA TTA GA CCA GG AG A GGA TAT AT AC CAC AA CCT GA TA C TGG ACA CA CA GGG AT TTG GC AC C TGG ACA CC AT TAT AT CCA TG GA G TTG AGG AC CC AGG AT TGG CC AC C ATT GGA CA CG GAT TG GAC CC AG A TGG ACC AG GA TTA GG ACC AG GA T TGG GCC AC CA TTG AG AGA GA GG G CCT AGG AT AG GCA CA GGG GA TT G

quaternary











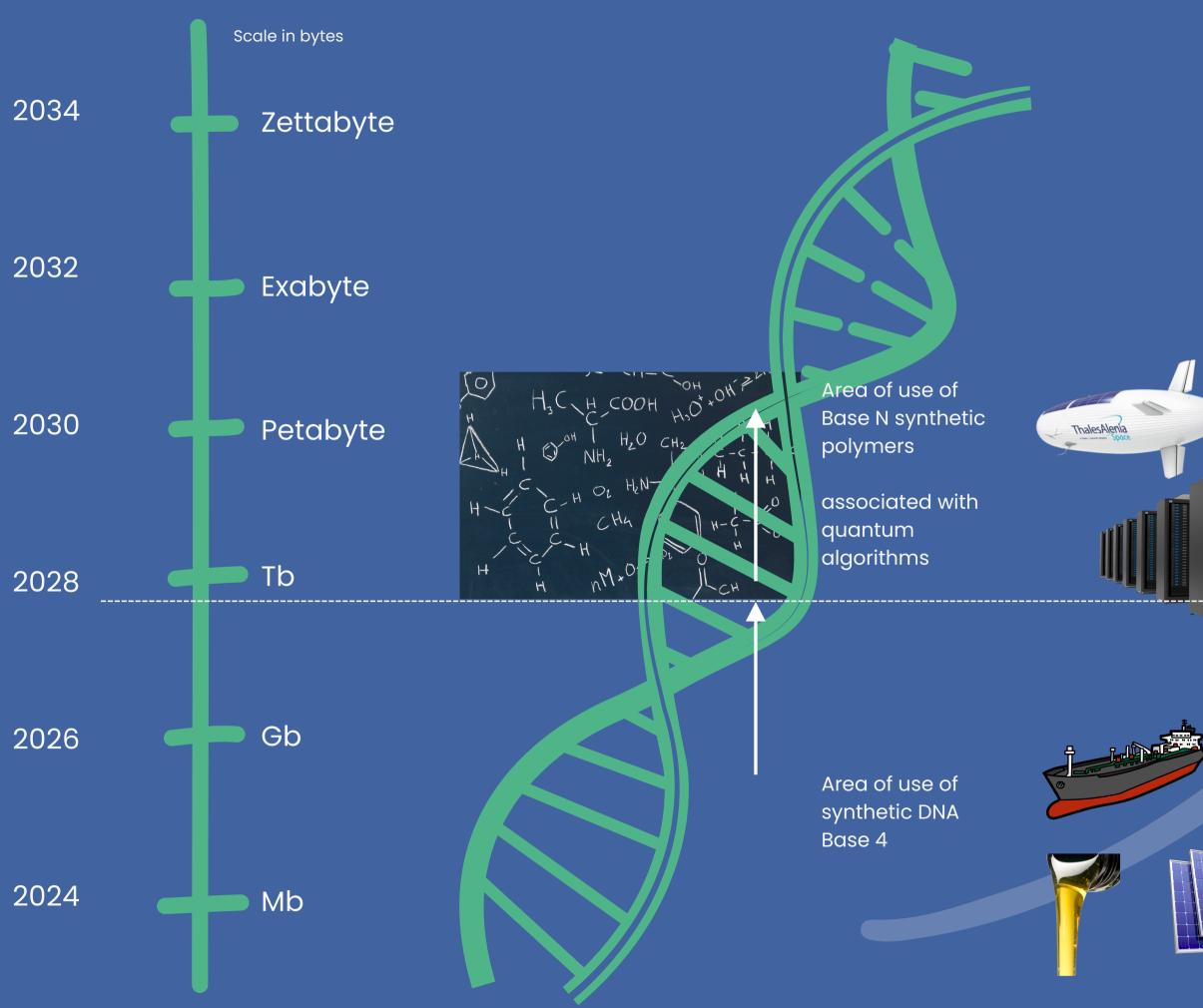
Marking



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Traceability

data storage



Gamma Resistant Embedded Systems



Robust Embedded Systems Sovereign Information Chain



Embedded systems disconnectable from networks. Embedded data centres.

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Robotic writing and reading Decarbonisation of the digital industry

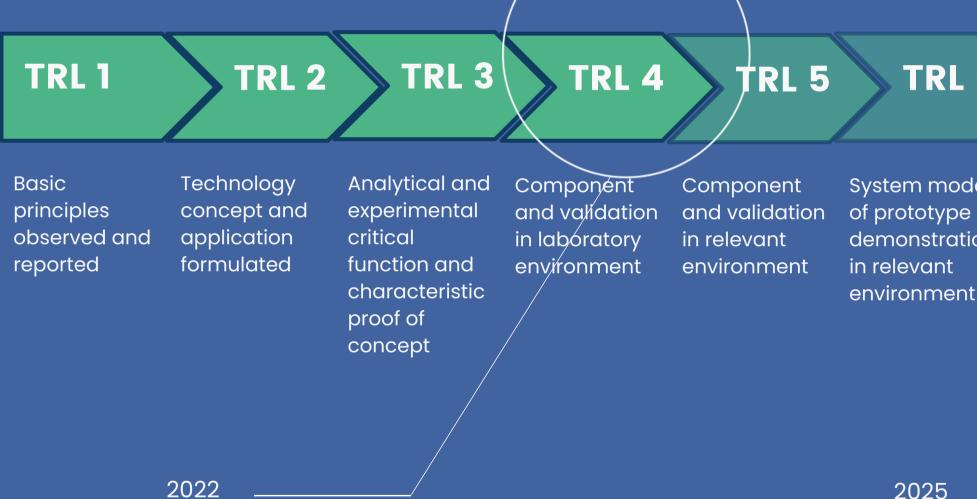
Products are coded with much more data as they move through the production lines.

Incorporation of coded DNA into products. Solid or liquid products become their own information carriers

The FUTURE in construction



Market Readiness (Technology Readiness Level) TRL 1 TRL 2 TRL 3 TRL 4 TRL 5 TRL 6 **TRL 7 TRL 8** TRL 9 Actual system Technology Analytical and Component System model System Actual system Component concept and experimental through and validation and validation prototype completed of prototype demonstration demonstration and qualified application critical in laboratory in relevant successful formulated function and in operational through test environment environment in relevant operations



2025

environment

and

demonstration



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Professional Team



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