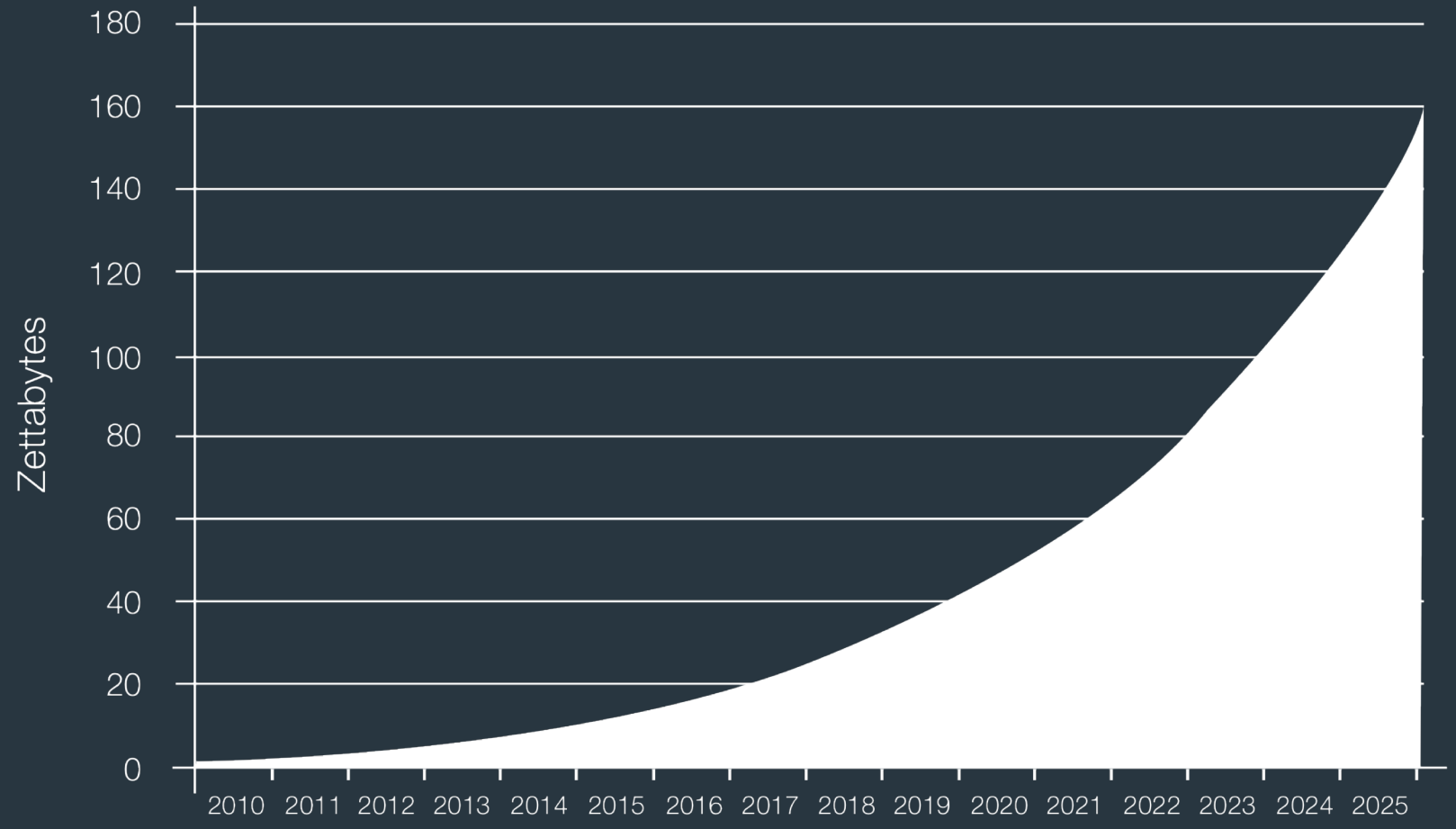
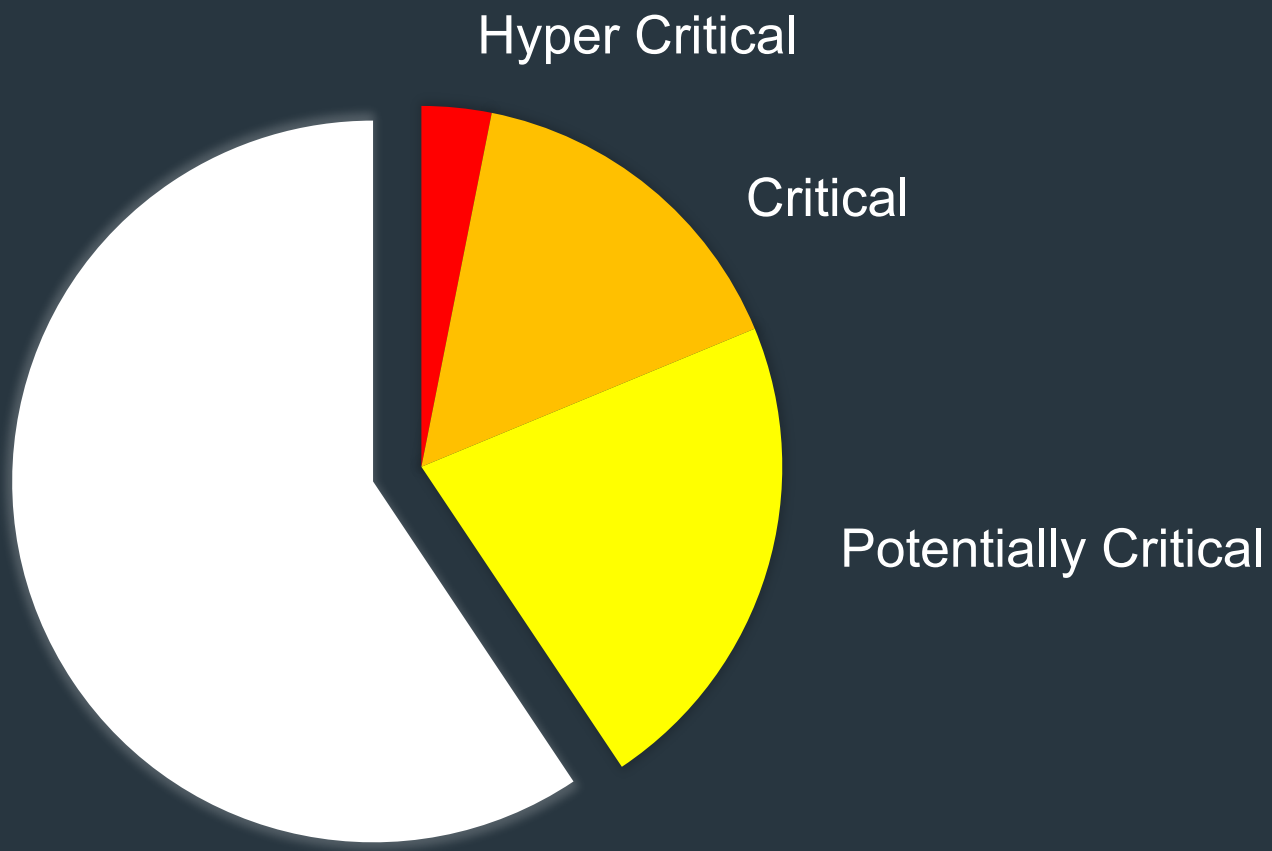
CATALOG

In 2025, the world will create 160,000,000,000,000,000,000,000 bytes of data



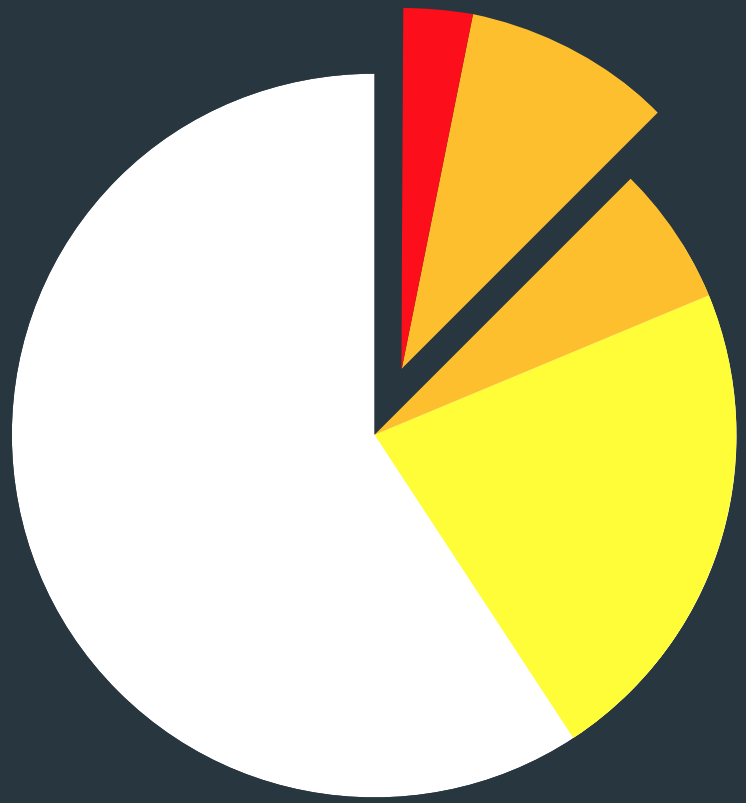
Source: IDC's Data Age 2025 study, sponsored by Seagate, April 2017

40% of that will need to be stored



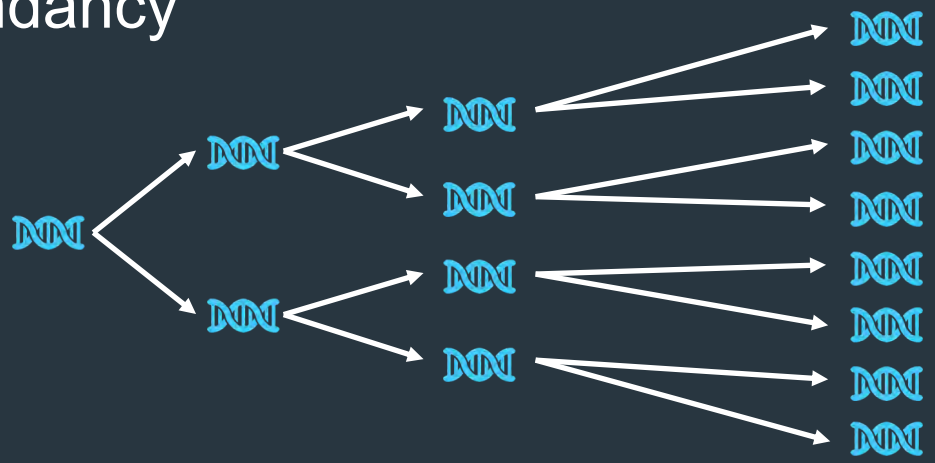
IDC's Data Age 2025 study, sponsored by Seagate, April 2017

We will be able to store 12.5%



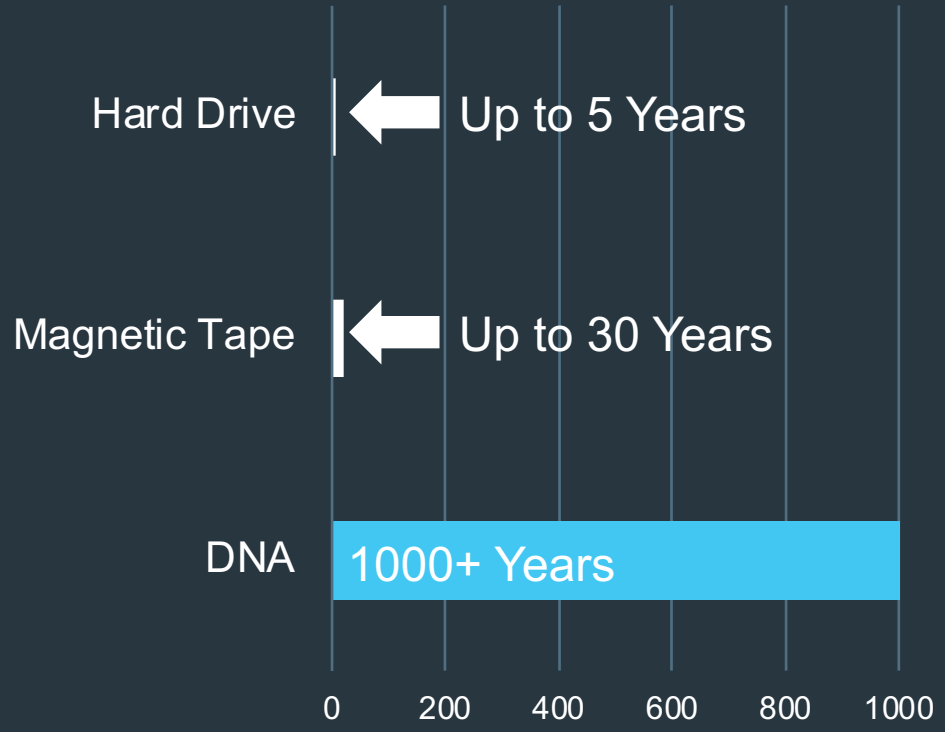
1. Redundancy

easily copied

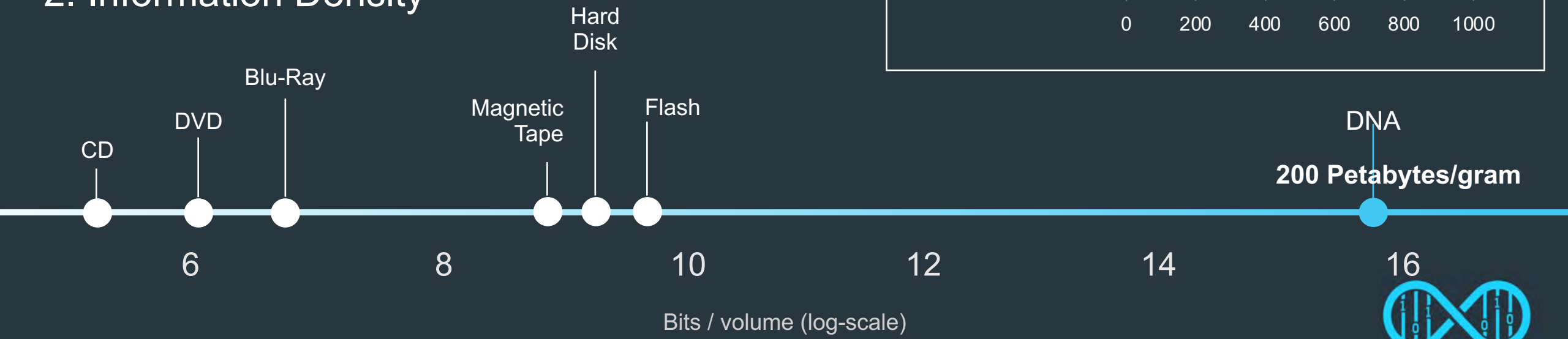


easily distributed

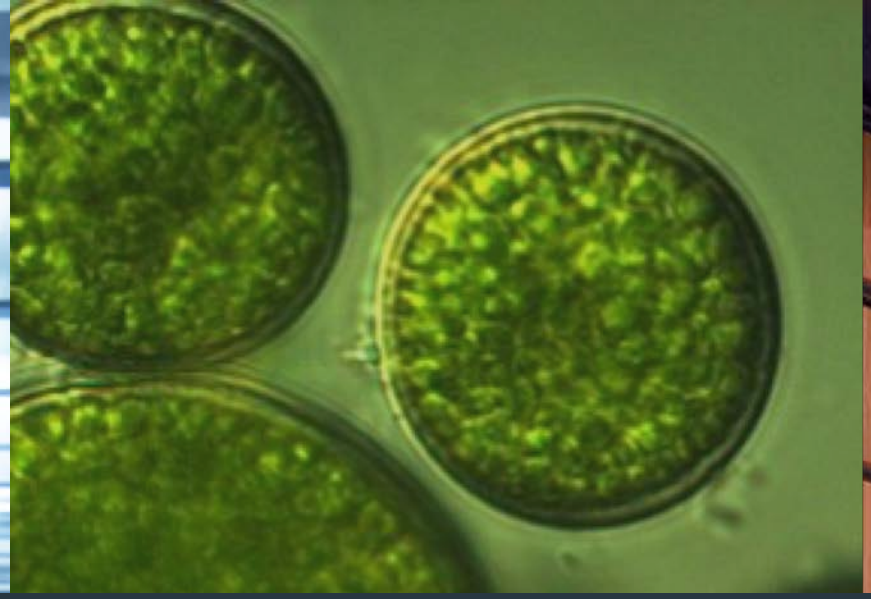
3. Stability



2. Information Density



Adapted from Church et al., Science, 2012

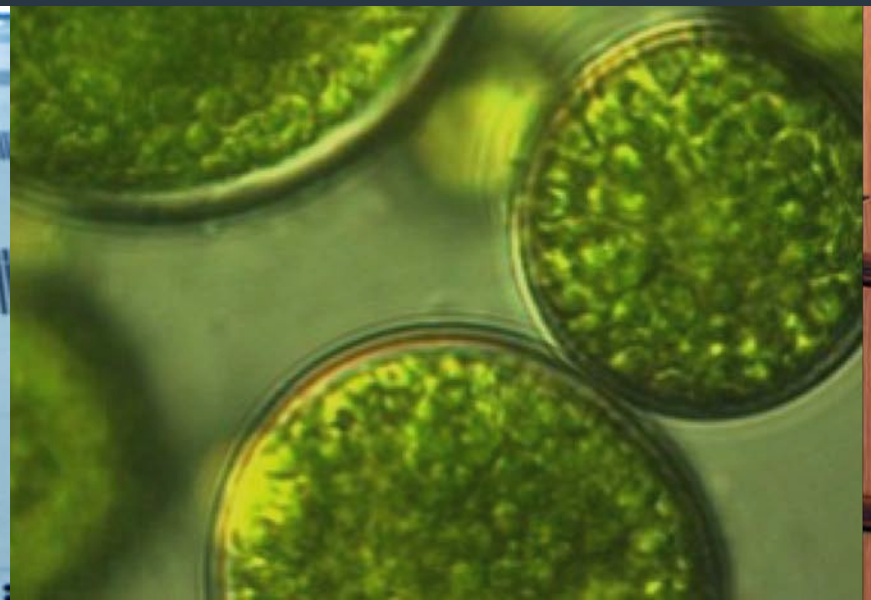


Ideal qualities of a high performance computer

Highly Parallel

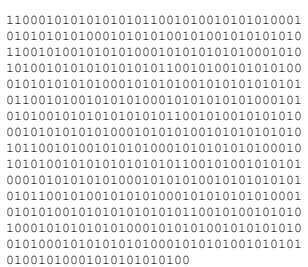
Low Power

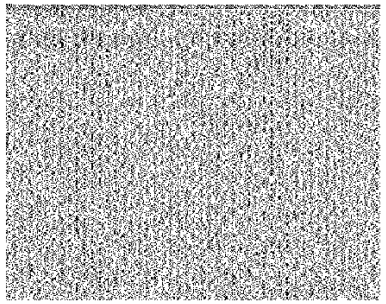
Non Volatile



UI

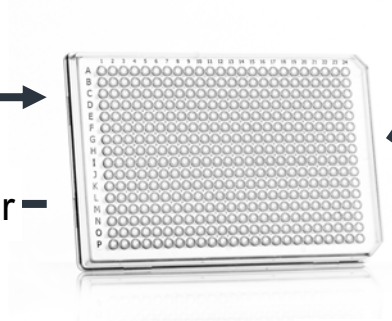
Encoding scheme





Writer

Sequencer



Store

Access

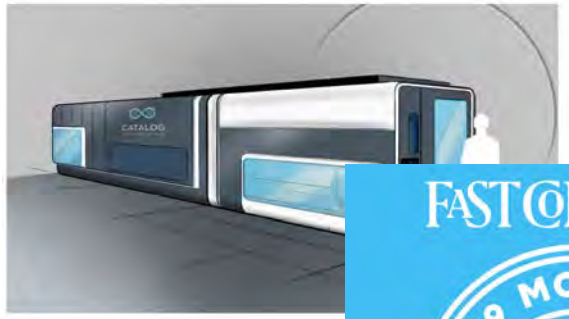
Transport

Copy

Compute

CATALOG

MIT Technology Review



Rewriting Life

The DNA data storage machine that's the size of a school bus

A startup's concept drawing of a hulking device to archive data in DNA molecules shows the idea has a way to go.

by Antonio Regalado October 2, 2018

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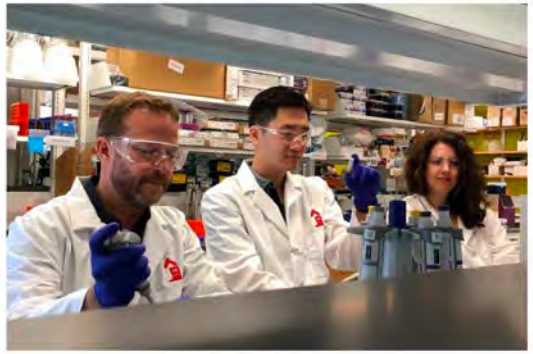
Catalog Hauls In $9M to Make DNA-Based Data Storage Commercially Viable



Jeff Engel
June 26th, 2018

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Virtuous spirals

DNA may soon be used to store computer data

But it is not just a question of base pairs becoming bits

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IS THE oldest information-storage system known. It predates ery other, from pencil and paper to computer hard drives, by of years. But attempts to employ it to store data generated by as opposed to data needed to bring those people (and every other ing) into being in the first place, have failed.

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Data Storage Is Becoming a Massive Problem. DNA May Be the Answer

DNA has the potential to be a million times more powerful than current technologies

By Greg Satell @Digitalhonte

WIRED

The Rise of DNA Data Storage

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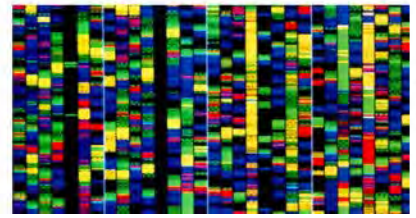

ChosunBiz

인공DNA에 담는다, 전세계 데이터를 페트병 하나에 쏙

QUARTZ

CATALOG IT

Storing information on DNA is now cheap enough to be viable

By Katherine Ellen Foley June 28, 2018

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The next big thing in data storage is actually microscopic

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OS FUND
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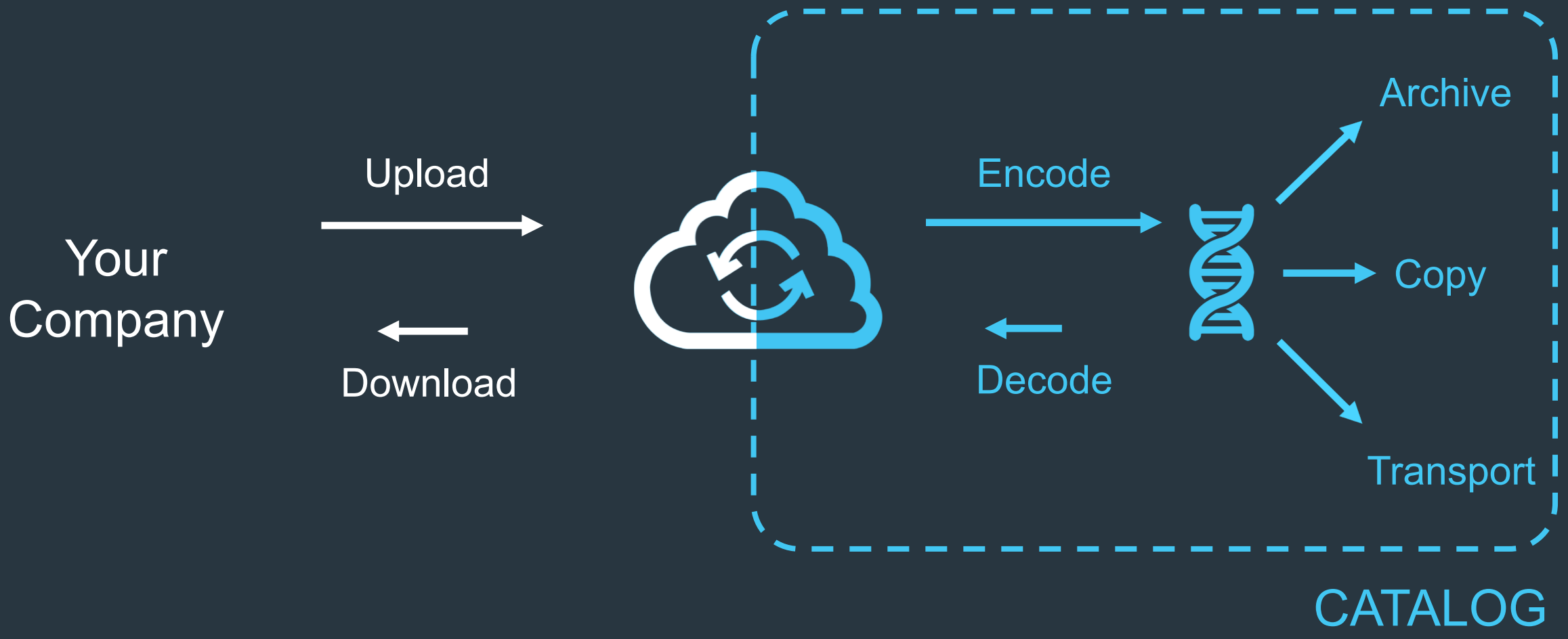
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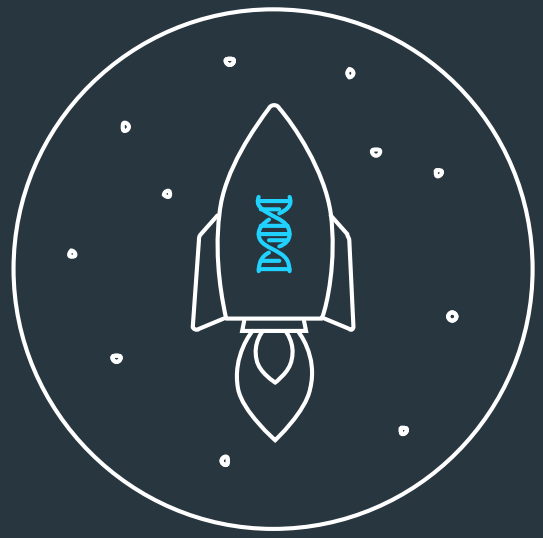
Beyond Archival Storage