



DNA Data Storage Alliance

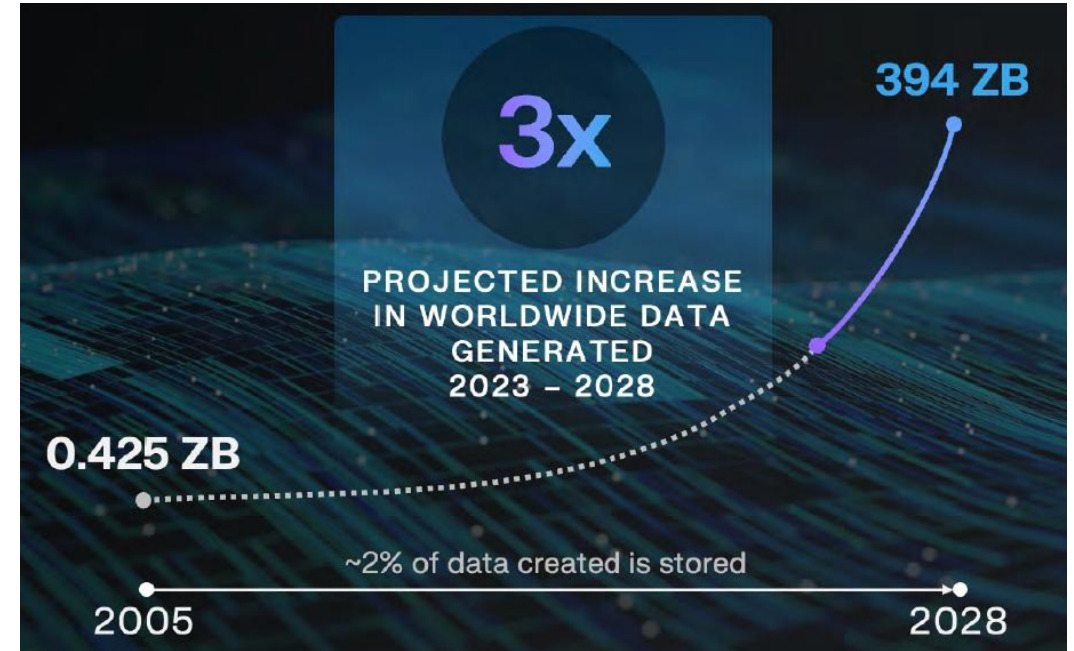
2025 Review and 2026 Plans

Presented by Dave Landsman, Chair

Email: ddsa-chair@snia.org

Why are SNIA and DNA Data Storage Alliance a great fit?

- ❖ “Save/Discard Dilemma”
 - ❖ Increasingly expensive, impractical to save all we want with existing storage technology
 - ❖ AI/ML adding to quantity of data to be saved and creating higher opportunity cost of throwing it away
- ❖ It’s not purely about the zettabytes
 - ❖ Digital archivists want to save culture, history, law, etc. forever; longevity can be a value unrelated to quantity
- ❖ We need archival storage media with lower TCO
 - ❖ Orders of magnitude more dense
 - ❖ Durable for decades at room temp
 - ❖ Zero power at rest
 - ❖ No technology migration required



Source: Worldwide IDC Global DataSphere Forecast, 2024-2028, doc #US52076424, May 2024

DNA data storage is a compelling potential storage solution and SNIA is all about storage

Mission: Create an interoperable storage ecosystem based on DNA as a data storage and compute medium

What we do to achieve our mission

- Educate the market to create awareness and adoption of DNA data storage and compute
- Influence and drive R&D and funding
- Develop standards and specifications to encourage ecosystem evolution

Specs and White Papers

- [An Introduction to DNA Data Storage](#) (Jun-2021)
- [Sector 0](#) and [Sector 1](#) - DNA Rosetta Stone (Jun-2023)
- [DNA Stability Evaluation Method v1.0](#) (Sep-2024)
- [DNA Data Storage Codecs](#) (Jun-2025)
- [DNA Data Storage Technology Review](#) (Jun-2025)
- [Biosecurity Regulatory Policy Position](#) (Oct-2025)

2025 Events

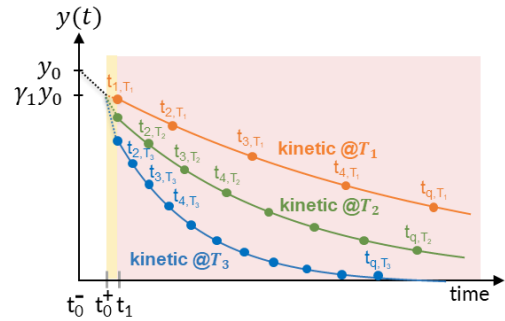


40+ members; about 50/50 academic/industry



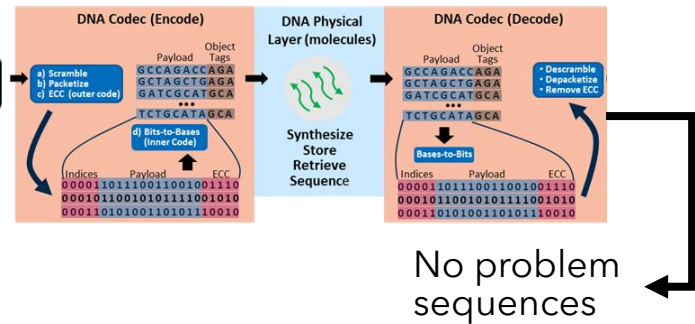
2026

Data Retention



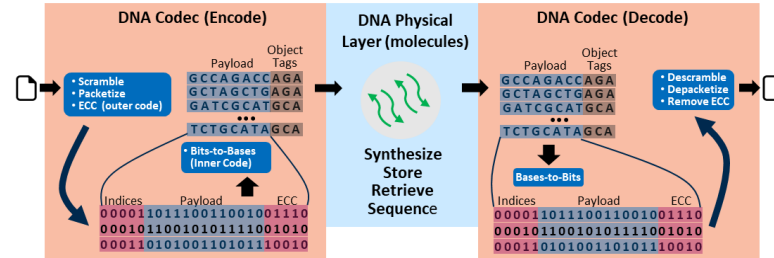
- Update on DNA Data Stability Method (verifying hermetically sealed DCSs)

Biosecurity



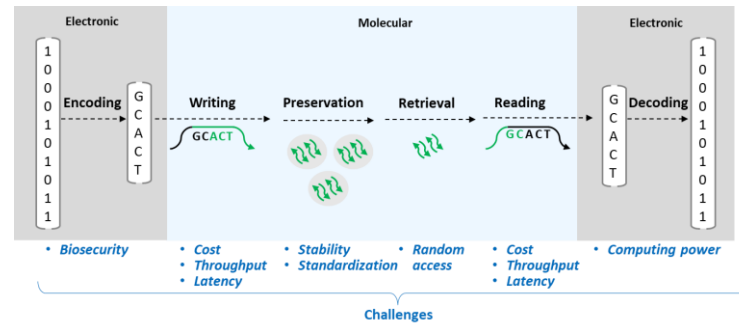
- Engage regulators (EC and US); US LoC has data on current SOC screening burden

Codecs



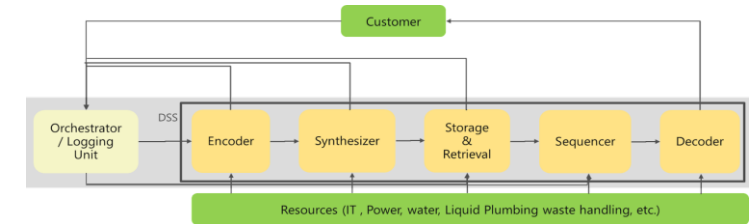
- TBD (e.g., write verification, Rosetta 2.0)

Roadmaps



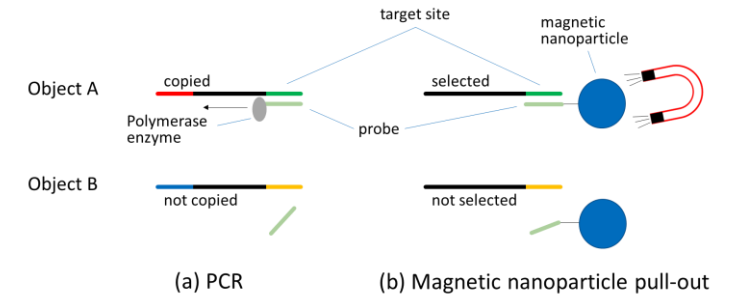
- Contributions to Springer DNA data storage text book & IEEE Mass Storage Roadmap

Interoperability



- Approve Swordfish template for DNA in the datacenter

Random Access/Addressability



- Publish paper (SNIA and in a journal)

Storage and Computing with DNA 2026



- 📍 Rome, Italy
- 📍 University of Roma Tre (Aula Magna Rettorato Roma Tre)
- 📍 Wed-Friday, May 27-29
- 📍 Pre-registration open <https://scdna26.day-one.biz/>
- 📍 Call for presentations soon



Community in 2026

- Expand collaboration, external to and within SNIA
 - Storage and Computing with DNA 2026 - Rome, May 27-29
 - In concert w/ DigNA (EU initiative on DNA data storage)
 - Publish swordfish schema
 - In concert with Swordfish TWG
 - Engage with community on archival storage initiative
 - Cerabyte has led BoFs at SDC, iPres, and others planned
 - Might be right year to launch Archival Storage initiative within SNIA
- Exploring other ways to help ecosystem and develop Alliance
 - Planning a member survey
- Organization
 - Dave Landsman retiring as of Jan-31-2026; Bill Martin will become WD rep on Alliance Community Board
 - Robertas Skliaustas (Genomika), Vincent Franceschini (Biomemory) take on Alliance Community co-chair roles

SNIA



THANK YOU

Come join us:

URL: www.snia.org/groups

Email: dds-chair@snia.org

LinkedIn: @dna-data-storage-alliance

Organization	
Community Board	<ul style="list-style-type: none">• Robertas Skliaustas (Genomika) - co-chair• Vincent Franceschini (Biomemory) - co-chair• Marthe Colotte (Imagene)• Roger Rudoff (Atlas Data Storage)• Julien Muzard (Entegris)• Alessia Marelli (Avaneidi)• Bill Martin (Western Digital)
TWG	<ul style="list-style-type: none">• TWG: Robertas Skliaustas, Vincent Franceschini• Sub-group - Data Retention: Marthe Colotte• Subgroup - Codecs: Manish Gupta
SIGs	<ul style="list-style-type: none">• Biosecurity: Dominique Loque• Roadmaps: Board (for now)• Random Access/Addressability<ul style="list-style-type: none">• Albert Keung• Natalio Krasnogor