

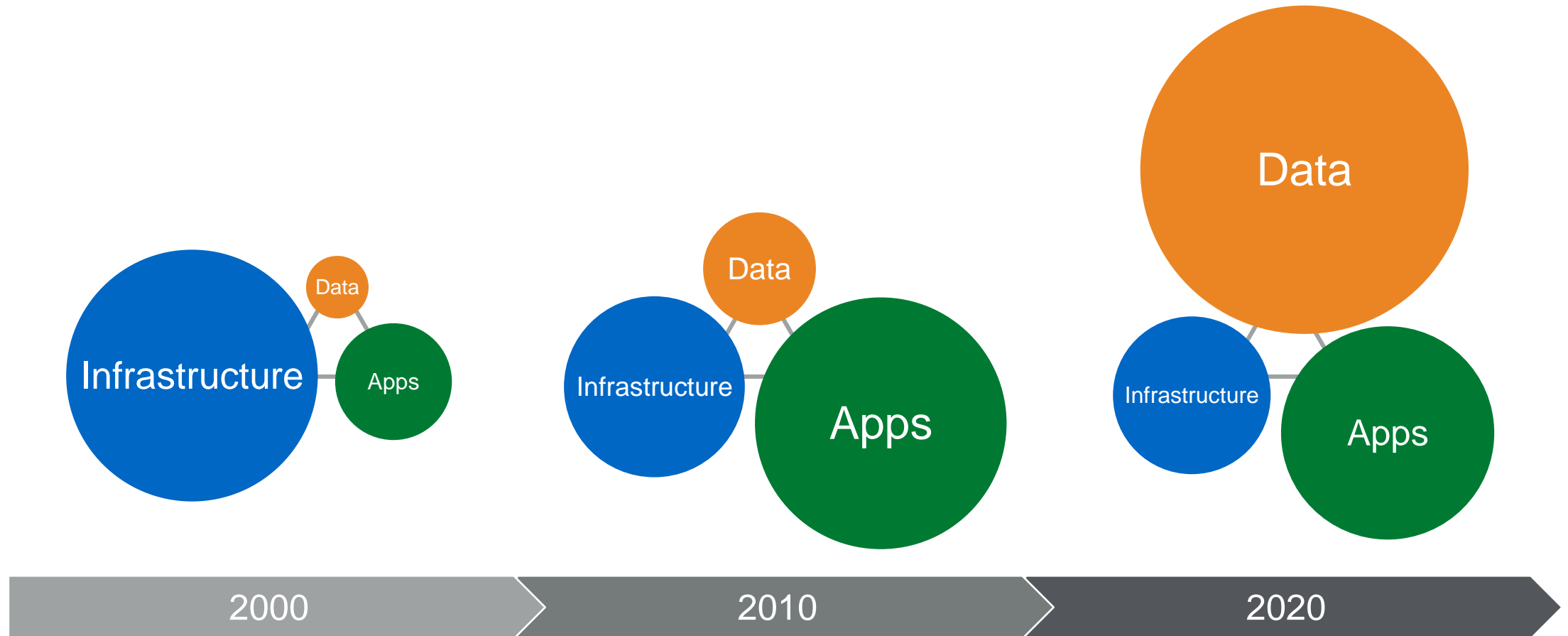
Distributed Storage Systems for Smart Cities

Yuriy Shyndak, NetApp System Architect



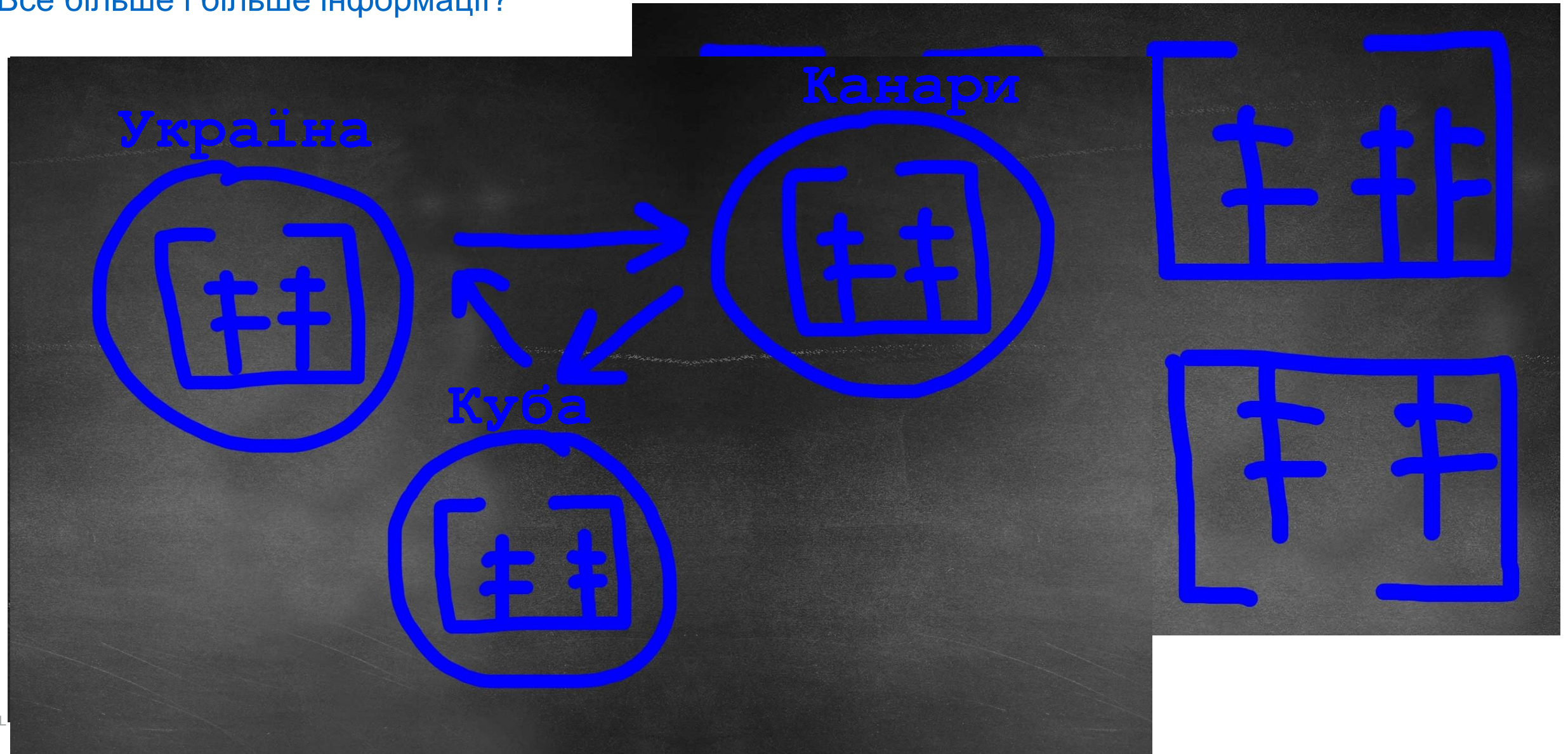
Безперервний ріст затрат на керування даними

Безперервний ріст даних

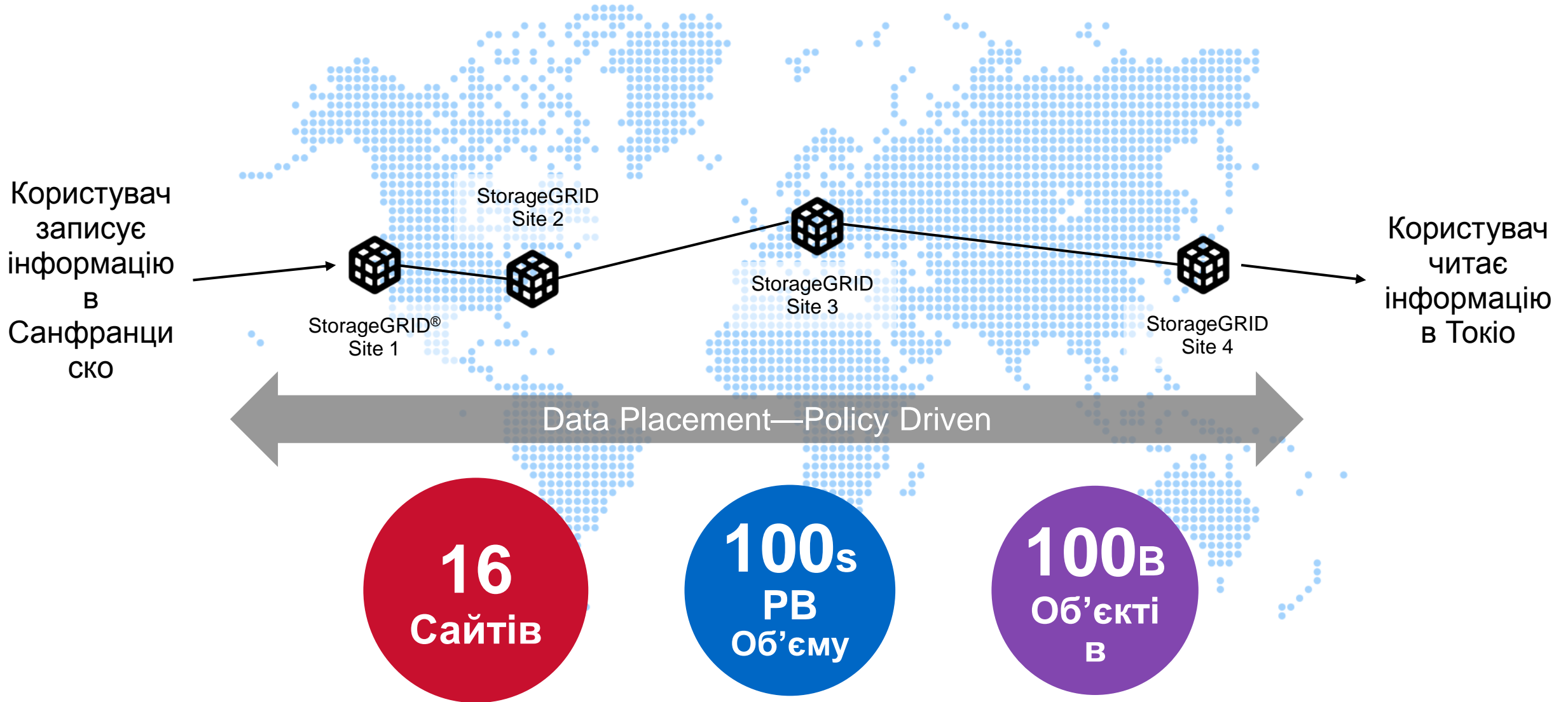


Що буде з СЗД якщо в неї безкінечно писати?

Все більше і більше інформації?



Глобальна масштабованість



Принципова різниця між файлами та об'єктами

ФАЙЛ



Type: GE PACS
Created: 11-14-10
Location: f:\patients\R\Ray_Francis\scapula\front_left
Owner: Dr Christian Anderson
Size: 24.2M
Last Accessed: 11-16-10

ОБ'ЄКТ



Type: GE PACS
Created: 11-14-10
Owner: Dr Christian Anderson
Technician: Lola Smith
Size: 24.2M
Last Accessed: 11-16-10
Patient: Francis x. Ray
DOB: 9-17-67
Sex: M
Injury Date: 11-14-10
Injury Type: Fracture
Anatomy: left scapula
View: rear
Object ID: 6deiyrfyewek547f2cgksddgsdd7
Retention: 220147200 (7 years)
Archive = yes
Description: front left scapula

Як зберігати петабайти інформації з метаданими ?



МЕДІА



Георозподілені
дані



Інтернет Речей

NetApp StorageGRID: необмежений ріст даних



Відкритий

Захист інвестицій



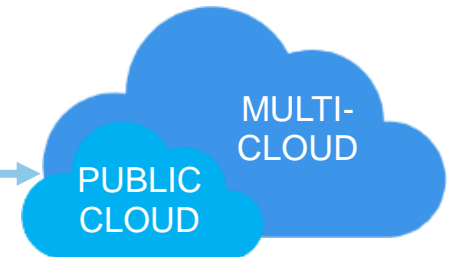
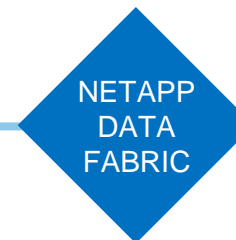
Оптимізований

Реалізуйте різні рівні сервісу



Розширюваний

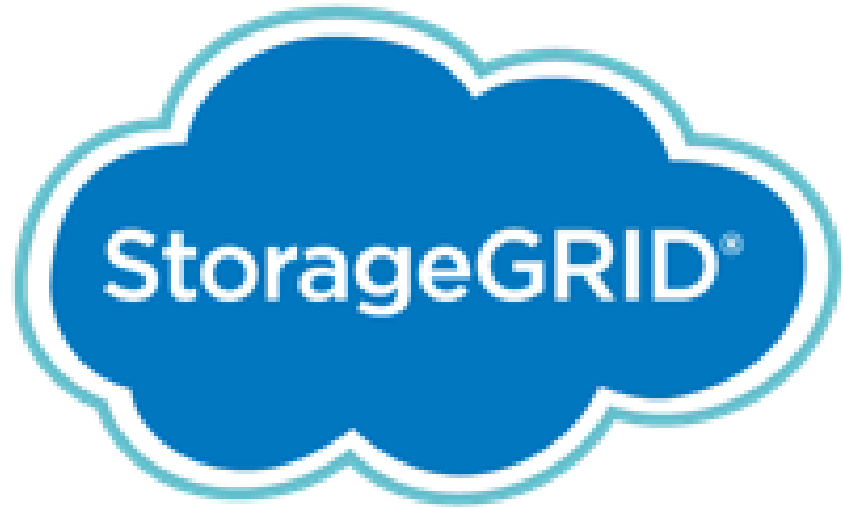
Будуйте мости до хмар ☺



НОВИЙ

StorageGRID 6000 Series

Поширюємо лідерство на високонавантажені інфраструктури



Новий NetApp® StorageGRID® SG6060 націлений забезпечити підтримку самих високонавантажених інфраструктур.

Рішення закриває задачі зберігання даних та доступу до даних в розмірах та продуктивності не доступній традиційним архітектурам.

Розширення: будуйте по справжньому гібридну хмару



Цінність StorageGRID



5 hours

І ваш
розподілений
СЗД працює
в трьох
геолокаціях

**ZERO
TOUCH**

Не витрачайте
час на
керування
даними



100%

Гнучкість при
впровадженні з
точки зору часу
та вартості

Історія успіху з StorageGRID

Walt Disney

- **About the customer:** Disney Prospect Studios is a cluster of buildings containing several television studios located in the Los Feliz neighborhood of Los Angeles. For over fifty years, this facility served as the West Coast headquarters of the American Broadcasting Company, before the network moved its main headquarters to the Walt Disney Studios in Burbank, California.
- **About the win:** Disney Prospect Studios enlisted NetApp to implement StorageGRID Webscale as the object store backbone behind the customer's media asset management (MAM) infrastructure
- **Use Case:** Media asset management (MAM) infrastructure



Історія успіху з StorageGRID

STAPLES

- **About the customer:** [PNI Digital Media](#) generates and transacts personalized content orders on behalf of the world's largest retailers via proprietary online, kiosk and mobile software
- 19,000 retail locations and 8,000 in-store kiosks powered by PNI, generating more than 18 million transactions for our retail partners
- The PNI software platform allows leading retailers to offer photo prints, personalized photo books and photo calendars, wedding invitations, greeting cards, and business cards
- **Use case:** Photo/Media Storage. PNI, now part of Staples, provides the complete workflow from customer photo upload to kiosk photo delivery for several major retail chains. When you order prints from your uploaded photos at many retail chains, you are using this service. Key drivers: manageability at scale, S3, data management



Історія успіху з StorageGRID TELUS

- **About the customer:** One of Canada's leading national telecommunications companies, TELUS delivers data, IP, voice, entertainment, and video services over 12 million consumer connections.
- **Business Challenge:** Telus was looking for a scalable solution to address their Object-based cloud services.
- **Use case:** Geo dispersed (East coast + West coast) object-based cloud storage service. 1PB storage per site.



Історія успіху з StorageGRID

The Ministry of Environment and Urban Planning

- **About the customer:** [Republic of Turkey Ministry of Environment and Urbanization](#) – The Ministry of Environment and Urban Planning is a government ministry office of the Republic of Turkey, responsible for the environment, public works, and urban planning in Turkey. Their mission is to fulfill the works and services regarding planning, construction, transformation and environment management in order to supply cities having high quality of life and sustainable environment with regulatory, supervisory, participatory and solution-oriented perceptions.
- **Use Case:** On Premise backup / archive solution



Історія успіху з StorageGRID

US Department of Veterans Affairs

- **About the customer:** The [US Department of Veterans Affairs](#) administers health benefits to service members and their families earned throughout their military service to the United States. To ensure that patient medical records are available to help make timely and accurate patient care decisions, the US Department of Veteran Affairs employed the VistA Imaging system to help VA hospitals achieve an enterprise-wide paperless and filmless Electronic Health Record, integrating clinical images, scanned documents, and other non-textual data into the patient's electronic medical record.
 - The VistA Imaging system requires regular evaluation to ensure the systems expanding storage needs are met, which currently:
 - Tracks and manages more than 1.3 million unique patients every month
 - Captures forty million new images each month
 - Provides views of nine million to fifteen million images per month
 - **Description is copied from a case study on [Merlin external web](#);*

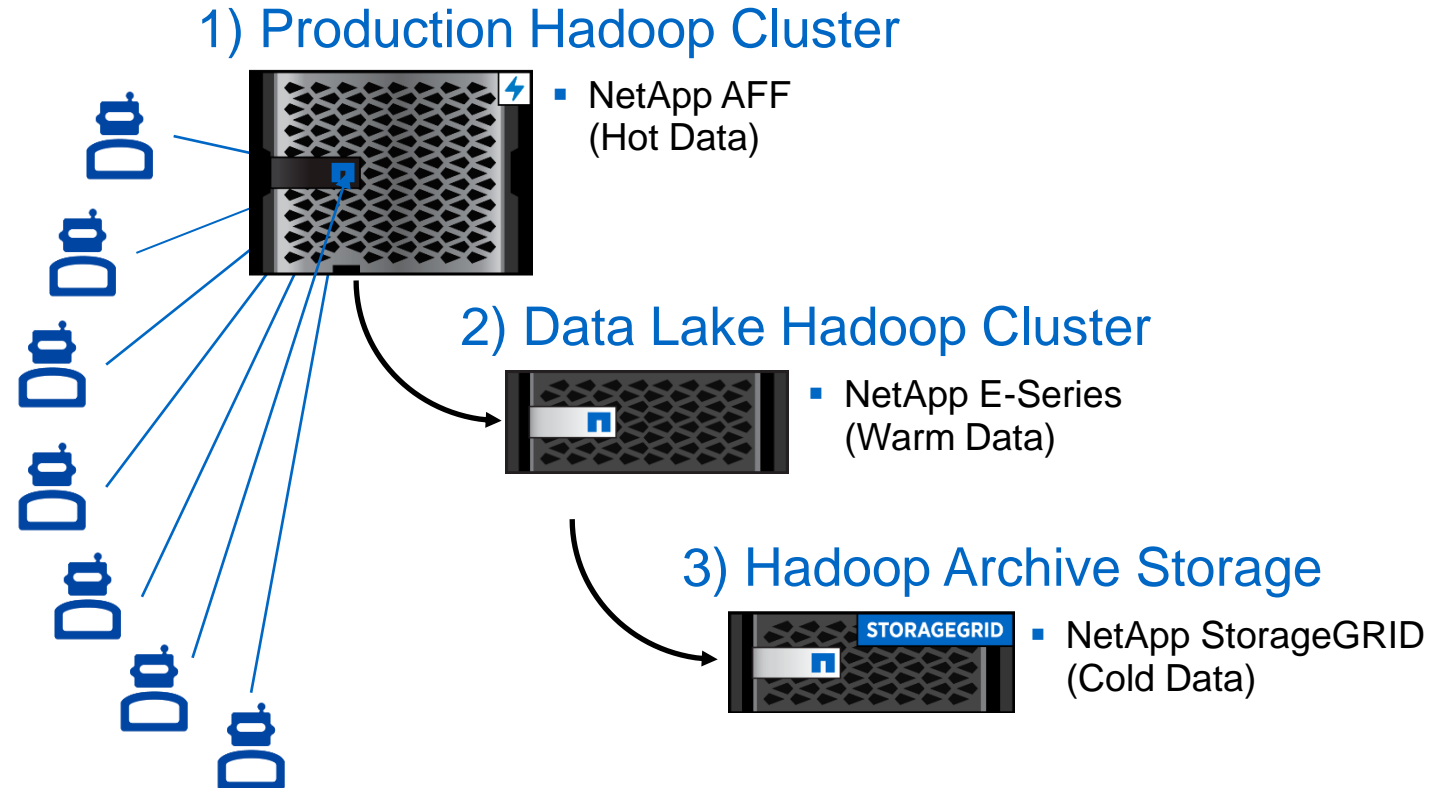


Історія успіху з StorageGRID

NetApp: Internet of Things (IoT)



- The challenge
 - Cost-effective solution for 7 billion data points received from NetApp® IoT assets every day
- The solution
 - NetApp StorageGRID® for IoT
- Customer benefits
 - Reduction in licensing fees for archived data
 - Reduction in storage footprint for the most active data
 - Simplicity: Native S3 API for analytic workflows



Дякую!

