Welkom

Green Benefits of Data Archiving

Steve Peirce, Head of Sales - TJC Group

TJC GROUP

BECAUSE YOUR DATA MATTERS

TJC Group – Introduction

AREAS OF EXPERTISE

1) SAP Data Archiving & SAP ILM

2) GDPR SAP Data Management

3) Legacy System Decommissioning

4) Compliancy: Tax & Audit Readiness

SAP Silver Partner

Available on the SAP App Center

Agenda

- **Green Business & Sustainability in The Netherlands**
- **Reducing TCO with Archiving**
- **Case Study**

  Carlsberg Group

  Energy Savings through Data Archiving
- **Decommissioning Legacy Systems**

Green Business & Sustainability in The Netherlands

Global Industry Energy Usage

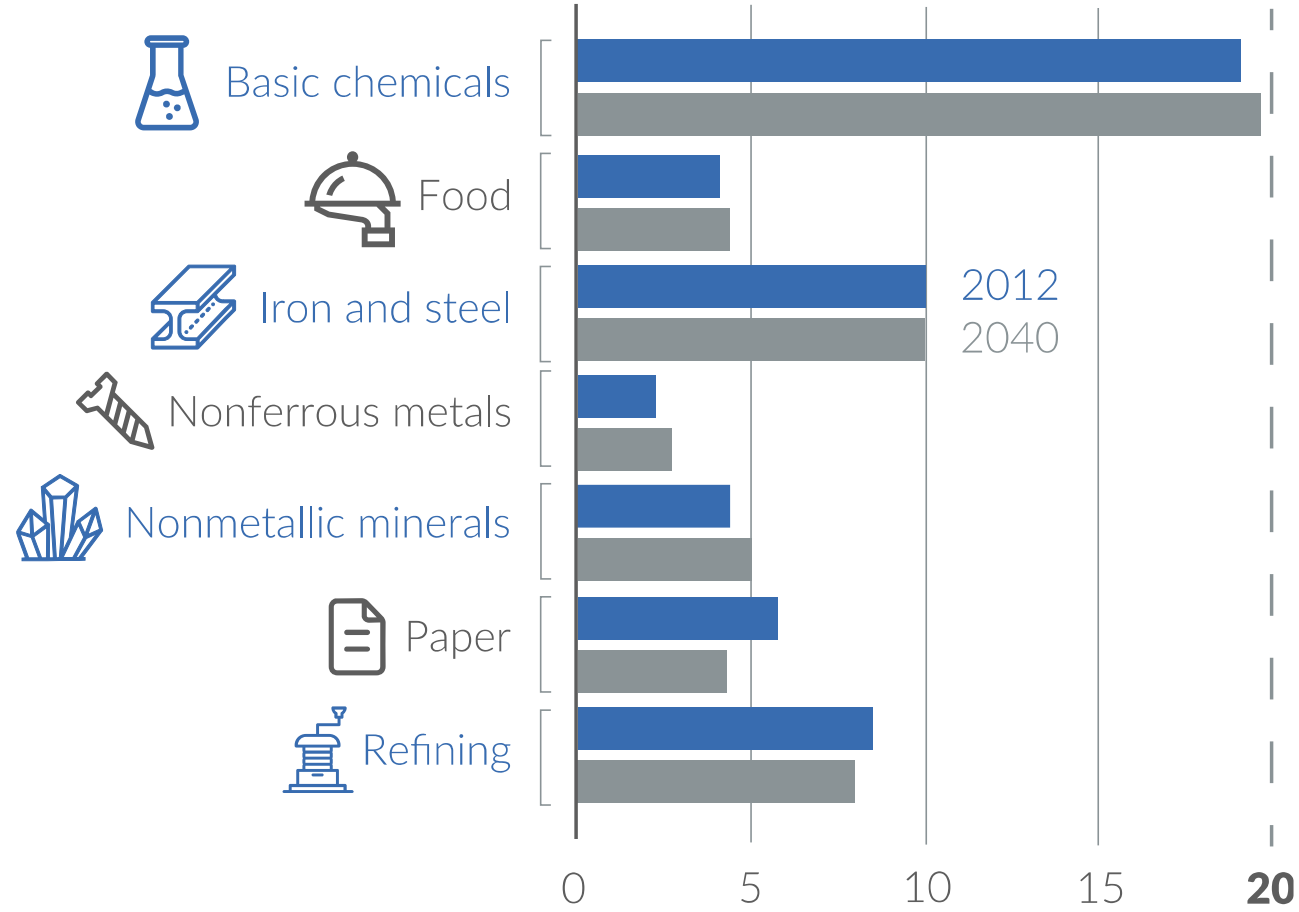
Data centres are predicted to use **20%** of the world's electricity by **2025**, more than any other sector.

COMPARED TO OTHER INDUSTRIES

OECD
Organisation for Economic Co-operation and Development

Energy-intensive industries
Industrial sector energy consumption

2012 and 2040 (% of total)



Source: https://www.researchgate.net/publication/320225452_Total_Consumer_Power_Consumption_Forecast

Linear vs Circular Economy

LINEAR ECONOMY

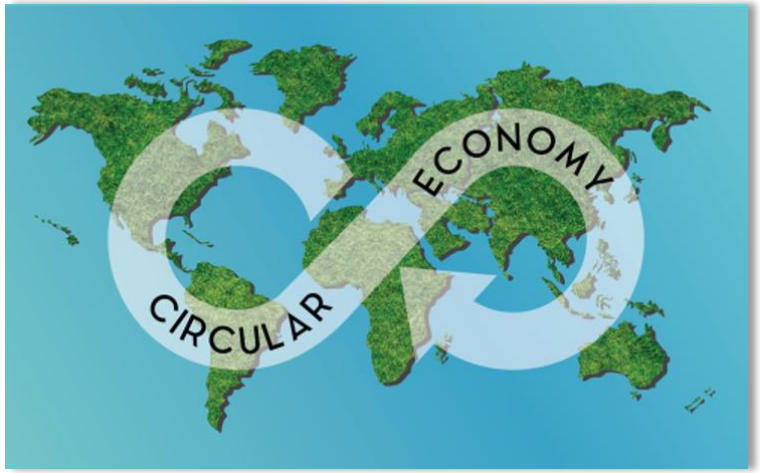
Materials in a **Linear Economy** create waste after use.

VS.

CIRCULAR ECONOMY

Materials in a **Circular Economy** are collected and reused after each use.

NL – A Key Player in the European Green Agenda



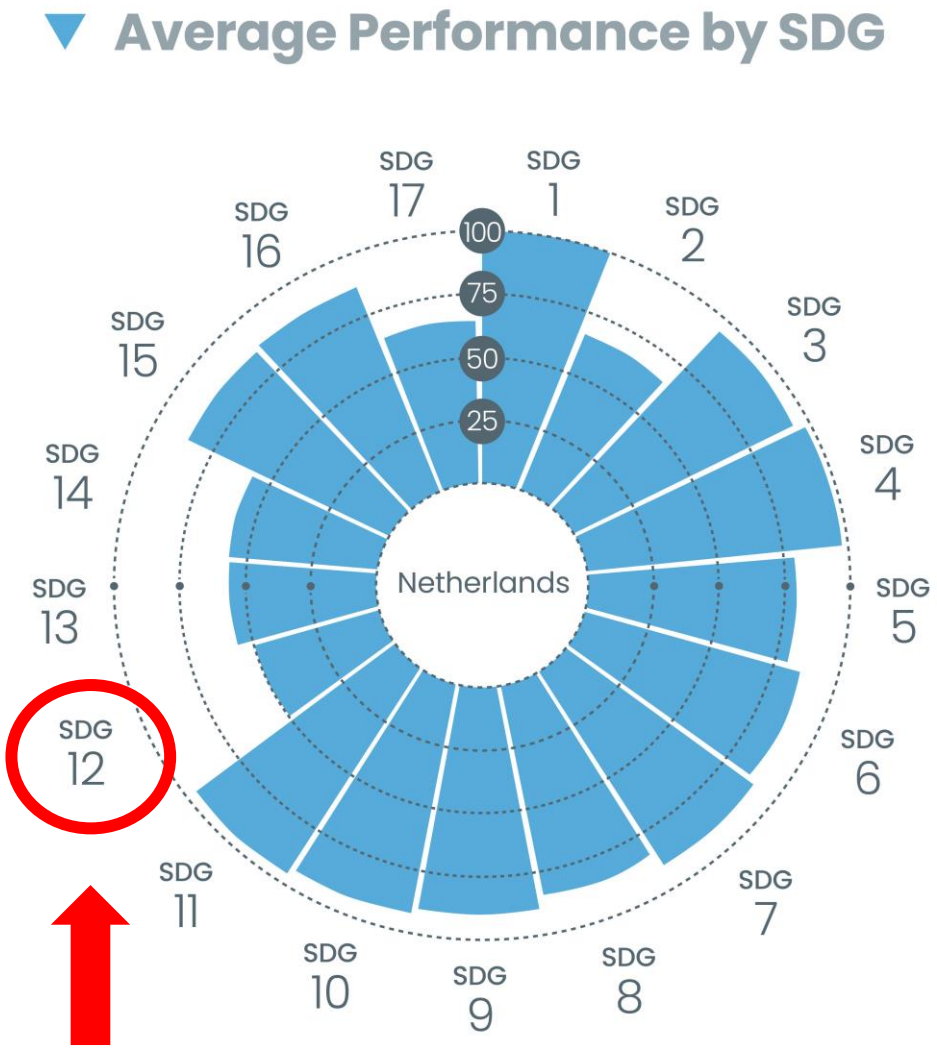
European Green Deal

A growth strategy to transform the EU in a climate neutral and circular economy, while preserving Europe's competitiveness.

The Green Growth Group

Climate Ministers from 15 EU Member States (**Netherlands**, Ireland, Germany, France, Italy, Spain, Belgium, Portugal, Sweden, Denmark, Finland, Slovenia, Estonia, Luxembourg and Austria) as well as UK and Norway.

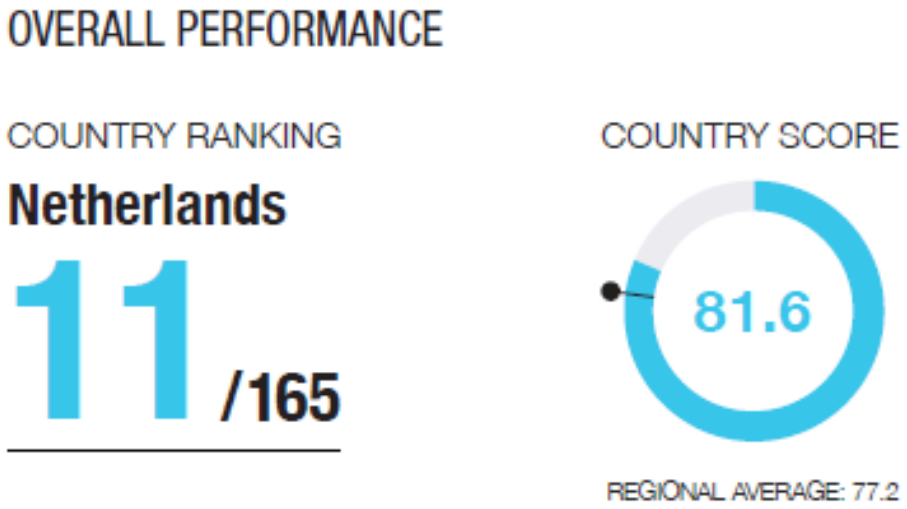
17x UN Sustainable Development Goals (SDGs)



NL Performance Against SGD Index

The SDG Index

"An assessment of each country's overall performance on the 17 SDGs, giving equal weight to each Goal".



Rank	Country	Score
1	Finland	85.9
2	Sweden	85.6
3	Denmark	84.9
4	Germany	82.5
5	Belgium	82.2
6	Austria	82.1
7	Norway	82.0
8	France	81.7
9	Slovenia	81.6
10	Estonia	81.6
11	Netherlands	81.6
12	Czech Republic	81.4
13	Ireland	81.0
14	Croatia	80.4
15	Poland	80.2
16	Switzerland	80.1
17	United Kingdom	80.0
18	Japan	79.8
19	Slovak Republic	79.6
20	Spain	79.5

Source: Sustainable Development Report 2021 by Jeffrey D. Sachs, Christian Kroll, Guillaume Lafortune, Grayson Fuller, and Finn Woelm

NL – Going Beyond the EU 2030 Targets

2015: **The Paris Agreement** was signed by 196 parties.

Long-term goals to reduce greenhouse gas emissions and limit global temperature increases

The Member States of the EU agreed to reduce greenhouse gas emissions by at least **40% by 2030**

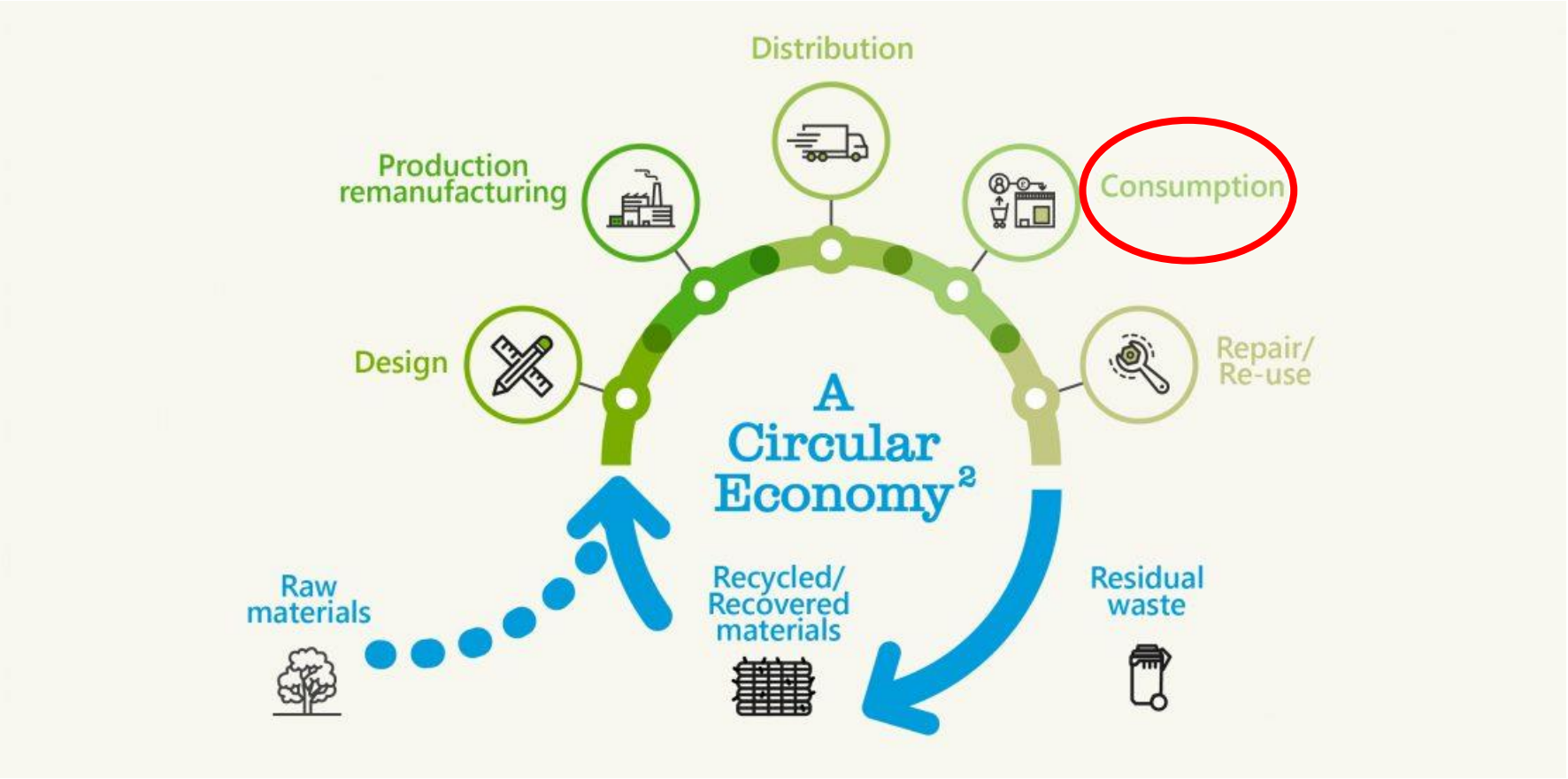
- Reducing greenhouse gas emissions by at least 40 %;
- Increasing the share of renewable energy to at least 32 %;
- Reducing the total energy use in the EU by at least 32.5 %.

HOWEVER

The Netherlands are leading the way and aims to raise the EU ambition for 2030 from 40% to **55%** emission reduction, compared to 1990

This demonstrates The Netherlands' commitment to sustainability and the environment

Where Does DVM Fit In?



- Energy Consumption
- Manufacturing

  (physical discs)
- Heating / cooling costs

  (server rooms)
- Server maintenance
- Waste / disposal costs

  (recycling hardware)
- Not JUST for Production

  Servers

Reducing TCO with Archiving

Total Cost of Ownership (TCO)

Depreciation

Storage capacity

memory, disk, CPU storage

Migration times

Tax compliance

Decrease the hardware infrastructure

Audit – Internal/External

Data Volume Management

Risk mitigation

Downtime

GDPR compliance

Regulatory, fines and penalties

ERP System performance

Energy consumption

Production Copies for Pre-Prod, QA, Dev etc.

Data privacy

ERP Optimisation

Backup times / Restore times

Industry Sector Regulation/compliance

Extended Record Retention

Duplicate Disaster Recovery system

Better Management of Data Storage

‘Information Week’ publication

Survey of over 300 IT professionals

- **52%** - annual storage growth rate was **10% to 24%**
- **17%** - annual storage growth rate was **25% to 49%**

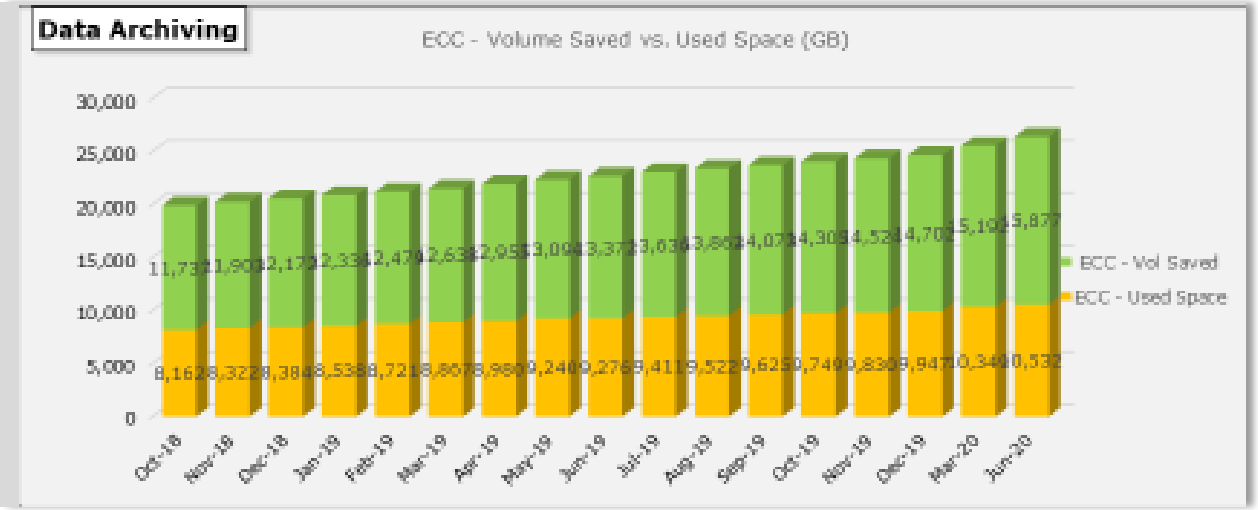
Best practices:

- Data Archiving & ILM
  - Inc. data compression & deduplication
- Storage Equipment That Uses Less Energy
  - Lower Speed Drives – slower speeds = less energy
  - Massive Array of Idle Discs (MAID) – shuts down idle discs
  - Solid State Drives (SSDs) – energy efficient BUT slower & more expensive
- Move to the Cloud?

Case Study
Carlsberg Group

Case Study

Monthly archiving KPI sheet APRIL to JUN 2020



21TB applying SAP's own compression information, this becomes **16TB** saved in the system

- **16TB** on Production
- **16TB** on DR system
- **16TB** on the PRE-PROD Copy
- **7TB** estimated on other copies

Therefore, total **55TB** is saved

Case Study

The current environment has **10.5TB** on the live database, which means the full storage is a multiple of **3.5** times across the landscape; that equates to **37TB** which is currently consuming energy.

….And archiving has saved **55TB**

That's **60%** of the TOTAL energy costs associated with data storage / data retention saved

This is a YEAR-ON-YEAR saving for the business

Using standard global pricing

BUSINESS SIZE	USAGE/ YEAR	UNIT PRICE/ KWH	STANDING CHARGE	COST PER YEAR
Micro Business	8,000 kWh	16.74p	27.40p	£1,439
Small Business	20,000 kWh	14.83p	26.83p	£3,064
Medium Business	40,000 kWh	13.68p	26.41p	£5,568
Large Business	80,000 kWh	12.93p	26.20p	£10,439

The average energy price is now **£0.13 / €0.15** per kWh for business users.

The standard calculation is **1 TB per year = 600kwh**

For **55TB** this equates to **€5,000** per year

Just in ENERGY used for DATA STORAGE!

Source: https://www.businesselectricityprices.org.uk/cost-per-kwh/

Benefits Realised by Carlsberg

HIDDEN BENEFITS

Environmental

- Manufacturing of the physical discs
- Heating / cooling costs server rooms
- Maintenance
- Waste / disposal costs

Operational

- Faster back up / restore times
- General performance improvements
- Preparing for move to S/4HANA

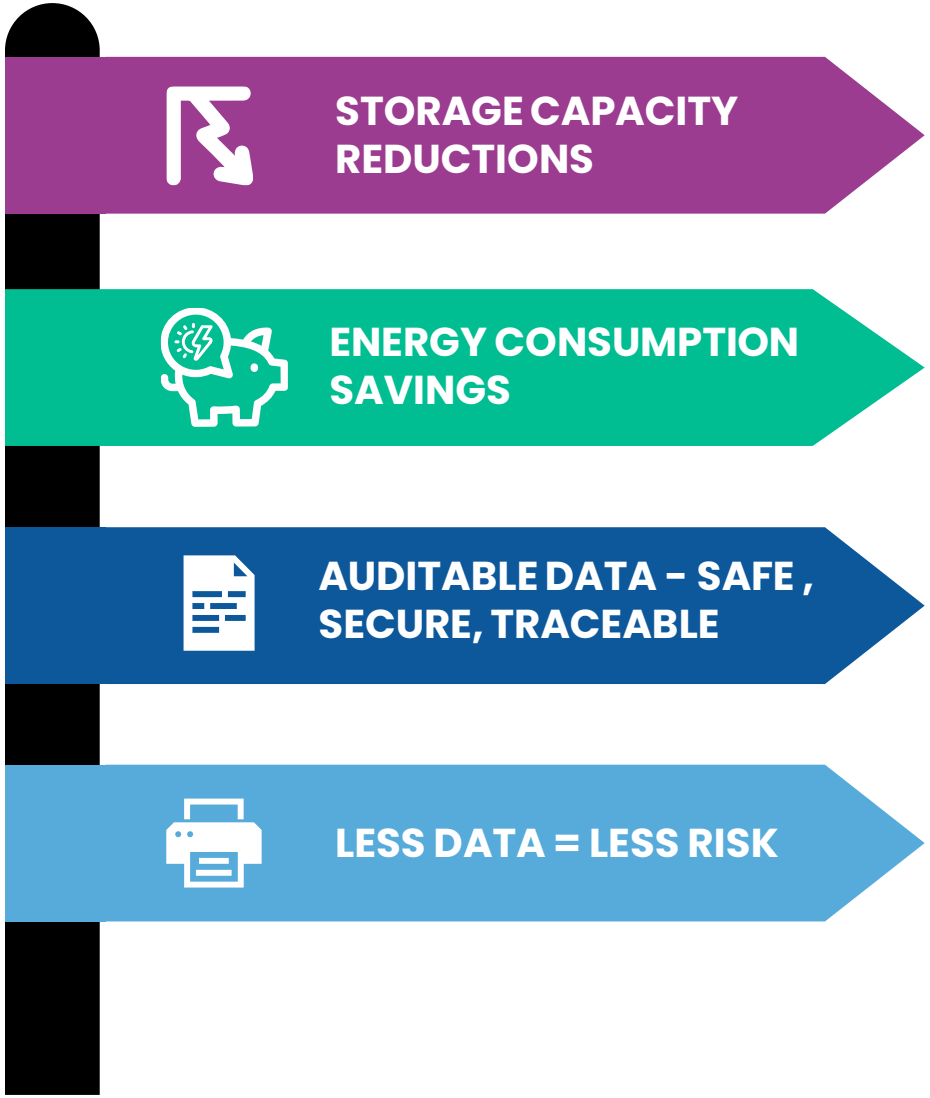
THE REAL HEADLINE

Cost of Storage (HANA, AWS……)

Average €31 / GB / year

Saving on the physical cost of data storage for **55TB** is……

Takeaways: Energy / Archiving savings



Carlsberg have achieved savings greater than **€2 Million** on their archiving projects by removing **55TB** into archive

Carlsberg has saved **60%** of their TOTAL energy consumption related to data storage based on the **55TB** archived

Securing data in to archive prepares it, using the standard **SAP technology**, for long-term retention and retains a clear audit trail of what was done, when and by whom

Archiving/ILM as the key platform means retention & deletion are automated to reduce risks of non-compliance to GDPR

Decommissioning Legacy Systems

POLL

Are you planning to retain your Legacy Systems or decommission?

< SAP or Non-SAP >

A) Retain

B) Decommission

C) We have already decommissioned

D) Not sure

Why Should I Decommission my Legacy Systems?

OLD DATA

A system that no longer retains the current/active business data for day-to-day transactions

READ ONLY

A ‘read-only’ system that has historical data, typically to respond to tax, regulatory and compliance enquiries

COST

A system that incurs ongoing costs:

Licencing

Hosting/data centre costs

IT support and maintenance

OLD TECHNOLOGY

Unsupported applications and old technology

Cannot guarantee that data can be accessed to avoid penalties and fines

Decommissioning to the Cloud

The cloud vs traditional data centres / on-premise servers

- Up to 93% more energy efficient
- Can generate up to 98% less carbon emissions

These savings can be attributed to four key factors:

- IT Operational Efficiency
- Equipment Efficiency
- Data Centre Infrastructure Efficiency
- Renewable energy

What if you have 2, 5, 10 legacy systems across the business?

The Hidden Cost of Legacy IT

31% LEGACY SYSTEMS

50% BLOCKS PROGRESS

70% ALLOCATED IT BUDGET

90% PREVENTS GROWTH

What does it all mean?

- Impaired productivity
- Increased security risks
- Difficulty analysing data
- Limits innovation due to inflexibility

Source: https://www.audacia.co.uk/blog/cost-of-legacy-systems

Simplify IT Environment to Save Cost

RETAIN

- SAP Licences
- SAP support
- OS support
- Retain experts to understand system
- Upgrades and Basis/Admin
- Energy/Datacentre costs
- Security/Access control/authorisations

High Cost

especially for older systems

VS

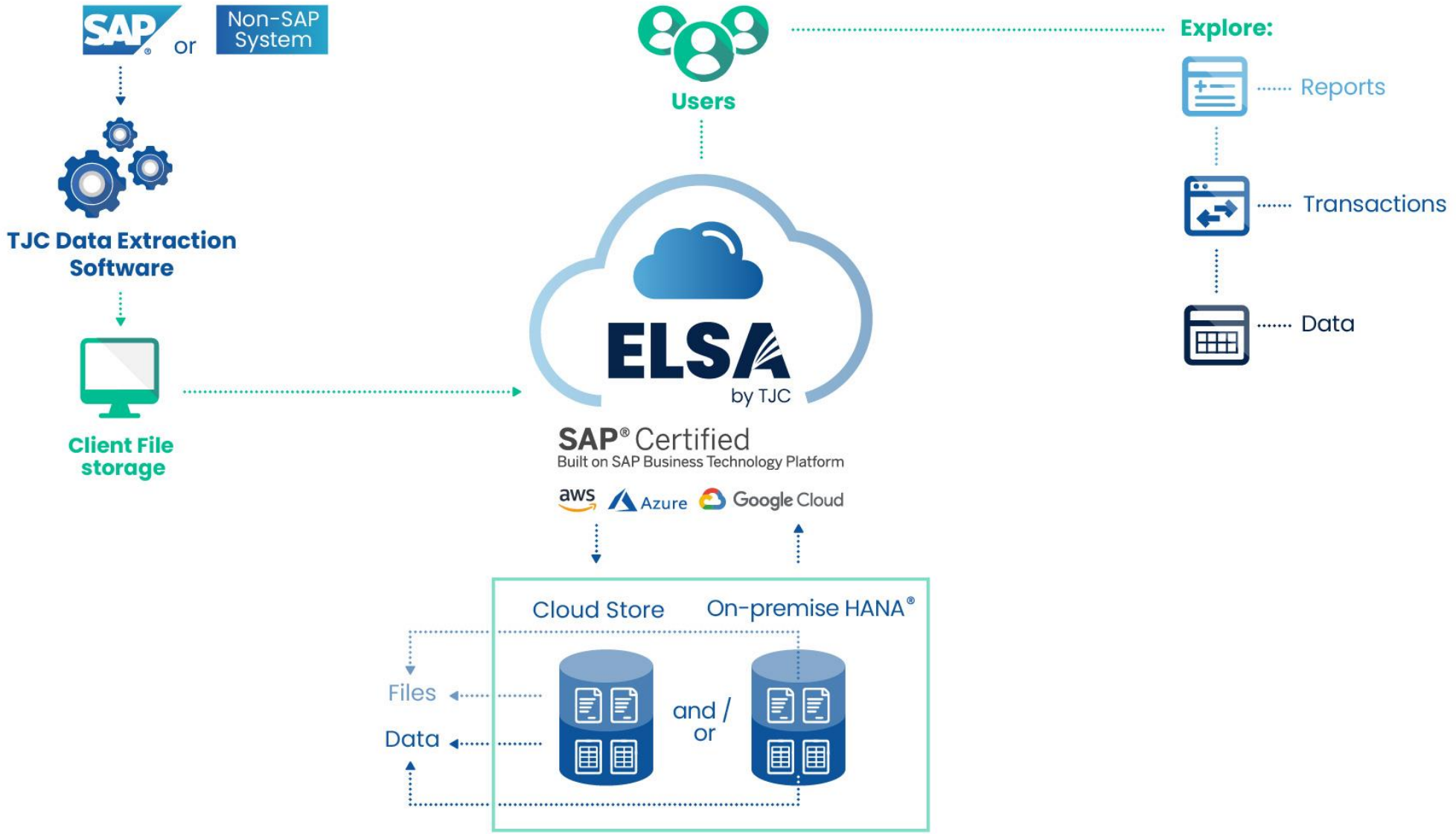
Low cost

typically 70-80% less cost

DECOMMISSION

- Extract 100% of data via CSE (Complete System Extraction)
- Secure data in Cloud repository (SAP Cloud Platform)
- Ensures secure remote access with easy-search
- Reduce risk of non-compliance

Your decommissioning process with TJC:



Searching for Archived / Decommissioned Data

SINGLE SEARCH

Sales Order Demo — Graham LITTLE

Sales Document: 8330...8333 1 More | Sales doc. type: | Created On: | Sales Org.: | Distr. Channel:

Selection Criteria: All Sales Order | Data Source: SAP Archive 2 More | ELSA Workspace: D60 | Adapt Filters | Go

SAP Data (3)

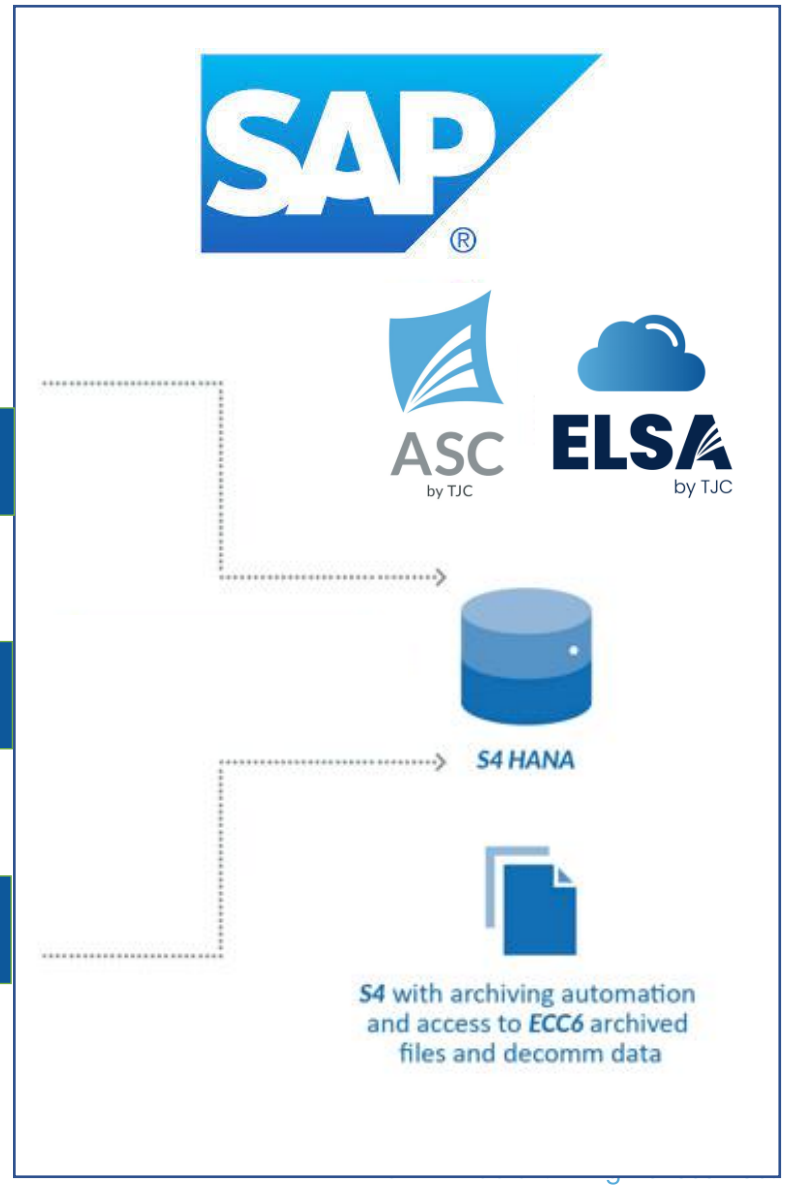
Sales Document	Sales Document Type	Document Category	Doc. Date	Sales Organization	Distribution Channel	Net Value
1000	OR	C	Mar 22, 2016, 12:00:00 AM	1710	10	239750.000
8332	OR	C	Jul 22, 2016, 1:00:00 AM	1710	10	16.900
8333	ZOR	C	Jul 22, 2016, 1:00:00 AM	1710	10	1.150

ELSA Data (4) - (D60)

Sales Document	Sales Document Type	Document Category	Doc. Date	Sales Organization	Distribution Channel	Net Value
8330	OR	C	Dec 4, 2002, 12:00:00 AM	1000	10	30820.000
8331	OR	C	Dec 4, 2002, 12:00:00 AM	1000	10	30820.000
8332	OR	C	Dec 4, 2002, 12:00:00 AM	1000	10	30820.000
8333	OR	C	Dec 4, 2002, 12:00:00 AM	1000	10	30820.000

Archive Data (2)

Sales Document	Sales Document Type	Document Category	Doc. Date	Sales Organization	Distribution Channel	Net Value
8330	OR	C	Jul 22, 2016, 1:00:00 AM	1710	10	209007.000
8331	OR	C	Jul 22, 2016, 1:00:00 AM	1710	10	38705.000



Bedankt voor je deelname

Bekijk op www.VNSGFocusOnline.nl welke sessies er nog meer zijn!

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