

FANS

Platform **Netværksmøde**

30/5-2024

Kl. 10.00 – 16.00

Frans.Holm@sas.com



Netværks anbefalinger

- Deltag fysisk
- Behold fokus – specielt virtuelt!
- Vær aktiv -> stil spørgsmål
- Netværk i pauserne

Planlægningsgruppen

Platform netværket

- Christian Handberg (DLR Kredit)
- Lars Hult (DLR Kredit)
- Jesper Ågård Larsen (BEC)
- Claus Hansen (BEC)
- Christian Christensen (SAS)
- Thomas Jacobsen (SAS)
- Frans Holm (SAS)

Dagsorden

- Velkomst
 - v. Frans Holm, SAS
- **Status på Viya4 migrering – Jyske Bank**
 - v. Birger Larsen, Jyske Bank
- Viya4 klienter
 - v. Cecily Hoffritz, SAS
- Pause (til ca. 11.40)
- AD Synkronisering
 - v. Lars Hult, DLR Kredit
- Nyheder fra Technology
 - v. Thomas Jacobsen & , SAS
- Frokost (til 13.30)

Dagsorden – efter frokost

- Nyheder fra SAS Innovate
 - v. Frans Holm, SAS
- Nyheder fra SAS Innovate
 - v. Claus Hansen, BEC
- Open Shift – Hvad giver det af udfordringer
 - v. Siro Bettio & René Dyrby, SAS
- Pause (til ca. 14.50)
- ~~Enterprise Session Monitor (In English)~~ [Developers.com](#)
 - ~~v. Georg Beevers, SAS~~ v. Joe Furbee, SAS
- Viya Workbench
 - v. Frederik Vandenberghe, SAS
- Afslutning
 - v. Frans Holm, SAS
- Cocktails på tag-terrassen
- Tapas & Netværk i kantinen

Status på Viya4 migrering – Jyske Bank

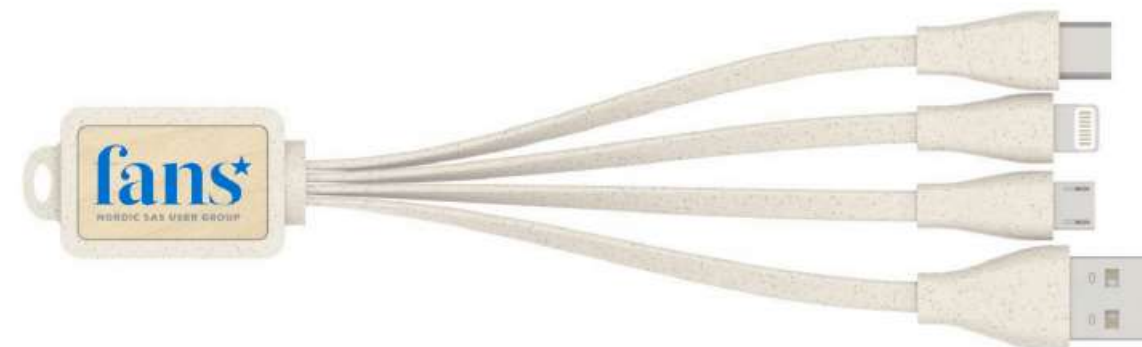
v. Birger Larsen, Jyske Bank

Velkommen

v. Frans Holm

Tak fordi du er taler
- **Vælg** 2 ting!!

- Vis det du arbejder med
= mindre forberedelse
- *Jeg vil gerne hjælpe med
præsentationen!*



Diverse Nyheder

Diverse Nyheder

<https://developers.sas.com/>



APIs ▾

Open Source ▾

Programming ▾

Explore REST APIs by Category

All APIs

Auto Machine Learning

Enables CRUD operations on automation ...

CAS

Cloud Analytic Services action and action sets

Compute and Jobs

Perform CAS Management, Jobs, and ...

Data Management

Manage all aspects of data quality, data ...

Fraud and Compliance

The SAS Detection API enables you to ...

Health and Life Sciences

CRUD operations for Health and Life Science...

Models and Decisions

Manage and publish models; decision flows ...

Platform Administration

High level tasks for authorization, files and ...

Visual Investigator

Manage data and workflows and search and ...

Visualization and Reports

Creates, reads, updates, and deletes reports ...

Do More with Open Source

Python

Explore libraries for SAS and Python integration

R

Explore libraries for SAS and R integration

Lua

Explore libraries for SAS and Lua integration

Java

Java APIs for using SAS Viva CAS actions

SAS Programming

SAS Viya Programming

Learn how to run SAS code on the SAS Viya platform

CAS Actions

Learn how to use CAS actions to load data, transform data, compute ...

SAS Extension for Visual Studio Code

Install the SAS extension for Visual Studio Code

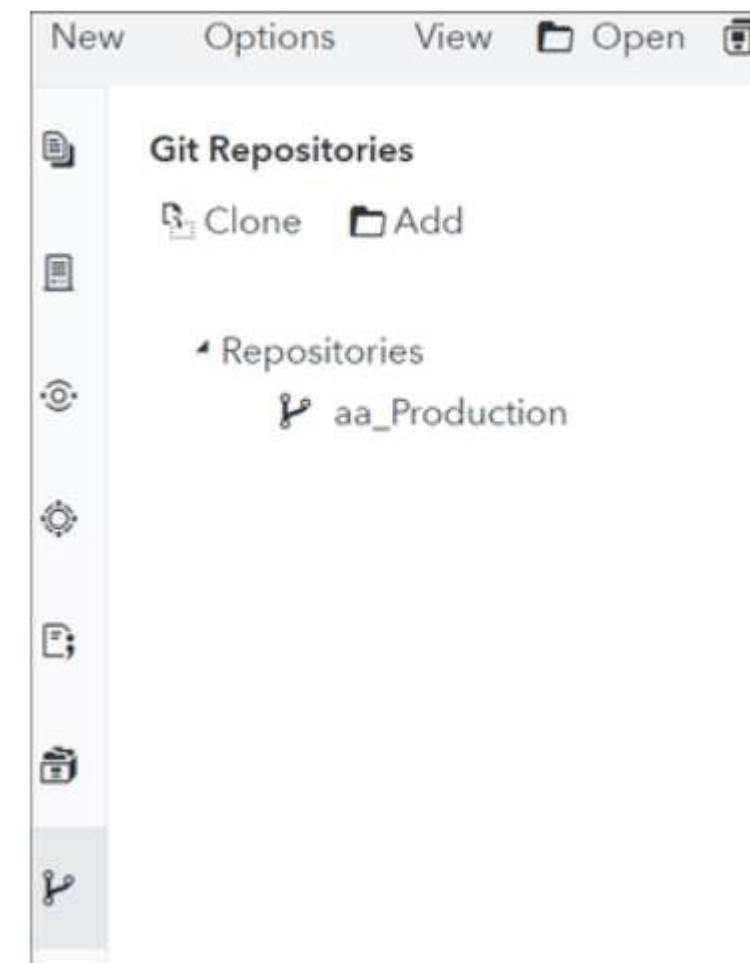
Diverse Nyheder

<https://communities.sas.com/t5/SAS-Communities-Library/SAS-Studio-DevOps-Collaborative-Development-of-SAS-Studio-Flows/ta-p/920744>

SAS Studio DevOps:

Collaborative Development of SAS Studio Flows and Programs Using Git Integration

The screenshot shows the 'Create Project' dialog box in SAS Studio. The 'Project name' field contains 'Production'. Below it, a note states: 'Must start with a lowercase or uppercase letter, digit, emoji, or underscore. Can also contain dots, pluses, dashes, or spaces.' The 'Project URL' dropdown is set to 'https://gitlab.com/' and the 'Project slug' is 'corpdiv'. The 'Project deployment target (optional)' dropdown is set to 'Select the deployment target'. Under 'Visibility Level', 'Private' is selected with a radio button. Below that, 'Public' is also listed but unselected. The 'Project Configuration' section has 'Initialize repository with a README' checked and 'Enable Static Application Security Testing (SAST)' unchecked. At the bottom, there are 'Create project' and 'Cancel' buttons.



Diverse Nyheder

<https://github.com/sassoftware/viya4-admin-checklist>



SAS Viya Administration Checklist

This project is for SAS Viya 2020.1 and later. See [Previous Versions](#) for earlier versions of SAS.

[Direct Link To Checklist](#)

Table of Contents of this README.md

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 - [Running](#)
- [Contributing](#)
- [License](#)
- [Previous Versions](#)
- [Additional Resources](#)

Diverse Nyheder

Oplæg

- Hvad kan SAS Viya?
 - 1 time til 2½ time

Interesseret – kontakt: Frans.Holm@sas.com

Diverse Nyheder

[Innovate.sas.com](https://innovate.sas.com)

On-Demand Experience



I attended SAS Innovate 2024

For our attendee experience, log into the Attendee Hub where you can:

- View presentation slides for nearly all sessions.
- Watch the keynotes, general sessions and 22 breakouts.
- Connect with other attendees.

[Log into the Attendee Hub](#)



I did not attend SAS Innovate

For those of you unable to join us, we're offering a limited on-demand experience. Here you can:

- Watch our keynotes, general session and 22 breakouts.
- Use the closed captioning in multiple languages.

[Sign up to watch](#)

Diverse Nyheder

<https://www.sas.com/sas/events/innovate-on-tour/24/london/june-12.html>

sas innovate on tour 2024

At SAS Innovate, we focus on how to drive business value with Data & AI: Learn from leading organisations and thought leaders and network with your peers.

June 12th // London

Diverse Nyheder

<https://www.sas.com/sas/events/innovate-on-tour/24/london/june-13.html>

sas innovate on tour 2024

At SAS Innovate, there is something for everyone. From novice coders to professional statisticians – and everyone in between. Get your hands on the latest Data & AI technology in our workshops, learn from industry experts, experience live demos, and network with your peers.

June 13th // London

Diverse Nyheder

<https://www.sas.com/sas/events/innovate-on-tour/24/london/june-13.html>

SAS Keynotes

■ Jared Peterson

Technology Keynote

In this keynote, you'll hear more about SAS' technology capabilities, products, and solutions. We'll introduce:

■ Marinela Profi

The SAS Developer Experience

SAS is helping developers "get more done", deliver more unique capabilities to boost productivity and provide

■ Udo Sglavo

Models as a Product Introduction

SAS models have been providing value for organizations. SAS and while this remains an approach many embrace, market offering.

■ Mathias Coopmans

Speed and Performance Advantages of SAS

Performance has always been at the core of SAS products. SAS is continuing to deliver the most performant software

■ Shadi Shahin

Our Research Futures

Innovations begin with curiosity and the space to think. Some of the innovations SAS is exploring.

Breakout Sessions - One

- Moving to Viya - Viya Workbench
Presenter: Harry Snart, SAS / David Smith, SAS
- Innovation - A GenAI Assistant for Warehouse
Presenter: Julia Moreno, SAS
- Integration - Accelerating Open Source code with
Presenter: Kyriakos Fistos, SAS

Breakout Sessions - Two

- Moving to Viya - Unlocking the Power of SAS Viya
Presenter: Cecily Hoffritz, SAS
- Innovation - Model Cards (AI Bias and Wellnes
Presenter: Prathiba Krishna, SAS
- Integration - SingleStore story
Presenter: Jonas Lie-Nielsen, SAS
- Partner: Katalyze - Managing Workloads in SAS Viya
Presenter: Ian Amaranayake, Katalyze

Breakout Sessions - Three

- Moving to Viya - Modern Data Architecture
Presenter: Rajeeve Narula, SAS
- Innovation - SAS Viya Copilot: GENAI Productivity Tools to Help You Use Viya & to Further Democratize Analytics
Presenter: Mathias Lanner, SAS
- Integration - DevOps with SAS Viya - the why and the how
Presenter: Lars Arne Skår
- Partner: Butterfly Data - From 9.4 to Viya 4 - Do more!
Presenter: Will Hauwert, Butterfly Data

Breakout Sessions - Four

- Moving to Viya - Inside the SAS Viya Migration Factory at the World's Largest Building Society
Presenter: Clark Lawson, Nationwide Building Society

EU legislation on AI

Presenter: Reggie Townsend, SAS

Generative AI research findings

Presenters: Iain Brown, SAS / Stephen Yeo, SAS

FANS Netværks møder

Danmark

- 30/5 Platform (København) 10.00-16.00
- 6/6 Programmering (København) 13.00-16.00
- 6/6 Sommerafslutning – Skuespilshuset* (København) 16.00-22.00
- 7/6 Visual Analytics (København) 9.30-12.30
- 12/6 SAS Innovate on Tour (London)
- 13/6 SAS Innovate on Tour (London)
- 18/6 AML 9.00-12.15

- 29/8 Programmering (Aarhus) 14.00-17.00
- 29/8 FANS Sensommer Event* (Aarhus) 17.00-21.30
- 2/9 Visual Analytics (RKKP/Odense) 10.00-13.00
- 19/9 Platform (Knowit/København) 10.00-16.00
- 24/9 Data Science/Analytics (København) 10.00-12.30
- 3/12 Mini FANS Forum (København)* 10.00-22.00

Diverse Nyheder

FANS Sensommer Event

Velkommen til FANS Sensommer Event for alle premium medlemmer af FANS.

Dato: 29/8-2024

Tidspunkt: 17.00 - 21.30

Sted: SAS Institute, Frederiks Plads 36, 4, 8000 Aarhus C. [Registrering](#)

Bemærk deltagelse kræver et FANS Premium medlemskab.

Er du i tvivl om du/I har et allerede - eller ønsker et, så kontakt: Frans.Holm@sas.com

Program

Opdateres...

Som altid er formålet at netværke og skabe kontakter, der kan bruges i dit daglige arbejde med SAS.

Mad på Frederiks Plads (kl. 17-18)

- Lækker mad fra kokken på Frederiks Plads

Foredrag: "Chef – jeg kommer ikke ind i dag" (18-19)

- Christian vil holde foredraget: "Chef – jeg kommer ikke ind i dag": Videndeling og samarbejde efter Covid-19
- Foredraget trækker på nyeste forskning og konkrete virksomhedserfaringer og præsenterer en udfordrende, skarp og saglig ramme, som indbyder til diskussion og videre refleksion.
- v. Christian Waldstrøm, Lektor på Aarhus Universitet, forfatter, konsulent og ekspert i samarbejde, vidensdeling og netværk.

Øl smagning (kl. 19 – 21.30)

- Øl smagning af 8 forskellige øl fra [Grauballe Bryghus](#), og med mulighed for at vinde en øl-gavekasse.
- Der vil også være alkoholfrie alternativer

Diverse Nyheder

Mini FANS Forum

Velkommen til Mini FANS Forum for alle premium medlemmer af FANS.

Dato: 3/12-2024

Tidspunkt: 10.00 - 22.00 (Morgenmad fra kl. 9)

Sted: SAS Institute, Havneholmen 8, 2450 København SV. [Registrering](#)

Bemærk deltagelse kræver et FANS Premium medlemskab.

Er du i tvivl om du/I har et allerede - eller ønsker et, så kontakt: Frans.Holm@sas.com

Program

Opdateres....

Velkommen

- Fælles velkomst i Ørsted

Breakout præsentationer

- Oplæg i de forskellige lokaler på Havneholmen

Frokost

Breakout præsentationer

- Oplæg i de forskellige lokaler på Havneholmen

Foredrag

- Forandringer spørger ikke om lov, de kommer bare
- (Var der nogen der sagde SAS Viya??)
- v. [Helen Eriksen](#), Erhvervspsykolog, forfatter, og trivsels- og forandringsekspert.

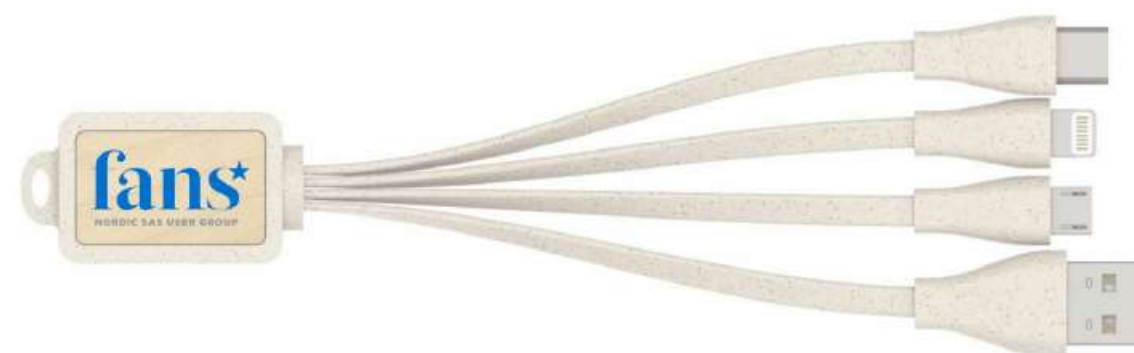
Middag og netværk

- Og mon ikke der også er en mandelgave igen i år....

FANS Lodtrækning

FANS Lodtrækning

Dagens gave!



Vi fortsætter forsøget!!

- Vi vil gerne understøtte netværksdelen ved FANS
- Man for mest ud af fysisk fremmøde
- Nudging....

FANS lodtrækning

Kom et lod i bowlen...



Viya4 klienter

v. Cecily Hoffritz, SAS

Pause

(indtil kl. 11.50)

Dagsorden

- AD Synkronisering
 - v. Lars Hult, DLR Kredit
- Nyheder fra Technology
 - v. Thomas Jacobsen, SAS
- Frokost (til 13.30)

AD Synkronisering

v. Lars Hult, DLR Kredit

| Name | Type | Description |
|------------------------------|-------------------------------|--|
| Michael Sande | User | |
| Moiz Bandukwala | User | |
| MSOL_3d4f350bde95 | User | Account created by Microsoft Azure Active Directory Conne |
| Nicholas Cancian | User | |
| Nicholas Waddington | User | |
| Oliver Karam | User | |
| Pascal Mitri | User | |
| Pedro Mello | User | Operations Coordinator |
| PM CA | Security Group - Global | |
| Protected Users | Security Group - Global | Members of this group are afforded additional protections a |
| RAS and IAS Servers | Security Group - Domain Local | Servers in this group can access remote access properties of |
| Read-only Domain Controllers | Security Group - Global | Members of this group are Read-Only Domain Controllers in |
| Rolen Pouranvieh | User | |
| Ryan Oldham | User | |
| Sam Prasanna | User | |
| Samantha Tarabay | User | |
| Samuel Zemmit | User | |
| Sangita Jaiswal | User | |
| scanner | User | |
| Schema Admins | Security Group - Universal | Designated administrators of the schema |
| Sean Lim | User | |
| Senior Mgmt | Security Group - Global | |
| Shehzad Charania | User | |

SAS 9.4 AD synkronisering

3. juni 2024

Lars Hult
Email: lhu@dlr.dk

Hvorfor ?

- Automatiseret bruger og gruppe styring
- Adgang styres i AD.
- Opdateres efter behov. Køres via Scheduler.

Gammel udgave

| Name | Date modified | Type | Size |
|--------------|------------------|------------------|-------|
| ADIR | 28-05-2024 06:33 | File folder | |
| Logs | 30-04-2024 12:55 | File folder | |
| META | 28-05-2024 06:33 | File folder | |
| Temp | 28-05-2024 06:33 | File folder | |
| updates | 28-05-2024 06:33 | File folder | |
| work | 28-05-2024 06:33 | File folder | |
| XML | 30-04-2024 12:58 | File folder | |
| importad.sas | 01-05-2023 21:10 | SAS Program | 53 KB |
| sync.cmd | 04-09-2020 12:24 | Windows Comma... | 1 KB |
| synch.sas | 04-09-2020 10:22 | SAS Program | 3 KB |

```
synch.sas x
1 Options fullstimer source source2;
2 /*Specify the directory for the extracted AD data (master tables)*/
3 libname adir "E:\SAS\Utilities\Scripts\AD\ADIR";
4
5 /* Specify the directory for the extracted metadata (target tables)*/
6 libname meta "E:\SAS\Utilities\Scripts\AD\META";
7
8 /* Specify the directory for the comparison output (change tables)*/
9 libname updates "E:\SAS\Utilities\Scripts\AD\updates";
10
11 /* Specify the directory for the temporary data (work tables) Useful
12 libname temp "E:\SAS\Utilities\Scripts\AD\Temp";
13 libname ADwork "E:\SAS\Utilities\Scripts\AD\WORK";
```

Ny udgave

| Name | Date modified | Type | Size |
|--------------------------------|------------------|------------------|-------|
| ADEExtract | 27-05-2024 07:13 | File folder | |
| METAExtract | 27-05-2024 07:13 | File folder | |
| METAUpdate | 27-05-2024 07:13 | File folder | |
| 1_adimport.sas | 27-05-2024 07:13 | SAS Program | 5 KB |
| 2_read-ad-users-and-groups.sas | 27-05-2024 07:13 | SAS Program | 31 KB |
| 3_read-metadata.sas | 27-05-2024 07:13 | SAS Program | 8 KB |
| 4_Validate.sas | 27-05-2024 07:13 | SAS Program | 9 KB |
| 5_Update-Metadata.sas | 27-05-2024 07:13 | SAS Program | 18 KB |
| adimport.cmd | 27-05-2024 07:13 | Windows Comma... | 2 KB |
| adimport.sh | 27-05-2024 07:13 | SH File | 1 KB |
| Readme.txt | 27-05-2024 07:13 | Text Document | 7 KB |

```
1_adimport.sas x
1 option ls=180 source2 mprint symbolgen;
2 /***** START OF SETTINGS THAT NEEDS TO BE CHANGED *****/
3 /* Path to the jobs and scripts. */
4 %let ADDIR=D:\SAS\Utilities\Scripts\adsynch;
5 %*let ADDIR=/opt/sas/utilities/scripts/adsynch;
6
7 /* Name of file containing log messages. */
8 filename emsgfile "&ADDIR./messages.txt";
9
10 /* The data folders. */
11 libname adir "&ADDIR./ADEExtract";
12 libname metaExt "&ADDIR./METAExtract";
13 libname metaUpd "&ADDIR./METAUpdate";
14
15 /* AD server can be a IP or name or the FQDN name.*/
16 %let ADServer = "emea.sas.com";
17 /* Read from LDAP port */
18 /* %let ADPort = 389; */
```

Fordele / Ulemper

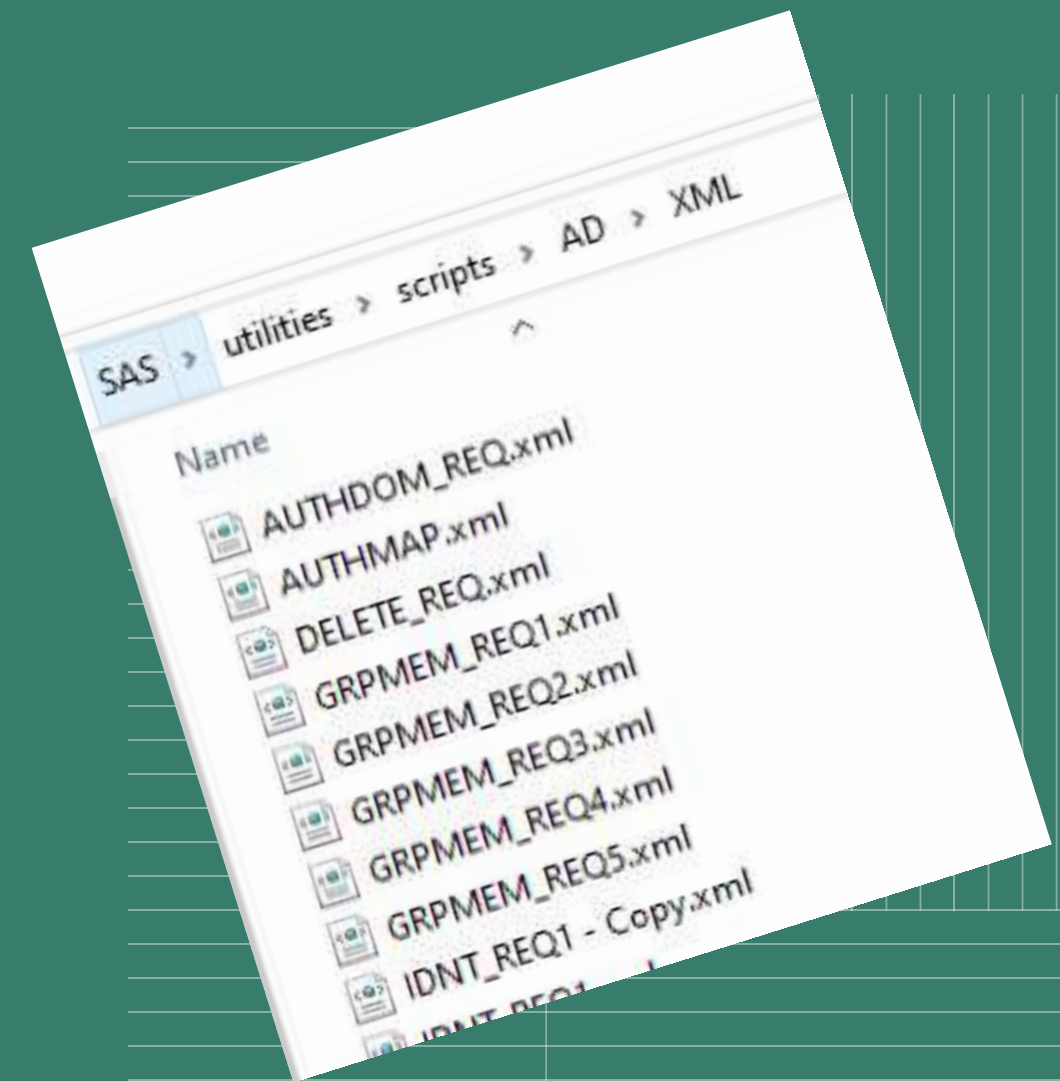
Gammel version – Ny version

Gammel

- Indlæser maks 1500 personer ud af en gruppe
- Kan kun læse 1000 personer ad gangen.
 - Udtræk opdeles i klumper eks: a-e f-l
- Brugere og grupper indlæses for derefter at joines
- Brug af XML

Ny

- Bør bruges ved nye installationer
- Erstattes gammel version kan det kræve metadata ændringer
- Kører UTF8 fra AD til Metadata
- Grupper kan udvælges ud fra hele navne, prefix, alle=*
 - Ud fra grupperne læses brugerne
 - Betyder at brugere kan indlæses flere gange som fjernes ved en sort.
- Melder fejl hvis gruppe navn længere end 60 char (AD kan være 65)
- Disabled users indlæses ikke
- Tjekker for unikke gruppe navne
- Metadata læses med metadata function calls. Ingen brug af XML

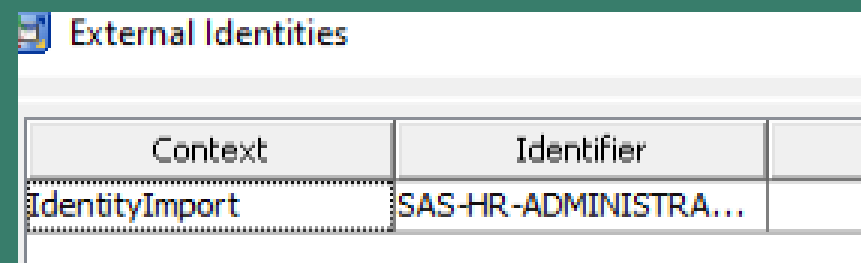


Hints

- Upcase AD data, SAS kan have udfordringer med Store / små bogstaver
- Opret eventuelle accounts mod specifikke Authentication domains
 - WEB – SSO
 - HOST – logon til Mainframe
 - Andet ?
- Brug statiske metadata grupper

Ved opgradering

- External Identities



The screenshot shows a table titled "External Identities" with two columns: "Context" and "Identifier". The first row contains the values "IdentityImport" and "SAS-HR-ADMINISTRA...".

| Context | Identifier |
|----------------|----------------------|
| IdentityImport | SAS-HR-ADMINISTRA... |

Links

SAS 9.4 administration sikkerhed
[SAS Help Center: Security Administration](#)

SAS note – TLS krypteret kommunikation
[40628 - Automating the addition of users and groups to a SAS® Metadata Repository](#)

Brug af statiske metadata grupper
[Shadow Groups for LDAP Synchronisation - SAS Support Communities](#)

Skal i have hjælp med implementering
Kontakt SAS, Johannes

Nyheder fra Technology

v. Thomas Jacobsen & Siro Bettio, SAS

Frokost

(Til kl. 13.30)

Dagsordenen – efter frokost

- Nyheder fra SAS Innovate
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- Tapas & Netværk i kantinen

Nyheder fra SAS Innovate

v. Frans Holm, SAS

Innovate

Mit indtryk

- 👍 med fysiske konferencer – se/mødes/snakke/netværke
- Måske ikke Microsoft størrelse – men stort...
- Nemmere at få lov at deltage når I har konference billetter via FANS

Opsummering

- Key notes
- Kunde præsentationer
- Hands-on gennemgange
- Super demos
- Innovation Hub
- Netværk

Progam

Innovate 2024

Agenda at a glance



| 04/16 | TUES | 04/17 | WED | 04/18 | THURS | 04/19 | FRI |
|--|------|--|-----|---|-------|---|-----|
| 10 AM – 7 PM Registration Open | | 7 AM – 7 PM Registration Open | | 7 AM – 6 PM Registration Open | | 7 AM – 1 PM Registration Open | |
| 12 – 3 PM Hackathon Boot Camp Option 1 | | 8 – 9 AM Mornings in the Innovation Hub | | 8 – 9 AM Mornings in the Innovation Hub | | 8 – 9 AM Continental Breakfast | |
| 1 – 6 PM Training, Tutorials & Certification | | 9 – 11 AM Opening Session with Cassie Kozyrkov | | 9 – 11 AM Responsible AI Panel with Kara Swisher | | 9 – 10:30 AM Closing Session | |
| 3 – 5 PM Partner General Session, Customer Intelligence Connect | | 11 AM – 4:45 PM Innovation Hub Open | | 11 AM – 3:45 PM Innovation Hub Open | | 10:45 AM – 12:30 PM Hands-On Workshops, Quick Tips & Breakouts | |
| 3:15 – 6:30 PM Hackathon Boot Camp Option 2 | | 11:15 AM – 12:45 PM Networking Lunch | | 11:15 AM – 12:45 PM Networking Lunch | | | |
| 5 – 6 PM Partner Happy Hour | | 1 – 4:45 PM Industry & Tech Breakouts, Hands-On Workshops | | 1 – 3:45 PM Roundtables, Tech Breakouts & Hands-On Workshops | | | |
| 6 – 7 PM Welcome Reception in the Innovation Hub | | 5 – 5:45 PM Sean Evans from Hot Ones & Bryan Harris | | 4 – 5 PM Afternoon Session with Adam Grant | | | |
| | | 6 – 7 PM Wing Fling Happy Hour in the Innovation Hub | | 5 – 6 PM Innovation Hub Open | | | |
| | | | | 7 – 9:30 PM Kickback Party | | | |

FANS tur:
Show

NE middag

Dinner at Toca Madera



Cirque de Soleil - Beatles

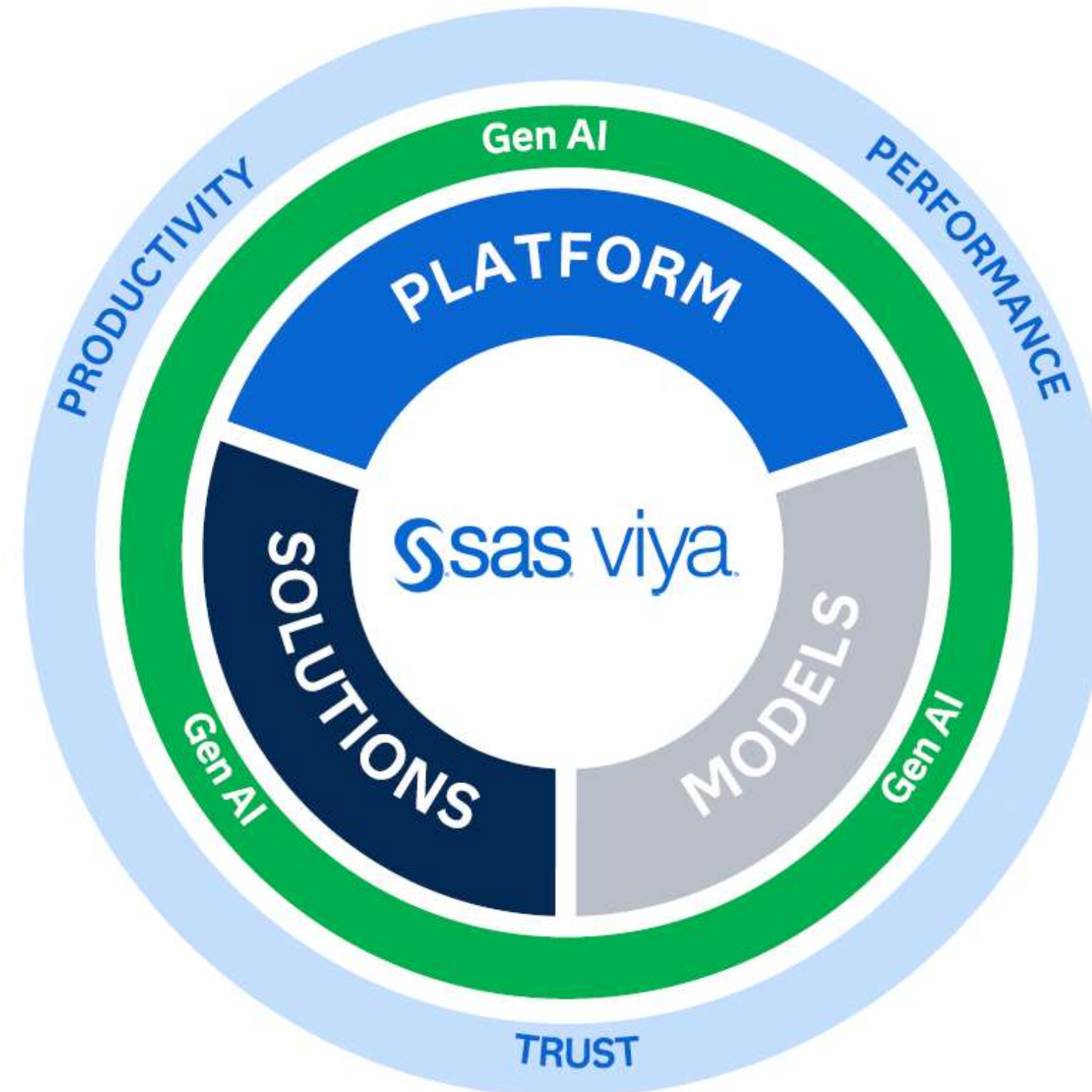


Kickback Party @ Drai's



SAS Innovate

Hovedtemaer



SAS Innovate Gen AI

Generate code

```
/* Generate a scatter plot of Age_at_Study_Entry against Time_to_Event grouped by Event_Occurred */  
proc sgplot data=mycas.pharma;  
  scatter x=Age_at_Study_Entry y=Time_to_Event / group=Event_Occurred;  
run;
```

< 1/1 > Accept Tab Accept Word



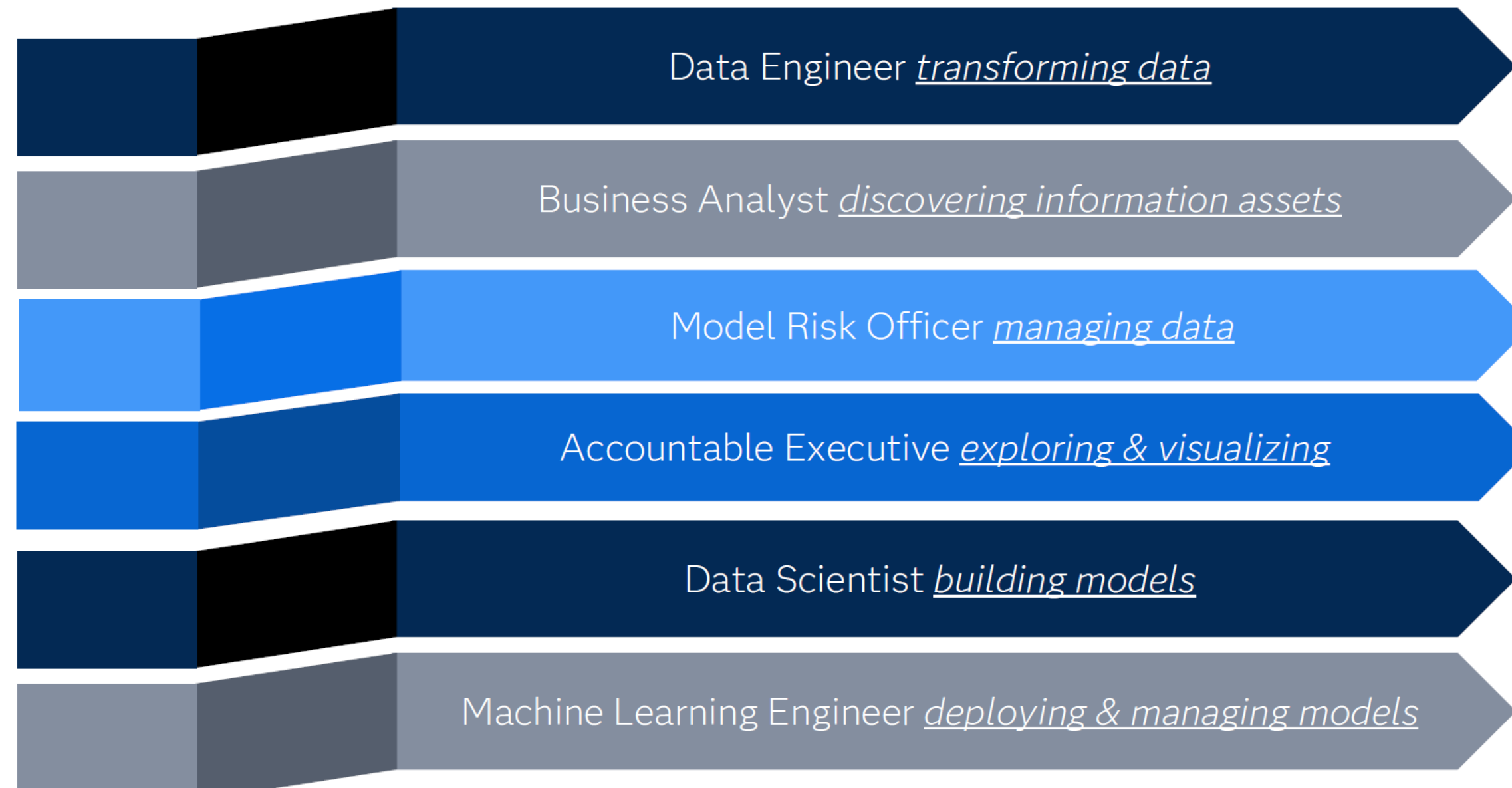
- Generate Code
- Add Comment
- Explain Code...
- Find Problems...
- Show Examples...
- Format Code
- Refine Code
- Brainstorm...
- Analyze Log...

SAS Innovate

Gen AI

SAS' GenAI Product Strategy

Copilots to help you use SAS Viya 4 tools...



SAS Innovate

Models (as a service)



SAS Innovate

Document Vision - Models (as a service)



DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed with this report to: Department of Environmental Protection, Industrial Wastewater Program, 13851 North Tennessee Parkway, Tampa, Florida, FL 33613-0926

PERMITTEE NAME: John Doe
 MAILING ADDRESS: 533 Pasadena Ave., Lakeland, FL 33801
 FACILITY: Doe Family Ranch
 LOCATION: 555 La Costa Dr., Lakeland, FL 33801
 COUNTY: Polk
 OFFICE: Southwest District

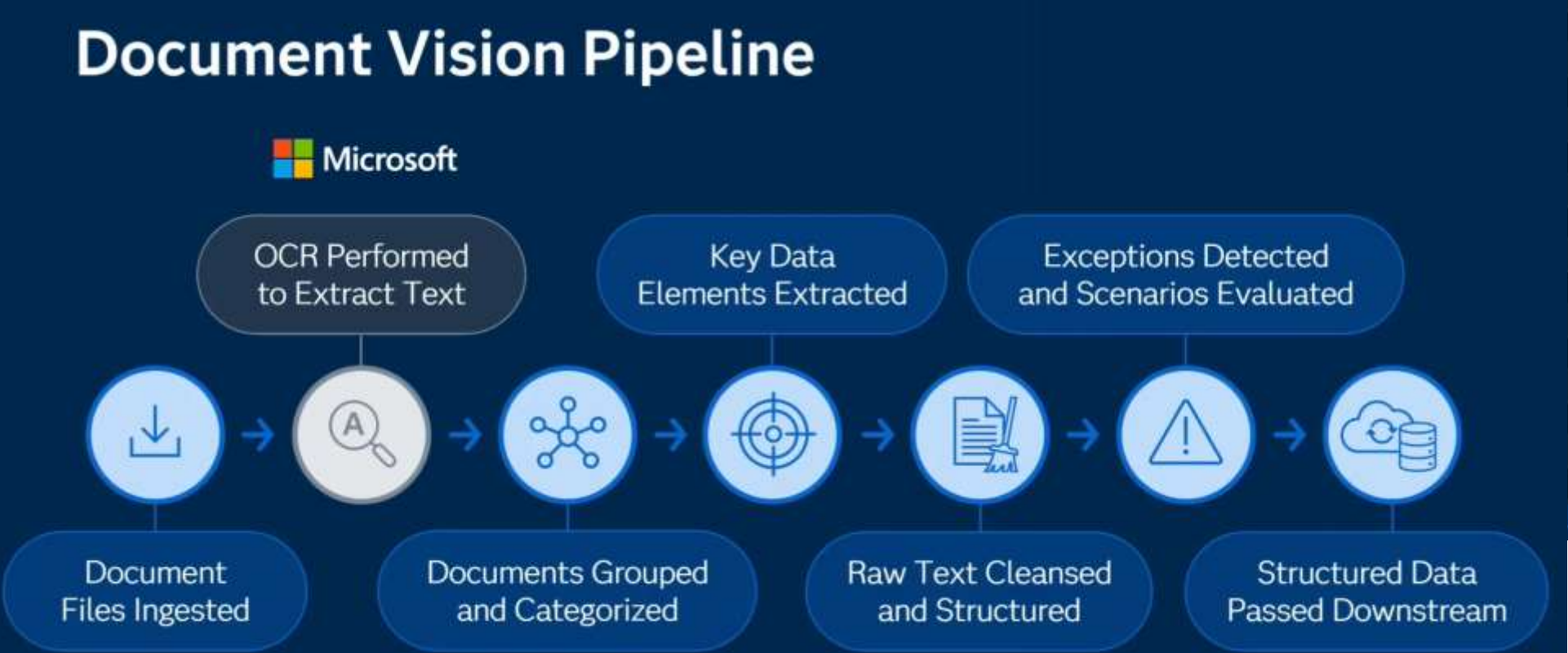
PERMIT NUMBER: FLA1234
 LIMIT: Final
 REPORT FREQUENCY: Monthly
 PROGRAM: Industrial
 CLASS SIZE: RMP-AA
 MONITORING GROUP NUMBER: RMP-AA
 MONITORING GROUP DESCRIPTION: Class AA Biosolids
 DISCHARGE FROM SITE: 8-1-17 to 8-31-17
 MONITORING PERIOD: Final

| Parameter | Unit | Result | Limit |
|--|------------|--------|-------|
| Coliform, Fecal | 1-U-tested | | |
| PARM Code 74055 | | | |
| Min. Site No. RMP-AA | | | |
| OR | | | |
| Salmonella, sp. bacteria | | | |
| PARM Code 71204 | | | |
| Min. Site No. RMP-AA | | | |
| Nitrogen, Sludge, Tot, Dry Wt (d 7) | | | |
| PARM Code 78470 | | | |
| Min. Site No. RMP-AA | | | |
| Phosphorous, Sludge, Tot, Dry Wt (d 7) | | | |
| PARM Code 78478 | | | |
| Min. Site No. RMP-AA | | | |
| Potassium, Sludge, Tot, Dry Wt (d 7) | | | |
| PARM Code 78472 | | | |
| Min. Site No. RMP-AA | | | |
| Arsenic Total, Dry Weight, Sludge | | | |
| PARM Code 49565 | | | |
| Min. Site No. RMP-AA | | | |

DISCHARGE MONITORING

Table rows: 18 | Columns: 3 of 3

| | type | key | value |
|---|----------------|-----------------|--|
| 1 | METADATA | source_filepath | ./DEP.pdf |
| 2 | METADATA | file_uuid | 21b3853e-c0f2-4602-848f-ee1c022d7871 |
| 3 | CLASSIFICATION | Page Category | FLDEP: Discharge Monitoring Report |
| | | | John Doe |
| | | | FLA12345 |
| | | | Doe Family Ranch |
| | | | 555 La Costa Dr. Lakeland, FL 33801 |
| | | | Polk |
| | | | Southwest District |
| | | | RMP-AA Class AA Biosolids |
| | | | 01AUG2017 - 31AUG2017 |
| | | | PARM Code 74055 Coliform, Fecal 1-U-tested |
| | | | PARM Code 71204 Salmonella, sp. bacteria - N/A |
| | | | PARM Code 78470 Nitrogen, Sludge, Tot, Dry Wt 1.2 % |
| | | | PARM Code 78478 Phosphorous, Sludge, Tot, Dry Wt 0.29 % |
| | | | PARM Code 78472 Potassium, Sludge, Tot, Dry Wt 0.17 % |
| | | | PARM Code 49565 Arsenic Total, Dry Weight, Sludge 2.4 mg/kg |
| | | | 8-1-17 8-31-17 A Pre-Consumoi Soil L John Doc (573) 882-3067 9-28-17 |



Unstructured Data

SAS Data Maker Capabilities

Address gaps and limitations in real-world data

Now in Private Preview

1

Generate data on demand using algorithms. Enable pre- and post-processing data



2

Replicate data characteristics including statistical properties, distributions



3

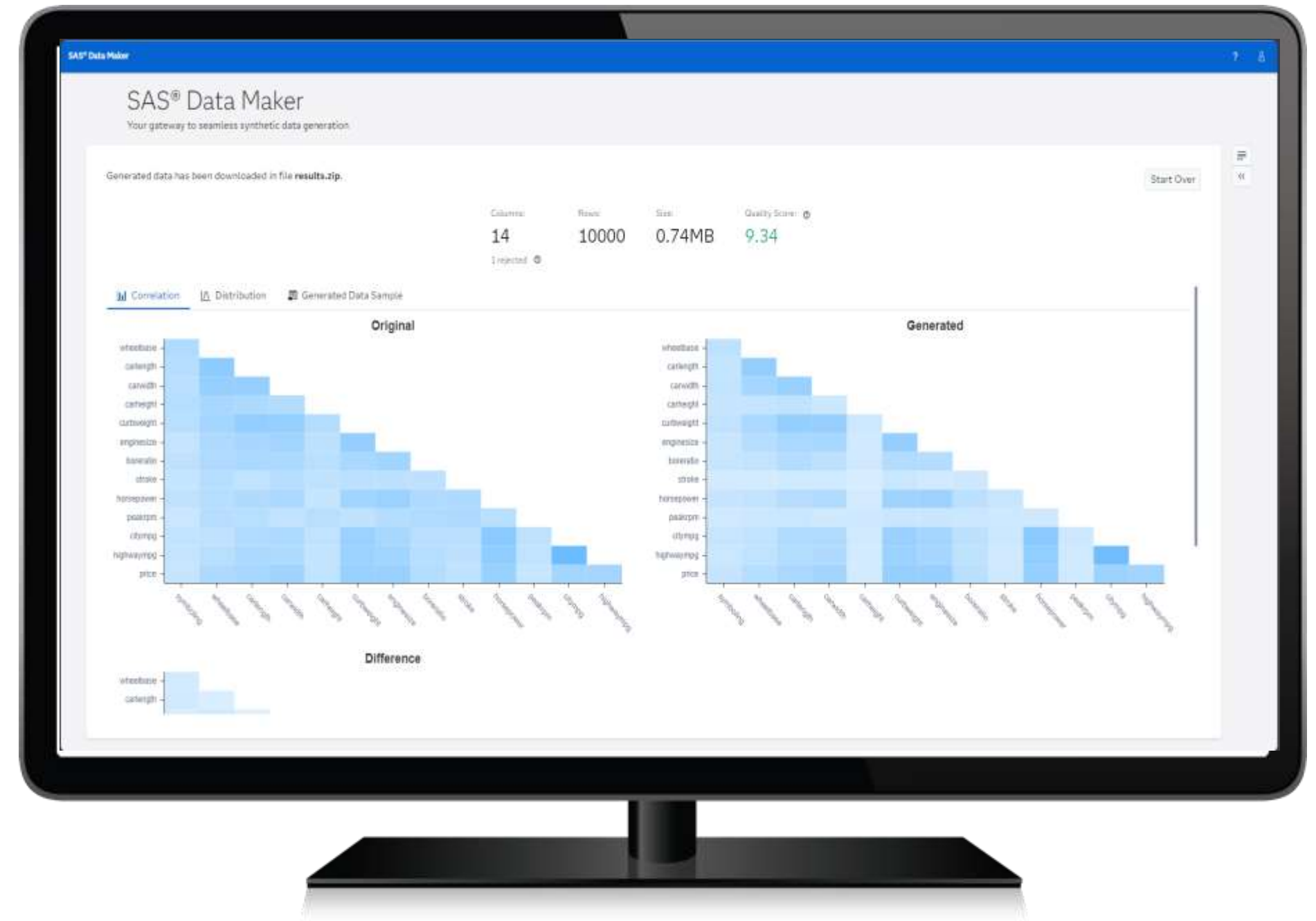
Evaluate synthetic data quality with visual, evaluation metrics



SAS Data Maker Process

Synthetic data generation capabilities

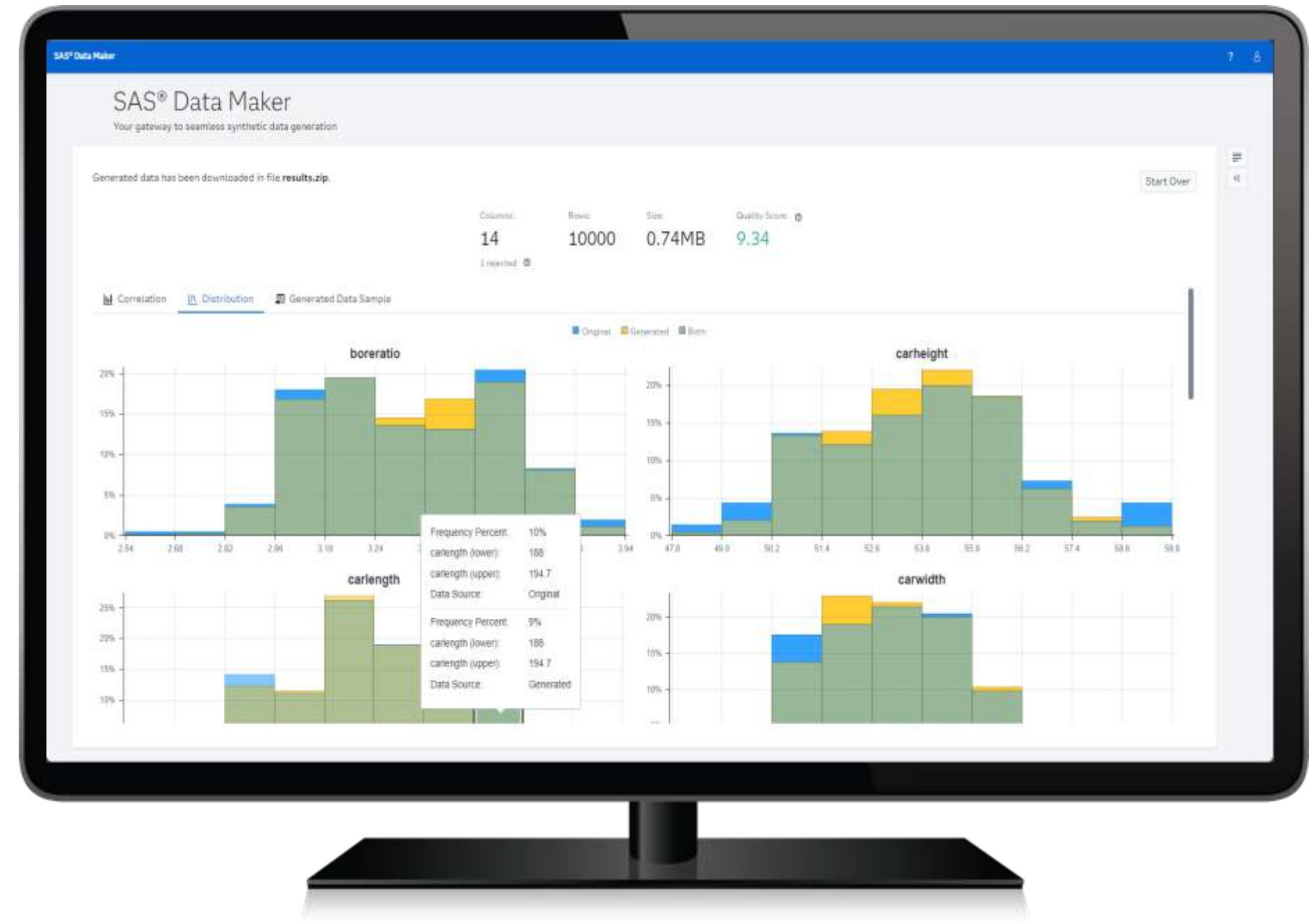
- 1 Prepare source data
- 2 Generate synthetic data
- 3 Evaluate statistical properties
- 4 Evaluate distribution
- 5 Download results



SAS Data Maker Process

Synthetic data generation capabilities













- 1 Prepare source data
- 2 Generate synthetic data
- 3 Evaluate statistical properties
- 4 Evaluate distribution
- 5 Download results



Modernizing 1,000 SAS® Users on Multiple Legacy SAS Solutions

Først Globalt eksternt konsulent firma -> Tog efterfølgende projektet hjem.

Migration Strategy

| Migration to SAS Viya | | | | Migration of SAS Solutions to Viya | |
|---|---|---|---|---|---|
| 2023-2026 | | | 2027+ | | |
| Shared services 1 | Shared services 2 | Shared services 3 | Shared services 4 | Mktg automation | IFRS9/ECL |
|  6.1 |  6.1 |  7.9 |  2019 |  7.9 |  7.9 |
|  9.1.3 |  9.3 |  9.4M7 |  9.4M7 |  9.4M6 |  9.4M6 |
| 25 Users | 128 Users | 600 Users | 400 Users | 50 Users | 50 Users |
| 1 Most outdated first | 2 Lowest impact next | 3 Lift @ shift migration by application... then optimization | | | |

Transitioning From SAS® 9.4 to SAS® Viya

Summary of lessons learned

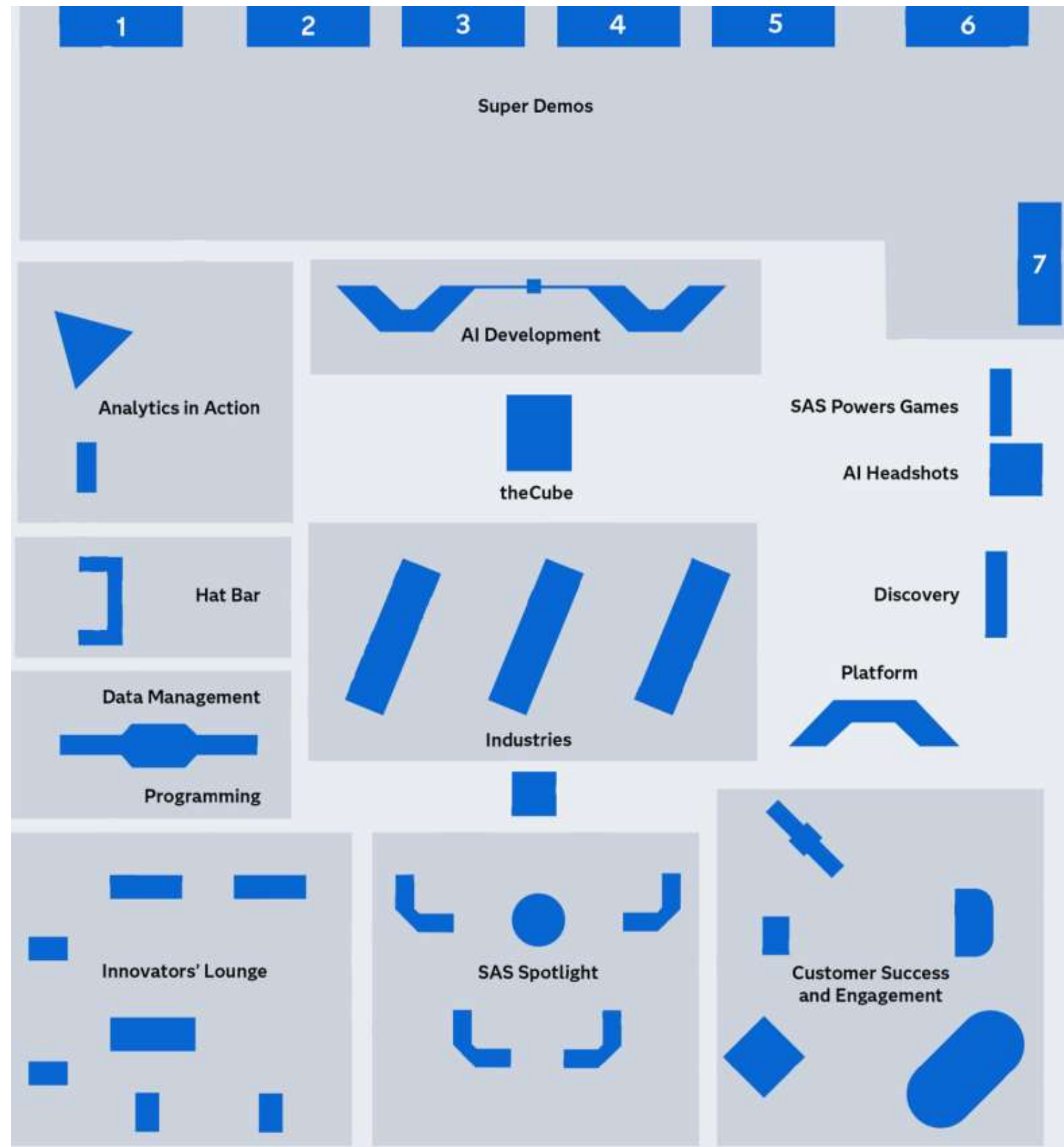
- SAS libname and calisb engine for parquet
- Understand your data using Proc Contents
- Use char_column_limit= option to limit character strings with variable length
- Take advantage of CAS in-memory resources
- Take advantage of parallel multithreaded datasteps and procs
- Run datastep in CAS to accelerate SAS jobs
- Remember to avoid use SASWORK when processing in CAS
- Instead use CASUSER or a redirect to CASWORK
- Proc SQL to FedSQL
- Replaced some Proc tabulates with FedSQL
- Reduce the data early using keep= on the set statement
- Remove redundant data steps
- Comment out the proc sorts; (not needed in CAS)
- Use compression on datasets (or set options compress=;)
- redirect SASWORK to CASUSER
- Container memory size compared to SAS Memsize (don't set them equal)
- This allows SAS compute to benefit from caching during file system reads.
- Loading from sashdat, is a lot faster compared to loading from other sources
- Don't move data back and forth from in-memory to SASWORK
- Use CDE for Secure Access to distributed data sources
- Push down queries to the data source

SAS Innovate

Øvrige emner

- Hands on: Top 10 Performance Tuning Tips
- Migrating from SAS Data Integration Studio to SAS Studio Flows (Norwegian Seafood Council)
- Modernizing a SAS[®] Data Warehouse to a Real-Time Lakehouse Using SAS[®] Viya[®] With SingleStore (Posten/Bring)
- “Reusable Batch Server”
- Et par præsentationer til Visual Analytics og Programmering netværksmøderne.

The Innovation Hub



Næste år



Nyheder fra SAS Innovate

v. Claus Hansen, BEC

Open Shift

v. Siro Bettio & René Dyrby, SAS

Pause

(indtil kl. 14.55)

Dagsorden

- Developers.com
 - v. Joe Furbee, SAS
- Viya Workbench
 - v. Christian Christensen m.fl., SAS
- Afslutning
 - v. Frans Holm, SAS
- Cocktails på tag-terrassen
- Tapas & Netværk i kantine

Developers.com

v. Joe Furbee, SAS

Viya Workbench

v. Frederik Vandenberghe, SAS

Afslutning

v. Frans Holm, SAS

FANS Netværks møder

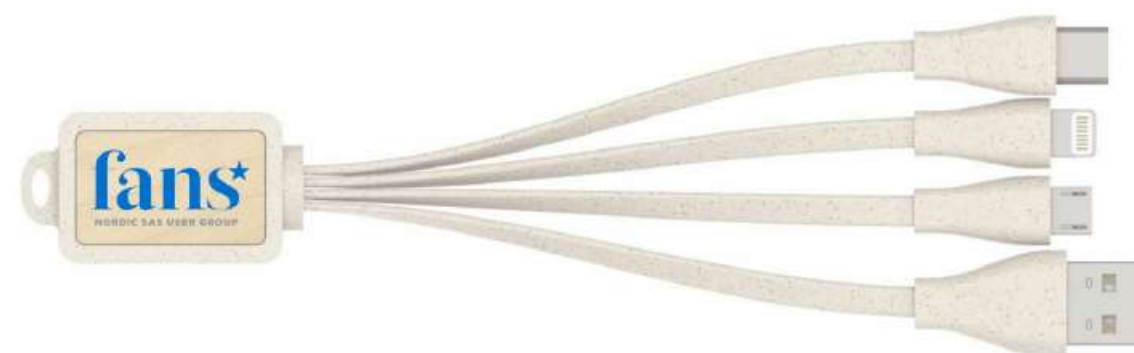
Danmark

- 30/5 Platform (København) 10.00-16.00
- 6/6 Programmering (København) 13.00-16.00
- 6/6 Sommerafslutning – Skuespilshuset* (København) 16.00-22.00
- 7/6 Visual Analytics (København) 9.30-12.30
- 12/6 SAS Innovate on Tour (London)
- 13/6 SAS Innovate on Tour (London)
- 18/6 AML 9.00-12.15

- 29/8 Programmering (Aarhus) 14.00-17.00
- 29/8 FANS Sensommer Event* (Aarhus) 17.00-21.30
- 2/9 Visual Analytics (RKKP/Odense) 10.00-13.00
- 19/9 Platform (Knowit/København) 10.00-16.00
- 24/9 Data Science/Analytics (København) 10.00-12.30
- 3/12 Mini FANS Forum (København)* 10.00-22.00

FANS Lodtrækning

Dagens gave!



Tak for i dag

Cocktails på tag-terrassen
Tapas & Netværk i kantinen

Vi ses FANS!

Frans.Holm@sas.com

