

A series of horizontal bars of varying lengths and colors (teal, blue, and dark blue) are arranged in a staggered, overlapping pattern on the left side of the slide.

# SAS Roadmap

Heino Rust

# SAS 9.4

## Roadmap und Security

- SAS 9.4 M8 ist geplant für 2022
- PostgreSQL Security: da alle PostgreSQL 9.x Versionen nicht mehr offiziell supportet werden, empfehlen wir unseren Kunden ein Upgrade auf SAS Version mit PostgreSQL 12.x zu aktualisieren.
  - Upgrade auf SAS 9.4 M7 enthält Upgrade aus PostgreSQL 12.x
  - Für SAS 9.4 M6 ist ein Upgrade nach Request eines Papers von Technical Support möglich.
- [SAS Note 61175](#) stellt die entsprechenden Informationen zur Verfügung. Dort sind auch die mit PostgreSQL 12.x gefixten Security issues aufgeführt.

# SAS Viya 3.5

- Für ausgewählte SAS Viya 3.5 Produkte gibt es nun offiziellen [Support für RedHat Enterprise Linux 8](#)
- Für SUSE Linux wird 12.2 supported, aber nicht SUSE Linux 15
- Es ist kein weiteres SAS Viya 3.5 Release geplant.

# SAS Viya LTS Releases

- SAS Viya wird zukünftig in Stable Releases und LTS Releases ausgeliefert.
- Wir erwarten in Zukunft halbjährlich Long Term Support Release
  - Mitte Mai (2021.1)
  - Mitte November (2021.2)
- Für das Long Term Support Release im Mai ist neben dem Support für Azure mit AKS Kubernetes auch Support für AWS mit EKS Kubernetes und Google mit dem auf Google verfügbaren Standard Kubernetes geplant.
- Ein Wechsel von Stable Releases auf LTS Releases ist immer möglich von einem Stable Release das zwei Monate vor dem LTS Release erschienen ist.

# SAS Viya Stable Releases

- SAS liefert monatlich neue Releases mit neuen Funktionen.
  - Ab Mai werden monatlich Releases geliefert, die auch zusätzliche Plattformen unterstützen sollen.
  - Für den Zeitraum zwischen Mai und November ist es geplant sukzessive Support für folgende Plattformen auszurollen:
    - OpenShift
      - Auf VMWare
      - Auf OpenStack
      - Auf BareMetal
    - Kubernetes
    - OpenShift auf Azure, AWS und Google
- Der Support weiterer Plattformen ist in Vorbereitung.

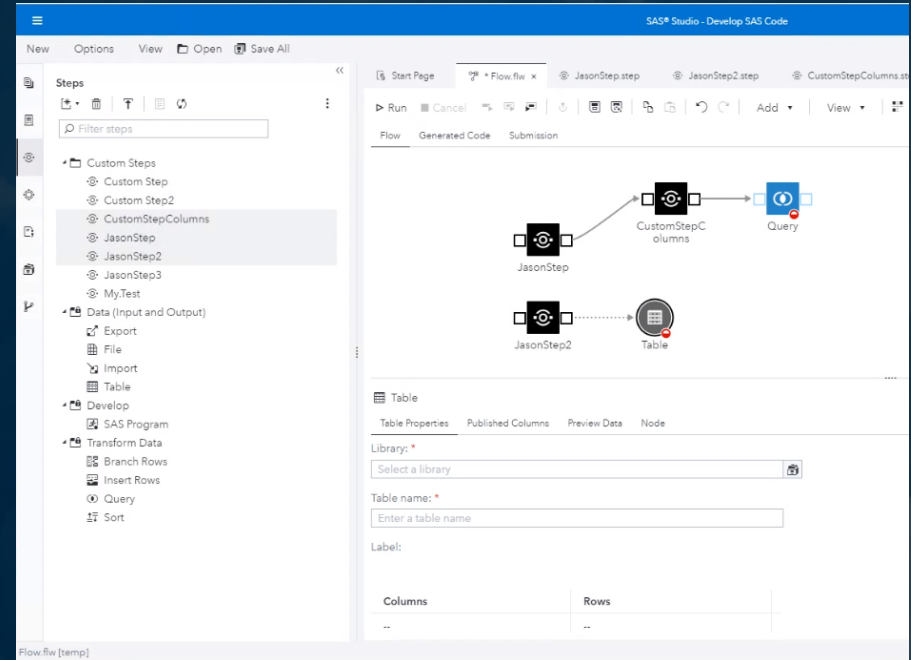
# Now

## As part of SAS Viya 4 – 2020.1.5

- Custom Step Framework including
  - Custom Step Code Editor
  - Ability to use custom steps in flows (Analyst)
- Optimize Query + Insert Rows
- Support autosave of Flows
- Table step – Edit Column Structure
- Multiple output tables list – pull-down list and pane

## As part of SAS Viya 4 – 2021.1.1

- Step – Manage Columns (Select, Order, Rename)



# Now

## As part of SAS Viya 4 – 2020.1.5 (April 2021)

- SAS Information Catalog
  - Deep Link URL to Table Overview – deep link browser url to copy url or to bookmark
  - Descriptive help popups – across table overview

## As part of SAS Viya 4 – 2021.1.3 (July 2021)

- SAS Information Governance
  - JanusGraph Graph Database Support

## As part of SAS Viya 4 – 2021.1.4 (August 2021)

- SAS Information Catalog
  - Federated Content – Extension of Information Catalog to other SAS Viya Object Types (Reports, Flows ...)

## As part of SAS Viya 4 – 2021.1.6 (October 2021)

- SAS Information Catalog
  - Faceted Search Results
    - Including Search Type ahead (search suggestions)
    - Facet type values





## Released

- Hadoop – CDP 7.1/7.2 Support  
*Viya 3.5 - HotFix*
  - DB2 - IBM Integrated Analytics Server (IIAS) Support
  - GBQ - Bulk Unload Support
  - Hadoop - CDP 7.1/7.2 Support
  - MongoDB – GA & Enhancements
  - MSSQL - Azure Synapse Support & bulk loading
  - PGSQL – EnterpriseDB Support on Google Cloud SQL PostgreSQL
  - SFDC - GA + Proxy Support
  - Snowflake – GCP Support + internal Bulk Load/Unload on GCP Storage
  - Spark – GA
  - GBQ - Google BigQuery Storage API
  - Hadoop - Azure HDInsight 4.0
  - MSSQL - Bulk Load on Azure Synapse (CAS) Support
  - PI System – SAS/ACCESS only
  - Yellowbrick - GA
- Viya 4 – 2020.1.3 (Feb 2021)*

## Now

- Greenplum – Data Connector
- Netezza – Data Connector
- SSO Support on Azure (Synapse, MSSQL, PGSQL, MySQL)
- Spark SQL/Proc Pushdown Improvements  
*2020.1.4 (Mar 2021)*
- DB2 – External Table Loading Technique Support  
*2021.1.1 (May 2021)*
- MSSQL – MSSQL BDC Support
- PGSQL – CockroachDB Support  
*2021.1.2 (June 2021)*
- Salesforce – Bulk API Support  
*2021.1.3 (Jul 2021)*
- MongoDB – MongoDB Atlas Support
- Spark – Enhancements + Thrift dependency removal  
*2021.1.5 (Aug 2021)*

## Next

- Salesforce – Update, Insert, Delete Support
- Netezza – IPS Support  
*2021.1.3 (Jul 2021)*
- MongoDB – Cosmos DB Support  
*2021.2.2 (Dec 2021)*

## Future

- Spark – Azure HDInsight, AWS EMR, Google Dataproc, Azure Synapse, CDP 7.2
- Spark – Azure Databricks, Google Databricks, AWS Databricks Support
- Hadoop – Google Dataproc Support
- Social Media Connectors  
*2021.1.5 (Sep 2021)*
- Connectivity to ODATA
- Cosmos DB – Other APIs Support  
*Future*





## Released

- Automated Explanation and Prediction: EMEA Languages
- Total/Subtotal per column in tabular objects
- User defined Page Templates
- Geo: ISO 3-letter Codes
- VA-SDK enhancements

2020.1.3

- Change data view - enhanced UX
- Automated Explanation & Prediction: Asian Languages

2020.1.2

- Export to Excel
- Import report pages
- User-define page templates

2020.1.1

- Usability enhancements
- Report review
- Conversation Designer (Chatbot)
- VA SDK support for Report Themes
- Automated Explanation: Geo

2020.1

## Now

- Automated Explanation and Prediction: Add. EMEA/Nordic Languages
- Table objects enhancements
- Enriched Gauge types
- SAS for Microsoft 365 (Excel): VA Reports
- Min/Max Date
- VA App - viewer customizations
- VA SDK Enhancements
- Enriched data animation /display
- Embedded Insights (Content SDK & Publish with data)

2020.1.4

- Explanation and Prediction: Add. EMEA/Nordic Languages
- Self-Service Explanation Summary on Report objects
- Enriched KeyValue object support (links, grid layout, precision control)
- Native SAS Job support
- Automatic Outlier Detection
- Geo polylines
- Improved dense scatter plot display
- Log scale
- Label Thinning

2020.1.5

## Next

- Compact Number precision control
- Automatic Outlier Detection enhancements
- Dynamic Parameters
- Dynamic Reference Lines
- Enriched filters
- Pinned Insights
- VA and Content APIs with SDK
- SAS for Microsoft 365 (Excel): Data
- SAS for Microsoft 365 (PowerPoint): VA Reports
- Text Topics: Custom names for topics
- API and SDK support for Print to PDF
- Smart Charts

2021.2

- Geo Analytics
- VA and Content APIs with SDK
- Annotations
- Automated Data Stories
- Enriched Geo visualization
- SAS for Microsoft 365 (Excel): SAS Jobs
- Smart Collaboration
- Calculation enhancements

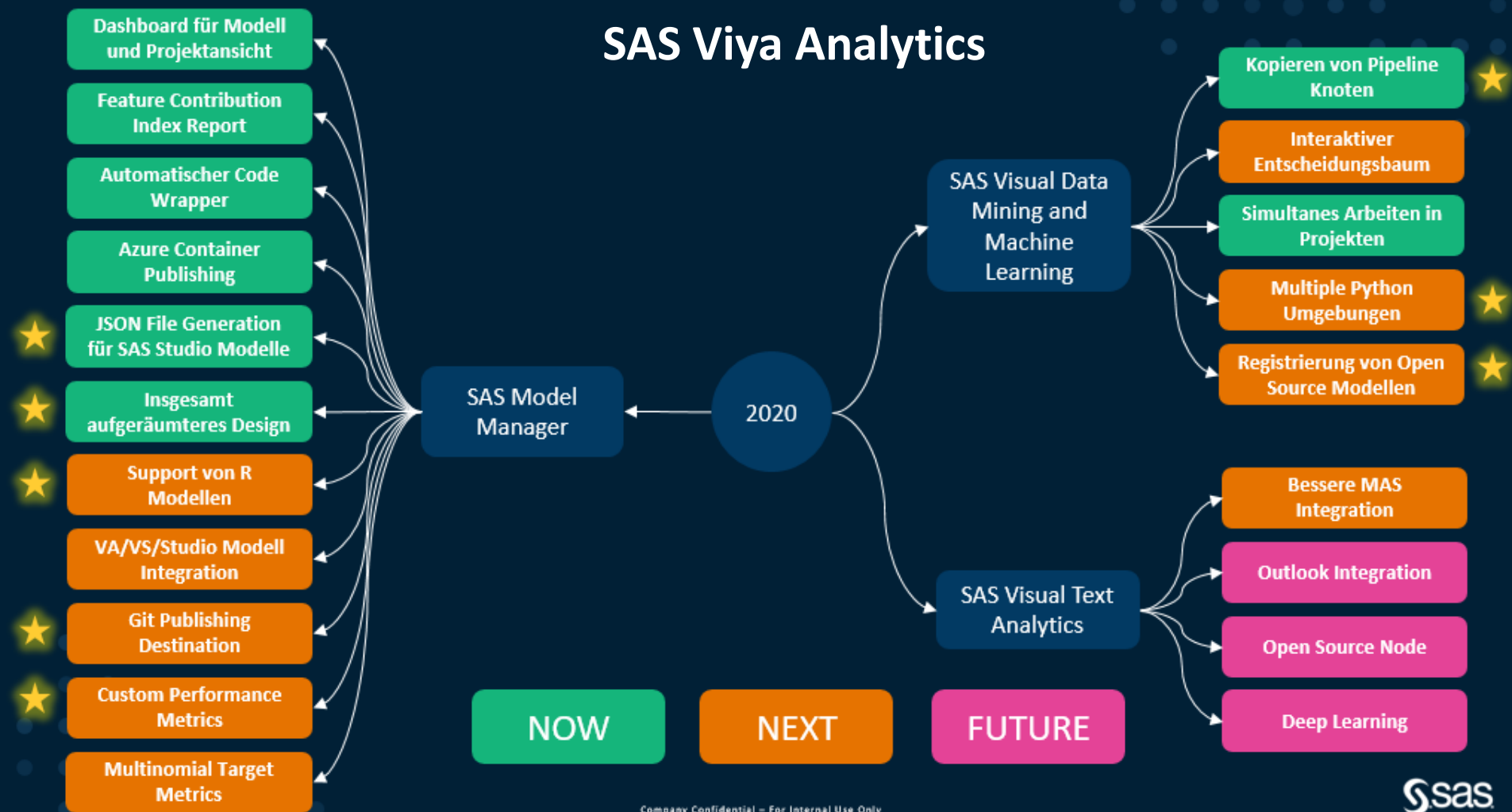
2022.1

## Future

- Microsoft 365 Add-in: Analytic actions and Models
- Dynamic Comparison
- Wearable Analytics
- Natural Language Query
- Bookmarks
- Mashups
- Streaming/Operational Analytics
- Natural Language Business Interpretability
- Lineage
- Report Content Search and Catalog
- Chatbot VA Integration
- Notifications



# SAS Viya Analytics



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