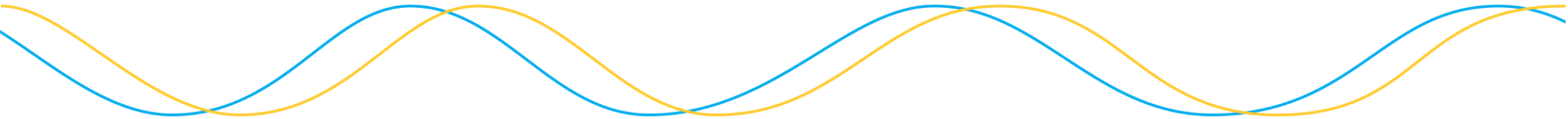




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# **SAS Global Forum Hands on Workshop**

Working with both Proprietary and Open Source Software

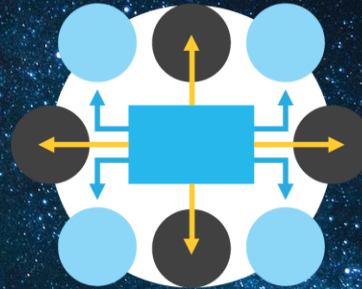




# Options for using Python and R with SAS



**SAS Studio**  
(Proc iml)



**SAS Enterprise Miner**  
(Open Source Integration)



**SAS Viya**  
(Swat)



# Dataset

## Crash Analysis System (CAS)

**Serious Injury**  
**Not a serious injury**

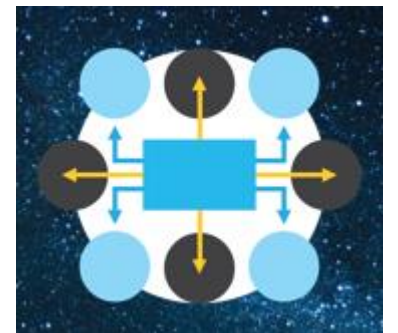
[data.govt.nz](https://data.govt.nz)



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# Enterprise Miner

Open source  
integration *and R*







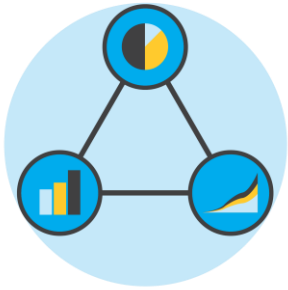
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# Overview

1. Concepts (10 min)
2. Exercise (15 min)
3. Tips and tricks (5 min)
4. Q and A time (5 min)



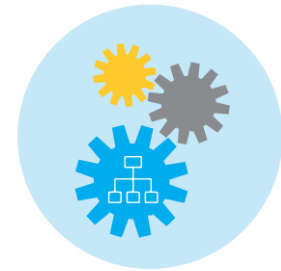
# Key Concepts



**R overview**



**Seeing R in  
Enterprise Miner**



**Open source  
integration node**



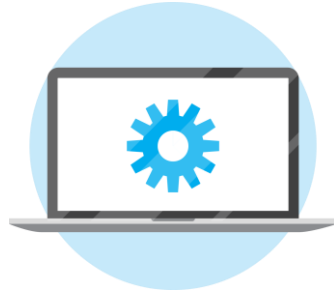
# Exercises – Enterprise Miner



# Tips and Tricks



**Watch out for  
missing values**



**Write R Scripts  
in IDE (RStudio)**



**Use helper file  
for macro vars**



**Get the admin  
team to help**



# Questions





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# SAS Viya

## *Swat and R*







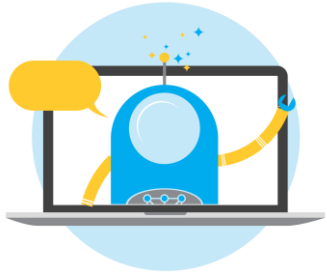
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# Overview

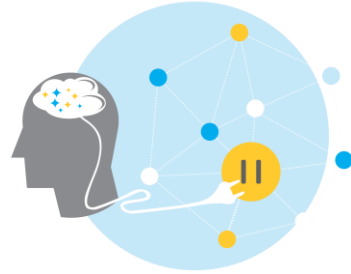
1. Concepts (15 min)
2. Exercise (20 min)
3. Tips and tricks (5 min)
4. Q and A time (5 min)



# Key Concepts



**CAS and SWAT  
overview**



**Creating a CAS  
connection**



**Running your R  
code on CAS**



# Exercises – SAS Viya, R Studio



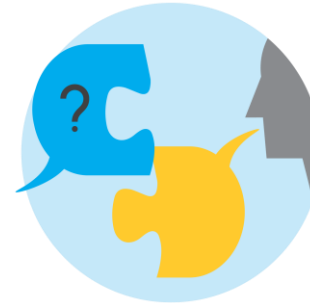
# Tips and Tricks



**Know if you are  
on R or CAS**



**Protect your  
password**



**Look at GitHub  
blogs**



**CASTable object  
vs table name**



# Questions





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# Key takeaways.

WHAT YOU SHOULD  
REMEMBER







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