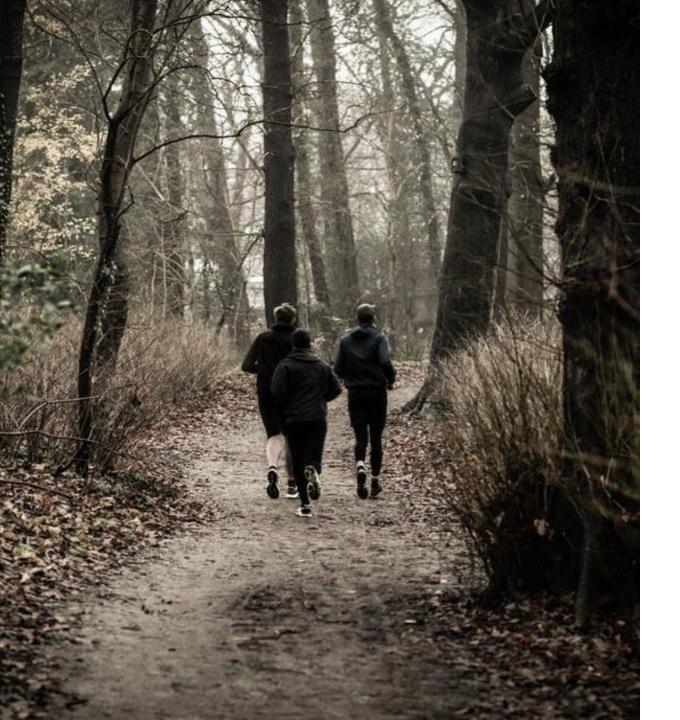


Towards A Data Analytics Ready Organisation

Kelvin Goh, Deputy Director,
Data Science & Al Division, GovTech





"

If you want to go fast go alone;

If you want to go far go together.

"

African Proverb

66

If you want to do
Data Science and Al fast,
do with Data Scientists;

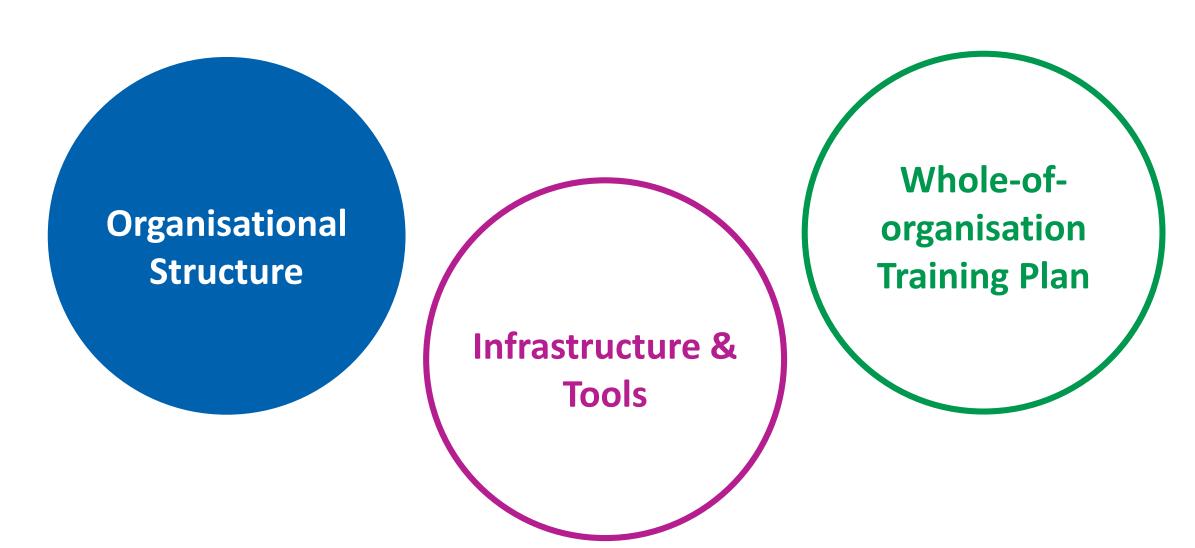
But if you want to do it in a sustainable manner, do with the entire org.

"

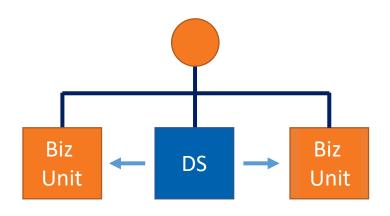
Our Philosophy



Right Ingredients For Success

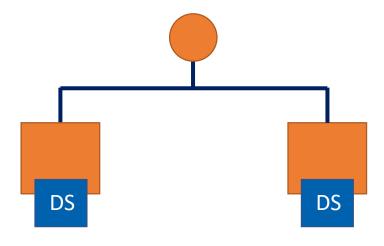


Some Possible Options For Organisation Structure



Large central Data Science to support all projects

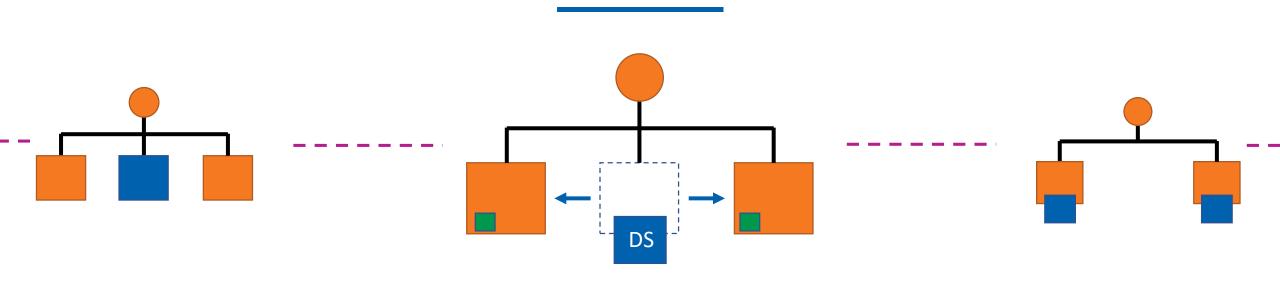
Data culture may not be pervasive; lower sense of ownership from the divisions



Decentralised Data Scientist teams in each division

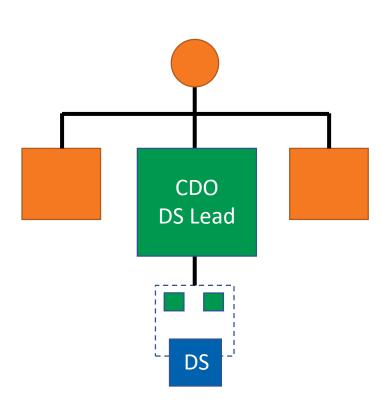
Challenge with headcounts; Can you provide the DS with challenging (& enough) work?

Sweet Spot Somewhere In Between



- Form a working group made up of business users with advanced analytics skills -> Data Champions (■)
- These **Data champions form bedrock for project execution**, as they know the domain, and generally own the problems.
- **Support the Data Champions** with Data Scientists, who execute projects alongside them, and play a mentoring role.

Put In Place A Leadership Tier



 Chief Data Officer's (CDO) new mandate is also to push for data exploitation on top of data governance.

 Co-lead the efforts with a Data Science lead

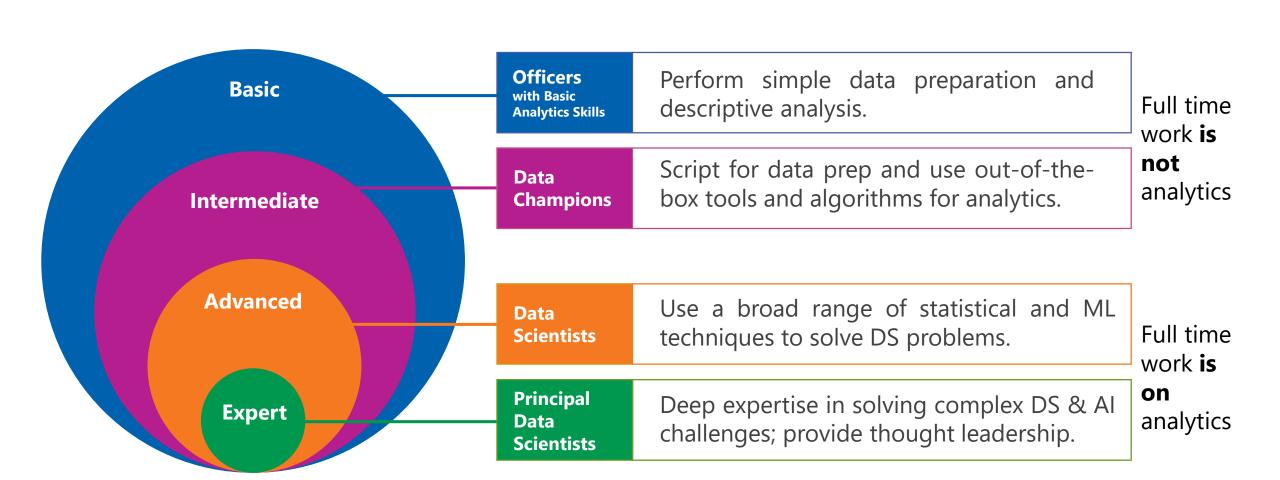
Prioritise project execution



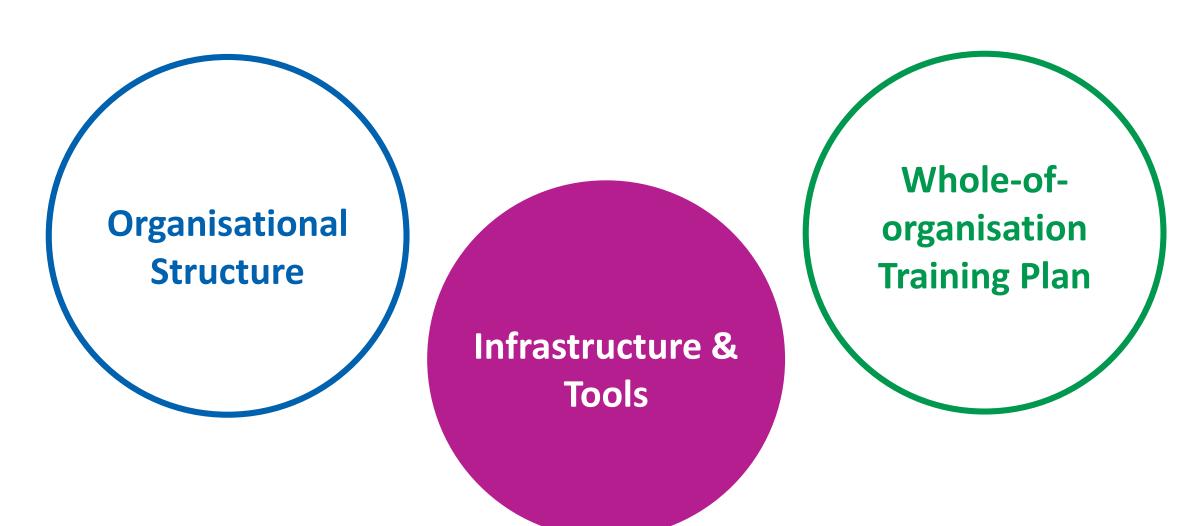
Recognise and develop the Data Champions

- A very critical component in sustaining projects beyond completion
- Act as influencers of Data
 Science & Al to the rest of their division
- Recognise their efforts and protect their interests
- Develop them further through mentoring and training

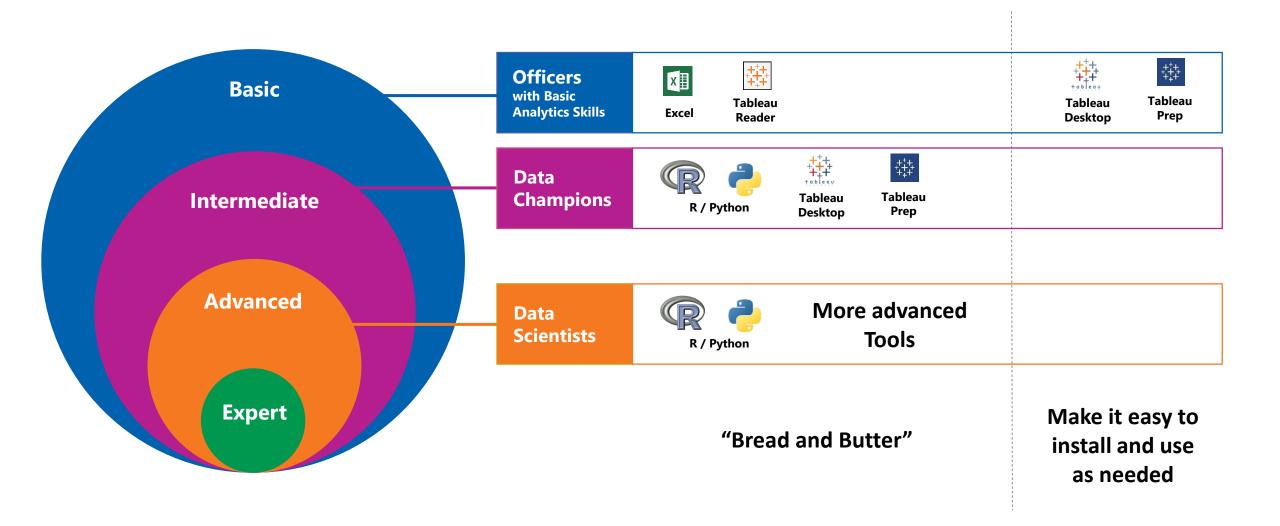
The Organisation Is Not Homogeneous

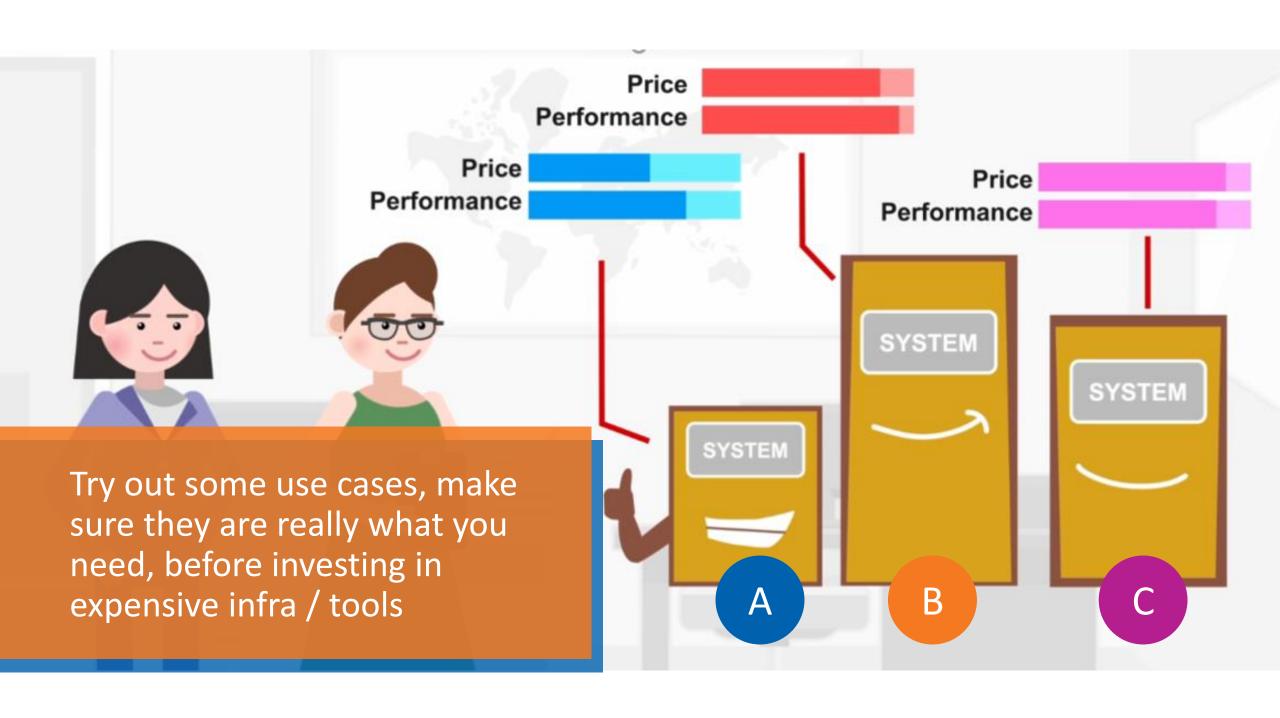


Right Ingredients For Success

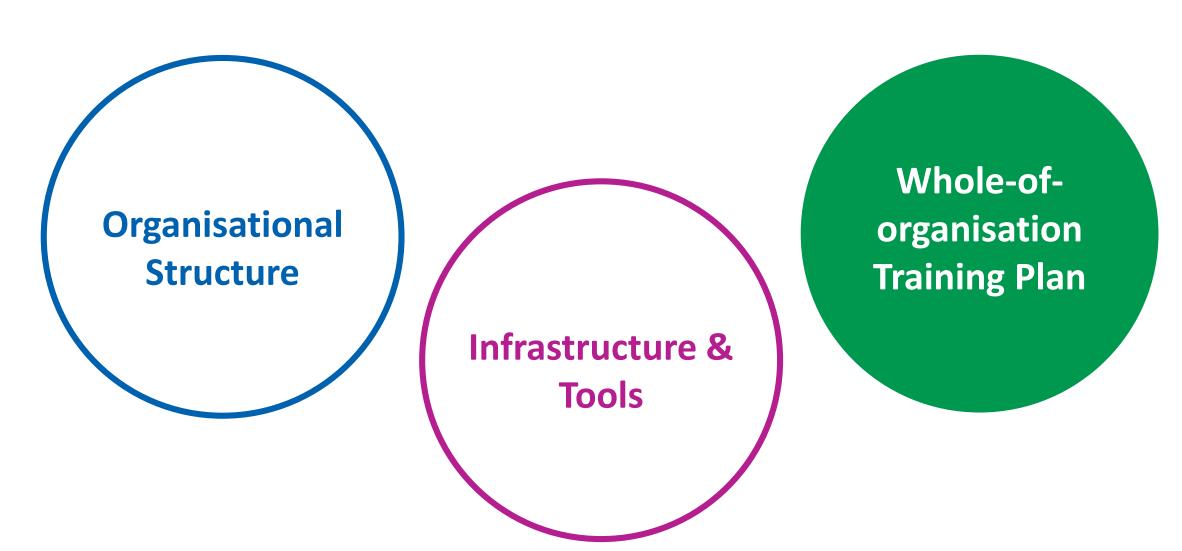


Let the Staff Have Access To Tools They Need Seamlessly

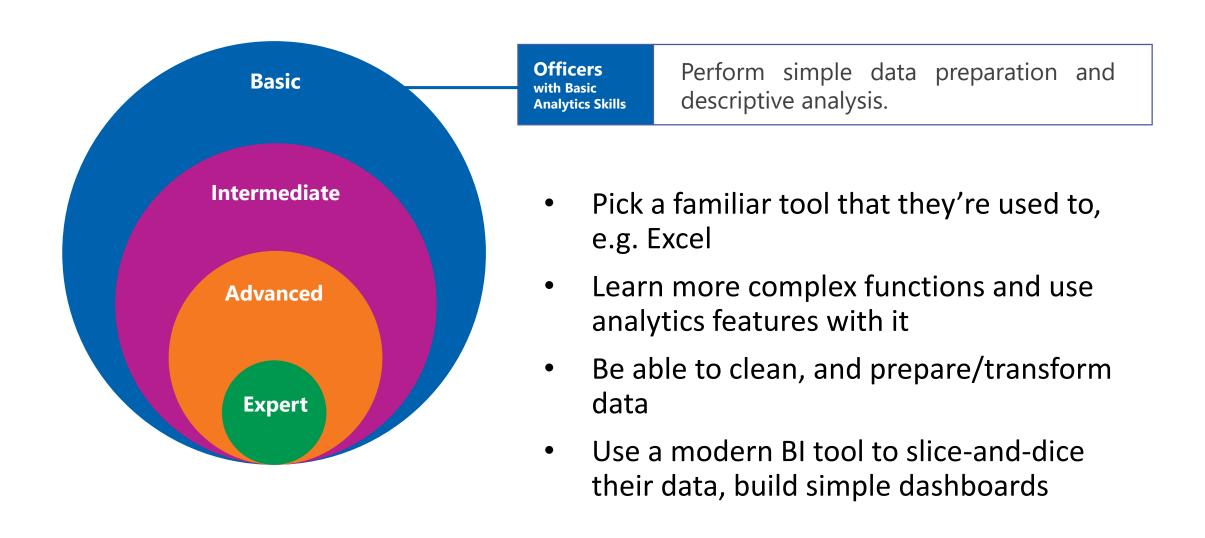




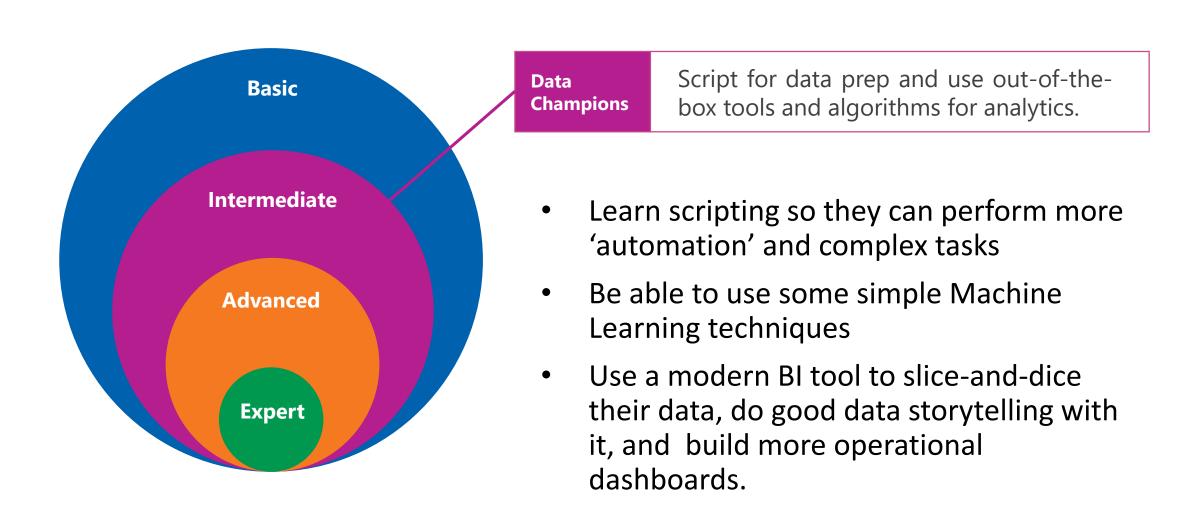
Right Ingredients For Success



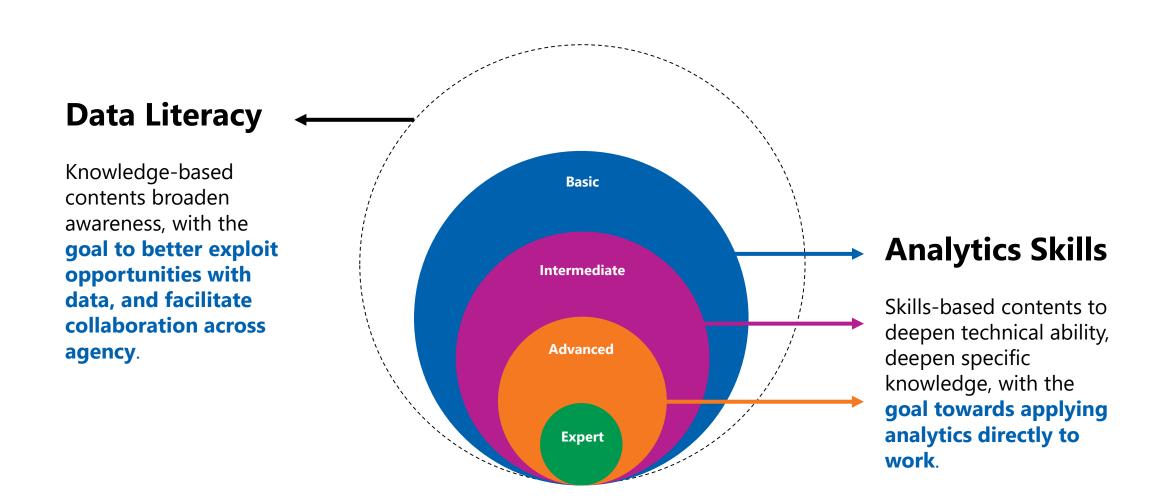
Right-size the training plan for different tiers of staff



Right-size the training plan for different tiers of staff



Besides applied analytics skills, we must also level up the Data Literacy





Data Literacy ePrimer

- Accessible by all public officers
- Primer on Data Science & Al concepts
- eLearning-based, self-paced
- ~4 hours of contents
- Enable officers to understand how to use data effectively.

Look out for it!

What Initial Success Looks Like



More interactive
dashboards and charts
for self-service data
discovery.
Critical dashboards used
regularly might be put on
server for easy access.



Better understanding of strategic datasets across organisation to be harnessed for impactful projects.



One or two relatively impactful projects completed that brings greater value to actual work, with several more projects that are in the pipeline.

What Initial Success Looks Like



Divisions can confidently initiate projects that are then executed through the Data Champions.

(with support from Data Scientists)



Staff within the Data
Champions' division better
appreciate of the use of
data, enforces good habits
in handling data, and
responding positively to the
Data Champions.



We would have developed a better sensing of a strategy for carrying out a data transformation journey that works for the organisation

END