

APS Data Professional Stream

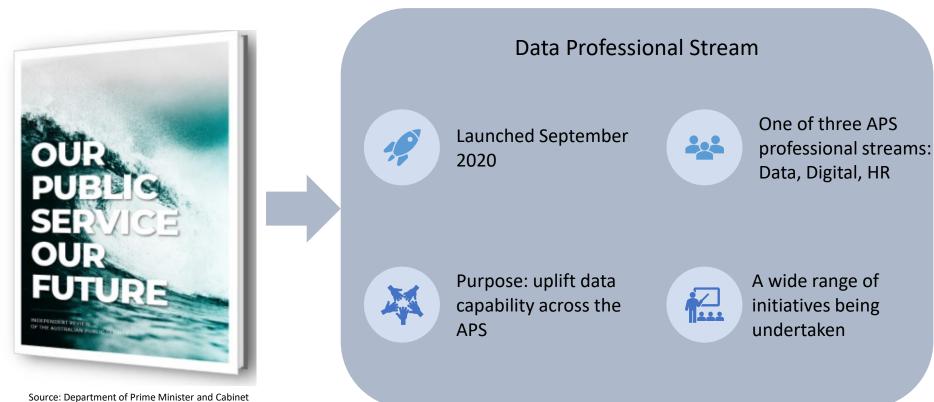
Data skills for informed evidence and insights:

Australia's experience in building a Data Profession

Central Statistics Office

7 October 2022

Australian Public Service (APS) Data Profession





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The Data Professional Stream Work Program



Establishing the professional stream

Set up the professional stream

Establish a Senior Reference Group

Identify the Head of Profession Develop a Professional Stream Strategy

Collaborate and network

Establish professional network



Getting it right from the start

Attract the right skills to APS roles

Streamline recruitment across the APS Develop an APS profile

Build inclusion into the professional stream

Ensure appropriate entry level qualifications

Collaborate with the education sector to uplift entry level qualifications



Developing sophisticated and specialist capabilities

Enhance capabilities

Design job role profiles Identify and develop capabilities Identify and promote structured learning opportunities Encourage learning by immersion



Embedding a professional workforce

Retain and grow workforce for the whole APS

> Define and promote career pathways Support professional communities Identify professional standards



What has been achieved?

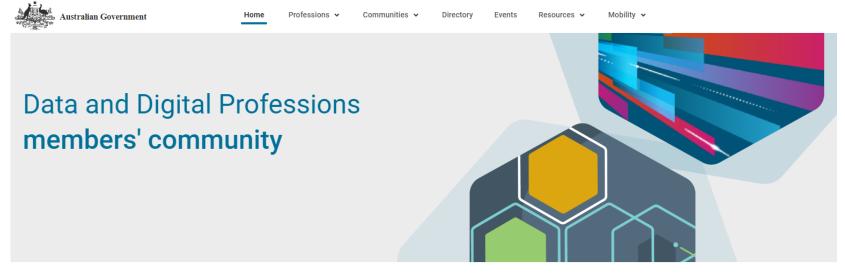


APS Data Professional Network

- By July 2022, 2100 members from across the APS and externally
- A LinkedIn group also allowed APS data professionals to network
- From August 2022, the network moved to the Data Profession Members' Community Platform.

Data Profession Members' Community Platform

• Co-hosted on the same platform as the APS Digital Profession



Welcome to Data and Digital Professions

The Data and Digital Professions are now together on this members' community platform. You can join one or both Professions to access communities, resources, member profiles, job opportunities and Profession-specific events and training. Sign up to join the Data and Digital Professions today.





APS Data Professional Stream

The MCP is a space for Data Professionals to connect and collaborate.

Key features:

- Communities of Practice
- Resource libraries
- Events
- Discussion threads and blogs
- Member directory
- Members can choose to receive emails summarising activity (either daily or weekly)

Data Profession

Welcome to the Data Profession members' community

As members of the Data Profession you are uniquely placed to use your skills to improve outcomes for the Australian people. With the increase in digitalisation, data las playing an increasingly important to lie invidence-based policy development, regulation, and security outcomes for all Australians. And as data professionals, we also harve a role to play in ensuring our colleagues are also appropriately up-skilled.

This members' community is your space to connect with other data professionals through communities of practice, or informally via the discussion boards, access mobility opportunities; register for events; and more. Just like the data profession itself, the overarching goal of this platform is to raise the data capability of the public service for better outcomes. Lencourage you to engage with this community to further your own skills, and

those of your colleagues and to keep in touch with developments across the

Australian Statistician and Head of the Data Profession

data landscape! Sincerely, Dr David Gruen AO

#DataProfession



Head of the Data Profession, Dr David Gruen AO, Australian Bureau of Statistics

ATO Data and Analytics Expo: To thrive in the data profession 0: 96% 1:200 PM 0:30 PM (AGST) register 0:86% 2:00 PM 1:00 PM 1:		Expo: ent: ct of ervice	MasterCraft Series: Data and Technology in State Regulatory Practice 0. Sep 30, 1000 AM- 120 PM (KST) Register	30	Sep 30 Detection Kick-Off 0: Sep 30, 03:00 PM- 0: do DPM (AEST) RSVP	
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्रि Check New Announcements		েন্ট্র হে See Upcoming Events		Find Learning Resources		
Don't miss out on new announcements posted on your communities. •			pcoming events and g sessions. ►	Check our list of learning resources to grow your data skills. •		
Read Blogs		Join Data	Communities	Explore the Library		
Read new blogs from the Data Profession. ►		Join communities to connect and share ideas with your peers. •		Find shared guides, toolkits, and recordings from our events and training. •		

Australian Public Service Data Graduate Recruitment

- We have recruited graduates for three data streams:
 - Data Analysts
 - Data Scientists
 - Statistical Methodologists
- 2021
 - 216 job offers
 - 140 graduates placed in agencies
- 2022
 - > 300 data graduates across the APS



Entry Level Programs

 Working with the Australian Public Service Commission (APSC) to establish new entry level programs



- Targeting undergraduates in data related fields
- Participants in this new data cadet program will be based in selected regional university campuses
- As well as undertaking paid work while still studying, data cadets will be provided additional training and networking opportunities

APS Academy Campuses

DATA AND DIGITAL PROGRAMS





APS Data Capability Framework

Provides the foundation to building data capability and supporting data career paths



DEFINES

The **data** skills, knowledge & behaviours required in the APS





ONE LANGUAGE

Equips the APS with a clear and consistent language to use for data capabilities GUIDES

APS employees, managers & HR to build data capability and expertise

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Navigating the framework...

	≓ PLAN	COLLECT	DESCRIBE	ట STORE	₽REPARE	ANALYSE & USE	DESTRO		
1. Value organisational data as assets	~	~							
2. Data communication	~	~	2. Data Communication						
 Improvement and Innovation - Data processes/systems and tools/products 	~	~	Effectively communicating with data or about data with a range of audiences.						
4. Data governance	~	~	Advanced • Can develop and deliver advanced level narrative to communicate insights drawn						
5. Data availability	~	~		from complex data sources and outputs.					
6. Data access	~	~		 Maintains understanding of new trends and innovations relating to data 					
7. Sourcing and use of administrative data	~	~		communication (including Artificial Intelligence-based technologies) and develog skills in these where relevant. Understands the importance of translating technical concepts into non-technica					
8. Data collection	~	~							
9. Subject matter expertise	1	~				ation effectively for a range of audiences.			
0. Identify research questions	~	~			 Can use innovative approaches to improve the process of summarising dat meaningful narratives. 				
I. Data outputs, products or services	~			 Uses high quality analytics and visualisation to communicate insights from date 					
2. Data collection methodology		~		Can effectively listen to technical and business stakeholders and understand and					
. Data integrity and quality assurance		~		interpret their data needs.					
Statistical concepts and methodologies		~	Intermediate	 Can develop and deliver effective narrative to communicate insights drawn from a range of data sources and outputs. Can comfortably question data and results they are presented, and answer 					
5. Data and information management		~							
5. Data classification					elevant to the audience.				
7. Integrate data				 Can communicate effectively between technical and non-technical experts across data production, management, or use, including clients, managers and data 					
8. Data editing				professionals.		iuding clients, managers an	g clients, managers and data		
9. Metadata - Describe and summarise data.				Can effectively communicate the relationship between the data and the context in which it is used.					
D. Data use and re-use									
. Data processing methodology			Foundation	Can develop an	and deliver a simple narrative	to communicate insights r	related to		
2. Exploratory data analysis				their data.					
. Visualise data				 Can ask and answer a range of questions relating to their data, relevant to the audience. 					
. Statistical data analysis				 Can communicate effectively with a range of stakeholders during data production 					
5. Specialist data analysis				management, or use.					
i. Business intelligence data analysis			Associated Categories	😑 💷 🗈	🛃 📴 🜌 🗊		Back to top		

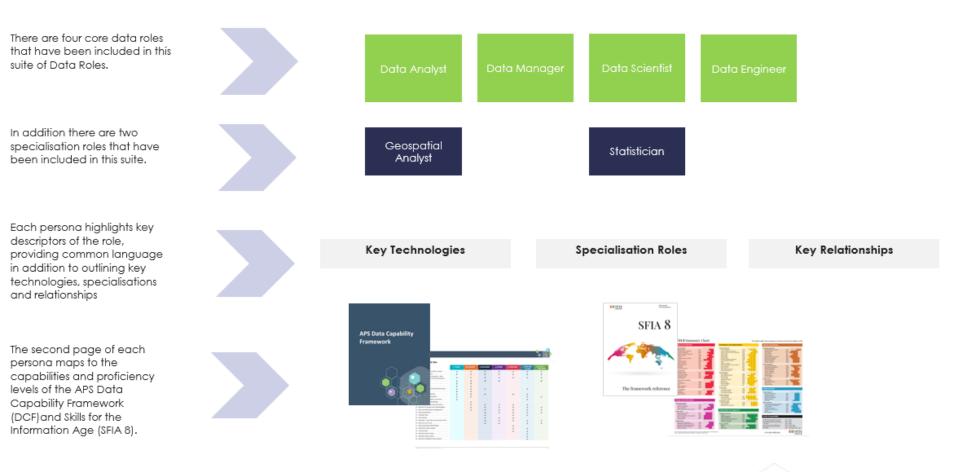
Enhanced Mobility opportunities



Developing data skills through immersive learning:

- Aimed to uplift data capability
- Typically 3 6 months in duration
- Evaluated what worked well, and areas for improvement

Data Job Roles Overview





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Senior Executive Service Data Leadership Course

Uplifting data capability for Senior Executive Service (SES) officers to build a data-driven culture across the APS.

 Administered by the APS Academy



 Course content mainly delivered by ANU teaching staff.



CENTRE FOR SOCIAL RESEARCH & METHODS ANU College of Arts & Social Sciences



SES Data Leadership Course Modules

Masterclass: Why data matters and how to get value from it

Agency data governance and SES roles and responsibilities

Data analytics fundamentals

Influencing with Data

Managing Data

Data Quality

Emerging Data techniques

Data Literacy Pathways

- Five learning clusters are in the pathway
 - 2 are essential
 - 3 are recommended





Contact the Data Profession



Registration Form

Join the network to receive newsletters from the Data Profession https://www.apsc.gov.au/initiatives-and-programs/apsprofessional-streams/aps-data-profession



Email

Contact the Data Professional Stream team directly by emailing <u>data.profession@abs.gov.au</u>







