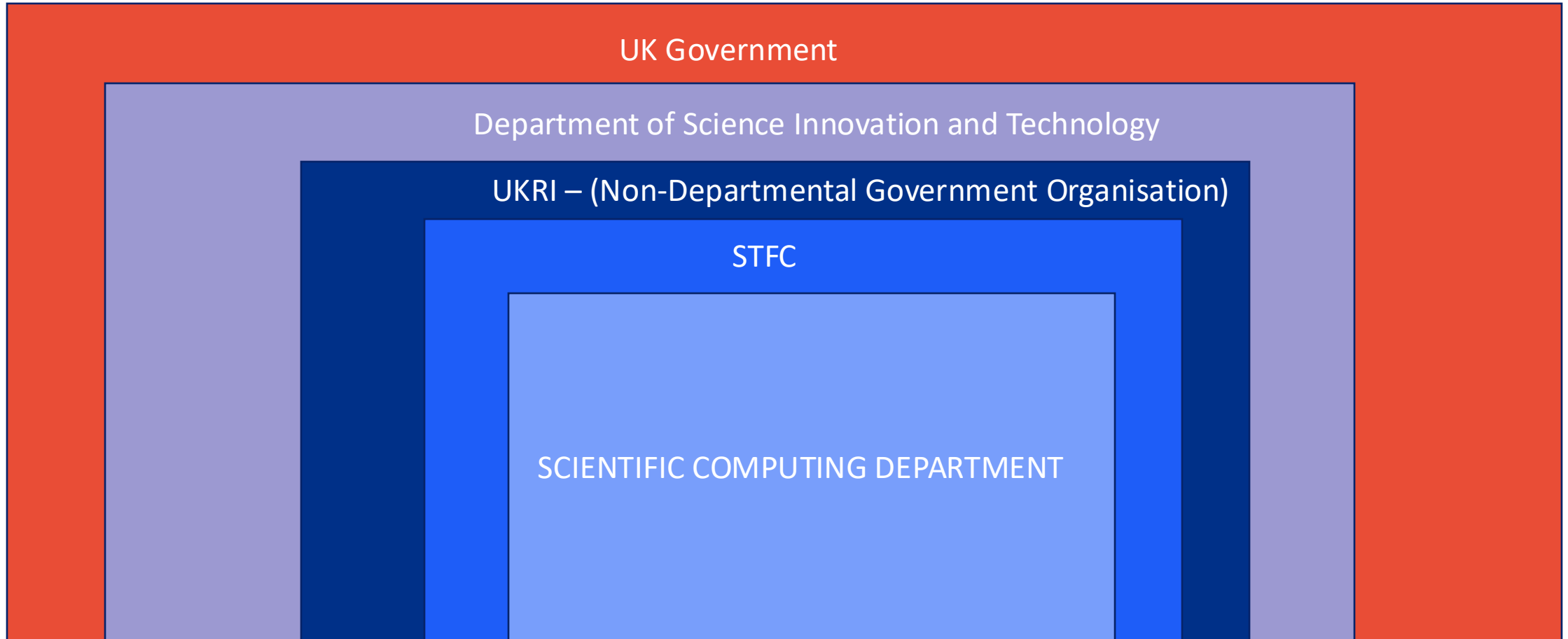




Science and
Technology
Facilities Council

GenAI Risk Management

SCD Background



Background

- No GenAI risk work done being made available by
 - STFC
 - UKRI
 - DSIT
 - Government
- GenAI providers offer heavily biased risk analysis
- UKRI states that only web-based Enterprise CoPilot should be used
- GenAI in Project Management SIG created and use cases collected
 - These people have paid Enterprise CoPilot licences
 - Org mostly not project managers

What are we not doing

- Telling people “no”
- Assessing how useful GenAI is in reality
- Enforcing UKRI Policy
 - You have to use the web portal version of enterprise CoPilot
 - UKRI will not pay of enterprise CoPilot
 - Dept doesn't have the money to pay for people to have enterprise CoPilot
 - 30 Project Managers across UKRI have a paid version
 - UKRI as a whole is 7736 people
 - The paid version is \$30 a month
 - \$232,080 per month for all of UKRI (£171,980 or €197,523)
 - UKRI themselves use an assortment of tools

What do we need to know

- What are staff *actually* doing?
 - Models
 - Work being done
 - Hosting location
- Has anyone else started addressing the exact same problem
- What are the risks Users and Management are concerned about

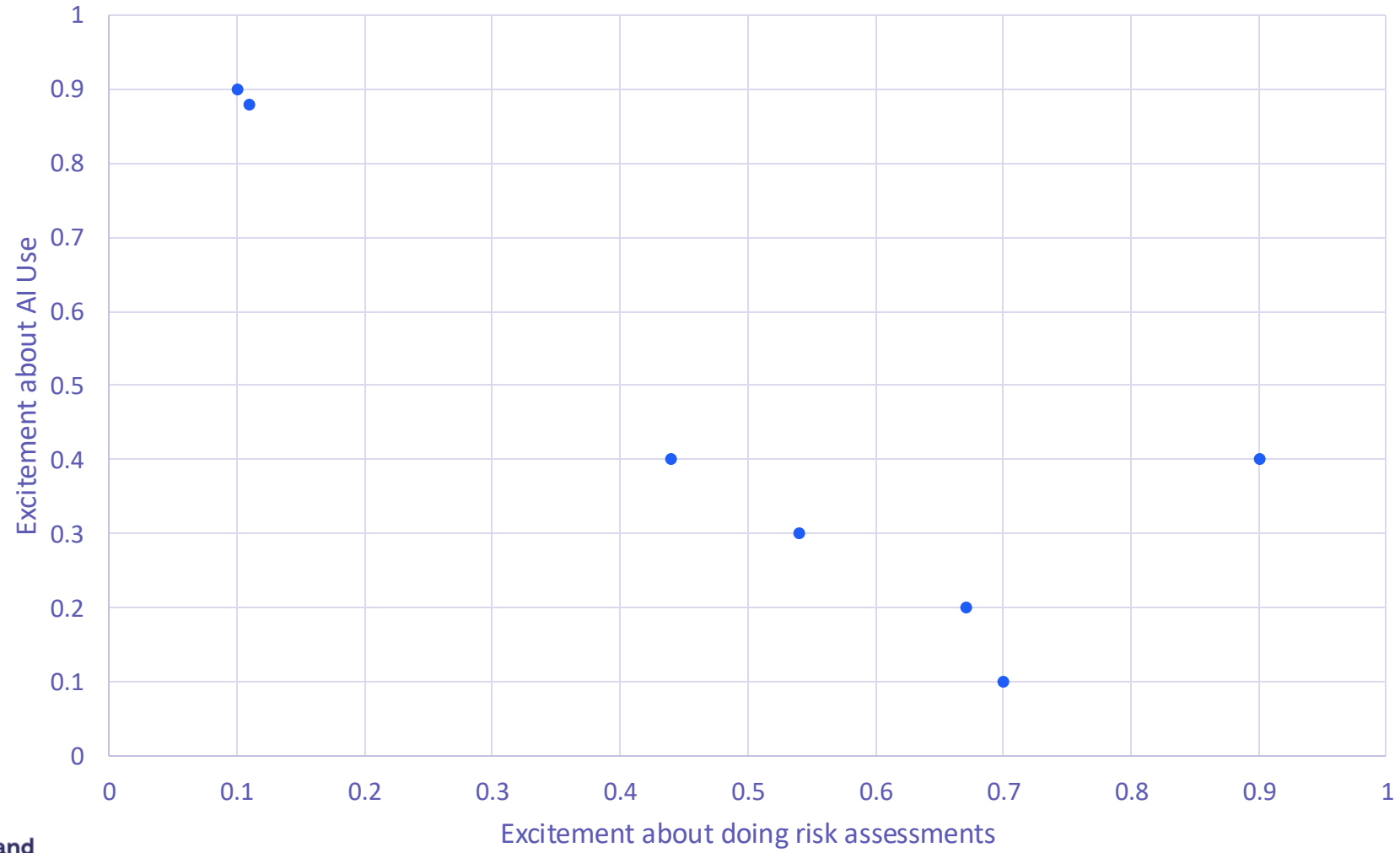
What are we worried about

- STFC IP infringement
 - Our IP being leaked
 - Pulling in other peoples IP
- Data Protection
 - Personal Data
 - Sensitive Data
 - OFFICIAL, OFFICIAL – SENSITIVE, SECRET and TOP SECRET
 - Allowed for Official and Official-Sensitive to be shared with Enterprise CoPilot Only
 - Secret and Top Secret are obviously not allowed to be shared with any LLM

Range of work being done

- Tier-1
- Data and Analytics Facility for National Infrastructure <https://www.dafni.ac.uk/>
- STFC Infrastructure
- Researchers
 - Computational Biology
 - Computational Chemistry
 - Computational Physics
- Project Managers
- Admin Staff
- Databases team

Feeling from talking to people



Source – I made it up

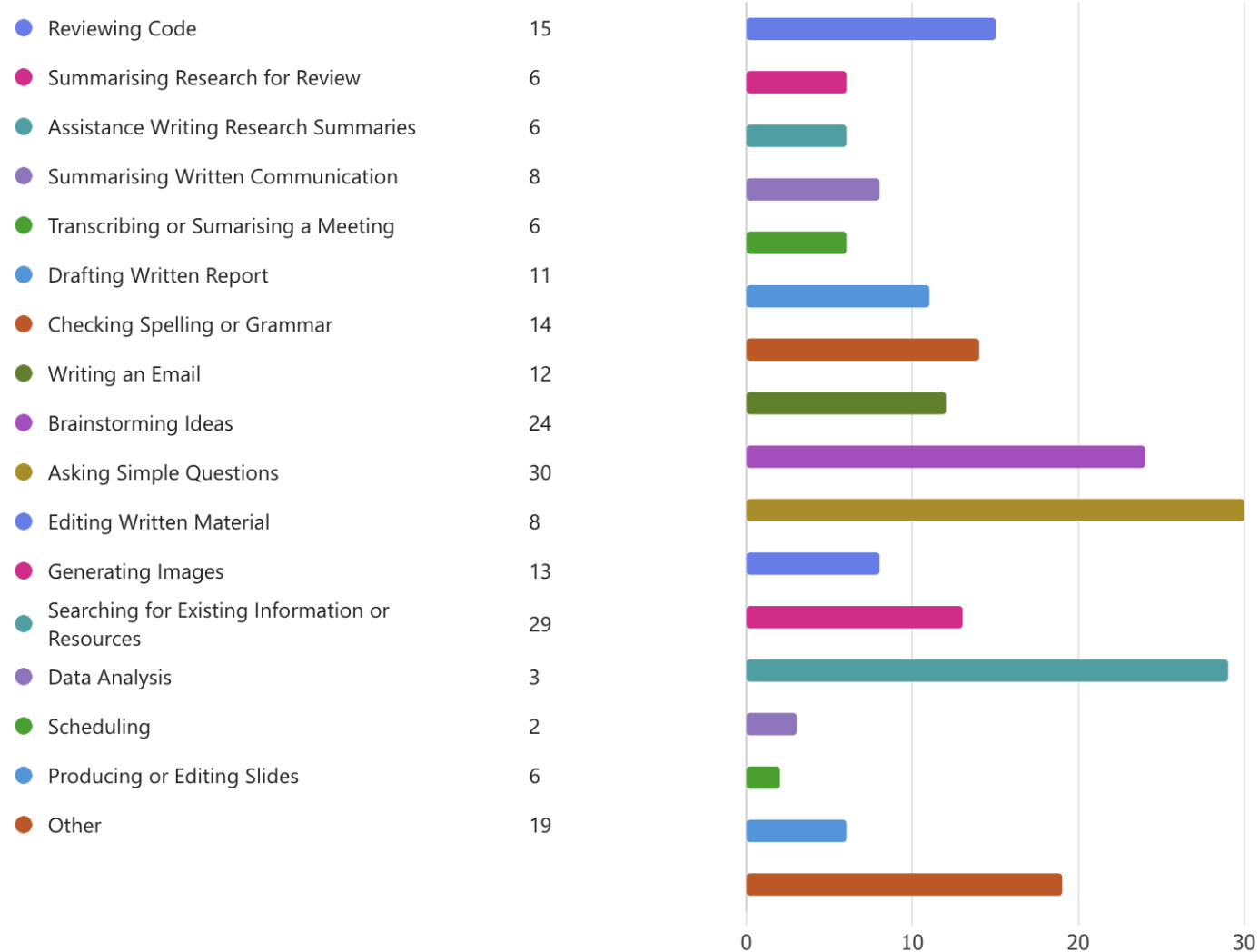
Survey

- Fairly good response rate
 - 1 email with form link sent last week
 - 65 replies from 311 members in the department about 20%
- Only 7 questions
 - What are you using GenAI for?
 - How do you access your chosen model?
 - Is any used data classed as personal sensitive under GDPR?
 - What is the highest data classification of used data?
 - Do your inputs/questions contain any STFC IP?
 - Do you directly import any AI generated content into project outputs?
 - Any other comments?
- Anonymous Responses

Survey

1. What type of work are you using GenAI for?

[More details](#)



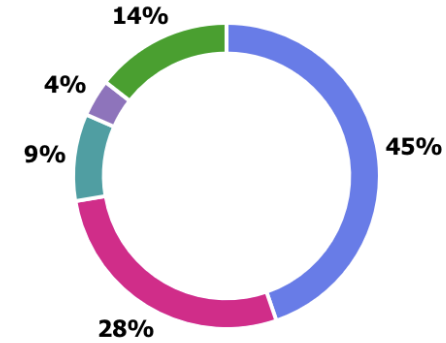
Other responses mostly “I don’t use AI” and a few for writing scripts

Survey

2. How do you access your chosen model(s)?

[More details](#)

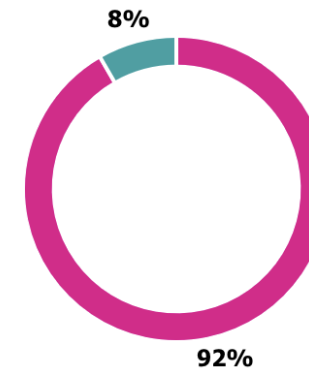
● Web Portal	34
● Browser or Client Integration	21
● Locally Hosted	7
● Cloud Hosted	3
● Other	11



3. Is any used data classed as personal sensitive under GDPR?

[More details](#)

● Yes	0
● No	55
● Other	5



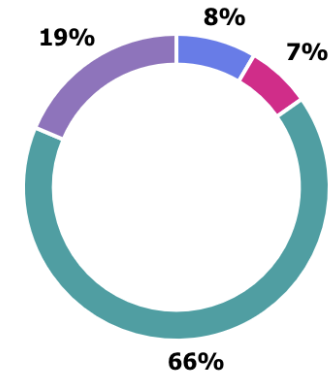
“Other” are all people saying “no”

Survey

4. What is the highest data classification of used data?

[More details](#)

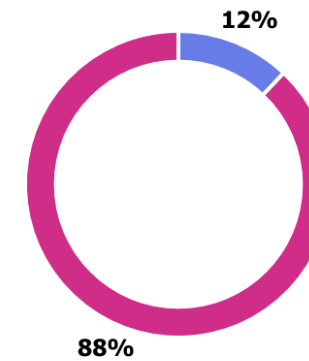
● Official	5
● Official Sensitive	4
● Unclassified	39
● Other	11



5. Do your inputs/questions contain any STFC IP?

[More details](#)

● Yes	7
● No	51

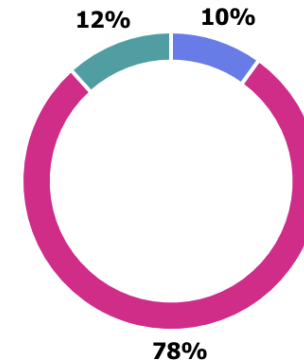


Survey

6. Do you directly import any AI generated content into project outputs?

[More details](#)

● Yes	6
● No	47
● N/A	7



- Q7 Range of responses
 - “I try to avoid the use of generative AI”
 - “I think it's getting to the point where not using GenAI is impossible; even the likes of spelling and grammar checkers often incorporate it now.”
- Almost completely useless independently but may be useful if I go through individual responses
- I also had replies to my email from people sharing what they are working on or sharing opinions

Risk Assessments

- Already done a few
 - Github CoPilot, actually a mix of
 - OpenAI
 - CoPilot
 - Claude
 - On-Prem LLM, deployed with docker container onto Openstack VM
 - <https://arxiv.org/abs/2402.19173>
 - “StarCoder2-3B”
 - Early risk assessment version
 - Lots of input from project managers
 - New risk assessment shorter and more focused

The plan

- Risk assessed by least senior person capable of owning risk
 - At STFC legal responsibility only possible from band F and upwards
 - Usually group leaders
 - Recent reorganization
 - Promotions frozen half way through
- Risk assessments approved by “theme leaders” and department head
 - Themes are the next split under division
 - Range of sizes
 - Largest 45 people
 - Smallest is the security theme 3.5 permanent staff plus 2 graduates

How is it going

- Starting push once I have a gap (next Monday)
 - Time to support the effort for 3 weeks
 - Hopefully no services break
- Group leaders have been informed in the plan
- Specific meetings with AI Theme Lead
- Risk assessment Short so hopefully painless
 - Example risk assessments created to help guide

Long term plan

- I don't want to do this longer than I have to
 - Asked to do the work by the Dept head, now we have a new Dept head
 - Group leaders create
 - Theme leads and department head approve
 - Security officer advises
- Part of department operations
- Hope that once most use cases have been done, we can move away from risk assessing everything
 - Diagram on the right was made to explain the hoped for end process
 - Can we just ask 5/6 questions and if someone has already risk assessed the same use case you just follow their risk assessment?

